#### Agenda December 2-3, 2010

I.	v, December 2 9:00 am	Call to Order	
II.		Roll Call	
III.		Public Meeting Notice	
IV.		Approval of Agenda	
V.		Public/Member Participation, Communications, and Appearances	
۷.		(Three Minute Limit)	
VI.		Approval of Minutes: August 16, 2010	Minutes 081610
VI.		September 23-24, 2010	
VII.		Election of Officers	
VII.		Election of Officers	
VIII.	9:15	Reports	
		1. Chair Report	
		2. Committee Reports	
		A. Audit Committee, Martin Pihl, Chair	
		B. Trustee Study Group, Martin Pihl, Chair	
		3. Retirement & Benefits Division Report	DRB Report
		A. Membership Statistics (informational)	
		B. Buck consulting Invoices (informational)	
		Annette Kreitzer, Commissioner, Department of	
		Administration	
		Patrick Shier, Director, Division of Retirement	
		& Benefits	
		4. Treasury Division Report	CIO Report 1210
		Jerry Burnett, Deputy Commissioner, Dept of	<u></u>
		Revenue	
		5. CIO Report, Gary Bader, Chief Investment Officer	
		3. CIO Report, our y buder, oner investment officer	
	9:30-9:50	6. Fund Financial Presentation and Cash Flow Update	Fund Financial-
	9.30-9.30	Pamela Leary, Comptroller, Department of Revenue	CashFlow093010
		Pat Shier, Director, DRB, Department of Administration	
		rat Shier, Director, DKB, Department of Administration	
	9:55-10:25	7. KPMG - Audit Report	KPMG-December 201
	2100 10120	Michael Hayhurst and	KPMG-AuditComLtr
	10:25-10:35	BREAK	
			IFS Final Report
	10:35-11:35	8. Independent Fiduciary Services Report	IFS Presentation
		Steven Harding and Barbra Byington	
	11:35-12:05	9. Private Equity Evaluation	Callan-Private Equity
		Gary Robertson, Callan Associates, Inc.	Presentation
		Zachary Hanna, State Investment Officer	
	12:05-1:15	LUNCH - 12:00 - 1:15 pm	
		,	Memo-ManagerRevie
	1:15-1:35	10. External Manager Review	Memo-ManagerReview Manager Review 2010
		Gary Bader, Chief Investment Officer	
	1:40-2:40	11. Performance Measurement - 3 <sup>rd</sup> Quarter	Callan-PerformanceQ
		Michael O'Leary, Callan Associates, Inc	10 Callan-
		,,	<u>ExSumPrelim093010</u>
			Callan-SBS093010.
			Callan-DefComp0930

DefContribPrelim093010
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			DefContribPrelim093010
	2:45-3:15	12. Lazard Asset Management - Global Equity John Reinsberg and Tony Dote	Lazard Presentation
	3:15	BREAK - 15 Minutes	
	3:30-4:00	13. ARMB Fixed Income Portfolio Bob Mitchell, Senior Investment Officer	Fixed Income Presentation
	4:05-4:45	14. Financial Reform Review Rob Johnson, ARMB Legal Counsel	
		End of Meeting Day - Recess	
		Friday, December 3, 2010	
	9:00 am	Call to Order	
	9:00-9:30	15. TCW EIG Fund XV Blair Thomas and Claudia Schloss	EIG XV pitchbook Final
	9:35-10:10	16. Brandes Investment - DC and DB Mandates Glenn Carlson and Juan Benito	Brandes Presentation
	10:10	BREAK - 10 Minutes	
	10:20-12:00	17. State Street Global Advisors (all mandates)	SSgA Presentation
	12:00-1:15	LUNCH - 12:00 - 1:15 pm	
	1:15-1:45	<ul> <li>18. Investment Actions <ul> <li>A. Absolute Return Managers</li> <li>B. State Street Bank Contract</li> <li>C, Mondrian Contract Amendment</li> <li>D. Real Asset Committee</li> <li>E. Energy Fund Allocation</li> <li>F. US Intermediate Treasury Guidelines Resolution 2010-19</li> <li>G. Rebalancing - Resolution 2010-20</li> <li>H. Delegation of Authority - Resolution 2010-21</li> <li>Gary Bader, Chief Investment OfficerInvestment Actions</li> </ul> </li> </ul>	Investment Actions 120310
	1:50-2:20	19. Actuarial Valuation Assumption Changes	
XI.		Unfinished Business 1. Calendar, Judy Hall, Liaison Officer 2. Disclosure Report, Judy Hall, Liaison Officer 3. Legal Report, Rob Johnson, Legal Counsel	2011 Calendar- Disclosures
X. XI XII. XIII. XIV. XV. XVI.		New Business Other Matters to Properly Come Before the Board Public/Member Comments Investment Advisory Council Comments Trustee Comments Future Agenda Items Adjournment	

#### State of Alaska

#### ALASKA RETIREMENT MANAGEMENT BOARD

#### MEETING

Teleconference Meeting

11<sup>th</sup> Floor, State Office Building

Juneau, Alaska

#### MINUTES OF

#### August 16, 2010

#### CALL TO ORDER

CHAIR GAIL SCHUBERT called the meeting of the Alaska Retirement Management Board (ARMB) to order at 10:31 a.m.

#### **ROLL CALL**

Seven ARMB trustees were present via teleconference at roll call to form a quorum.

#### **ARMB Board Members Present**

Gail Schubert, Chair

Sam Trivette, Vice Chair

Gayle Harbo, *Secretary* 

Kristin Erchinger

Commissioner Patrick Galvin

Tom Richards

Mike Williams

#### Legal Counsel Present

Mike Barnhill, Assistant Attorney General, Department of Law

Dan Levi, Paul Weiss, Attorneys

#### **Department of Revenue Staff Present**

Jerry Burnett, Deputy Commissioner

Gary M. Bader, Chief Investment Officer

Judy Hall, Liaison Officer

#### PUBLIC MEETING NOTICE

JUDY HALL confirmed that proper public meeting notice requirements had been met.

#### APPROVAL OF AGENDA

<u>MS. HARBO moved to approve the agenda</u>. <u>MR. TRIVETTE seconded</u>. The motion passed without objection.

#### PUBLIC/MEMBER PARTICIPATION, COMMUNICATIONS AND APPEARANCES

None.

#### **ACTION – DISCUSSION OF ALLOCATION OF MERCER SETTLEMENT FUNDS**

CHAIR SCHUBERT requested that Assistant Attorney General Mike Barnhill lead the discussion on the action item before the Board. MR. BARNHILL stated the purpose of the meeting is to consider how to allocate the net proceeds of the Mercer litigation. The Board filed a complaint on behalf of the PERS/TRS systems against Mercer in December 2007 and settled in June for \$500 million. This netted an amount for the PERS/TRS funds of approximately \$403 million for the trust funds. It is the recommendation of the Department of Law, Paul Weiss and Rob Johnson that the allocation be carried out as set forth in evidence presented by the Board in its expert reports. The best evidence available showed the relative allocation of damages between PERS and TRS would have been approximately 89% damages in PERS and 10.9% in TRS, and that is the recommendation for allocating \$403 million in settlement proceeds.

MS. HARBO asked whether any money was paid from the pension funds to pay for the lawsuit, to the Department of Law attorneys or expert witnesses, etc. MR. BARNHILL replied that no money was spent from trust funds for the litigation, money was spent from funds before filing the lawsuit for investigation - approximately \$800,000 approved by the legislature based on a pro rata share based on net asset value at the time of the appropriation. MS. HARBO opined that the money that was used to fund the lawsuit should be paid out in the same proportion as the settlement. MR. BARNHILL clarified that no trust money was used to fund the lawsuit, it was to fund the investigation from appropriations made in 2006. A request for \$12 million for litigation was not approved by the legislature and a contingency arrangement was made with Paul Weiss to continue the lawsuit in the summer of 2007.

MR. RICHARDS requested clarification on the \$800,000 being taken from the trust funds. MR. BARNHILL replied that the Department of Law initially sought \$400,000 to fund the investigation in 2006, which was split 50/50. Subsequently the department sought an additional appropriation of \$400,000 because of the higher investigation costs. At that time the initial appropriation was reallocated on a pro rata basis based on net asset value from the PERS and TRS trust funds. MR. BARNHILL stated that his recollection was that it was 75%-25% because at that time that was the relative proportion between the funds.

CHAIR SCHUBERT, referring to the memorandum received from legal counsel Paul Weiss provided to the trustees prior to the meeting, invited DAN LEVI to comment. MR. LEVI explained that Paul Weiss took a look at different damage scenarios that experts provided, and determined that Scenario #1 was most likely to succeed at trial and was most supported by the evidence. This scenario showed that based on historical rate setting information, PERS was most likely to continue escalating contribution rate, but TRS was not as clear since they had set a flat rate of 12% in the early 90s and there was very little evidence to show what they would have done had Mercer recommended different rates. MR. LEVI also reviewed two other scenarios: one used a 13% flat rate as a baseline, and one which would throw out the flat rate and use the Mercer recommendation across the board, with the assumption that the 5% cap which both funds had always followed would remain in place. MR. LEVI stated that very little evidence supported scenarios 2 and 3, so Paul Weiss' recommendation is to adopt scenario #1 as best supported by evidence. MS. HARBO stated that she wished to clarify that in 1992 Mercer supported 12% flat rate in their recommendation to the TRS. MR. LEVI agreed that was the case.

CHAIR SCHUBERT invited comment from the Department of Revenue staff. COMMISSIONER GALVIN stated he had no comments but agreed with the recommendation.

CHAIR SCHUBERT next referred to the action item in packet.

MR. TRIVETTE moved that the Board direct staff to allocate the settlement funds received from the Mercer litigation as follows: 89.0829% to the PERS Health Trust Fund and 10.9171% to the TRS Trust Fund. MS. HARBO seconded.

KRIS ERCHINGER noted a correction to the Action Memo in the Status paragraph, the second to the last line of second paragraph it reads PERS instead of TRS receiving 10.9171%.

MR. TRIVETTE stated that for the record, he believed that Colin England's report supports this conclusion, along with recommendation of the attorneys.

Roll call vote

Ayes: Erchinger, Galvin, Richards, Trivette, Williams, Harbo, Schubert

Nays: None. Commissioner Kreitzer and Martin Pihl absent.

#### **UNFINISHED BUSINESS**

There was no unfinished business.

#### **NEW BUSINESS**

There was no new business.

#### OTHER MATTERS TO PROPERLY COME BEFORE THE BOARD

There were no other matters to come before the Board.

#### PUBLIC/MEMBER COMMENTS

There was no one present or listening by telephone who wished to address the board.

#### **TRUSTEE COMMENTS**

MR. TRIVETTE requested clarification regarding the confidentiality of certain legal documents provided to the Board for review. MR. BARNHILL replied that the memos from Paul Weiss and

from Wohlforth Johnson should remain confidential, but the expert reports are now public information. MS. HARBO expressed her thanks to the Department of Law for keeping the faith and to Dan Levi for all their hard work. CHAIR SCHUBERT echoed those remarks. MR. BARNHILL replied that the Board has done great work, and they have appreciated the chance to work with the Board on this.

#### FUTURE AGENDA ITEMS

None

#### ADJOURNMENT

There being no objection and no further business to come before the board, the meeting was adjourned at 10:50 a.m. on August 16, 2010, on a motion made by MS. HARBO and seconded by MR. WILLIAMS.

## ALASKA RETIREMENT MANAGEMENT BOARD

SUBJECT:	PERS / TRS FY2010 Membership Statistics	ACTION:	
	QUARTERLY INFORMATION ONLY		
DATE:	December 2, 2010	INFORMATION:	<u> </u>

#### **BACKGROUND:**

Information related to PERS / TRS membership activity since the introduction of PERS Tier IV / TRS Tier III.

#### STATUS:

Quarterly membership information from July 1, 2010 to September 30, 2010:

#### **PERS Defined Benefit Plan:**

	<u>Returned</u>	With Indebtedness	Paid on Indebt	<b>Terminated</b>	Retired
Tier I	65	39	35	31	161
Tier II	61	15	15	81	74
Tier III	176	14	13	192	61

#### **TRS Defined Benefit Plan:**

	Returned	With Indebtedness	Paid on Indebt	<b>Terminated</b>	<u>Retired</u>
Tier I	16	4	2	(33)	35
Tier II	98	4	0	(85)	26

#### PERS Defined Contribution Plan:

<u>Tier IV</u> New members Converted members	<u>Enrolled</u> 1,184 0	<u>Terminated</u> 477 1	<u>Refunded</u> 345 2	Opted out of <u>Managed Accounts</u> 164
TRS Defined Contribution P	'lan:			
				Opted out of
<u>Tier III</u>	Enrolled	Terminated	Refunded	Managed Accounts
New members	730	(110)	89	45
Converted members	0	Ó	0	

#### AS 39.35.940 – Transfer into DCR Plan by nonvested members of DB Plan Employers participating in the conversion option: <u>4</u>

The State of Alaska for both PERS and TRS members, effective 7/1/06 through 6/30/07. Bering Straits School District for their TRS members, effective 1/1/07 through 12/31/07. Kake City School District for their PERS and TRS members, effective 2/1/07 through 1/31/08. City of Delta Junction for their PERS members, effective 4/1/07 through 3/31/08.

#### PERS / TRS DEFINED BENEFIT PLAN

Returned = Number of members returning to the Plan during the timeframe of this report With Indebtedness = Number of members who returned to the Plan with an indebtedness balance

(Indicates prior PERS or TRS service that was refunded and could be repaid) Paid on Indebtedness = Number of members who returned to Plan and have paid on their indebtedness balance

Terminated = Total members who terminated from the Plan during the timeframe of this report Retired = Total Plan members who retired during the timeframe of this report

#### PERS / TRS DEFINED CONTRIBUTION PLAN

Enrolled = Number of new members enrolled into Plan during the timeframe of this report Terminated = Number of members who terminated from Plan during the timeframe of this report Refunded = Number of members who refunded their contributions from Plan during the timeframe of this report

Opted out of Managed Accounts = Number of members who opted out of the Managed Accounts option at Great West and chose an alternate investment option

Converted members = Members who converted from the Defined Benefit Plan to the Defined Contribution Plan (From PERS Tier III to Tier IV and TRS Tier II to Tier III)

## ALASKA RETIREMENT MANAGEMENT BOARD

SUBJECT:	PERS / TRS Membership Statistics	ACTION:	
	CUMULATIVE Information		
DATE:	December 2, 2010	INFORMATION:	<u> </u>

#### **BACKGROUND**:

Information related to PERS / TRS membership activity since the introduction of PERS Tier IV / TRS Tier III.

#### STATUS:

Cumulative membership information from July 1, 2006 through September 30, 2010:

#### PERS Defined Benefit Plan:

	<u>Returned</u>	With Indebtedness	Paid on Indebt	<b>Terminated</b>	Retired
Tier I	1,894	1,578	615	911	2,797
Tier II	1,679	978	228	1,559	1,022
Tier III	3,747	1,208	164	6,472	509

#### **TRS Defined Benefit Plan:**

	<u>Returned</u>	With Indebtedness	Paid on Indebt	<b>Terminated</b>	Retired
Tier I	350	128	35	73	1,069
Tier II	1,376	252	31	1,219	322

#### **PERS Defined Contribution Plan:**

<u>Tier IV</u> New members Converted members	<u>Enrolled</u> 16,157 44	<u>Terminated</u> 5,885 30	<u>Refunded</u> 2,231 23	Opted out of <u>Managed Accounts</u> 1,697
TRS Defined Contribution P	'lan:			Opted out of
<u>Tier III</u> New members Converted members	<u>Enrolled</u> 4,274 13	<u>Terminated</u> 1,142 9	Refunded 395 4	Managed Accounts 327

#### AS 39.35.940 – Transfer into DCR Plan by nonvested members of DB Plan Employers participating in the conversion option: 4

The State of Alaska for both PERS and TRS members, effective 7/1/06 through 6/30/07. Bering Straits School District for their TRS members, effective 1/1/07 through 12/31/07. Kake City School District for their PERS and TRS members, effective 2/1/07 through 1/31/08. City of Delta Junction for their PERS members, effective 4/1/07 through 3/31/08.

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Paid on Indebtedness = Number of members who returned to Plan and have paid on their indebtedness balance

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Enrolled = Number of new members enrolled into Plan during the timeframe of this report Terminated = Number of members who terminated from Plan during the timeframe of this report Refunded = Number of members who refunded their contributions from Plan during the timeframe of this report

Opted out of Managed Accounts = Number of members who opted out of the Managed Accounts option at Great West and chose an alternate investment option

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## ALASKA RETIREMENT MANAGEMENT BOARD

SUBJECT:	Invoices & Summary of Billings -	ACTION:		
	Buck Consultants, a Xerox Company			
DATE:	December 2, 2010	INFORMATION:	X	
DATE.	December 2, 2010			

#### BACKGROUND:

AS 37.10.220(a)(8) prescribes that the Alaska Retirement Management Board (Board) "coordinate with the retirement system administrator to have an annual actuarial valuation of each retirement system prepared to determine system assets, accrued liabilities, and funding ratios and to certify to the appropriate budgetary authority of each employer in the system".

As part of the oversight process, the Board has requested that the Division of Retirement & Benefits (Division) provide monthly invoices to review billings and services provided.

#### **STATUS:**

Attached are monthly invoices to the Division for Fiscal Year 2011 for the months of July, August and September 2010.

Attached is the summary totals for the three months ended September 30, 2010.

#### Buck Consultants Billing Summary Through the Three Months Ended September 30, 2010

		PERS	TRS	JRS	NGNMRS	EPORS	AHF	RHF	TOTAL
Actuarial Valuations	\$	42,010	18,900	-	63	-	-	-	\$ 60,973
ARMB Presentations		9,186	4,984	-	-	-	-	-	14,170
State Employer Relief Breakout (FY12 & FY13)		1,262	1,084	878	-	-		-	3,224
Past Service Rate Projections		2,490	990	-	-	-	-	-	3,480
Projection of State Assistance		1,591	633	-	-	-	-	-	2,224
JRS Experience Analysis		-	-	6,344	-	-	-	-	6,344
Adjustment to JRS Rollforward		-	-	3,691	-	-	-	-	3,691
Analysis of State Assistance Rate		7,275	2,893	-	-	-	-	-	10,168
GASB 25 and 27 Preliminary View Discussion		308	123	3	13	-	-	-	447
UA Optional Retirement Plan Litigation Phone Call		481	190	-	-	-	-	-	671
Discussion on actuarial factor update		381	381	-	-	-	~	-	761
Estimating PERS/TRS Healthcare Trust contributions		383	383	-	-	-	-	-	765
Factors discussion - actuarial equivalence		3,612	1,436	-	-	-	-	-	5,048
Termination cost study questions		924		-	-	-	-	-	924
Audit Request		5,471	2,213	49	-	<u> </u>	230	27	7,990
TOTAL	<u>_</u> \$	75,373	34,209	10,965	76	<u></u>	230	27	\$ 120,880

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# **buckconsultants**

August 24, 2010

Mr. Teresa Kesey Chief Financial Officer State of Alaska PERS 333 Willoughby 6th Floor, State Office Building Juneau, AK 99811-0208

Actuarial Valuation and Consulting Contract Agency Contract Number 2006-0200-5759

Client #: 00019732 Invoice #: 2053224

Services rendered from July 1, 2010 through July 31, 2010 (see attached):

# A Xerox Company

REMIT BY CHECK TO: Buck Consultants, LLC Dept. CH 14061 Palatine, IL 60055-4061

BY WIRE TO: Buck Consultants, LLC The Bank of New York Mellon, NA A B A # 043000261 D D A # 0038720

EIN: 13-3954297

Terms: Payable upon receipt. Interest accrues after 30 days from the invoice date at 1% per month.

Direct Inquiries to: Judy Daszkiewicz - Finance Dept. Email: Judith.Daszkiewicz@acs-inc.com Phone: (201) 902-2842

<u>\$28,821.00</u>

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State of Alaska July 2010 invoice for Actuarial Services

		Services	July 2010 Expenses	Total		en interest	Fiscal Year to Date July 2010 - June 2011 Etumoroo		_
Regular Services Under Contract				1 2003			CALMINES	1001	
Work in process on 2010 actuarial valuations									
- PERS	÷	12,537 \$	9 0	12,537					
- TRS		5,190	D	5,190					
SEL-		0	0	0					
~ NGNMFS		0	D	0					
- EPORS		0	D	0					
Subtotal	\$	17,727 \$	- 0\$	17,727	<i></i>	17,727 \$	\$ 0		17,727
Non-Regular Services									
Discussion on actuarial factor update	ю	761 \$	9 0	761					
Estimating PERS/TRS HCT contributions		766		765					
State Relief breakout for FY12 and FY13, submitted July 1		1,262	0	1,262					
- PERS									
- TRS		1,084	0	1,084					
SaL-		878	Ċ	878					
JRS Experience Analysis, submitted July 21		6,344	Ð	634					
Subtotal	\$	11,094 \$	\$ 0	11,094	¢	11,094 \$	80		604
Grand Total	÷	28,821 \$	\$ 0	28,821	\$	28,821 \$	0		28,821

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 Div. of Ret. & Benefits

	July 2010	Fiscal Year-to-Date July 2010 - June 2011
Staff Member	Hours	Hours
- Aaron Jugaitis	1.00	1.00
Chris Hulla	2.50	2.50
Odin Wéin	48.00	48.00
David Sishinsky	18.50	18.50
Jan Singer	0.0	0.00
Karen Hanoock	3.25	3.25
Kathy Reochiuti	6.50	6.50
Kyla O'Rourke	26.00	26:00
Melissa Bissett	0.0	0.00
Michelle DeLange	16.25	16.25
Michelle Pritchard	29.25	29.25
Monica DeGraff	0.0	00.0
Tamny Ringel	0.00	00:0
- William Detweiler	0:00	00:0
	151.25	151.25

124.00 23.75 23.75 232.75 49.75 49.75 49.75 541.25 61.25 61.25 61.25 61.25 25.75 25.

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# buckconsultants

# A Xerox Company

**REMIT BY CHECK TO: Buck Consultants, LLC** Dept. CH 14061 Palatine, IL 60055-4061

BY WIRE TO: **Buck Consultants, LLC** The Bank of New York Mellon, NA A B A # 043000261 DDA#0038720

EIN: 13-3954297

Terms: Payable upon receipt. Interest accrues after 30 days from the invoice date at 1% per month.

Direct Inquiries to: Judy Daszkiewicz - Finance Dept. Email: Judith.Daszkiewicz@acs-inc.com Phone: (201) 902-2842

Services rendered from August 1, through August 31, 2010 (see attached):

#### <u>\$27,437.00</u>

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September 21, 2010

Mr. Teresa Kesey Chief Financial Officer State of Alaska PERS 333 Willoughby 6th Floor, State Office Building Juneau, AK 99811-0208

Actuarial Valuation and Consulting Contract Agency Contract Number 2006-0200-5759

Client #: 00019732 Invoice #: 2056055

		Services	August 2010 Expenses	Total		Service	Fiscal Year to Date July 2010 - June 2011 Evences	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
Regular Services Under Contract								1013
Work in process on 2010 actuarial valuations								
- PERS	ы	9,186 \$	\$ 0	9.186				
- TRS		4.984		4.984				
sal		0		 }				
- NGNMRS		0	0	) O				
- EPORS		D	0	0				
Subtotal	*	11120 \$	\$ V				والمحافظة والمحافظة والمتراوية والمحافظة والمحافظة والمحافظة والمحافظة والمحافظة والمحافظة والمحافظة والمحافظ	
				A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	÷	01,001 A	A D	31,897
Non-Regular Services								
Past service rate projections		3.480	0	3 480				
Factors discussion - actuarial equivalence		2,922	. 0	2.922				
Questions on termination cost study from Larry Semmons		924	٥	924				
Auditors letter to KPMG		3,717	0	3,717				
Projection of State Assistance		2,224	0	2,224				
Subtotal	\$	13,267 \$	\$ 0	13,267	69	24,361 \$	0 \$	24,361
Grand Total	¢	27,437 \$	နာ ဝ	27,437	ы	56.258 \$	0.5	56.258

State of Alaska August 2010 Invoice for Actuarial Services

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# **buck**consultants<sup>-</sup>

# A Xerox Company

Out her 21, 2010	REMIT BY CHECK TO: Buck Consultants, LLC Dept. CH 14061 Palatine, IL 60055-4061
October 21, 2010 Ms. Teresa Kesey	BY WIRE TO: Buck Consultants, LLC The Bank of New York Mellon, NA
Chief Financial Officer State of Alaska PERS	A B A # 043000261 D D A # 0038720 EIN: 13-3954297
333 Willoughby 6th Floor, State Office Building Juneau, AK 99811-0208	Terms: Payable upon receipt. Interest accrues after 30 days from the invoice date at 1% per month.
Actuarial Valuation and Consulting Contract Agency Contract Number 2006-0200-5759	Direct Inquiries to:
Client #: 00019732 Invoice #: 2058631	Judy Daszkiewicz - Finance Dept. Email: Judith.Daszkiewicz@acs-inc.com Phone: (201) 902-2842

Services rendered from September 1 through September 30, 2010 (see attached):

<u>\$64,622.00</u>

REVIEWED/VERIFIED OK TO PROCESS: INITIAL HERE:

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# Div. of Ret. & Benefits

September 2010 Invoice for Actuarial Services

Total         Services         J           29,473         29,473         Services         J           13,710         0         6         5         75,143         5           13,710         0         6         5         75,143         5         75,143         5           43,246         \$         \$         75,143         5         75,143         5         75,143         5         143         5         45,737							Fiscal Year to Date	
Services Under Contract         Services Under Contract         Services Under Contract         Services         Decression 2010 actuations         Services         Decression 2010 actuation         Decression 2010 actuation <thdecression 2010="" actuation<="" th=""> <thdecression< th=""><th></th><th></th><th>Services</th><th>September 2010 Expenses</th><th>Total</th><th> Samiroe</th><th>July 2010 - June 2011 Eveneme</th><th>F</th></thdecression<></thdecression>			Services	September 2010 Expenses	Total	 Samiroe	July 2010 - June 2011 Eveneme	F
process on Z010 actuarial valuations         5         29,473         5         0         5         29,473         5         29,473         5         29,473         5         29,473         5         29,473         5         29,473         5         29,473         5         29,473         5         29,473         5         29,473         5         29,473         5         29,473         5         75,143         5         75,143         5         75,143         5         75,143         5         75,143         5         75,143         5         75,143         5         0         5         75,143         5         0         5         75,143         5         0         5         75,143         5         0         5         75,143         5         0         5         75,143         5         0         5         75,143         5         0         5         75,143         5         0         5         75,143         5         0         5         75,143         5         0         5         75,143         5         0         5         75,143         5         0         5         75,143         5         0         5         15,156         0 <th< td=""><td>Regular Services Under Contract</td><td></td><td></td><td></td><td></td><td></td><td>CYDEIX</td><td>10(3)</td></th<>	Regular Services Under Contract						CYDEIX	10(3)
S     29,473     5     29,473     5     29,473       RS     0     0     13,710     0     13,710       RS     0     0     0     13,710     0       RS     0     0     0     13,710     0       RS     0     0     0     0     0       RS     0     0     13,710     0     0       Ular Services     0     4,3246     5     75,143     5     0       Jular Services     0     4,3246     5     75,143     5     0       Jular Services     0     4,1246     0     10,168     0     0       Is to USR oil Venderee     2,126     0     2,126     5     75,143     5     0       Is to IRS rol Ioward for actional contribution     2,126     0     2,126     5     75,143     5     0       Is to IRS rol Ioward for actional contribution     2,126     0     2,126     5     75,143     5     0       Is to IRS rol Ioward for actional contribution     2,126     0     2,126     5     75,143     5     0       Is to IRS rol Ioward for actional contribution     2,126     0     2,126     0     7,123     0       I	Work in process on 2010 actuarial valuations							
RS     13,710     0     13,710       0     0     0     0     0       0     0     0     0     0       0     0     0     0     0       0     0     0     0     0       0     0     0     0     0       0     0     0     43,740     \$     75,143       Jular Services     \$     43,246     \$     75,143     \$     0       on with DRB, David Teal and Mice Barnhill     \$     10,168     0     10,168     \$     0       on with DRS collocal contribution     2,126     0     \$     4,273     \$     0       ation taleptone call     2,126     0     2,126     \$     0     \$       ation taleptone call     2,126     0     4,77     \$     0       scussion     447     0     4,77     \$     0       tale     5     6,622     5     6,627     5     0	- 18-03 - 19-04 - 19-0	↔	29,473 \$		29.473			
Rs     0     0     0     0     0       Rs     0     0     0     0     0       Ular Services     \$     43246     \$     75,143     \$     0       Jular Services     \$     10,168     0     10,168     \$     5     75,143     \$     0       Isoussion - actuarial equivalence     \$     10,168     0     10,168     \$     \$     10,168       Isoussion - actuarial equivalence     \$     2,126     0     \$     4273       Isoussion - actuarial equivalence     \$     3,691     0     \$     4,273       Idente to KPMG     \$     \$     10,168     0     \$     4,273       ation telephone call     \$     \$     0     \$     \$     0       Idente to KPMG     \$     \$     0     \$     \$     0       ation telephone call     \$     \$     0     \$     \$     0       Idente to KPMG     \$     \$     0     \$     \$     0       ation telephone call     \$     \$     0     \$     \$     \$     0       ation telephone call     \$     \$     0     \$     \$     0     \$       \$     \$ </td <td>- TRS</td> <td></td> <td>13.710</td> <td></td> <td>042 61</td> <td></td> <td></td> <td></td>	- TRS		13.710		042 61			
Sc     0     63     0     63       Ular Services     5     43,246     5     75,143     5     0       Ular Services     5     43,246     5     75,143     5     0       Inder Services     5     43,246     5     75,143     5     0       Inder Services     5     10,168     0     10,168     0     2,126       Iscussion - actuarital equivalence     2,126     0     3,691     4,273       Iscussion - actuarital equivalence     2,126     0     4,273       Istic URS roll forward for actitional contribution     3,691     6,71     6,71       Istic uslephone call     4,273     0     4,273     0       Istic uslephone call     6,71     0     6,71     0       Istic uslephone call     5     13,76     5     4,573       Istic uslephone call     5     6,622     5     6,622     0       Ital     5     6,622     5     6,652     6     6	- JRS							
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jular Services     5     43,246     5     75,143     5     0.5       jular Services     5     43,246     5     75,143     5     0.5       ons with DRB, David Teal and Mke Barnhill     5     10,168     0     10,168     10,168       discussion - actuarial equivalence     2,126     0     2,126       ant to JRS roll forward for actitional contribution     3,691     0     3,73       letter to KPMG     4,273     0     4,73       ation telephone call     671     0     671       scussion     5     21,376     5     0,5	<u>िकिंग्लिन</u>	e						
\$       10,168       0       10,168         2,126       0       2,126         3,691       0       2,126         3,691       0       3,691         4,273       0       4,273         671       0       4,273         671       0       4,273         671       0       4,47         5       21,376       5         5       21,376       5       0,5         5       0,5       21,376       5       0,5         5       64,622       5       4,673       0,5		æ		. (	43,246	\$ ŧ	0	75.143
\$     10,168     0     10,168       2,126     0     2,126       3,691     0     2,126       3,691     0     3,691       3,691     0     3,691       671     0     4,273       671     0     671       671     0     671       671     0     671       5     21,376     5       5     21,376     5       5     64,622     5       6     6     5       6     5     64,622							And a first of the second s	
\$ 10,168     0     10,168       2,126     0     2,126       3,691     0     2,126       3,691     0     3,691       4,273     0     4,273       671     0     671       447     0     671       5     21,376     5     45,737       5     64,622     5     45,737     0	Non-Regular Services							
2,126     0     2,126       3,691     0     2,126       3,691     0     2,126       3,691     0     3,691       671     0     4,273       671     0     671       671     0     671       671     0     671       671     0     671       5     21,376     5     45,737       5     64,622     5     45,737     0,5	Discussions with DRB, David Teal and Mke Barnhill	67	10.168	c	10 160			
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\$ 64,622 \$ 0 \$ 64,622 \$ 120,880 \$ 0 \$	Subtotal	¢	21,376 \$	1	21,376	\$		AF 727
	Grand Total	⇔	64,622 \$	1	64,622	\$		120 RBU

Div. of Ret. & Benefits	-	
	-	Fiscal Year-to-Date
Staff Member	September 2010 Hours	July 2010 - June 2011 Hours
Aaron Jurgaitis	12.50	14,50
Becky Soderfelt	0.00	1.00
Chris Hulla	8.25	16.50
Colin Wein	71.00	123.75
David Slishinsky	28.00	64.00
Doug Fiddler	1.00	1.00
Karen Hancock	4.25	7.50
Kathy Recchiuti	1.25	7.75
Kyla O'Rourke	41.50	76.25
Melissa Bissett	0.00	5.25
Michelie DeLange	30.25	61.25
Michelle Pritchard	27.50	96.00
Monica DeGraff	0.00	1.00
William Detweiler	0.00	2.25
	225.50	

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# **CHIEF INVESTMENT OFFICER REPORT**

- Communication from Communication Workers of America.
- Communication from International Brotherhood of Teamsters.
- Transfer \$30 million from Cash to REIT's.
- Rebalance Retirement Health, Defined Contribution, and Pension Plans.
- Transfer from Intermediate Treasury Fund to MacKay Shields high yield.
- Rebalance Retirement Health, Defined Contribution, and Pension Plans.
- Transfer from Domestic Fixed Income to Emerging Market Income.
- Transfer from Domestic Fixed Income to International Fixed Income.
- Remove Crestline Investors from Watch List
- Place Mariner Investment Group on watch list for ownership changes.
- Possible grant of mineral lease rights on farmland property in Louisiana
- Increase fees on J.P. Morgan Strategic Property Fund 2bps.
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# Summary of letters from the Communications Workers of America and the International Brotherhood of Teamsters:

#### Deutsche Telekom, T-Mobile, and the Communication Workers of America

The ARMB has a private equity investment in Blackstone Capital Partners V. Blackstone has invested in Deutsche Telekom, the public parent of T-Mobile USA. The Communications Workers of America sent the ARMB a letter alleging that T-Mobile USA managers have been engaged in a "long-term effort to repress employee's efforts to organize a union". The Communications Workers of America has requested that the ARMB contact Deutsche Telekom's CEO regarding the concerns the Communications Workers of America has with T-Mobile USA. A copy of the materials provided to the ARMB by the Communications Workers of America is available.

#### International Brotherhood of Teamsters and KKR

The ARMB has a private equity investment in the KKR 2006 Fund. KKR has invested in U.S. Foodservice and Toys "R" Us. The International Brotherhood of Teamsters represents more than 4,000 U.S. Foodservice workers and alleges that "the company's systematic and unlawful labor rights violations threaten to escalate into widespread work stoppages in key markets." The Teamsters also want to make the ARMB aware of the dangers of toxic PVC that may be present in toys sold by Toys "R" Us. The Teamsters sent an open letter from a coalition of socially responsible investors urging the ARMB to not participate in the potential initial public offering of Toys "R" Us "unless the company commits to labeling toxic chemicals in toys and phasing out PVS toys." A copy of the materials provided to the ARMB by the Teamsters is available.

#### Alaska Retirement Management Board P.O. Box 110405 Juneau, Alaska 99811-0405

(907) 465-3749

October 12, 2010

Ms. Jennifer Healy State Street Corporation Lafayette Corporate Center 2 Avenue de Lafayette – 2<sup>nd</sup> Floor Boston, MA 02111-2900

Dear Ms. Healy:

The Alaska Retirement Management Board (ARMB) requests the following changes to be made on Tuesday, October 19, 2010 for the ARMB Defined Benefit Pension Plans, the ARMB Retirement Health Funds and the ARMB Defined Contribution Plans. Please use a pro-rata split between all the Pension Plans, Retirement Health Funds and Defined Contribution Plans.

Short Term Fixed Income (AY70) REIT Holdings (AY9H)

<\$30,000,000> \$30,000,000

If you have any questions please call our office at (907) 465-4399.

Sincerely,

Gary M. Back

Chief Investment Officer

cc: Gail Schubert, ARMB Chair Jerry Burnett, Deputy Commissioner Pam Leary, Comptroller James McKnight, State Compliance Officer Steve Sikes, State Investment Officer Bob Mitchell, State Investment Officer Charles Colton, State Investment Officer Elizabeth Walton, State Investment Officer

GMB/aes

#### Alaska Retirement Management Board P.O. Box 110405 Juneau, Alaska 99811-0405

(907) 465-3749

October 15, 2010

Ms. Jennifer Healy State Street Corporation Lafayette Corporate Center 2 Avenue de Lafayette – 2<sup>nd</sup> Floor Boston, MA 02111-2900

Dear Ms. Healy:

Please make the following pool level transactions on Wednesday, October 20, 2010 to bring PERS, TRS and JRS Retirement Health Plans allocations closer to target.

	AYW2 & AYW5	AYW3 & AYW6	AYW4 & AYW7
Domestic Equity - Lg Cap	-5,430,700	5,637,800	-207,100
Domestic Equity - Sm Cap	-1,377,500	1,430,100	-52,600
International Equities	-6,176,200	6,318,500	-142,300
International Small Cap	-2,648,600	2,617,100	31,500
Emerging Markets	-1,598,300	1,635,700	-37,400
AY77 - Dom. Fixed Inc.	-2,515,400	2,436,900	78,500
Intermediate Treasury	34,042,700	-34,509,800	467,100
International Fixed Income	-509,300	520,000	-10,700
High Yield	-316,800	343,800	-27,000
Emerging Market Debt	-138,500	145,400	-6,900
Real Estate	-1,695,100	1,761,900	-66,800
Farmland Pool A	927,500	-922,300	-5,200
Energy Pool A	-78,400	85,400	-7,000
Timber Pool A	-1,169,500	1,136,900	32,600
REIT Pool	-230,700	240,700	-10,000
TIPS	-2,572,900	2,495,500	77,400
Total Private Equity	-1,795,700	1,884,000	-88,300
Absolute Return	-989,000	1,036,000	-47,000
AY70 - Short Term Pool	-5,727,600	5,706,400	21,200
Total Asset Allocation	0	0	0

If you have any questions please call me (907) 465-4399.

Sincerely, Jang M. Book

Gary M. Bader Chief Investment Officer

cc: Gail Schubert, Chair ARMB Jerry Burnett, Deputy Commissioner Bob Mitchell, State Investment Officer Steve Sikes, State Investment Officer Ryan Bigelow, State Investment Officer Elizabeth Walton, State Investment Officer Pam Leary, Comptroller James McKnight, State Compliance Officer

#### Alaska Retirement Management Board P.O. Box 110405 Juneau, Alaska 99811-0405 (907) 465-3749

October 15, 2010

Ms. Jennifer Healy State Street Corporation Lafayette Corporate Center 2 Avenue de Lafayette – 2<sup>nd</sup> Floor Boston, MA 02111-2900

#### Dear Ms. Healy:

Please make the following pool level transactions on Wednesday, October 20, 2010, to bring PERS, TRS pension plans and the DC Plans allocations closer to target.

AY6G & AY6W		AYX2 & AYX4		AYY3 & AYY5	
Large Cap Pool	375,684	Large Cap Pool	(95,148)		(124,392)
Small Cap Pool	45,264	Small Cap Pool	(6,324)	• ·	(124,392) (8,306)
International Equity Pool	185,008	International Equity Pool	(170,199)		(219,614)
International Small Cap	(5,006)		(89,278)		(116,498)
Emerging Markets Equity	157,676	Emerging Markets Equity	79.940	Emerging Markets Equity	102,319
Private Equity	(574,803)		30,430	Private Equily	38,679
Domestic Fixed Income	(255,298)		(932,344)		(1,194,593)
Intermediate Treasury	319,701	Intermediale Treasury	1,133,025	Intermediate Treasury	1,452,338
High Yield Pool	79,173	High Yield Pool	68,581	High Yield Pool	87,787
Emarging Markets Debt Poo	60,257	Emerging Markets Debl Pool	12,618	Emerging Markets Debt Pool	16,086
International Fixed Income	37,132	International Fixed Incom	2,203	International Fixed Income	2,738
AK TIPS Pool	(436,151)	AK TIPS Pool	9,661	AK TIPS Pool	12,213
Energy Pool A	(102,197)	Energy Pool A	1,125	Energy Pool A	1,409
Farmland Pool A	75,747	Farmland Pool A	8,935	Farmland Pool A	11,379
REIT Pool A	(41,269)	RE!T Pool A	2,074	REIT Pool A	2,647
Timber Pool A	43,604	Timbar Pool A	6,292	Timber Pool A	8,022
AK Real Estate Pool	484,913	AK Real Eslate Pool	47,685	AK Reai Estate Pocl	60,679
Absolute Return	(309,838)	Absolute Return	(6,009)	Absolute Return	(7,980)
Cash	(139,597)	Cash	(103,267)	Cesh	(124,913)
AY6H & AY6X	-	AYY2 & AYY4	-	AY21 & AY94	· · · · · · · · · · · · · · · · · · ·
Large Cap Pool	(20,596)	Large Cap Pool	(214,049)	Laroe Cap Pool	05 400 00
Small Cap Pool	(20,550)	Smell Cap Pool	(214,049)	• • • •	95,138.00
International Equity Pool	(32,556)	International Equity Pool	(567,633)	Small Cap Pool International Equity	(12,899)
International Small Cap	(16,501)	International Small Cap	(332,137)	International Small Cap	630,317 425,728
Emerging Markets Equity	13,552	Emerging Markets Equity	342,344	Emerging Markels Equity Pool	
Private Equity	4,440	Private Equity	161.086	Private Equity	(516,274) 225,190
Domestic Fixed Income	(165,686)	Domestic Fixed Income	(3,646,188)	Domestic Fixed Income	4,688,020
Intermediate Treasury	199,825	Intermediate Treesury	4,506,058	Intermediate Treasury	(5,754,337)
High Yield Pool	11,920	High Yield Pool	280,186	High Yield	(394,831)
Emerging Markets Dabt Pool		Emerging Markets Debt Pool	61,321	Emerging Markets Debt Pool	(110,934)
International Fixed Incoma	120	International Fixed Income	20,590	International Fixed Income	(44,439)
AK TIPS Pool	1,280	AK TIPS Pool	57,036	AK TIPS Pool	244,226
Energy Pool A	156	Energy Pool A	6,254	Energy Pool A	64,504
Farmlend Pool A	1,372	Farmland Pool A	44,525	Fermland Pool A	(102,309)
REIT Pool A	327	REIT Pooi A	9,910	REIT Pool A	17,511
Timber Pool A	984	Timber Pool A	30,596	Timber Pool A	(64,768)
AK Real Estate Pool	7,180	AK Real Estate Pool	244,049	AK Real Estate Pool	(606,449)
Absolule Relurn	(1,752)	Absolute Return	6,629	Absolule Return	224,905
Cash	(4,499)	Cash	(1,004,013)	Cash	991,701
AY6I & AY6Y		AYX3 & AYX5		AY22 & AY95	
Larga Cap Pool	(7,976)	Large Cap Pool	(50,159)	Large Cap Pool	41,498.00
Small Cap Pool	(251)	Smell Cep Pool	(3,753)	Small Cap Pool	(5,626)
International Equity Pool	(21,061)	International Equity Pool	(79,182)	International Equity	274,920
International Small Cap	(12,169)	International Small Cap	(39,825)	International Small Cap	185,686
Emerging Markets Equity	12,668	Emerging Markets Equity	32,955	Emerging Markets Equity Pool	(225,180)
Private Equity	5,936	Private Equity	10,823	Private Equity	98,219
Domestic Fixad Income	(135,246)	Domestic Fixed Income	(403,404)	Domestic Fixed Income	2,044,739
Intermediale Treasury	166,986	Intermediate Treesury	486,230	Intermediate Treesury	(2,509,826)
High Yield Pool	10,383	High Yield Pcol	29,011	High Yield	(172,210)
Emerging Markets Debt Pool	2,265	Emerging Markets Debt Pool	4,797	Emerging Markets Debt Pool	(48,385)
International Fixed Income	751	International Fixed Income	287	international Fixed Income	(19,382)
AK TIPS Pool	2,103	AK TIPS Pool	3,110	AK TIPS Pool	106,522
Energy Pool A	233	Energy Pool A	382	Energy Pool A	28,134
Farmland Pool A	1,642	Farmland Pool A	3,332	Farmland Pool A	(44,623)
REIT Pool A	365	REIT Pool A	798	REIT Pool A	7,637
Timber Pool A	1,130	Timber Pool A	2,390	Timber Pool A	(28,250)
AK Real Estale Pocl	9,011	AK Raal Estate Pool	17,443	AK Real Estate Pool	(264,511)
Absolute Return	228	Absolute Return	(4,278)	Absolute Return	98,095
Cash	(36,998)	Cash	(10,957)	Cash .	432,543

If you have any questions please call me (907) 465-4399.

Sincerely, Jany M. Book

Gary M. Bader Chief Investment Officer

cc: Gail Schubert, Chair ARMB Jerry Burnett, Deputy Commissioner Bob Mitchell, State Investment Officer Steve Sikes, State Investment Officer Ryan Bigelow, State Investment Officer Elizabeth Walton, State Investment Officer Pam Leary, Comptroller James McKnight, State Compliance Officer October 15, 2010

Ms. Jennifer Healy State Street Corporation Lafayette Corporate Center 2 Avenue de Lafayette – 2<sup>nd</sup> Floor Boston, MA 02111-2900

Dear Ms. Healy:

Please make the following pool level transactions on Wednesday, October 20, 2010, to bring the Public Employees Retirement System, Teachers Retirement System and Judicial Retirement System pension plan allocations closer together.

	AY21/AY94	AY22/AY95	AY23/AY96
Domestic Equity - Lg Cap	-5,117,100	5,911,400	-794,300
Domestic Equity - Sm Cap	-1,296,700	1,491,000	-194,300
International Equities	-7,272,300	7,751,000	-478,700
International Small Cap	-2,645,700	2,568,500	77,200
Emerging Markets	-1,759,900	1,885,600	-125,700
AY77 - Dom. Fixed Inc.	-5,952,000	5,407,400	544,600
Intermediate Treasury	42,062,600	-43,297,800	1,235,200
International Fixed Income	-572,400	606,600	-34,200
High Yield	-14,200	136,800	-122,600
Emerging Market Debt	-107,400	135,300	-27,900
Real Estate	-695,500	715,500	-20,000
Real Estate Pool B	-1,250,700	1,476,100	-225,400
Farmland Pool A	-35,900	64,500	-28,600
Energy Pool A	-198,100	237,300	-39,200
Timber Pool A	-2,033,800	1,852,400	181,400
REIT Pool	-4,521,200	4,099,400	421,800
TIPS	-842,500	1,079,300	-236,800
Total Private Equity	-1,419,200	1,770,500	-351,300
Absolute Return	-799,000	986,700	-187,700
AY70 - Short Term Pool	-5,529,000	5,122,500	406,500
Total Asset Allocation	0	0	0

If you have any questions please call me (907) 465-4399.

Sincerely, Van M. Bash Gary M. Bader

Chief Investment Officer

Gail Schubert, Chair ARMB cc: Jerry Burnett, Deputy Commissioner Bob Mitchell, State Investment Officer Steve Sikes, State Investment Officer Ryan Bigelow, State Investment Officer Elizabeth Walton, State Investment Officer Pam Leary, Comptroller James McKnight, State Compliance Officer

### Alaska Retirement Management Board

P.O. Box 110405 Juneau, Alaska 99811-0405 (907) 465-3749

October 15, 2010

Ms. Jennifer Healy State Street Corporation Lafayette Corporate Center 2 Avenue de Lafayette – 2<sup>nd</sup> Floor Boston, MA 02111-2900

Dear Ms. Healy:

Please make the following pool level transactions on Wednesday, October 20, 2010, to bring PERS, TRS and JRS pension plans and health retirement plans closer to target.

PERS Retirement Health	AYW2 & AYW5	PERS Pension	AY21 & AY94
Large Cap Pool	10,426,200.00	Large Cap Pool	(10,426,200.00)
Small Cap Pool	2,859,200.00	Small Cap Pool	(2,859,200.00)
International Equity Pool	10,362,400.00	International Equity Pool	(10,362,400.00)
International Small Cap	(15,356,200.00)	International Small Cap	15,356,200.00
Emerging Markets Equity	2,198,500.00	Emerging Markets Equity	(2,198,500.00)
Private Equity	4,188,600.00	Private Equity	(4,188,600.00)
Domestic Fixed Income	11,367,200.00	Domestic Fixed Income	(11,367,200.00)
Intermediate Treasury	(40,313,300.00)	Intermediate Treasury	40,313,300.00
International Fixed Income	720,000.00	International Fixed Income	(720,000.00)
Emerging Markets Debt	264,200.00	Emerging Markets Debt	(264,200.00)
High Yield Pool	265,500.00	High Yield Pool	(265,500.00)
Real Estate Pool	2,668,600.00	Reai Estate Pool	(2,668,600.00)
Energy Pool A	292,200.00	Energy Pool A	(292,200.00)
Farmland Pool A	789,600.00	Farmland Pool A	(789,600.00)
REIT Pool A	(1,559,200.00)	REIT Pool A	1,559,200.00
Timber Pool A	160,900.00	Timber Pool A	(160,900.00)
TIPS Pool	1,607,300.00	TIPS Pool	(1,607,300.00)
Absolute Return	2,275,200.00	Absolute Return	(2,275,200.00)
Cash	6,783,100.00	Cash	(6,783,100.00)
<b>TRS Retirement Health</b>	AYW3 & AYW6	TRS Pension	AY22 & AY95
Large Cap Pool	3,388,800.00	Large Cap Pool	(3,388,800.00)
Small Cap Pool	942,000.00	Small Cap Pool	(942,000.00)
Internetional Equity Pool	3,528,400.00	International Equity Pool	(3,528,400.00)
International Small Cap	(3,329,500.00)	International Small Cap	3,329,500.00
Emerging Markets Equity	710,900.00	Emerging Markets Equity	(710,900.00)
Private Equity	1,370,700.00	Private Equity	(1,370,700.00)
Domestic Fixed Income	4,159,900.00	Domestic Fixed Income	(4,159,900.00)
Intermediate Treesury	(15,597,600.00)	Intermediate Treasury	15,597,600.00
International Fixed Income	232,600.00	International Fixed Income	(232,600.00)
Emerging Markets Debt	86,200.00	Emerging Markets Debt	(86,200.00)
High Yield Pool	57,700.00	High Yield Pool	(57,700.00)
Real Estate Pool	1,047,700.00	Real Estate Pool	(1,047,700.00)
Energy Pcol A	180,500.00	Energy Pool A	(180,500.00)
Farmland Pool A	1,398,200.00	Farmland Pool A	(1,398,200.00)
REIT Pool A	1,351,600.00	REIT Pool A	(1,351,600.00)
Timber Pool A	86,200.00	Timber Pool A	(86,200.00)
TIPS Pool	(1,051,100.00)	TIPS Pool	1,051,100.00
Absolute Return	743,300.00	Absolute Return	(743,300.00)
Cash	693,500.00	Cesh	(693,500.00)
<b>JRS Retirement Heaith</b>	AYW4 & AYW7	JRS Pension	AY23 & AY96
Large Cap Pool	51,400.00	Large Cep Pool	(51,400.00)
Smell Cap Pool	14,500.00	Small Cap Pool	(14,500.00)
International Equity Pool	52,800.00	International Equity Pool	(52,800.00)
International Small Cap	(56,700.00)	International Smali Cap	56,700.00
Emerging Markets Equity	12,300.00	Emerging Markels Equity	(12,300.00)
Private Equity	20,000.00	Private Equity	(20,000.00)
Domestic Fixed Income	60,200.00	Domestic Fixed Income	(60,200.00)
Intermediate Treesury	(235,100.00)	Intermediate Treasury	235,100.00
International Fixed Income	3,800.00	International Fixed Income	(3,800.00)
Emerging Markets Debt	1,500.00	Emerging Markets Debt	(1,500.00)
High Yield Pool	1,500.00	High Yield Pool	(1,500.00)
Real Estate Pool Farmiand Pool A	16,900.00	Real Estata Pool	(16,900.00)
REIT Pool A	(500.00) 74,900.00	Farmiand Pool A REIT Pool A	500.00
Timber Pool A	(100.00)	Timber Pool A	(74,900.00)
TIPS Pool	(100,000)	TIPS Pool	100.00 100,100.00
Absolute Return	10,700.00	Absolute Return	(10,700.00)
Cash	72,000.00	Cash	(72,000.00)
	,500.00		(, 2,000.00)

If you have any questions please call me (907) 465-4399.

Sinçerely, Sincerely, Varym. Bader

Gary M. Bader Chief Investment Officer

cc: Gail Schubert, Chair ARMB Jerry Burnett, Deputy Commissioner Bob Mitchell, State Investment Officer Steve Sikes, State Investment Officer Ryan Bigelow, State Investment Officer Elizabeth Walton, State Investment Officer Pam Leary, Comptroller James McKnight, State Compliance Officer

#### Alaska Retirement Management Board P.O. Box 110405 Juneau, Alaska 99811-0405 (907) 465-3749

October 18, 2010

Ms. Jennifer Healy State Street Corporation Lafayette Corporate Center 2 Avenue de Lafayette – 2<sup>nd</sup> Floor Boston, MA 02111-2900

Dear Ms. Healy:

The Alaska Retirement Management Board (ARMB) requests the following changes to be made on Monday, October 25, 2010 for the ARMB Defined Benefit Pension Plans (AY21-AY23), the ARMB Retirement Health Funds (AYW2-AYW4) and the ARMB Defined Contribution Plans (AY6G-AY6I, AYX2-AYX3, AYY2-AYY3). Please use a pro-rata split between all the Pension Plans, Retirement Health Funds and Defined Contribution Plans.

U.S. Intermediate Treasury Fund (AY1A) MacKay Shields (AY9P) <\$60,000,000> 60,000,000

If you have any questions please call our office at (907) 465-4399.

Sincerely, Jany M. Bash

Gary M. Bader Chief Investment Officer

cc: Gail Schubert, ARMB Chair Jerry Burnett, Deputy Commissioner Pam Leary, Comptroller James McKnight, State Compliance Officer Ryan Bigelow, State Investment Officer Bob Mitchell, State Investment Officer Charles Colton, State Investment Officer Elizabeth Walton, State Investment Officer

GMB/aes

## Alaska Retirement Management Board

P.O. Box 110405 Juneau, Alaska 99811-0405 (907) 465-3749

October 26, 2010

Ms. Jennifer Healy State Street Corporation Lafayette Corporate Center 2 Avenue de Lafayette – 2<sup>nd</sup> Floor Boston, MA 02111-2900

#### Dear Ms. Healy:

Please make the following pool level transactions on Wednesday, October 27, 2010, to bring PERS, TRS pension plans and the DC Plans allocations closer to target.

AY6G & AY6W		AYX2 & AYX4		AYY3 & AYY5	
Large Cap Pool	(18,732)	Large Cap Pool	(62,444)		(49,638)
Small Cap Pool	(608)		(3,435)		(836)
Internetional Equity Pool	(61,727)	International Equity Pool	(159,834)		(186,221)
International Small Cap	(36,417)	International Small Cap	(89,360)		(114,117)
Emerging Markets Equity	21.275	Emerging Markets Equity	48,204	Emerging Markets Equity	68,058
Private Equity	21,526	Private Equity	47,534	Privata Equity	69,285
Domestic Fixed Income	-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Domastic Fixed Income	11,001	Domestic Fixed Income	00,200
Intermediete Treesury	94,216	Intermediate Treesury	219,420	Intermediate Treasury	298,141
High Yield Pool	29,380	High Yield Pool	69.792	High Yield Pool	91,834
Emerging Markels Debt Pool	6,197	Emerging Merkets Debt Pool	13,685	Emerging Markats Dabt Pool	19,976
International Fixed Income	2,452	International Fixed Income	4,620	International Fixed Income	8.350
AK TIPS Pool	6,410	AK TIPS Pool	13,416	AK TIPS Pool	.,
Energy Pool A	705	Energy Pool A	1,511	Energy Pool A	21,044
Farmland Pool A	3,639	Farmland Pool A	-		2,280
REIT Pool A	(19,829)	REIT Pool A	7,761	Fermland Pool A REIT Pool A	11,865
Timber Pool A			(39,248)		(79,259)
AK Reel Estate Pool	3,693	Timber Pool A	8,282	Timber Pool A	11,831
	25,623	AK Real Estate Pool	55,722	AK Reel Estate Pool	82,748
Absolute Ratum	2,275	Absoluta Return	2,234	Absolute Return	8,816
Cash	(80,078)	Cash	(137,860)	Cash	(264,157)
AY6H & AY6X		AYY2 & AYY4		AY21 & AY94	14
Large Cap Pool	(13,209)	Larga Cap Pool	(37,091)	Large Cap Pool	150,050.00
Small Cap Pool	(848)	Smell Cap Pool	10,404	Small Cap Pool	(2,017)
International Equity Pool	(29,750)	International Equity Pool	(496,874)	International Equity	714,189
International Small Cap	(16,401)	International Small Cap	(328,601)	Internetional Small Cap	443,241
Emerging Markets Equity	8,233	Emerging Markets Equity	227,366	Emerging Markets Equity Pool	(279,467)
Private Equity	7,889	Private Equity	241,404	Private Equity	(289,351)
Domestic Fixed Income	.,	Domestic Fixed Income	211,101	Domastic Fixed Income	(200,007)
Intermediate Treasury	38,266	Intermediate Treasury	957,573	Intermediete Treasury	(1,208,377)
High Yield Pool	12,251	High Yield Pool	288,743	High Yield	(370,755)
Emerging Markets Debt Pool	2,286	Emerging Markets Debt Pool	69,251	Emerging Markets Debt Pool	(83,170)
International Fixed Income	673	Internetional Fixed Income	33,825	Internetional Fixed Income	(36,715)
AK TIPS Pool	2,139	AK TIPS Pool	77,763	AK TIPS Pool	(89,647)
Energy Poct A	243	Energy Pool A	8,326	Energy Pool A	(9,719)
Farmland Pool A	1,259	Farmland Pool A	43,014	Farmland Pool A	(50,226)
REIT Pool A	(6.821)	REIT Pool A	(268,112)	REIT Pool A	306,742
Timber Pool A	1,397	Timber Pool A	40,265	Timber Pool A	
AK Real Estate Pool	9,138	AK Real Estate Pool	294,334	AK Real Estate Pool	(48,967)
Absolute Return	3,130	Absolute Raturn	48,427	Absolute Return	(348,443)
Cash	(16,749)	Cash	(1,210,017)	Cash	(44,140) 1,246,772_
				0000	- 1,240,112
AY6I & AY6Y		AYX3 & AYX5		AY22 & AY95	
Larga Cap Pool	(2,185)	Lerge Cap Pool	(32,195)	Large Cap Pool	65,444.00
Small Cap Pool	289	Small Cap Pool	(2,069)	Small Cap Pool	(880)
Internetional Equity Pool	(18,908)	International Equity Pool	(72,377)	International Equity	311,502
Internetionel Small Cap	(12,093)	Internetional Small Cap	(39,577)	International Small Cap	193,325
Emerging Merkets Equity	8,246	Emerging Markets Equity	19,978	Emerging Markets Equity Pool	(121,893)
Private Equity	8,711	Private Equity	19,206	Private Equity	(126,204)
Domestic Fixed Income		Domestic Fixed Income		Domestic Fixed Income	
Intermediate Treasury	34,976	Intermediate Treesury	92,834	Intermediate Treesury	(527,049)
High Yield Pool	10,645	High Yield Pool	29,820	High Yield	(161,710)
Emerging Markets Debt Pool	2,500	Emerging Markets Debt Pool	5,550	Emerging Markets Debt Pool	(36,275)
International Fixed Income	1,184	Internetional Fixed Income	1,624	International Fixed Income	(16,013)
AK TIPS Pool	2,777	AK TIPS Pool	5,198	AK TIPS Pool	(39,100)
Energy Pool A	301	Energy Pool A	592	Energy Pool A	(4,239)
Farmland Pool A	1,543	Farmland Pool A	3.052	Fermland Pool A	(21,907)
REIT Pool A		REIT Pool A	(16,581)	REIT Pool A	133,790
Timber Pool A	1,459	Timber Pool A	3,397	Timber Pool A	(21,357)
AK Real Estate Pool	10,618	AK Real Estate Pool	22,238	AK Real Estate Pool	(151,978)
Absolute Return	1,636	Absolute Return	,	Absolute Return	(19,252)
Cash	(41,017)	Cash	(40,690)	Cash	<u>543,796</u>
-	-		- (40,000)		0101100
-			· · · · · · · · · · · · · · · · · · ·		

If you have any questions please call me (907) 465-4399.

Sincerely, Man M. Bash Gary M. Bader

Chief Investment Officer

Gail Schubert, Chair ARMB cc: Jerry Burnett, Deputy Commissioner Bob Mitchell, Manager of Fixed Income Investments Steve Sikes, Manager of Real Assets Investments Ryan Bigelow, Manager of Public Equity and DC Investments Elizabeth Walton, Investment Officer Fixed Income Pam Leary, State Comptroller James McKnight, Senior Investment Compliance Officer

## Alaska Retirement Management Board

P.O. Box 110405 Juneau, Alaska 99811-0405 (907) 465-3749

October 26, 2010

Ms. Jennifer Healy State Street Corporation Lafayette Corporate Center 2 Avenue de Lafayette – 2<sup>nd</sup> Floor Boston, MA 02111-2900

Dear Ms. Healy:

Please make the following pool level transactions on Wednesday, October 27, 2010, to bring PERS, TRS and JRS pension plans and health retirement plans closer to target.

pension plans an			
PERS Retirement Health		PERS Pension	AY21 & AY94
Lerge Cep Pool	8,047,500.00	Larga Cap Pool	(8,047,500.00)
Small Cap Pcol	2,307,800.00	Small Cap Pool	(2,307,800.00)
International Equity Pool	8,873,700.00	International Equity Pool	(8,873,700.00)
Internationel Smell Cap	(8,811,500.00)	International Small Cap	8,811,500.00
Emerging Markets Equity	1,860,000.00	Emerging Markets Equity	(1,860,000.00)
Private Equity	3,240,200.00	Private Equity	(3,240,200.00)
Domestic Fixed Income	11,100,500.00	Domestic Fixed Income	(11,100,500.00)
Intermediate Treasury	(41,586,500.00)	Intermediate Treasury	41,586,500.00
International Fixed Income	561,300.00	International Fixed Income	(561,300.00)
Emerging Markets Debt	302,100.00	Emerging Markets Debt	(302,100.00)
High Yield Pool Real Estate Pool	7,300.00	High Yield Pool	(7,300.00)
Energy Pool A	2,816,000.00	Real Estate Pool	(2,816,000.00)
Famland Pool A	(317,100.00) 477,300.00	Energy Pool A	317,100.00
REIT Pool A	1,369,100.00	Farmland Pool A REIT Pool A	(477,300.00) (1,369,100.00)
Timber Pool A	354,300.00	Timber Pool A	(354,300.00)
TIPS Pool	(290,900.00)	TIPS Pool	290,900.00
Absolute Return	1,756,500.00	Absolute Return	(1,756,500.00)
Cash	7,932,400.00	Cash	(7,932,400.00)
Cash	7,552,400.00	Cash	(7,932,400.00)
TRS Retirement Health	AYW3 & AYW6	TRS Pension	AY22 & AY95
Large Cap Pool	3,080,000.00	Large Cap Pool	(3,080,000.00)
Small Cap Pool	884,400.00	Small Cap Pool	(884,400.00)
International Equity Pool	3,383,100.00	International Equity Pool	(3,383,100.00)
International Small Cap	(3,387,300.00)	International Small Cap	3,387,300.00
Emerging Markets Equity	719,500.00	Emerging Merkets Equity	(719,500.00)
Privete Equity	1,248,700.00	Privete Equity	(1,248,700.00)
Domestic Fixed Income	4,137,600.00	Domestic Fixed Income	(4,137,600.00)
Intermediate Treasury	(15,790,200.00)	Intermediate Treesury	15,790,200.00
International Fixed Income	216,000.00	International Fixed Income	(216,000.00)
Emerging Markets Dabt	(42,700.00)	Emerging Markets Debt	42,700.00
High Yield Pool	172,200.00	High Yield Pool	(172,200.00)
Real Estate Pool	1,087,500.00	Real Estate Pool	(1,087,500.00)
Energy Pool A	815,800.00	Energy Pool A	(815,800.00)
Farmlend Pool A	1,108,500.00	Farmland Pool A	(1,108,500.00)
REIT Pool A	517,200.00	REIT Pool A	(517,200.00)
Timber Pool A	137,000.00	Timber Pool A	(137,000.00)
TIPS Pool	(109,300.00)	TIPS Pool	109,300.00
Absolute Return	674,100.00	Absolute Return	(674,100.00)
Cash	1,147,900.00	Cash	(1,147,900.00)
<b>JRS Retirement Health</b>	AYW4 & AYW7	JRS Pension	AY23 & AY96
Lerge Cap Pool	48,400.00	Large Cap Pool	(48,400.00)
Small Cap Pool	14,000.00	Small Cap Pool	(14,000.00)
International Equity Pool	51,900.00	International Equity Pool	(51,900.00)
International Small Cep	(54,600.00)	International Small Cap	54,600.00
Emerging Markets Equity	12,000.00	Emerging Markets Equity	(12,000.00)
Private Equity	20,400.00	Private Equity	(20,400.00)
Domestic Fixed Income	54,500.00	Domestic Fixed Income	(54,500.00)
Intermediate Treasury	(236,200.00)	Intermediate Treasury	236,200.00
International Fixed Incoma	3,500.00	International Fixed Income	(3,500.00)
Emerging Markets Debt	18,700.00	Emerging Markets Debt	(18,700.00)
High Yield Pool	(15,600.00)	High Yield Pool	15,600.00
Real Estate Pool	18,000.00	Real Estate Pool	(18,000.00)
Energy Pool A	200.00	Energy Pool A	(200.00)
Fermland Pool A	(29,600.00)	Farmland Pool A	29,600.00
REIT Pool A	7,500.00	REIT Pool A	(7,500.00)
Timber Pool A	2,300.00	Timber Pool A	(2,300.00)
TIPS Pool	(1,500.00)	TIPS Pool	1,500.00
Absolute Return	10,800.00	Absolute Return	(10,800.00)
Cesh	75,300.00	Cash	(75,300.00)
	-		

If you have any questions please call me (907) 465-4399.

Gary M. Bader Chief Inter Sincerely,

**Chief Investment Officer** 

Gail Schubert, Chair ARMB cc: Jerry Burnett, Deputy Commissioner Bob Mitchell, Manager of Fixed Income Investments Steve Sikes, Manager of Rea Assets Investments Ryan Bigelow, Manager of Public Equity and DC Investments Elizabeth Walton, Investment Officer Fixed Income Pam Leary, State Comptroller James McKnight, Senior Investment Compliance Officer

#### Alaska Retirement Management Board

P.O. Box 110405 Juneau, Alaska 99811-0405 (907) 465-3749

October 26, 2010

Ms. Jennifer Healy State Street Corporation Lafayette Corporate Center 2 Avenue de Lafayette – 2<sup>nd</sup> Floor Boston, MA 02111-2900

Dear Ms. Healy:

Please make the following pool level transactions on Wednesday, October 27, 2010 to bring PERS, TRS and JRS Retirement Health Plans allocations closer to target.

	AYW2 & AYW5	AYW3 & AYW6	AYW4 & AYW7
Domestic Equity - Lg Cap	-5,290,600	5,496,100	-205,500
Domestic Equity - Sm Cap	-1,335,300	1,387,700	-52,400
International Equities	-6,099,000	6,241,100	-142,100
International Small Cap	-2,670,100	2,638,000	32,100
Emerging Markets	-1,777,300	1,816,900	-39,600
AY77 - Dom. Fixed Inc.	-2,489,200	2,410,300	78,900
Intermediate Treasury	34,149,900	-34,618,200	468,300
International Fixed Income	-497,000	507,600	-10,600
High Yield	-135,100	142,100	-7,000
Emerging Market Debt	-301,700	329,000	-27,300
Real Estate	-1,591,200	1,658,900	-67,700
Farmland Pool A	-73,800	80,800	-7,000
Energy Pool A	987,800	-982,600	-5,200
Timber Pool A	-220,600	230,500	-9,900
REIT Pool	-2,176,300	2,141,000	35,300
TIPS	-2,580,800	2,502,700	78,100
Total Private Equity	-1,672,100	1,759,300	-87,200
Absolute Return	-935,900	982,700	-46,800
AY70 - Short Term Pool	-5,291,700	5,276,100	15,600
Total Asset Allocation	0	0	0

If you have any questions please call me (907) 465-4399.

Sincerely, any m. Bach

Gary M. Bader Chief Investment Officer

cc: Gail Schubert, Chair ARMB Jerry Burnett, Deputy Commissioner Bob Mitchell, Manager of Fixed Income Investments Steve Sikes, Manager of Real Assets Investments Ryan Bigelow, Manager of Public Equity and DC Investments Elizabeth Walton, Investment Officer Fixed Income Pam Leary, State Comptroller James McKnight, Senior Investment Compliance Officer

## Alaska Retirement Management Board

P.O. Box 110405 Juneau, Alaska 99811-0405 (907) 465-3749

October 25, 2010

Ms. Jennifer Healy State Street Corporation Lafayette Corporate Center 2 Avenue de Lafayette – 2<sup>nd</sup> Floor Boston, MA 02111-2900

Dear Ms. Healy:

.

Please accept this revised letter, which supersedes the previous letter sent for this transaction on October 25, 2010.

The Alaska Retirement Management Board (ARMB) requests the following changes to be made on **Thursday, October 28, 2010**:

AK Retirement Fixed Income (AY77)	<\$20,000,000>
Lazard Emerging Income (AY5M)	\$20,000,000

This transaction applies to the ARMB Defined Benefit Pension Plans (AY21-23; AY94-96), the ARMB Retirement Health Funds (AYW2-AYW4, AYW5-AYW7) and the ARMB Defined Contribution Plans (AY6G-AY6I, AY6W-AY6Y, AYX2-AYX3, AYX4-AYX5, AYY2-AYY3, AYY4-AYY5). Please use a pro-rata split between all the Pension Plans, Retirement Health Funds and Defined Contribution Plans.

Additionally, please wire the funds to Lazard in accordance with the following wire instructions:

USD Bank of Ireland, Dublin Swift Address BOFIIE2D For Further Credit to: Lazard Emerging Income LTD A/C# 49656 020 Correspondent Bank: Bank of New York, New York ABA # 021 000 018 A/C # 8033174765

If you have any questions please call our office at (907) 465-4399.

Sincerely,

Inny Wi Books

Gary M. Bader Chief Investment Officer

cc: Gail Schubert, ARMB Chair Jerry Burnett, Deputy Commissioner Pam Leary, State Comptroller James McKnight, Senior Investment Compliance Officer Ryan Bigelow, Manager of Public Equity & DC Investments Bob Mitchell, Manager of Fixed Income Investments Charles Colton, Investment Officer Fixed Income Elizabeth Walton, Investment Officer Fixed Income

GMB/aes

Alaska Retirement Management Board P.O. Box 110405 Juneau, Alaska 99811-0405 (907) 465-3749

October 27, 2010

Ms. Jennifer Healy State Street Corporation Lafayette Corporate Center 2 Avenue de Lafayette – 2<sup>nd</sup> Floor Boston, MA 02111-2900

Dear Ms. Healy:

The Alaska Retirement Management Board (ARMB) requests the following changes to be made on **Thursday, November 4, 2010**.

Domestic Fixed Income (AY77) Mondrian Investment Partners (AY63) <\$60,000,000> 60,000,000

These changes apply to the ARMB Defined Benefit Pension Plans (AY21-AY23), the ARMB Retirement Health Funds (AYW2-AYW4) and the ARMB Defined Contribution Plans (AY6G-AY6I, AYX2-AYX3, AYY2-AYY3).Please use a pro-rata split between all funds.

If you have any questions please call our office at (907) 465-4399.

Sincerely,

Jany M. Bader

Gary M. Bader Chief Investment Officer

cc: Gail Schubert, ARMB Chair Jerry Burnett, Deputy Commissioner Pam Leary, State Comptroller James McKnight, Senior Investment Compliance Officer Ryan Bigelow, Manager of Public Equity and DC Investments Bob Mitchell, Manager of Fixed Income Investments Charles Colton, Investment Officer Fixed Income Elizabeth Walton, Investment Officer Fixed Income

## Alaska Retirement Management Board Manager Watch List - December 2010

Manager & Mandate	Reason for Watch	Board Approved	Actions Taken by Staff/Expected Final Disposition
Coventry Real Estate	Performance	Yes 4/23/2009	Formal Notification. Continue Monitoring
Crestline Investors	Acquisition/Personnel	Yes 12/1/2009	Formal Notification, Staff monitoring
ING Investment Partners High Yield	Ownership Change	Yes 4/25/08	Formal Notification, Staff Monitoring 18 months
Lehman Real Estate	Performance	Yes 4/23/2009	Formal Notification Continue Monitoring
Mariner Investment Absolute Return	Performance	Yes 4/25/08	Formal Notification - Staff Monitoring/ 12/18 Months
McKinley Capital Int'l & large cap	Performance	Yes 12/4/09	Formal Notification - Staff Monitoring 12-18 months
REIT Fund	Performance	Yes 4/25/08	Continued Monitoring - 12/18 months
Relational Investors	Performance	Yes 6/12/08	Formal Notification - staff monitoring

# **ALASKA RETIREMENT MANAGEMENT BOARD**

# **FINANCIAL REPORT**

As of September 30, 2010

#### ALASKA RETIREMENT MANAGEMENT BOARD Schedule of Investment Income and Changes in Invested Assets by Fund For the three Months Ending September 30, 2010

	Beginning Invested Net Contribut Assets Investment Income <sup>(1)</sup> (Withdrawa		Net Contributions (Withdrawals)	Ending Invested Assets	% Change in Invested Assets	% Change due to Investment Income <sup>(2)</sup>
Public Employees' Retirement System (PERS)			((()))	Ending Invested Assets	Assets	Income
Defined Benefit Plans:						
Retirement Trust §	5,382,478,973 \$	414,281,423 \$	(72,838,571) \$	5,723,921,825	6.34%	7.75%
Retirement Health Care Trust	3,833,176,873	307,584,051	344,975,903	4,485,736,827	17.02%	7.68%
Total Defined Benefit Plans	9,215,655,846	721,865,474	272,137,332	10,209,658,652	10.79%	7.72%
Defined Contribution Plans:						
Participant Directed Retirement	96,173,414	10,957,596	10,284,290	117,415,300	22.09%	10.82%
Health Reimbursement Arrangement	30,144,861	2,478,726	3,386,739	36,010,326	19.46%	7.79%
Retiree Medical Plan	7,853,893	640,749	626,124	9,120,766	16.13%	7.85%
Defined Benefit Occupational Death and Disability:	· <b>, ,</b>	••••,•••	020,121	7,120,700	10.1576	1.0370
Public Employees	3,242,936	264,879	273,471	3,781,286	16.60%	7.84%
Police and Firefighters	1,107,713	91,073	135,181	1,333,967	20.43%	7.75%
Total Defined Contribution Plans	138,522,817	14,433,023	14,705,805	167,661,645	21.04%	9.89%
Total PERS	9,354,178,663	736,298,497	286,843,137	10,377,320,297	10.94%	9.89% 7,75%
<u>Teachers' Retirement System (TRS)</u> Defined Benefit Plans:						
Retirement Trust	2,714,697,061	208,683,324	(80,735,839)	2,842,644,546	4.71%	7.80%
Retirement Health Care Trust	1,268,139,257	98,903,926	23,331,700	1,390,374,883	9.64%	7.73%
Total Defined Benefit Plans	3,982,836,318	307,587,250	(57,404,139)	4,233,019,429	6.28%	7.78%
Defined Contribution Plans:						
Participant Directed Retirement	45,347,535	4,996,306	831,310	51,175,151	12.85%	10.92%
Health Reimbursement Arrangement	10,387,897	832,515	453,167	11,673,579	12.38%	7.84%
Retiree Medical Plan	3,502,267	280,306	141,287	3,923,860	12.04%	7.85%
Defined Benefit Occupational Death and Disability	1,448,887	115,896	48,314	1,613,097	11.33%	7.87%
Total Defined Contribution Plans	60,686,586	6,225,023	1,474,078	68,385,687	12.69%	10.13%
Total TRS	4,043,522,904	313,812,273	(55,930,061)	4,301,405,116	6.38%	7.81%
Judicial Retirement System (JRS)						
Defined Benefit Plan Retirement Trust	95,058,020	7,350,188	(1,286,623)	101,121,585	6,38%	7.79%
Defined Benefit Retirement Health Care Trust	16,979,122	1,316,479	(14,741)	18,280,860	7.67%	7.76%
Total JRS	112,037,142	8,666,667	(1,301,364)	119,402,445	6.57%	7.78%
National Guard/Naval Militia Retirement System (MRS) Defined Benefit Plan Retirement Trust	29,496,764	1,950,820	623,113			
		1,950,620	025,115	32,070,697	8.73%	6.54%
Other Participant Directed Plans Supplemental Annuity Plan	2,189,938,833	144,413,848	4,227,229	2,338,579,910	6.79%	6.59%
Deferred Compensation Plan	502,804,941	35,237,823	2,059,838	540,102,602	7.42%	6.99%
Total All Funds	16,231,979,247 \$					

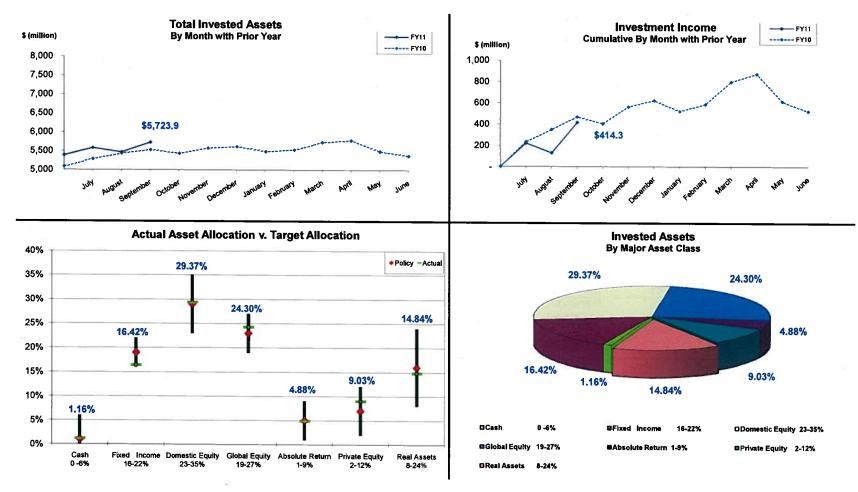
(voice):
 (1) Inclues interest, dividends, securities lending, expenses, realized and unrealized gains/losses
 (2) Income divided by beginning assets plus half of net contributions/(withdrawals)

#### ALASKA RETIREMENT MANAGEMENT BOARD Schedule of Investment Income and Changes in Invested Assets by Fund For the Month Ended September 30, 2010

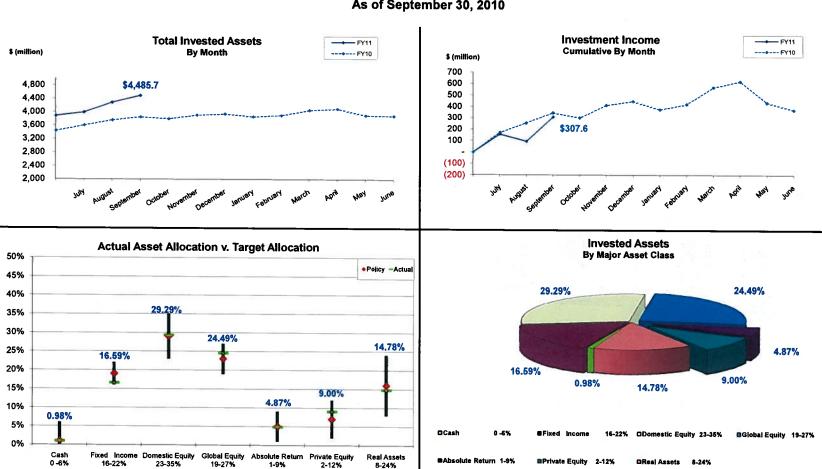
	Beginning Invested Assets	Investment Income <sup>(1)</sup>	Net Contributions (Withdrawals)	Ending Invested Assets	% Change in Invested Assets	% Change due to Investment Income <sup>(2)</sup>
Public Employees' Retirement System (PERS)			(	100000		Income
Defined Benefit Plans:						
Retirement Trust	\$ 5,461,067,558	\$ 285,330,573 \$	(22,476,306) \$	5,723,921,825	4.59%	5.24%
Retirement Health Care Trust	4,278,890,879	214,439,028	(7,593,080)	4,485,736,827	4.61%	5.02%
Total Defined Benefit Plans	9,739,958,437	499,769,601	(30,069,386)	10,209,658,652	4.60%	5.14%
Defined Contribution Plans						
Participant Directed Retirement	105,040,189	8,321,294	4,053,817	117,415,300	10.54%	7.77%
Health Reimbursement Arrangement	33,025,245	1,699,122	1,285,959	36,010,326	8.29%	5.05%
Retiree Medical Plan	8,484,961	437,595	198,210	9,120,766	6.97%	5.10%
Defined Benefit Occupational Death and Disability:	-, -,	,		,,120,700	0.7770	5.1070
Public Employees	3,500,249	180,845	100,192	3,781,286	7.43%	5.09%
Police and Firefighters	1,227,408	62,618	43,941	1,333,967	7.99%	5.01%
Total Defined Contribution Plans	151,278,052	10,701,474	5,682,119	167,661,645	9.77%	6.94%
Total PERS	9,891,236,489	510,471,075	(24,387,267)	10,377,320,297	4.68%	5.17%
<u>Teachers' Retirement System (TRS)</u> Defined Benefit Plans:			8. 1.			
Retirement Trust	2,725,785,933	143,461,345	(26,602,732)	2,842,644,546	4 1 10/	6 2004
Retirement Health Care Trust	1,330,601,325	68,383,419	(8,609,861)	2,842,044,546	4.11% 4.30%	5.29%
Total Defined Benefit Plans	4,056,387,258	211,844,764	(35,212,593)	4,233,019,429	4,30% 4,17%	5.16% 5.25%
Defined Contribution Plans:	1,050,507,250		(33,212,393)	4,233,019,429	4.1770	5.23%
Participant Directed Retirement	46,910,755	2 680 684	674 810	c	0.000/	
Health Reimbursement Arrangement	10,935,043	3,689,584	574,812	51,175,151	8.33%	7.82%
Retiree Medical Plan	3,694,005	566,137 190,778	172,399	11,673,579	6.33%	5.14%
Defined Benefit Occupational Death and Disability	1,518,315	78,695	39,077	3,923,860	5.86%	5.14%
Total Defined Contribution Plans	63,058,118	4,525,194	16,087	1,613,097	5.88%	5.16%
Total TRS	4,119,445,376	216,369,958	<u> </u>	<u>68,385,687</u> 4,301,405,116	7.79% 4.23%	7.13%
	4,17,145,070	210,307,730	(34,410,210)	4,301,403,110	4.23%	5.27%
Judicial Retirement System (JRS)						
Defined Benefit Plan Retirement Trust	96,441,677	5,082,427	(402,519)	101,121,585	4.63%	5.28%
Defined Benefit Retirement Health Care Trust	17,382,406	907,901	(9,447)	18,280,860	4.91%	5.22%
Total JRS	113,824,083	5,990,328	(411,966)	119,402,445	4.67%	5.27%
<u>National Guard/Naval Militia Retirement System (MRS)</u>						
Defined Benefit Plan Retirement Trust	30,990,163	1,204,774	(124,240)	32,070,697	3.37%	3.90%
Other Participant Directed Plans						
Supplemental Annuity Plan	2,241,276,180	93,734,135	3,569,595	2,338,579,910	4.16%	4.18%
Deferred Compensation Plan	515,441,412	24,971,279	(310,089)	540,102,602	4.57%	4.85%
Total All Funds S	§ I6,912,213,703_5	<u> </u>	(56,074,185) \$	17,708,881,067	4.50%	5.05%

Notes: (1) Includes interest, dividends, securities lending, expenses, realized and unrealized gains/losses (2) Income divided by beginning assets plus half of net contributions/(withdrawals)

### PUBLIC EMPLOYEES' RETIREMENT TRUST FUND As of September 30, 2010

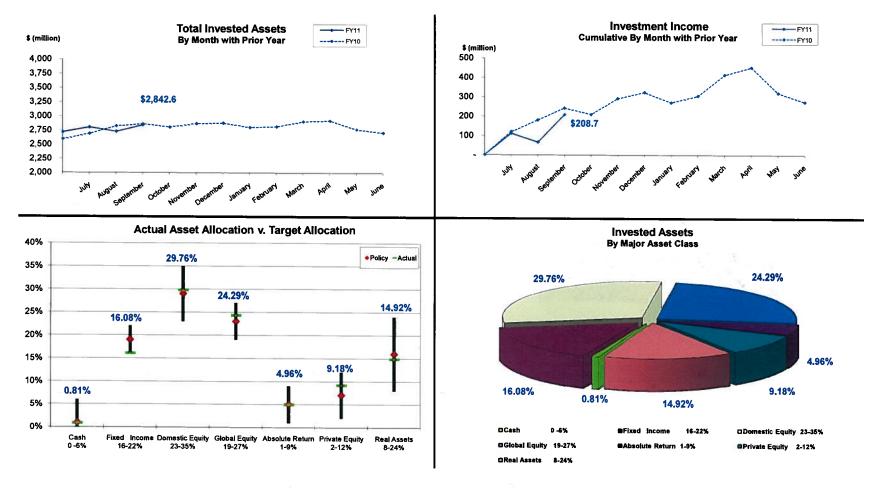


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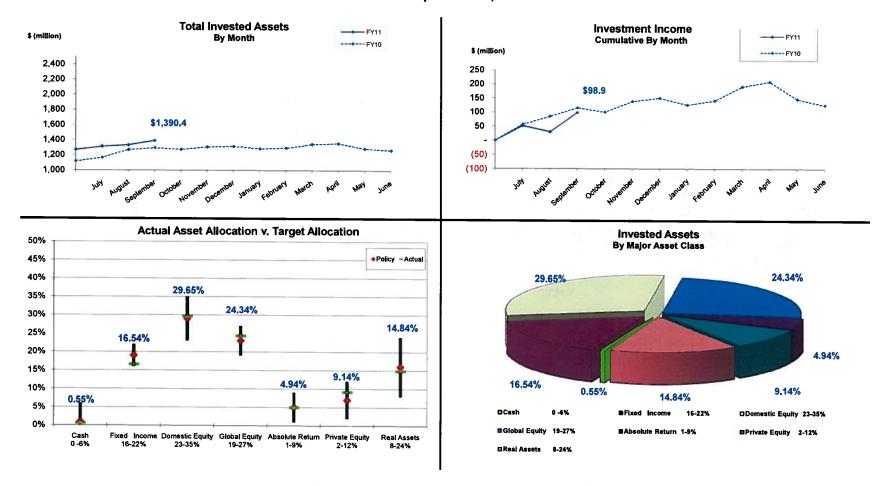
### PUBLIC EMPLOYEES' RETIREE HEALTH CARE TRUST FUND As of September 30, 2010

### TEACHERS' RETIREMENT TRUST FUND As of September 30, 2010

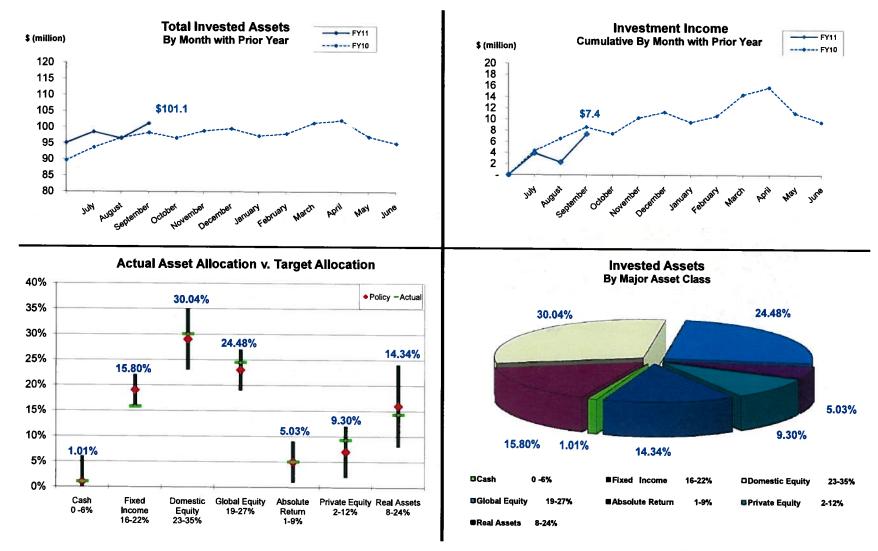


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TEACHERS' RETIREE HEALTH CARE TRUST FUND As of September 30, 2010



## JUDICIAL RETIREMENT TRUST FUND As of September 30, 2010



As of September 30, 2010 **Total Invested Assets Investment Income** \$ (million) By Month **Cumulative By Month** \$ (miliion) ---- FY10 20.0 ---- FY10 5 19.5 19.0 4 \$18.3 18.5 3 18.0 \$1.3 17.5 2 17.0 16.5 1 16.0 15.5 15.0 July August corentae october Deserter Jenner Februer Herri Port Way June August September Occoper November Jenuer Jenuer March JUNY June Actual Asset Allocation v. Target Allocation **Invested Assets** 40% By Major Asset Class 29.94% Policy – Actual 35% 29.94% 24.58% 30% 24.58% 14.28% 25% 16.06% 20% 15% 5.01% 9.26% 5.01% 10% 0.87% 9.26% 16.06% 14.28% 0.87% 5% 0% Cash 0 -6% Fixed Income 16-22% Domestic Equity 23-35% Global Equity 19-27% Cash Fixed Domestic Absolute Private Equity Real Assets Global Equity 19-27% 0-6% Absolute Return 1-9% Private Equity 2-12% income Equity Return 2-12% 8-24%

JUDICIAL RETIREE HEALTH CARE TRUST FUND

Real Assets

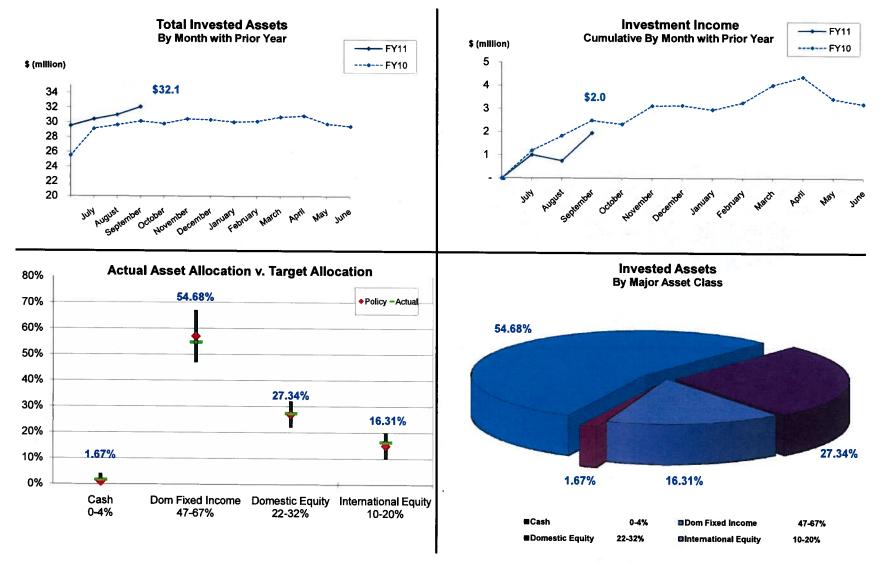
8-24%

16-22%

23-35%

1-9%

### MILITARY RETIREMENT TRUST FUND As of September 30, 2010



## ALASKA RETIREMENT MANAGEMENT BOARD Reporting of Funds by Manager

All Non-Participant Directed Plans

.

AY Cash			Beginning Invested Assets		Total Investment Income		Net Contributions (Withdrawals) & Transfers In (Out)		Ending Invested Assets	% increase (decrease)	
70	Short-Term Fixed Income Pool	s	295,403,554	\$	77,178	\$	(151,506,198)	\$	143,974,534	-51.26%	
	Total Cash	_	295,403,554		77,178		(151,506,198)		143,974,534	-51.26%	
	Fixed Income										
IA	US Treasury Fixed Income	<u> </u>	1,324,399,249		3,161,975		(77,938,289)		1,249,622,935	-5.65%	
77	Internal Fixed Income Investment Pool	<u></u>	679,067,463		950,708		(185,000,000)		495,018,171	-27.10%	
	International Fixed Income Pool										
63	Mondrian Investment Partners		243,722,304		8,381,520				252,103,824	3.44%	
	High Yield Pool										
9N	Rogge Global Partners Inc		165,246,291		4,123,352		(30,000,000)		139,369,643	-15.66%	
9P	MacKay Shields, LLC		174,968,510		2,236,427		-		177,204,937	1.28%	
	Total High Yield		340,214,801		6,359,779		(30,000,000)		316,574,580	-6.95%	
	Emerging Debt Pool										
5M	Lazard Emerging Income		103,597,350		1,567,593		_		105,164,943	1.51%	
	Total Fixed Income (cont.)		2,691,001,167		20,421,575		(292,938,289)		2,418,484,453	-10.13%	

		Beginning Invested Assets	Total Investment Income	Net Contributions (Withdrawals) & Transfers In (Out)	Ending Invested Assets	% increase (decrease)
1	Domestic Equities					(00010000)
	Small Cap Pool					
	Passively Managed					
4N	SSgA Russell 2000 Growth	76,652,110	10,818,744	-	87,470,854	14.11%
4P	SSgA Russell 2000 Value	367,295,581	39,300,709	-	406,596,290	10.70%
	Total Passive	443,947,691	50,119,453		494,067,144	11.29%
	Actively Managed					11.2770
4D	Turner Investment Partners	-	· -	-	-	
4F	Luther King Capital Management	87,251,935	11,399,837	-	98,651,772	13.07%
4G	Jennison Associates, LLC	114,928,028	13,862,506	-	128,790,534	12.06%
6A	SSgA Futures Small Cap	3,556,686	927,973	-	4,484,659	26.09%
4H	Lord Abbett & Co.	127,790,135	15,745,398	-	143,535,533	12.32%
	Total Active	333,526,784	41,935,714	-	375,462,498	12.57%
	Total Small Cap	777,474,475	92,055,167	-	869,529,642	11.84%
	Large Cap Pool					
	Passively Managed					
4L	SSgA Russell 1000 Growth	407,879,111	43,360,036	_	451,239,147	10.63%
4M	SSgA Russell 1000 Value	966,594,300	74,827,514	_	1,041,421,814	7.74%
4R	SSgA Russell 200	303,063,461	25,995,915		329,059,376	8.58%
	Total Passive	1,677,536,872	144,183,465		1,821,720,337	8.59%
	Actively Managed					0.3770
39	Cap Guardian Trust Co	10,107	_	-	10,107	0.00%
47	Lazard Freres	275,525,828	25,532,930	-	301,058,758	9.27%
48	McKinley Capital Mgmt.	313,740,025	32,420,975	_	346,161,000	10.33%
4U	Barrow, Haney, Mewhinney & Strauss	110,256,687	10,589,758	-	120,846,445	9.60%
4V	Quantitative Management Assoc.	108,510,190	9,472,531	-	117,982,721	8.73%
38	RCM	340,690,182	38,755,013	-	379,445,195	11.38%
6B	SSgA Futures large cap	3,986,286	1,371,382	5 <u>1</u> 5	5,357,668	34.40%
4J	Relational Investors, LLC	260,795,521	18,855,112	4,000,000	283,650,633	8.76%
	Total Active	1,413,514,826	136,997,701	4,000,000	1,554,512,527	9.97%
	Total Large Cap	3,091,051,698	281,181,166	4,000,000	3,376,232,864	9.23%
	(cont.)					2.22 /0

(cont.)

		Beginning Invested Assets	Total Investment Income	Net Contributions (Withdrawals) & Transfers In (Out)	Ending Invested Assets	% increase (decrease)
	Convertible Bond Pool				A33013	(ucciease)
52	Advent Capital	54,947,748	2,230,102	15,000,000	72,177,850	31.36%
	Total Convertible Bond Pool	54,947,748	2,230,102	15,000,000	72,177,850	31.36%
	Total Domestic Equity	3,923,473,921	375,466,435	19,000,000	4,317,940,356	10.05%
G	lobal Equities Ex US					
•	Small Cap Pool					
5B	Mondrian Investment Partners	_	1,741,266	100,000,000	101,741,266	100.000/
5D	Schroder Investment Management		5,955,034	100,000,000	, ,	100.00%
	Total Small Cap		7,696,300	200,000,000	105,955,034 207,696,300	100.00% 100.00%
	Large Cap Pool					
65	Brandes Investment Partners	769,916,543	(0.301.(1/			
58	Lazard Freres	, , .	68,201,616 28,000,000	-	838,118,159	8.86%
67	Cap Guardian Trust Co	302,456,599	28,000,006	90,000,000	420,456,605	39.01%
68	State Street Global Advisors	517,487,408	50,606,963	-	568,094,371	9.78%
6D	SSgA Futures International	253,121,467	25,519,964	-	278,641,431	10.08%
69		118,439	34	-	118,473	0.03%
09	McKinley Capital Management	297,863,355	32,994,568		330,857,923	11.08%
	Total Large Cap	2,140,963,811	205,323,151	90,000,000	2,436,286,962	13.79%
	Emerging Markets Equity Pool A <sup>(1)</sup>					
6P	Lazard Asset Management	260,396,039	29,923,139	-	290,319,178	11.49%
6Q	Eaton Vance	191,149,248	19,759,563	-	210,908,811	10.34%
62	The Capital Group Inc.	384,454,742	40,001,071	_	424,455,813	10.40%
	<b>Total Emerging Markets Pool A</b>	836,000,029	89,683,773		925,683,802	10.73%
	Total Global Equities	2,976,963,840	302,703,224	290,000,000	3,569,667,064	19.91%
P	rivate Equity Pool					
7Z	Merit Capital Partners			1,469,388	1 4/0 200	
98	Pathway Capital Management LLC	601,938,311	5,304,395	1,469,388	1,469,388	100.00%
85	Abbott Capital	637,644,479	(8,761,101)	, ,	615,882,575	2.32%
8A	Blum Capital Partners-Strategic	22,569,104		(3,026,726)	625,856,652	-1.85%
8P	Lexington Partners	3,519,571	(5)	(2,530,747)	20,038,352	-11.21%
8Q	Onex Partnership III	1,131,424	(7)	7,622,570	11,142,134	216.58%
8W	Warburg Pincus X	1,151,424	(4) 7	4,909,205	6,040,625	433.90%
8X	Angelo, Gordon & Co.	28,595,190	/	600,000	15,261,447	4.09%
	Total Private Equity	1,310,059,519	(3,456,715)	17,683,559	28,595,190	0.00%
	(cont.)	1,010,037,017	(3,430,/15)	1/,083,359	1,324,286,363	1.09%

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		Beginning Invested Assets	Total Investment Income	Net Contributions (Withdrawals) & Transfers In (Out)	Ending Invested Assets	% increase (decrease)
	Absolute Return Pool <sup>(2)</sup>					
8M	Global Asset Management (USA) Inc.	99,964,100	682,267	15,000,000	115,646,367	15.69%
8N	Prisma Capital Partners	74,730,000	510,074	41,000,000	116,240,074	55.55%
9D	Mariner Investment Group, Inc.	239,602,018	210,202	-	239,812,220	0.09%
9E	Cadogan Management LLC	16,028,213	(63,237)	(3,600,000)	12,364,976	-22.85%
9F	Crestline Investors, Inc.	232,349,651	544,251		232,893,902	0.23%
	Total Absolute Return Investments	662,673,982	1,883,557	52,400,000	716,957,539	8.19%
	Real Assets					
	Farmland Pool A					
9B	UBS Agrivest, LLC	314,002,291	(45)	225,360	314,227,606	0.07%
9G	Hancock Agricultural Investment Group	165,220,327	1,822,363	510,000	167,552,690	1.41%
	Total Farmland Pool A	479,222,618	1,822,318	735,360	481,780,296	0.53%
						0.3376
	Farmland Water Pool					
8Y	Hancock Water PPTY	6,756,797	85,373	-	6,842,170	1.26%
8Z	UBS Argivest, LLC	17,080,377	(5)	(1,100,000)	15,980,372	-6.44%
	Total Farmland Water Pool	23,837,174	85,368	(1,100,000)	22,822,542	-4.26%
	Timber Pool A					
9Q	Timberland INVT Resource LLC	111,949,665	-	_	111,949,665	0.00%
9S	Hancock Natural Resourse Group	47,004,432	(252,126)	(370,000)	46,382,306	-1.32%
	Total Timber Pool A	158,954,097	(252,126)	(370,000)	158,331,971	-0.39%
9A	Energy Pool A					
9A 9Z	TCW Energy Fund XD	21,592,649	130,154	-	21,722,803	0.60%
92	TCW Energy Fund XIV-A	62,275,233	419,281	2,500,000	65,194,514	4.69%
	Total Energy Pool A	83,867,882	549,435	2,500,000	86,917,317	3.64%
	REIT Pool					
9H	REIT Holdings	106,216,489	4,759,484		110,975,973	4.48%
	Treasury Inflation Proof Securities					
6N	TIPS Internally Managed Account	181,957,842	1,173,016		183,130,858	0.64%
	(cont.)					

			Beginning Invested Assets	I	Total nvestment Income	(W	t Contributions (thdrawals) & (nsfers In (Out)	Ending Invested Assets	% increase (decrease)
	Real Estate							 	(40010400)
	Core Commingled Accounts								
7A	JP Morgan		149,803,231		3,021,483		-	152,824,714	2.02%
7B	UBS Trumbull Property Fund		63,157,725		-		-	63,157,725	0.00%
	Total Core Commingled		212,960,956	-	3,021,483			 215,982,439	1.42%
	Core Separate Accounts						;;	 	1.42 /0
7D	Cornerstone Real Estate Advisers Inc.		149,043,479		(32)		(379,862)	148,663,585	-0.25%
7E	LaSalle Investment Management		162,792,339		3,506,693		(511,131)	165,787,901	1.84%
7F	Sentinel Separate Account		90,991,001		(9)		(366,703)	90,624,289	-0.40%
7G	UBS Realty		213,786,393		6,452,662		(1,497,629)	218,741,426	2.32%
	Total Core Separate		616,613,212		9,959,314		(2,755,325)	 623,817,201	1.17%
	Non-Core Commingled Accounts		2					 <u> </u>	
7J	Lowe Hospitality Partners		1,813,104		1,491,440		-	3,304,544	82.26%
7N	ING Clarion Development Ventures II		17,655,777		-		-	17,655,777	0.00%
7P	Lehman Brothers Real Estate Partners II		74,743,833		314,475		<u> </u>	75,058,308	0.42%
7Q	Rothschild Five Arrows Realty Securities IV		46,760,862		-		-	46,760,862	0.00%
7R	Tishman Speyer Real Estate Venture VI		34,938,924		2,233,975		-	37,172,899	6.39%
7X	Tishman Speyer Real Estate Venture VII		3,504,897		4		(452,482)	3,052,419	-12.91%
7S	Rothschild Five Arrows Realty SecuritiesV		6,948,893		3		402,166	7,351,062	5.79%
7V	ING Clarion Development Ventures III		9,327,648		(170,006)		-	9,157,642	-1.82%
7W	Lehman Brothers Real estate Partners III		9,828,675		(343,423)		-	9,485,252	-3.49%
8R	BlackRock Diamond Property Fund		16,976,387		907,683		-	17,884,070	5.35%
8S	Colony Investors VIII, L.P.		24,864,900		(623,450)		_	24,241,450	-2.51%
8U	LaSalle Medical Office Fund II		15,242,584		-		_	15,242,584	0.00%
8V	Cornerstone Apartment Venture III		17,732,430		1,010		2,438,889	20,172,329	13.76%
	Total Non-Core Commingled		280,338,914		3,811,711		2,388,573	 286,539,198	2.21%
	Total Real Estate		1,109,913,082		16,792,508		(366,752)	 1,126,338,838	1.48%
	Total Real Assets		2,143,969,184		24,930,003		1,398,608	 2,170,297,795	1.23%
	Totals	\$	14,003,545,167	s	722,025,257	s	(63,962,320)	\$ 14,661,608,104	4.70%
Notes		-	.,,,		,,,,,,,,,,,,,	<u> </u>	(00,702,020)	 14,001,000,104	7./0/0

Notes

(1) Investment is represented by shares in (or as a percentage of) commingled equity investments which, at any given time, may be a combination of securities and cash.

(2) Investment is represented by shares in various hedge funds.

# ALASKA RETIREMENT MANAGEMENT BOARD

**Participant Directed Plans** 

#### Supplemental Annuity Plan Schedule of Investment Income and Changes in Invested Assets for the Month Ended September 30, 2010

Interim Transit Account	Beginning Invested Assets	Investment Income	Net Contributions (Withdrawals)	Transfers in (out)	Ending Invested Assets
Treasury Division <sup>(1)</sup>					
Cash and Cash Equivalents	\$7,237,242	\$687	\$326,701	\$	\$ 7,564,630
Participant Options (2)					
T. Rowe Price					
Stable Value Fund	286,961,810	862,642	157,101	4,421,180	292,402,733
Small-Cap Stock Fund	50,507,954	6,090,262	220,217	(46,650)	56,771,783
Alaska Balanced Fund	1,009,445,575	33,596,865	(1,417,278)	(691,456)	1,040,933,706
Long Term Balanced Fund	257,592,685	14,743,230	3,074,301	(43,850)	275,366,366
Target 2010 Fund	29,817,656	73,326	(105,537)	(850,388)	28,935,057
AK Target Date 2010 Trust	2,495,134	142,208	10,988	587,241	3,235,571
AK Target Date 2015 Trust	74,720,457	4,489,398	111,519	531,928	79,853,302
AK Target Date 2020 Trust	25,727,658	1,742,091	151,845	414,223	28,035,817
AK Target Date 2025 Trust	11,052,610	823,479	126,348	149,289	12,151,726
AK Target Date 2030 Trust	2,138,373	173,819	116,820	9,429	2,438,441
AK Target Date 2035 Trust	2,776,246	237,728	109,558	(10,690)	3,112,842
AK Target Date 2040 Trust	2,362,542	205,223	158,548	28,346	
AK Target Date 2045 Trust	1,414,954	126,642	163,946	123,406	2,754,659 1,828,948
AK Target Date 2050 Trust	1,370,560	120,890	183,997	(1,014)	1,674,433
AK Target Date 2055 Trust	846,562	78,377	92,928	10,266	1,074,433
	1,759,230,776	63,506,180	3,155,301	4,631,260	
State Street Global Advisors		05,500,100	5,155,501	4,031,200	1,830,523,517
State Street Treasury Money Market Fund - Inst.	13,812,204	356	(788,879)	902,400	13,926,081
S&P 500 Stock Index Fund Series A	191,346,663	16,961,724	342,547	(3,177,521)	
Russell 3000 Index	6,272,442	595,979	49,164	(3,177,321) 27,711	205,473,413
US Real Estate Investment Trust Index	17,660,940	763,969	89,435	264,711	6,945,296
World Equity Ex-US Index	9,288,717	904,409	36,883		18,779,055
Long US Treasury Bond Index	15,913,718	(310,316)		(87,946)	10,142,063
US Treasury Inflation Protected Securities Index	13,787,942	(510,510) 79,034	,	(2,459,990)	13,156,910
World Government Bond Ex-US Index	3,696,617	,	22,753	140,008	14,029,737
Global Balanced Fund	47,446,172	131,262	13,630	81,170	3,922,679
	319,225,415	2,903,178	25,440 (195,529)	(184,946) (4,494,403)	<u>50,189,844</u> 336,565,078
			(150,525)	(4,424,405)	
Barclays Global Advisors					
Government Bond Fund	49,120,971	134,840	106,487	814,789	50,177,087
Intermediate Bond Fund	14,659,685	37,882	(66,489)	(240,171)	14,390,907
	63,780,656	172,722	39,998	574,618	64,567,994
Brandes Institutional					
International Equity Fund Fee	69,080,998	5 800 375	395.450	(100	
RCM	09,000,998	5,829,375	275,458	(470,705)	74,715,126
Sustainable Opportunities Fund	22,721,093	3 105 576	(22.2/2)	(240.244)	<b>0</b> / / / 0
Total Externally Managed Funds	2,234,038,938	2,195,576	(32,363)	(240,741)	24,643,565
	2,234,030,938	93,733,448	3,242,865	29	2,331,015,280
Total All Funds	\$2,241,276,180	\$ 93,734,135	\$ 3,569,566	\$29	\$ 2,338,579,910

#### Notes:

(1) Represents net contributions in transit to/from the record keeper

(2) Source data provided by the record keeper, Great West Life.

#### 

	July	_	August	September
Invested Assets (At Fair Value)				
Investments with Treasury Division				
Cash and cash equivalents	\$ 8,600	\$	7,237 \$	7,565
Investments with T. Rowe Price				
Stable Value Fund	283,711		286,962	292,402
Small-Cap Stock Fund	56,604		50,508	56,772
Alaska Balanced Fund	1,021,978		1,009,446	1,040,934
Long Term Balanced Fund	260,317		257,593	275,366
Target 2010 Fund	29,828		29,818	28,935
AK Target Date 2010 Trust	2,391		2,495	3,236
AK Target Date 2015 Trust	76,971		74,720	79,853
AK Target Date 2020 Trust	26,587		25,728	28,036
AK Target Date 2025 Trust	11,206		11,053	12,152
AK Target Date 2030 Trust	2,157		2,138	2,438
AK Target Date 2035 Trust	2,754		2,776	3,113
AK Target Date 2040 Trust	2,430		2,363	2,755
AK Target Date 2045 Trust	1,291		1,415	1,829
AK Target Date 2050 Trust	1,264		1,371	1,674
AK Target Date 2055 Trust	627		847	1,028
Investments with State Street Global Advisors				
State Street Treasury Money Market Fund - Inst.	14,076		13,812	13,926
S&P 500 Stock Index Fund Series A	200,659		191,347	205,473
Russell 3000 Index	6,703		6,272	6,945
US Real Estate Investment Trust Index	18,422		17,661	18,779
World Equity Ex-US Index	9,524		9,289	10,142
Long US Treasury Bond Index	12,373		15,914	13,157
US Treasury Inflation Protected Securities Index	13,401		13,788	14,030
World Govt Bond Ex	3,248		3,697	3,923
Global Balanced Fund	48,362		47,446	50,190
Investments with Barclays Global Investors				
Government Bond Fund	47,268		49,121	50,177
Intermediate Bond Fund	14,065		14,660	14,391
Investments with Brandes Investment Partners				
International Equity Fund Fee	72,916		69,081	74,715
Investments with RCM				
Sustainable Opportunities Fund	24,096		22,721	24,644
Total Invested Assets 5		s	2,241,276 \$	2,338,580
Change in Invested Assets				
Beginning Assets \$	2,189,939	\$	2,273,829 \$	2,241,276
Investment Earnings	83,974		(33,295)	93,734
Net Contributions (Withdrawals)	(84)		742	3,570
Ending Invested Assets S	2,273,829	\$	2,241,276 \$	2,338,580

### ALASKA RETIREMENT MANAGEMENT BOARD

#### Deferred Compensation Plan Schedule of Invested Assets and Changes in Invested Assets for the Month Ended September 30, 2010

		Beginning Invested				Net Contributions		Transfers		Ending Invested
	_	Assets		Income		(Withdrawals)		in (out)		Assets
Participant Options	-						-			
T. Rowe Price										
Interest Income Fund	\$	164,289,308	\$	513,256	\$	(167,137)	\$	1,347,197	\$	165,982,624
Small Cap Stock Fund		50,185,297		6,010,687		(59,462)	•	(669,588)		55,466,934
Long Term Balanced Fund		28,916,492		1,648,570		51,936		(84,267)		30,532,731
Alaska Balanced Trust		3,701,471		124,825		107,381		54,653		3,988,330
AK Target Date 2010 Trust		1,081,728		60.062		(11,563)		143,228		1,273,455
AK Target Date 2015 Trust		1,386,578		87,022		40,231		211,134		1,724,965
AK Target Date 2020 Trust		1,161,047		78,168		21,054		69,815		1,330,084
AK Target Date 2025 Trust		705,121		52,942		14,607		88,666		861,336
AK Target Date 2030 Trust		413,387		32,422		9,799		(21,000)		434,608
AK Target Date 2035 Trust		457,771		38,841		7,475		1,128		505,215
AK Target Date 2040 Trust		175,169		13,966		7,011		1,128		300,727
AK Target Date 2045 Trust		93,503		7,958		3,016		(102)		
AK Target Date 2050 Trust		92,684		7,864		1,637		(102)		104,375
AK Target Date 2055 Trust		644,651		53,823		705		-		102,185
Total Investments with T. Rowe Price	-	253,304,207	· -	8,730,406			-	(9,143)		690,036
Total investments with T. Nowe Thee	-	233,304,207	· -	8,730,400		26,690	-	1,236,302		263,297,605
State Street Global Advisors										
State Street Treasury Money Market Fund - Inst.		5,641,355		148		(196,599)		538,513		6 092 417
Russell 3000 Index		2,077,464		199,053		16,407		202,775		5,983,417
US Real Estate Investment Trust Index		5,217,450		222,399		25,002		282,061		2,495,699 5,746,912
World Equity Ex-US Index		3,522,982		346,594		(80,916)		59,340		3,848,000
Long US Treasury Bond Index		3,528,070		(74,724)		16,170		(853,604)		2,615,912
US Treasury Inflation Protected Securities Index		6,108,478		35,619		15,004		(11,315)		6,147,786
World Government Bond Ex-US Index		1,350,172		46,320		3,433		(8,711)		
Global Balanced Fund		33,788,639		2,068,096		61,381		(106,284)		1,391,214
Total Investments with SSGA	-	61,234,610		2,843,505		(140,118)	-	102,775		<u> </u>
	-	01,25 1,010	-			(140,110)	-	102,775		04,040,772
Barclays Global Investors										
S&P 500 Index Fund		102,540,154		9,105,517		21,805		(1,167,250)		110,500,226
Government/Credit Bond Fund		32,351,542		84,946		(100,266)		149,008		32,485,230
Intermediate Bond Fund		17,954,331		45,114		(137,582)		(114,588)		17,747,275
Total Investments with Barclays Global Investo	rs –	152,846,027	-	9,235,577		(216,043)	-	(1,132,830)		160,732,731
	-		-	7,255,577		(210,045)	-	(1,152,650)		100,752,751
Brandes Institutional										
International Equity Fund Fee		40,357,148		3,412,703		(27,341)		(207,776)		43,534,734
RCM		, , -		-,,		(27,511)		(201,110)		-3,337,754
Sustainable Core Opportunities Fund		7,699,420		749,089		46,722		1,529		8,496,760
Total All Funds	\$ _	515,441,412	\$	24,971,280	\$	(310,090)	\$		s—	540,102,602
			2) is							

Source data provided by the record keeper, Great West Life.

#### ALASKA RETIREMENT MANA. LENT BOARD Deferred Compensation Plan Schedule of Invested Assets with Schedule of Investment Income and Changes in Invested Assets By Month Through the Month Ended September 30, 2010 \$ (Thousands)

_	July		August	September		
Invested Assets (at fair value)						
Investments with T. Rowe Price						
Interest Income Fund				1		
Cash and cash equivalents \$	9,218	\$	10,797	\$	12,555	
Synthetic Investment Contracts	152,713		153,492		153,428	
Small Cap Stock Fund	54,781		50,185		55,467	
Long Term Balanced Fund	29,257		28,917		30,533	
Alaska Balanced Trust	3,426		3,701		3,988	
AK Target Date 2010 Trust	1,274		1,082		1,273	
AK Target Date 2015 Trust	1,383		1,387		1,725	
AK Target Date 2020 Trust	1,332		1,161		1,330	
AK Target Date 2025 Trust	649		705		861	
AK Target Date 2030 Trust	405		413		435	
AK Target Date 2035 Trust	478		458		505	
AK Target Date 2040 Trust	164		175		301	
AK Target Date 2045 Trust	90		94		104	
AK Target Date 2050 Trust	92		93		102	
AK Target Date 2055 Trust	666		645		690	
State Street Global Advisors						
State Street Treasury Money Market Fund - Inst	5,460		5,641		5,983	
Russell 3000 Index	2,201		2,077		2,496	
US Real Estate Investment Trust Index	5,748		5,217		5,747	
World Equity Ex-US Index	3,597		3,523		3,848	
Long US Treasury Bond Index	2,901		3,528		2,616	
US Treasury Inflation Protected Securities Inde:	5,826		6,109		6,148	
World Government Bond Ex-US Index	1,157		1,350		1,391	
Global Balanced Fund	34,105		33,789		35,812	
Investments with Barclays Global Investors						
S&P 500 Index Fund	107,770		102,540		110,500	
Government/Credit Bond Fund	31,515		32,352		32,485	
Intermediate Bond Fund	17,567		17,954		17,747	
Investments with Brandes Institutional						
International Equity Fund Fee	41,695		40,357		43,536	
Investments with RCM			· - <b>,</b> ·		,	
Sustainable Opportunities Fund	8,064		7,699		8,497	
Total Invested Assets S	523,534	s	515,441		540,103	
Change in Invested Assets						
Beginning Assets \$	502,805	\$	523,534	2	515,441	
Investment Earnings	20,548	J.	(10,281)		24,972	
Net Contributions (Withdrawals)	181		2,188		(310)	
Ending Invested Assets \$	523,534	\$	515,441	. –	540,103	

Source data provided by the record keeper, Great West Life.

### ALASKA RETIREMENT MANAGEMENT BOARD

**Defined Contribution Retirement - Participant Directed PERS** 

Schedule of Investment Income and Changes in Invested Assets

for the Month Ended September 30, 2010

Interim Transit Account Treasury Division <sup>(1)</sup>	-	Beginning Invested Assets		Investment Income		Net Contributions (Withdrawals)	_	Transfers in (out)	-	Ending Invested Assets
Cash and Cash Equivalents	\$_	315,452	\$	319	\$	268,900	\$_	<u> </u>	\$	584,671
Participant Options <sup>(2)</sup>										
T. Rowe Price										
Alaska Money Market		4,327,362		1,058		79,712		67,758		4,475,890
Small-Cap Stock Fund		1,099,293		133,056		34,972		(10,194)		1,257,127
Long Term Balanced Fund		7,684,413		443,118		117,770		116,767		8,362,068
Alaska Balanced Fund		180,172		6,111		8,094		110,707		194,377
AK Target Date 2010 Trust		110,622		5,861		12,959				129,442
AK Target Date 2015 Trust		494,484		30,827		67,026		-		592,337
AK Target Date 2020 Trust		768,466		53,753		90,870		(234)		912,855
AK Target Date 2025 Trust		977,900		75,214		123,686		(234)		1,176,800
AK Target Date 2030 Trust		1,075,205		88,960		145,814		-		1,309,979
AK Target Date 2035 Trust		1,087,337		95,589		145,814		-		1,333,245
AK Target Date 2040 Trust		1,933,063		169,350		230,060		10,964		2,343,437
AK Target Date 2045 Trust		1,588,976		140,681		247,828		(1,261)		1,976,224
AK Target Date 2050 Trust		1,810,161		160,288		284,434		(1,201)		2,254,883
AK Target Date 2055 Trust		459,400		41,102		85,171		_		585,673
	_	23,596,854		1,444,968		1,678,715	-	183,800	-	26,904,337
State Street Global Advisors	_			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		1,070,715	-	105,000		20,904,557
Money Market		152,272		4		7,812		16,730		176,818
S&P 500 Stock Index Fund Series A		22,494,603		2,025,811		601,054		23,515		25,144,983
Russell 3000 Index		138,576		12,894		5,799		(2,355)		154,914
US Real Estate Investment Trust Index		222,619		9,489		8,085		25,533		265,726
World Equity Ex-US Index		170,493		16,775		(690)		1,268		187,846
Long US Treasury Bond Index		217,310		(5,171)		5,394		(62,180)		155,353
US Treasury Inflation Protected Sec Index		111,275		915		5,032		27,170		144,392
World Government Bond Ex-US Index		61,184		2,293		2,415		4,392		
Global Balanced Fund		2,489,048		154,675		48,161		38,118		70,284 2,730,002
		26,057,380		2,217,685		683,062		72,191	-	29,030,318
Barclays	_		_			000,002		72,171	-	29,030,318
Government Bond Fund		3,758,636		10,743		69,453		42,108		3,880,940
Intermediate Bond Fund		211,547		585		7,349		42,108		
	_	3,970,183		11,328		76,802		42,150	-	<u> </u>
	_							42,150	-	4,100,405
Brandes Institutional										
International Equity Fund Fee RCM		28,544,079		2,431,665		728,074		(352,240)		31,351,578
Sustainable Opportunities Fund		22,556,241		2,215,329		618,264		54,099		25,443,933
Total Externally Managed Funds	_	104,724,737	_	8,320,975	•	3,784,917	_	-		116,830,629
Total All Funds	\$	105,040,189	\$	8,321,294	\$	4,053,817	\$ _	-	\$	117,415,300

#### Notes

Represents net contributions in transit to/from the record keeper.
 Source data provided by the record keeper, Great West Life.

#### ALASKA RETIREMEI

NAGEMENT BOARD

Defined Contribution Retirem - Participant Directed PERS

#### Schedule of Invested Assets with Schedule of Investment Income and Changes in Invested Assets

By Month Through the Month Ended

September 30, 2010

\$ (Thousands)

Invested Assets (At Eats 37-3	-	July		August		September		
Invested Assets (At Fair Value)								
Investments with Treasury Division Cash and cash equivalents								
Investments with T. Rowe Price	\$	438	\$	315 \$		585		
		4 100						
Alaska Money Market		4,138		4,327		4,476		
Small-Cap Stock Fund		1,150		1,099		1,257		
Long Term Balanced Fund		7,602		7,684		8,362		
Alaska Balanced Fund		172		180		194		
AK Target Date 2010 Trust		102		111		129		
AK Target Date 2015 Trust		454		494		592		
AK Target Date 2020 Trust		709		768		913		
AK Target Date 2025 Trust		927		978		1,177		
AK Target Date 2030 Trust		1,002		1,075		1,310		
AK Target Date 2035 Trust		1,012		1,087		1,333		
AK Target Date 2040 Trust		1,812		1,933		2,343		
AK Target Date 2045 Trust		1,454		1,589		1,976		
AK Target Date 2050 Trust		1,639		1,810		2,255		
AK Target Date 2055 Trust		384		459		586		
Investments with State Street Global Advisors								
Money Market		173		152		177		
S&P 500 Stock Index Fund Series A		22,958		22,495		25,145		
Russell 3000 Index		140		139		155		
US Real Estate Investment Trust Index		174		223		266		
World Equity Ex-US Index		167		170		188		
Long US Treasury Bond Index		162		217		155		
US Treasury Inflation Protected Sec Index		106		111		144		
World Government Bond Ex-US Index		103		61	7			
Global Balanced Fund		2,485		2,489	2,73			
Investments with Barclays								
Government Bond Fund		3,668		3,759		3,881		
Intermediate Bond Fund		215		212		220		
Investments with Brandes Investment Partners								
International Equity Fund Fee		29,365		28,544		31,352		
Investments with RCM								
Sustainable Opportunities Fund		23,131		22,556		25,444		
Total invested Assets	s	105,842	s_	105,040	s_	117,415		
Change in Invested Assets								
Beginning Assets	\$	96,173	\$	105.842	\$	105,040		
Investment Earnings	ų.	6.556	ø	(3,919)	Φ	8,321		
Net Contributions (Withdrawals)		3,113		3,117		4,054		
Ending Invested Assets	s	105,842	s	105,040	s <sup>—</sup>	4,034 117,415		

### ALASKA RETIREMENT MANAGEMENT BOARD

#### **Defined Contribution Retirement - Participant Directed TRS**

Schedule of Investment Income and Changes in Invested Assets

for the Month Ended September 30, 2010

Interim Transit Account	Beginning Invested Assets	Investment Income	Net Contributions (Withdrawals)	<b>Transfers</b> in (out)	Ending Invested Assets
Treasury Division <sup>(1)</sup>					
Cash and Cash Equivalents	\$56,414	\$	<u>\$</u> 84,998	\$	\$141,461
Participant Options <sup>(2)</sup>					
T. Rowe Price					
Alaska Money Market	1,820,681	4	40 9,825	44,437	1,875,383
Small-Cap Stock Fund	441,326	53,4		4,589	501,626
Long Term Balanced Fund	3,874,238	221,7	-,		4,164,655
Alaska Balanced Fund	56,211	1,8	· · · ·	-	58,245
AK Target Date 2010 Trust	77,855	4,0		-	86,946
AK Target Date 2015 Trust	283,798	17,2	-,		315,895
AK Target Date 2020 Trust	316,269	21,8	, .	-	373,599
AK Target Date 2025 Trust	378,103	28,3	,	-	432,559
AK Target Date 2030 Trust	389,954	30,7		-	434,251
AK Target Date 2035 Trust	676,814	58,1			782,951
AK Target Date 2040 Trust	830,531	70,8	,	6,732	947,799
AK Target Date 2045 Trust	1,390,376	118,7	,	0,752	1,595,408
AK Target Date 2050 Trust	1,611,353	137,72	,		1,856,009
AK Target Date 2055 Trust	29,108	2,5	,		37,422
	12,176,617	767,84		138,400	13,462,748
State Street Global Advisors					13,402,748
Money Market	11,604		- 137		11,741
S&P 500 Stock Index Fund Series A	9,522,998	852,04		20,872	10,426,491
Russell 3000 Index	47,665	4,52		5,313	
US Real Estate Investment Trust Index	44,198	1,92		(6,732)	57,801
World Equity Ex-US Index	22,976	2,40		4,200	41,172
Long US Treasury Bond Index	10,684	(1)		4,200	29,633
US Treasury Inflation Protected Sec Index	72,759	,	0 9	-	10,741
World Government Bond Ex-US Index	1,581		52 -	(272)	73,196
Global Balanced Fund	1,478,139	90,7		17,733	1,633
	11,212,604	952,2			1,581,989
Barclays	11,212,004		28,403		12,234,397
Government Bond Fund	1,615,676	4,01	37 61	(0.87)	1 (18 827
Intermediate Bond Fund	38,098		98 107	(987)	1,618,837
	1,653,774	4,11		415	38,718
Brandes Institutional			108	(572)	1,657,555
International Equity Fund Fee	12,297,716	1,038,33	30 37.440	(160.044)	10 01 / / / /
RCM	12,277,710	1,058,5.	37,440	(159,044)	13,214,442
Sustainable Opportunities Fund	9,513,630	926,90	1 42.015	(10.000)	10 4/4 810
Total Externally Managed Funds	46,854,341	3,689,53		(19,898)	10,464,548
			489,814	·	51,033,690
Total All Funds	\$46,910,755	\$3,689,58	<u>\$ 574,812</u>	\$	\$51,175,151

Notes:

(1) Represents net contributions in transit to/from the record keeper.

"rurce data provided by the record keeper, Great West Life.

### ALASKA RETIREMENT MANAG BOARD

Defined Contribution Retir. - Participant Directed TRS

Schedule of Invested Assets with Schedule of Investment Income and Changes in Invested Assets

By Month Through the Month Ended

September 30, 2010

\$ (Thousands)

Invested Access (As Date Mater)		July	-	August		September
Invested Assets (At Fair Value) Investments with Treasury Division						
Cash and cash equivalents	\$	74	•			
Investments with T. Rowe Price	2	76	\$	56		141
Alaska Money Market		1 000				
•		1,829		1,821		1,875
Small-Cap Stock Fund Long Term Balanced Fund		486		441		502
Alaska Balanced Fund		3,937		3,874		4,165
AK Target Date 2010 Trust		61 79		56		58
		, .		78		8
AK Target Date 2015 Trust		307		284		310
AK Target Date 2020 Trust		339		316		374
AK Target Date 2025 Trust		397		378		433
AK Target Date 2030 Trust		422		390		434
AK Target Date 2035 Trust		713		677		783
AK Target Date 2040 Trust		865		830		948
AK Target Date 2045 Trust		1,448		1,390		1,595
AK Target Date 2050 Trust		1,673		1,611		1,850
AK Target Date 2055 Trust		30		29		37
Investments with State Street Global Advisors						
Money Market		12		12		12
S&P 500 Stock Index Fund Series A		10,055		9,523		10,420
Russell 3000 Index		48		48		58
US Real Estate Investment Trust Index		42		= 44		41
World Equity Ex-US Index		22		23		30
Long US Treasury Bond Index		10		11		11
US Treasury Inflation Protected Sec Index		80		73		73
World Government Bond Ex-US Index		2		2		2
Global Balanced Fund		1,518		1,478		1,582
Investments with Barclays						
Government Bond Fund		1,622		1,616		1,619
Intermediate Bond Fund		38		38		39
Investments with Brandes Investment Partners						
International Equity Fund Fee		13,066		12,298		13,214
Investments with RCM				. 2, 2, 70		13,414
Sustainable Opportunities Fund		10,094		9,514		10,465
Total Invested Assets	s	49,271	s	46,911	s	51,175
Change in Invested Assets						
Beginning Assets	\$	45,348	\$	49,271	\$	46,911
Investment Earnings	-	3,071	2	(1,764)	•	3,690
Net Contributions (Withdrawals)		852		(1,704)		575
Ending Invested Assets	5	49,271	s <sup>—</sup>	46,911	s <sup></sup>	51,175

## ALASKA RETIREMENT MANAGEMENT BOARD

FINANCIAL REPORT (Supplement to the Treasury Division Report)

As of September 30, 2010

**Prepared by the Division of Retirement & Benefits** 

#### ALASKA RETIREMENT MANAGEMENT BOARD SCHEDULE OF NON-INVESTMENT CHANGES BY FUND (Supplement to the Treasury Division Report) For the Three Months Ending September 30, 2010

		Contributions							
	Contributions EE and ER	State of Alaska	Other	Total Contributions	Benefits	Refunds	Admin- istrative	Total Expenditures	Net Contributions/ (Withdrawals)
Public Employees' Retirement System (PERS) Defined Benefit Plans;	2						131111110	LApenditaes	(Within a waid)
Retirement Trust	68,478,886		2,393	68,481,279	(129,245,514)	(3,012,526)	(9,061,811)	(141,319,851)	(72,838,572)
Retirement Health Care Trust	65,407,577	•	445,983,724	511,391,301	(78,354,659)	•	(88,060,738)	(166,415,397)	344,975,904
Total Defined Benefit Plans	133,886,463	-	445,986,117	579,872,580	(207,600,173)	(3,012,526)	(97,122,549)	(307,735,248)	272,137,332
		1.00	2					1	
Defined Contribution Plans:									
Participant Directed Retirement	13,100,194	•	•	13,100,194	-	(2,223,069)	(592,835)	(2,815,904)	10,284,290
	(a) 3,386,738	•	-	3,386,738	•	· ·	•	•	3,386,738
	(a) 626,124	-	-	626,124	•	•	-	· ·	626,124
	(a)								
Public Employees	273,471	•	•	273,471	-	-			273,471
Police and Firefighters	135,182	-	•	135,182			•	-	135,182
Total Defined Contribution Plans	17,521,709	-	-	17,521,709	-	(2,223,069)	(592,835)	(2,815,904)	14,705,805
Total PERS	151,408,172	•	445,986,117	597,394,289	(207,600,173)	(5,235,595)	(97,715,384)	(310,551,152)	286,843,137
Teachers' Retirement System (TRS) Defined Benefit Plans:				10 10					
Retirement Trust	9,988,564	•	4.098	9,992,662	(86,107,490)	(951,892)	(3,669,118)	(90,728,500)	(80,735,838)
Retirement Health Care Trust	12,349,038	•	54,798,774	67,147,812	(32,574,880)		(11,241,232)	(43,816,112)	23,331,700
Total Defined Benefit Plans	22,337,602	120	54,802,872	77,140,474	(118,682,370)	(951,892)	(14,910,350)	(134,544,612)	(57,404,138)
Defined Contribution Plans,									
Participant Directed Retirement	2,324,279	-	•	2,324,279	-	(1,321,519)	(171,448)	(1,492,967)	831,312
	(a) 453,167	•	•	453,167		-	•	•	453,167
	(a) 141,287	•	-	141,287	-				141,287
	(a) <u>48,314</u>			48,314	:	-	-	-	48,314
Total Defined Contribution Plans	2,967,047	•	-	2,967,047	-	(1,321,519)	(171,448)	(1,492,967)	1,474,080
Total TRS	25,304,649	•	54,802,872	80,107,521	(118,682,370)	(2,273,411)	(15,081,798)	(136,037,579)	(55,930,058)
Judicial Retirement System (JRS)					<u>, , , , , , , , , , , , , , , , , , , </u>				
Defined Benefit Plan Retirement Trust	1,047,229		3	1,047,232	(2,225,658)	•	(108,197)	(2,333,855)	(1,286,623)
Defined Benefit Retirement Health Care Trust	287,219		1,801	289,020	(295,975)	-	(7,787)	(303,762)	(14,742)
Total JRS	1,334,448	•	1,804	1,336,252	(2,521,633)		(115,984)	(2,637,617)	(1,301,365)
National Guard/Naval Militia Retirement System (NGNMRS)									
	(a) 965,375			046 275	(361.05.4)				(A
Denoco Benetit Fian Remement Hust	(a) 905,375	•	-	965,375	(301,934)	· ·	(40,328)	(342,262)	623,113
Other Participant Directed Plans									
Supplemental Annuity Plan	39,545,397	•		39,545,397		(34,367,218)	(950,949)	(35,318,167)	4,227,230
Deferred Compensation Plan	9,809,267								
Proto Compensation I fan	7,009,207	• •	-	9,809,267		(7,468,121)	(281,309)	(7,749,430)	2,059,837
Total All Funds	228,367,308	-	500,790,793	729,158,101	(329,106,110)	(49,344,345)	(114,185,752)	(492,636,207)	236,521,894

(a) Employer only contributions.

#### ALASKA RETIREMENT MANAGEMENT BOARD SCHEDULE OF NON-INVESTMENT CHANGES BY FUND (Supplement to the Treasury Division Report) For the Month Ended September 30, 2010

	Contributions				Net				
	Contributions			Total		Expenditu	Admin-	Total	Contributions/
	EE and ER	State of Alaska	Other	Contributions	Benefus	Refunds	istrative	Expenditures	(Withdrawals)
Public Employees' Retirement System (PERS)									
Defined Benefit Plans:									
Retirement Trust	23,289,128	•	549	23,289,677	(43,281,940)	(678,458)	(1,805,585)	(45,765,983)	(22,476,306)
Retirement Health Care Trust	21,121,779	·····	216,517	21,338,296	(28,303,213)	-	(628,163)	(28,931,376)	(7,593,080)
Total Defined Benefit Plans	44,410,907	17	217,066	44,627,973	(71,585,153)	(678,458)	(2,433,748)	(74,697,359)	(30,069,386)
Defined Contribution Plans:									
Participant Directed Retirement	4,779,626			4 220 ( 2(		(			
		•	-	4,779,626	-	(573,723)	(152,086)	(725,809)	4,053,817
		•	-	1,285,959	-	-	*	-	1,285,959
		•	-	198,210		-	-	-	198,210
	(a)								
Public Employees	100,192	-	•	100,192	•	-	•	•	100,192
Police and Firefighters	43,941	-	<u> </u>	43,941	•		•	•	43,941
Total Defined Contribution Plans	6,407,928	•		6,407,928	•	(573,723)	(152,086)	(725,809)	5,682,119
Total PERS	50,818,835		217,066	51,035,901	(71,585,153)	(1,252,181)	(2,585,834)	(75,423,168)	(24,387,267)
Teachers' Retirement System (TRS)									
Defined Benefit Plans									
Retirement Trust	3,289,203	•	234	3,289,437	(29,061,325)	(188,164)	(642,680)	(29,892,169)	(26,602,732)
Retirement Health Care Trust	3,337,061	•	78,945	3,416,006	(11,775,914)	-	(249,953)	(12,025,867)	(8,609,861)
Total Defined Benefit Plans	6,626,264	•	79,179	6,705,443	(40,837,239)	(188,164)	(892,633)	(41,918,036)	(35,212,593)
Defined Contribution Plans.									
Participant Directed Retirement	041.045								
	941,843	•	-	941.843	•	(300,832)	(66,199)	(367,031)	574,812
· · · · · ·	(a) 172,399	-	-	172,399	•	-	-	-	172,399
	(a) 39.077		-	39,077	1	•	-	-	39,077
	(a) 16,087	542.	-	16,087	<u> </u>	•		•	16,087
Total Defined Contribution Plans	1,169,406		•	1,169,406	•	(300,832)	(66,199)	(367,031)	802,375
Total TRS	7,795,670	•	79,179	7,874,849	(40,837,239)	(488,996)	(958,832)	(42,285,067)	(34,410,218)
Judicial Retirement System (JRS)									
Defined Benefit Plan Retirement Trust	367.487		,	7/7 100	1745 65 11				(100.010
Defined Benefit Retirement Health Care Trust	96.207	•	3	367.490	(745,864)	-	(24,145)	(770,009)	(402,519)
Total JRS	463,694	·•:	612	96.819	(103,169)	•	(3.097)	(106,266)	(9,447)
10001383	403,094		615	464,309	(849,033)	-	(27,242)	(876,275)	(411,966)
National Guard/Naval Militia Retirement System (NGNMRS									
	(a) .				(111,938)		(13.202)	(134.545)	(15) 5 (6)
Dennior Benefit Phan (Concinent Print)	(a)	•	••••••••••••••••••••••••••••••••••••••		(111,938)	*	(12,302)	(124,240)	(124,240)
Other Participant Directed Plans									
Supplemental Annuity Plan	12,488,063		_	12,488.063		(8,570,009)	(348,459)	(8,918,468)	3,569,595
				12,700,000		[0,370,007]	(70,07)	(0,710,400)	5,507,595
Deferred Compensation Plan	2,088,169			2,088,169		(2,295,976)	(102,282)	(2,398,258)	(310,089)
						(2,->>()/()	((04,402)	(2,570,200)	(510,085)
Total All Funds	73,654,431		296,860	73,951,291	(113,383,363)	(12,607,162)	(4,034,951)	(130,025,476)	(56,074,185)
	•								

(a) Employer only contributions.



# State of Alaska – Department of Administration – Division of Retirement and Benefits and Department of Revenue – Treasury Division 2010 Audit Results

December 2, 2010

Mike Hayhurst Corrine Fiedler

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- Independent auditors' reports	8
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## **Divisions' Responsibilities**

## The Divisions is responsible for:

- · Adopting sound accounting policies
- Fairly presenting the financial statements in conformity with generally accepted accounting principles
- · Establishing and maintaining internal controls

## The Audit Committee is responsible for:

· Oversight of the financial reporting process

## The Divisions and the Audit Committee are responsible for:

- Establishing appropriate controls to prevent, detect, and deter fraud
- · Setting the proper tone and maintaining a culture of honesty and high ethical standards

## **KPMG's Responsibilities**

- Forming and expressing an opinion about whether the financial statements that have been prepared by management with the oversight of those charged with governance are presented fairly, in all material respects, in conformity with generally accepted accounting principles.
- Planning and performing the audit to obtain reasonable not absolute assurance about whether the financial statements are free of material misstatement, whether caused by fraud or error. Because of the nature of audit evidence and the characteristics of fraud, we are able to obtain reasonable, but not absolute, assurance that material misstatements are detected.
- Conducting an audit in accordance with professional standards.
- Complying with the rules and regulations of the Code of Professional Conduct of the American Institute of Certified Public Accountants, and the ethical standards of relevant CPA societies, relevant state boards of accountancy, the SEC (or other regulators), and the PCAOB.
- Planning and performing an audit with an attitude of professional skepticism.
- Communicating all required information to management and the Audit Committee.

There have been no significant changes to our audit plan

There are no pending matters

# **Independent Auditors' Reports**

## Unqualified opinion on the financial statements for:

- Invested Assets of the Retirement Systems
- Treasury Division Invested Assets Under the Investment Authority of the Commissioner of Revenue

## Unqualified opinion on the financial statements and supplement schedules for:

- Public Employees' Retirement System
- Teachers' Retirement System
- Judicial Retirement System
- National Guard and Naval Militia Retirement System
- Supplemental Benefit System
- Deferred Compensation Plan

# Audit Adjustments

The financial statements do not reflect the market value adjustments resulting from the time lag between the valuation date and the fiscal year-end

## Material Weaknesses

None identified

## Significant Deficiencies

None identified

# **Fraud Discussion**

## **Presumed by SAS 99**

- Risk of misstatement relating to contributions
- Risk of management override of controls
  - Journal entries and adjustments

# **Other Required Communications**

Other information in Documents Containing Audited Financial Statements	We have read the Comprehensive Annual Financial Reports for the Public Employees' Retirement System and Teachers' Retirement System and no matters came to our attention that cause us to believe that such information, or its manner of presentation, is materially inconsistent with the information appearing in the financial statements.
Significant Difficulties Encountered During the Audit	No matter to report
Disagreements with Managements	None noted
Management's Consultation with Other Accountants	None noted
Significant Issues Discussed, or Subject to Correspondence with Management	None noted
Alternative Accounting Treatments Discussed with Management	None
Other Findings or Issues Relevant Regarding Oversight of the Financial Reporting Process	None noted

## Independence

In our professional judgment, we are independent accountants with respect to the Division of Retirement and Benefits and the Division of Treasury under all relevant professional and regulatory standards.

# Thank you

Michael L. Hayhurst

Office Managing Partner



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# State of Alaska – Department of Administration – Division of Retirement and Benefits and Department of Revenue – Treasury Division 2010 Audit Results

December 2, 2010

Mike Hayhurst Corrine Fiedler

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# **Divisions' Responsibilities**

## The Divisions is responsible for:

- · Adopting sound accounting policies
- Fairly presenting the financial statements in conformity with generally accepted accounting principles
- · Establishing and maintaining internal controls

## The Audit Committee is responsible for:

· Oversight of the financial reporting process

## The Divisions and the Audit Committee are responsible for:

- Establishing appropriate controls to prevent, detect, and deter fraud
- · Setting the proper tone and maintaining a culture of honesty and high ethical standards

# **KPMG's Responsibilities**

- Forming and expressing an opinion about whether the financial statements that have been prepared by management with the oversight of those charged with governance are presented fairly, in all material respects, in conformity with generally accepted accounting principles.
- Planning and performing the audit to obtain reasonable not absolute assurance about whether the financial statements are free of material misstatement, whether caused by fraud or error. Because of the nature of audit evidence and the characteristics of fraud, we are able to obtain reasonable, but not absolute, assurance that material misstatements are detected.
- Conducting an audit in accordance with professional standards.
- Complying with the rules and regulations of the Code of Professional Conduct of the American Institute of Certified Public Accountants, and the ethical standards of relevant CPA societies, relevant state boards of accountancy, the SEC (or other regulators), and the PCAOB.
- Planning and performing an audit with an attitude of professional skepticism.
- Communicating all required information to management and the Audit Committee.

There have been no significant changes to our audit plan

There are no pending matters

# **Independent Auditors' Reports**

## Unqualified opinion on the financial statements for:

- Invested Assets of the Retirement Systems
- Treasury Division Invested Assets Under the Investment Authority of the Commissioner of Revenue

## Unqualified opinion on the financial statements and supplement schedules for:

- Public Employees' Retirement System
- Teachers' Retirement System
- Judicial Retirement System
- National Guard and Naval Militia Retirement System
- Supplemental Benefit System
- Deferred Compensation Plan

# Audit Adjustments

The financial statements do not reflect the market value adjustments resulting from the time lag between the valuation date and the fiscal year-end

## Material Weaknesses

None identified

## Significant Deficiencies

None identified

# **Fraud Discussion**

## **Presumed by SAS 99**

- Risk of misstatement relating to contributions
- Risk of management override of controls
  - Journal entries and adjustments

# **Other Required Communications**

Other information in Documents Containing Audited Financial Statements	We have read the Comprehensive Annual Financial Reports for the Public Employees' Retirement System and Teachers' Retirement System and no matters came to our attention that cause us to believe that such information, or its manner of presentation, is materially inconsistent with the information appearing in the financial statements.
Significant Difficulties Encountered During the Audit	No matter to report
Disagreements with Managements	None noted
Management's Consultation with Other Accountants	None noted
Significant Issues Discussed, or Subject to Correspondence with Management	None noted
Alternative Accounting Treatments Discussed with Management	None
Other Findings or Issues Relevant Regarding Oversight of the Financial Reporting Process	None noted

## Independence

In our professional judgment, we are independent accountants with respect to the Division of Retirement and Benefits and the Division of Treasury under all relevant professional and regulatory standards.

# Thank you

Michael L. Hayhurst

Office Managing Partner



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## ALASKA RETIREMENT MANAGEMENT BOARD STATE OF ALASKA DIVISION OF RETIREMENT AND BENEFITS AND STATE OF ALASKA DIVISION OF TREASURY

Letter to the Audit Committee

November 3, 2010



KPMG LLP Suite 600 701 West Eighth Avenue Anchorage, AK 99501

November 3, 2010

Alaska Retirement Management Board Audit Committee State of Alaska Division of Retirement and Benefits and State of Alaska Division of Treasury Juneau, AK

Ladies and Gentlemen:

We have audited the financial statements for the following entities (collectively, the Systems) as of and for the fiscal years ended June 30, 2010 and 2009, and have issued our report thereon under date of October 29, 2010.

- State of Alaska Public Employees' Retirement System
- State of Alaska Teachers' Retirement System
- State of Alaska Judicial Retirement System
- State of Alaska National Guard and Naval Militia Retirement System
- State of Alaska Retirement and Benefits Plans Invested Assets
- Treasury Division Invested Assets Under the Investment Authority of the Commissioner of Revenue

We have audited the financial statements of the State of Alaska Supplemental Benefits System (the System) as of and for the fiscal years ended January 31, 2010 and 2009, and have issued our report thereon under date of October 29, 2010.

We have audited the financial statements of the State of Alaska Deferred Compensation Plan (the Plan) as of and for the fiscal years ended December 31, 2009 and 2008, and have issued our report thereon under date of October 29, 2010.

Under our professional standards, we are providing you with the accompanying information related to the conduct of our audits.

#### Our Responsibility Under Professional Standards

We are responsible for forming and expressing an opinion about whether the financial statements, that have been prepared by management with the oversight of the Alaska Retirement Management Board Audit Committee, are presented fairly, in all material respects, in conformity with U.S. generally accepted accounting principles. We have a responsibility to perform our audits of the financial statements in accordance with professional standards. In carrying out this responsibility, we planned and performed the audits to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether caused by error or fraud. Because of the nature of audit evidence and the characteristics of fraud, we are to obtain reasonable, not absolute, assurance that material misstatements are detected. We have no responsibility to plan and perform the audits to obtain reasonable assurance that



Alaska Retirement Management Board State of Alaska Division of Retirement and Benefits and State of Alaska Division of Treasury November 3, 2010 Page 2 of 5

misstatements, whether caused by error or fraud, that are not material to the financial statements are detected. Our audits do not relieve management or the Alaska Retirement Management Board Audit Committee of their responsibilities.

In addition, in planning and performing our audits of the financial statements, we considered internal control over financial reporting (internal control) as a basis for designing our auditing procedures for the purpose of expressing our opinion on the financial statements but not for the purpose of expressing an opinion on the effectiveness of the Systems' and the Plan's internal control. Accordingly, we do not express an opinion on the effectiveness of the Systems' or the Plan's internal control.

We also have a responsibility to communicate significant matters related to the financial statement audits that are, in our professional judgment, relevant to the responsibilities of the Alaska Retirement Management Board Audit Committee in overseeing the financial reporting process. We are not required to design procedures for the purpose of identifying other matters to communicate to you.

#### Other Information in Documents Containing Audited Financial Statements

Our responsibility for other information in documents containing the Systems' and the Plan's financial statements and our auditors' report thereon does not extend beyond the financial information identified in our auditors' report, and we have no obligation to perform any procedures to corroborate other information contained in these documents. We have, however, read the other information included in the Public Employees' Retirement System's and Teachers' Retirement System's comprehensive annual financial reports, and no matters came to our attention that cause us to believe that such information, or its manner of presentation, is materially inconsistent with the information, or manner of its presentation, appearing in the financial statements.

#### Accounting Practices and Alternative Treatments

#### Significant Accounting Policies

The significant accounting policies used by the Systems and the Plan are described in Note 2 to the financial statements. No new accounting policies were adopted and the application of existing policies was not changed during the years referred to above.

#### Unusual Transactions

We noted no unusual transactions entered into by the Systems or the Plan during the year that were both significant and unusual, and of which, under professional standards, we are required to inform you, or transactions for which there is a lack of authoritative guidance or consensus.

#### Critical Accounting Policies and Practices

The critical accounting policies and practices used by the Systems and the Plan in preparing their financial statements are as described in Management's Discussion and Analysis. These policies and practices are considered both most important to the portrayal of the Systems' and the Plan's financial condition and results of operations, and require management's most difficult, subjective, or complex judgments, often as a result of the need to make estimates about matters that are inherently uncertain. We have discussed with the audit committee and management our assessment of management's disclosures regarding such policies



Alaska Retirement Management Board State of Alaska Division of Retirement and Benefits and State of Alaska Division of Treasury November 3, 2010 Page 3 of 5

and practices, the reasons why these policies and practices are considered critical, and how current and anticipated future events impact those determinations.

#### Qualitative Aspects of Accounting Practices

We have discussed with the Alaska Retirement Management Board Audit Committee and management our judgments about the quality, not just the acceptability, of the Systems' and the Plan's accounting principles as applied in its financial reporting. The discussions generally included such matters as the consistency of the Systems' and the Plan's accounting policies and their application, and the understandability and completeness of the Systems' and the Plan's financial statements, which include related disclosures.

#### **Management Judgments and Accounting Estimates**

The preparation of the financial statements requires management of the Systems and the Plan to make a number of estimates and assumptions relating to the reported amounts of assets and liabilities and the disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of investment income during the period.

#### Investments

The investment portfolio is carried at fair value as determined primarily by the Treasury Division's custodial agent. The fair values obtained from the custodial agent are reviewed by management. The agent's determination of fair values for debt and equity investment securities involves, among other things, using pricing services or prices quoted by independent brokers. The fair values of real estate equity investments are valued quarterly by general partners or investment sponsors based on market conditions and their knowledge of industry trends. With the exception of real estate investment trust holdings, real estate investments are valued quarterly by investment managers based on market conditions and their knowledge of industry trends. Separate account real estate investments are appraised once every three years, in conjunction with the purchase date anniversary, by independent appraisers. Real estate investment trust holdings are valued each business day using prices obtained from a pricing service.

Private equity securities are valued periodically by the general partners. Underlying private equity investments that are listed on a national exchange are valued using quoted market prices. Securities for which there are not market quotations available are initially carried at original cost and subsequently valued at fair value as determined by the general partners. In determining fair value, the financial condition, operating results and projected operating cash flow of the underlying portfolio companies, prices paid in private sales of such securities, the nature and duration of restrictions on disposition of the securities, the existence of merger proposals or tender offers affecting securities, reports prepared by analysts are considered as appropriate. Because of the inherent uncertainty of valuations, however, these estimated values may differ significantly from the values that would have been used had a ready market for the securities existed, and these differences could be material.

Absolute return investments are carried at fair value as determined by the pro-rata interest in the net assets of the underlying investment funds. These investment funds are valued periodically by the general partners and the managers of the underlying investments. The net asset value represents the amount that would be expected to be received if it were to liquidate its interests subject to liquidity or redemption restrictions. Because of the inherent uncertainty of valuations, however, these estimated values may differ significantly



Alaska Retirement Management Board State of Alaska Division of Retirement and Benefits and State of Alaska Division of Treasury November 3, 2010 Page 4 of 5

from the values that would have been used had a ready market for the securities existed, and these differences could be material.

The energy related investment in the Other Investments Pool consists primarily of loans and preferred stock that are valued at the lower of cost or fair value. The agricultural investments in the Other Investments Pool consist primarily of farmland investments that are stated at fair value based upon independent appraisals performed periodically. In years when an independent appraisal is not performed, the valuation is reviewed by an independent advisor. Because of the inherent uncertainty of valuations, these estimated values may differ significantly from the values that would have been used had a ready market for the securities existed, and these differences could be material.

#### Actuarial Estimates

The financial statements for the Systems contain certain actuarial estimates as required by the Governmental Accounting Standards Board. The actuarial information included as required supplementary information has not been audited by us and we express no opinion on it.

### **Uncorrected and Corrected Misstatements**

In connection with our audit of the Systems' financial statements, we have discussed with management certain financial statement misstatements that have not been corrected in the Systems' books and records as of and for the year ended June 30, 2010 and 2009. We have reported such misstatements to management on a Summary of Audit Differences and have received written representations from management that management believes that the effects of the uncorrected financial statement misstatements are immaterial, both individually and in the aggregate, to the financial statements taken as a whole. Attached is a copy of the summary that has been provided to, and discussed with, management.

In connection with our audit of the State of Alaska Supplemental Benefit System's financial statements as of and for the fiscal year ended January 31, 2010 and our audit of the State of Alaska Deferred Compensation Plan's financial statements as of and for the years ended December 31 2009, we have not identified any significant financial statement misstatements that have not been corrected in the System's or the Plan's books and records.

#### **Disagreements with Management**

There were no disagreements with management on financial accounting and reporting matters that, if not satisfactorily resolved, would have caused a modification of our auditors' reports on the Systems' or the Plan's financial statements.

#### Management's Consultation with Other Accountants

To the best of our knowledge management has not consulted with or obtained opinions, written or oral, from other independent accountants during the past year.

#### Significant Issues Discussed, or Subject to Correspondence, with Management

#### Major Issues Discussed with Management Prior to Retention

We generally discuss a variety of matters with the Alaska Retirement Management Board Audit Committee and management each year prior to our retention by you as the Systems' or the Plan's auditors.



Alaska Retirement Management Board State of Alaska Division of Retirement and Benefits and State of Alaska Division of Treasury November 3, 2010 Page 5 of 5

During 2010, we presented you and management with our formal audit plan and specifically discussed planned changes in internal controls over alternative investments.

The result of these discussions was not a condition to our retention.

Material Written Communications

Attached to this letter please find copies of the following material written communications between management and us:

1. Management representation letters

#### Significant Difficulties Encountered During the Audit

No significant difficulties were encountered during our audits of the Systems' or the Plan's financial statements.

#### Independence

Our professional standards and other regulatory requirements specify that we communicate to you in writing, at least annually, all relationships between our firm, the Systems and the Plan and persons in a financial reporting oversight role at the Systems and the Plan and provide confirmation that we are independent accountants with respect to the Systems and Plan.

We are not aware of any independence-related relationships between our firm, the Systems and the Plan.

#### Confirmation of Audit Independence

We hereby confirm that as of November 3, 2010, we are independent accountants with respect to the Systems and the Plan under all relevant professional and regulatory standards.

\* \* \* \* \* \* \*

This letter to the Alaska Retirement Management Board Audit Committee is intended solely for the information and use of the Alaska Retirement Management Board Audit Committee and management and is not intended to be and should not be used by anyone other than these specified parties.

Very truly yours,

KPMG LIP

# **Alaska Retirement Management Board**

# **Report on State Performance Consultants and Evaluation of Investment Policies**

# **Final Report**

November 12, 2010

805 15<sup>th</sup> Street, NW Suite 1120 Washington, DC 20005 202-898-2270

INDEPENDENT FIDUCIARY SERVICES. INC.

744 Broad Street Suite 1120 Newark, NJ 07102 973-424-6400

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# Independent Fiduciary Services<sup>®</sup>

## Operational Review for the Alaska Retirement Management Board

# Introduction

This Report is presented in four sections: an executive summary; background information and methodology; detailed discussion and analysis; and exhibits.

Section I, the Executive Summary, offers a high level overview of the major themes in the report. The Executive Summary should be used in the context of the full report and not read in isolation.

Section II, Background and Methodology, describes IFS and the methodology we followed in performing this assignment. It then explains the overall format of the Report, and concludes with caveats and observations about the substantive sections of the Report.

Section III, Discussion and Analysis, comprises the body of the report and addresses each task area. The discussion and analysis sets forth background information (including best and common practices where applicable), detailed observed conditions and recommendations. Our observations and recommendations are based on the review we conducted of each task area in coordination with the Alaska Retirement Management Board ("ARMB" or "the Board"), the investment staff, and ARMB's consultants.



# Section I.

# **Executive Summary**

## **Basis for the Review**

The Alaska Retirement Management Board is the fiduciary of the State of Alaska retirement systems – a system with both defined benefit and defined contribution components. The Board's primary mission is to serve as the trustee of the assets of the state's retirement systems, the State of Alaska Supplemental Annuity Plan, and the deferred compensation program for state employees. ARMB is housed in the Alaska Department of Revenue; the plan administrator is in the Alaska Department of Administration.

Alaska Statute 37.10.220(a)(11) requires that the Board contract for an independent audit of the state's performance consultant not less than once every four years and that the Board obtain an external performance review to evaluate the investment policies of each fund entrusted to the Board and report the results of the review to the appropriate fund fiduciary. ARMB entered into an agreement with Independent Fiduciary Services, Inc. ("IFS") to perform an evaluation of ARMB's performance consultants, investment policies, and other investment-related matters (collectively the "Task Areas"), otherwise known as an Operational Review. The scope of work includes the following task areas:

- Investment Performance Calculations and Methodology;
- Investment Performance Reporting to the Board;
- Investment Performance Benchmarks; and
- Investment Policies.

IFS delivered the first draft of the report on October 1, 2010 and received comments from ARMB on October 15, 2010.



The following paragraphs summarize the highlights and key findings of our Report. We note that our comments are limited by the scope of work and we were not tasked with reviewing all areas of the investment program, such as overall governance or asset allocation. We thank ARMB, Mr. Gary Bader and staff for their time and cooperation during this project. We also thank Ms. Judy Hall for coordinating the project and meeting our numerous requests for information.

## TASK AREA A.1.a. INVESTMENT PERFORMANCE CALCULATIONS and METHODOLOGY

- We found that the ARMB's consultants (Callan and Townsend) are using appropriate methodology to calculate investment performance.
- IFS' spot checking of investment performance calculations did not identify any issues with regard to consistency or accuracy.

## TASK AREA A.1.b. INVESTMENT PERFORMANCE REPORTING to the BOARD

- Overall, the performance reports ARMB receives are high quality and are generally in line with best practices for public pension funds.
- ARMB receives detailed quarterly performance reports from Callan on the DB and DC plans. Additional detailed reporting is provided to staff, which is available to Board members if requested.
- We found that performance reporting could be improved with regard to some of the internally managed portfolios, e.g., REITs and TIPS, as well as for the farmland and timberland programs.
- Callan also provides an annual Private Equity Report that contains most of the essential elements, although we believe that ARMB could benefit by reviewing some additional performance items, such as an IRR for the private equity program as a whole.
- Townsend prepares and provides the real estate performance reports. While these reports appear to meet the ARMB's basic needs, we believe that they could be enhanced by including some supplemental information, such as additional performance metrics for the IMAs and some additional manager-level details, such as country allocation.



### TASK AREA A.2. INVESTMENT PERFORMANCE BENCHMARKS

• Overall, we found that ARMB uses appropriate investment performance benchmarks and we made only minor recommendations in this area.

## TASK AREA B. INVESTMENT POLICIES

- With regard to investment policies in general, our primary recommendation is for ARMB to adopt a Total Fund Investment Policy Statement that would supplement the individual asset class policies and address total fund elements.
- In general, we found that most of the asset class/sub-asset class investment policies contain most of the essential elements. However, a few small portfolios are not addressed by any policy, such as energy or corporate governance.
- For public equities, we believe that individual managers should have customized investment guidelines, or that at a minimum separate guidelines should be created for domestic versus international equity, which could then be broken down further by capitalization and market segment.
- For real estate, we recommend that investment guidelines be developed for the internally managed REIT portfolio. In general, internally managed portfolios should be treated the same as externally managed portfolios in terms of setting appropriate investment guidelines, as well as for ongoing monitoring and performance measurement.
- For the remaining asset classes/strategies we made some relatively minor recommendations in order to improve the policy documents. Additionally, we believe that ARMB should require that all policies be reviewed annually to determine whether any changes are necessary.





## Section II.

# Background, Review Methodology, and Limitations on the Report

IFS specializes in evaluating the organizational governance, day to day administration and investment programs of investment boards and pension systems using combined expertise in investment practices, pension fund administration and fiduciary responsibility. In operation for over 20 years, IFS has performed similar evaluations for numerous other public and private pension funds, and is recognized as the leading firm in the industry performing this type of consulting services. IFS performed a detailed Operational Review of ASPIB that was completed in 2003.

The specific details, scope and depth of the review are defined by the Scope of Work set forth as Appendix C to the June 25, 2010 agreement, between the Board and IFS.

Throughout the Report, as part of our operational review methodology, we identify and highlight our findings or observations and provide recommendations. Our goal is to "add value" by identifying alternatives intended to enhance the Board's operations and/or address potential problems. For each Task Area, we provide background information in addition to our findings and recommendations. The background section may also include what we have deemed an industry "best practice" based on our experience performing similar reviews. A "best practice" is not necessarily the "norm" or most common practice, rather it is the most effective and efficient means (e.g., a process, procedure or structure) of doing something in a given situation to achieve an optimal outcome. Since effectiveness and efficiency are situational, what is a best practice for one operation may not be a best practice for all operations.

The analysis leading up to this Report progressed through the following stages:



### **Document Collection**

The first stage in our process was collection – with the staff's cooperation – of information regarding the Board's investment program and practices. This included amassing data and documents, such as written investment policies and guidelines, investment performance reports, service provider contracts and other materials. This phase was conducted primarily in July 2010.

### **Analysis & Interviews**

The next stage of our process, which continued throughout the project, was analysis. Throughout the process, we coordinated and integrated our efforts and maintained communication with designated representatives. The main interviews with investment staff and ARMB's two investment consultants, Callan Associates and the Townsend Group, were conducted telephonically between August 20, 2010 and August 31, 2010.

## **Draft and Final Report**

The written report also progressed through several stages. We submitted a first draft on October 1, 2010. Comments from ARMB were received on October 18, 2010. The final report was delivered on November 12, 2010.

This process of draft and comment enabled relevant parties to point out matters that, in their view, were either factually or conceptually inaccurate, incomplete or misleading, and enabled us to obtain additional information and prepare a final report that took into account all relevant comments.

### **Report Caveats**

This Report should be read and evaluated with several caveats in mind.

• First, many of the subjects addressed in this Report are inherently judgmental and not susceptible to absolute or definitive conclusions. Many of our conclusions constitute alternatives for the Board and staff to consider in light of the ARMB's evolving investment program now and over the coming years.



- Second, in conducting this review, we assumed the information we were provided, whether by the Service Providers, staff or the Board, is accurate, and could be relied upon. We sought to cross-verify certain information among different interviewees and documents, but the process of cross-verification was limited. We were not hired to detect or investigate fraud, concealment or misrepresentations and did not attempt to do so. We were not hired to, and did not attempt to conduct a formal or legal investigation or otherwise to use judicial processes or evidentiary safeguards in conducting our review. Our findings and conclusions are based upon our extensive review of documents, the interviews we conducted with the Board and staff, our independent analysis, and our experience and expertise.
- Third, this Report does not and is not intended to provide legal advice.
- Fourth, our observations are necessarily based only on the information we considered as of and during the period we performed our review, especially as of March 31, 2010.
- Fifth, our Report cannot and does not attempt either to assess the manner in which any of our recommendations may be implemented or observed in the future, or predict whether ARMB's practices, as represented to us, will be observed in the future. Nor does our Report supplant or reduce the ongoing independent fiduciary duty of the Board and staff to structure and evaluate their investment program or policies and procedures.
- Sixth, we are not a firm of certified public accountants and this report is not intended to conform with generally accepted auditing standards (GAAS) as promulgated by the AICPA, nor was it required to conform to GAAS.
- Finally, although we have discussed our findings with, and submitted draft versions of our Report to ARMB and its representatives, its final form and content reflect the independent judgment of IFS. The extent to which our Report and recommendations are implemented is the Board's decision.



# Task Area A.1.a. Investment Performance Calculations and Methodology

# Background

- There are three methods of calculating portfolio time-weighted rates of return that are accepted by the CFA Institute. Depending on the cash flow activity in the account, one or more of the methods may not be appropriate in a given situation.
- The methods differ in the frequency of data input into the calculation, the accuracy of the calculation, and the cost of conducting the calculation. The resulting rates of return from the three methods may be identical, may differ slightly, or may differ materially, depending on the size and timing of cash flows relative to the size of the account.
- Dietz is the simplest method in that it requires the least amount of data. Only beginning and ending market values and the total amount of cash flows for the month are used. The Dietz algorithm assumes all cash flows occur at the middle of the month and that the change in market values occurs evenly throughout the month. This method results in a reasonable rate of return if the cash flows are very small relative to the portfolio value.
- Modified Dietz uses the same beginning and end of month values as the Dietz method, but identifies each cash flow with the date it occurred and weights it accordingly. Modified Dietz is the most common method for calculating periodic portfolio performance, since the information needed is usually easily available in ordinary portfolio record keeping.
- Daily valuation is the most mathematically accurate method, as it calculates a daily rate of return, based on that day's cash flows and updated market value. This method is typically not used by investors for pure performance evaluation purposes, but is easily used by investment managers who need to know the value of their holdings at all times for portfolio management. For performance reporting, daily valuation is typically too expensive due to the cost of obtaining the data, and it usually does not yield a materially different result from Modified Dietz if the measurement periods are one month or less.



• The alternative to the time-weighted rate of return is the money-weighted rate of return or internal rate of return. This methodology is affected by external cash flows and is most often used when the investment manager can control the size and timing of these cash flows. For managers that operate under this type of arrangement, such as various types of real estate and private equity managers, using a money-weighted rate of return is typically preferred as it better evaluates the manager's skill. For example, the Global Investment Performance Standards (GIPS®) developed by CFA Institute recommend presenting performance using a money-weighted rate of return for real estate assets and requires it for private equity investments.

## **Observations**

- Through our interview process Callan informed us that their performance reports are shown using time-weighted returns and the calculation methodology they use is Modified Dietz. Based on our experience, this is reasonable and is the methodology we see typically used at other consulting firms for institutional funds. Therefore, the current method used by ARMB allows for accurate comparison to other retirement funds. Callan also informed us that they receive a nightly feed from State Street and are able to calculate unaudited daily time-weighted returns if desired or necessary.
- ARMB Managers of Fixed Income, Alternative Investments, and Public Equity currently do not reconcile performance reported by Callan against performance calculated using data from State Street. The Public Equity Manager does review monthly monitoring reports from managers and will compare that to what Callan reports, but the Fixed Income Manager and Alternative Investments Managers do not.
- In order to verify the accuracy of the methods used, IFS calculated quarterly performance for five investment managers from various asset classes. We requested daily market values and cash flows from State Street and uploaded the data into our performance measurement software. The managers selected were:
  - Barrow Hanley;
  - Crestline;
  - Lazard Emerging Income;



- McKinley Capital; and
- the total in-house fixed income portfolio.
- Using the Modified Dietz methodology, the returns we calculated matched the returns found in Callan's performance report for the quarter ending March 31, 2010. Based on our recalculation, Callan accurately calculates performance.
- We then linked quarterly performance for those same managers over one, three, five, seven and ten year time periods, where applicable, and compared our results to what was shown in the Executive Summary quarterly performance reports to the Board. We performed this test to see if Callan was correctly linking quarterly returns on an annualized basis. In all instances, the performance we calculated corresponded to the figures Callan showed in their performance report.
- For real estate, the external investment managers submit raw data to Townsend who then calculates performance. Once the returns have been calculated, Townsend will send a draft performance report to ARMB Manager of Real Assets. Townsend does not calculate performance of the REIT portfolio. We were informed by staff that this is done by State Street. The Manager of Real Assets will review the draft report to see if the performance looks reasonable and will work with Townsend to resolve any discrepancies or other related issues.
  - Townsend informed us that their performance reports show time-weighted returns using the Modified Dietz methodology, as described above. While we believe that this is a reasonable methodology, as noted below in Section A.1.b D. Townsend Performance Reports, Townsend currently calculates IRRs and should show performance on an IRR basis in addition to time-weighted rates of return in their performance reports in accordance with CFA Institute recommendations. (See our related recommendation in Section A.1.b., below.)
  - IFS calculated the performance for a sample of mangers in the real estate portfolio. We selected one separate account manager, one open-end fund, and one closed-end fund. Using the Modified Dietz methodology, the returns we calculated matched the returns found in Townsend's performance report for the quarter ending March 31, 2010. Based on our results, in accordance with Modified Dietz, Townsend accurately calculates performance.



- We then linked the quarterly performance numbers for those managers over one, three and five year time periods, where applicable, and compared our results to what was shown in the Townsend performance report. We performed this test to see if Townsend was correctly linking quarterly returns on an annualized basis. Our findings show that Townsend is linking quarterly returns in a correct manner.
- It is also noteworthy with regard to Townsend that they have been working with NCREIF's Performance Measurement Committee to develop the Real Estate Information Standards (REIS) Manual. "The Performance Measurement Resource Manual provides guidance on performance metrics commonly used by institutional equity real estate investors in the United States to promote transparency and calculation consistency." The Manual is intended to be consistent with GIPS, but focuses on performance presentation to existing investors.



# Task Area A.1.b. Investment Performance Reporting to the Board

# Background

- Those charged with responsibility for oversight of a sophisticated investment program require clear, concise, consistent reports to monitor the program's performance and risk. The reports should be prepared on a regular periodic schedule (e.g., quarterly is recommended for Board level reports). Key statistics (such as investment rates of return and risk measures, compared to benchmarks) should be computed or at least verified by a third party, independent of those making the investment decisions within the program. These reports serve as one of the most important management tools available to those with oversight of the investment program.
- Informative and useful reports are designed to enable the oversight body to answer a set of key investment questions such as:
  - How does the performance of the investment program and its individual components compare to its objectives (usually expressed as a benchmark and a relative time period)?
  - Is the investment program generating appropriate risk-adjusted returns, compared to stated objectives, typically that of a benchmark?
  - What are the nature and magnitude of the risks incurred by the investment program and its components?
  - How does the type and degree of risk compare to its benchmark(s)?
- We believe that the following exhibits should be included in a typical and thorough institutional quarterly performance report as they will help the user evaluate and understand the performance and risk profile of the investment program:



- 1. Market Overview A general description of recent events that transpired in the capital markets is useful in that it provides insight regarding both the short and long-term performance of the various asset classes where a fund has made investments. Typical information included in these write-ups range from broad based index returns to economic statistics such as interest rates, GDP, employment data, and the current Federal Funds rate.
- 2. *Total Fund Summary Performance* The quarterly report should provide an exhibit summarizing the performance of the total fund against its policy index. Performance history should include both short, mid and long term performance.
- 3. Asset Allocation versus Policy Index These exhibits should document how the total fund's asset allocation has changed since the previous time period and how it compares to the fund's Policy Index. This type of exhibit is important to determine whether or not a fund is in compliance with its asset allocation policy and whether or not changes should be contemplated given recent market shifts.
- 4. *Breakdown of each Asset Class by Sub-Asset Class and Investment Manager* The quarterly report should include a page detailing the allocation to each asset class (and sub-asset class) by investment manager. This exhibit is helpful in determining which managers will have the largest impact on performance within their asset class as well as the overall distribution across managers within an asset class.
- 5. *Time Period Performance (Cumulative and Consecutive)* In order to maintain a thorough understanding of investment performance, it is important to review both cumulative (e.g., YTD, one, three, five, seven, 10 year) and consecutive (i.e., individual years or calendar years) time period performance for the total fund, each asset class and each investment manager compared to their respective benchmarks over shorter and longer time periods.
- 6. Universe Comparisons (Cumulative and Consecutive) Universe comparisons provide another tool in evaluating the performance of the total fund, an investment manager or an asset class. While the oversight body may primarily judge the manager against its performance benchmark, the addition of a peer universe ranking will inform the oversight body as to how well their current investment manager compares to other investment options for a particular sub-asset class. This is an important additional perspective since situations frequently arise where an investment product may outperform its benchmark but still lag its peers (who are measured versus the same strategic benchmark). Comparisons on a Total Fund basis can also be



useful for political and economic reasons despite the fact that the peer funds all have different asset allocations so it is not an "apples-to-apples" comparison.

- 7. *Style Analysis* Style based analysis can be helpful in determining what, if any, particular style bets have been taken in structuring the asset class level, such as tilting towards growth versus value and small cap stocks versus large cap for equity managers or short maturity versus long maturity and low credit quality versus high credit quality for fixed income managers. Style analysis for investment managers and asset classes should be presented on a quarterly basis and preferably over time to show style drift.
- 8. *Portfolio Characteristics* The quarterly report should include summary characteristics for each manager's portfolio and asset class (or sub-asset class) as compared to the benchmark. This exhibit should include metrics such as Price/Earnings, beta, dividend yield, average and median capitalization, number of holdings, best and worst performers for equity managers and duration, yield to maturity, time to maturity, average quality for fixed income managers. Receiving this information for each investment manager gives the oversight body more insight as to how their investment managers run their portfolios relative to an objective benchmark as well as how the portfolio is expected to react in certain environments.
- 9. *Risk and Return Analysis* It is important to evaluate performance on an absolute basis as well as a risk-adjusted basis, to ensure that the fund is following the prescribed investment policy and strategy of the oversight body. The quarterly report should show risk statistics (e.g., standard deviation) and risk-adjusted returns (e.g., the Sharpe ratio) for the total fund, asset classes, policy index and asset class benchmarks.

## **Observations**

• Callan generates four reports pertaining to the defined benefit plans on a regular basis: a higher-level summary performance presentation used for the in-person presentation at the Board meetings (the "Performance Presentation"), a more detailed performance report to the Board (the "Executive Summary"), an even more detailed supplementary report for ARMB staff (the "Staff Report"), and a report specific to the private equity program (the "Private Equity Report"). The Performance Presentation notes that PERS is the only fund shown and is used for illustrative purposes throughout the report. Callan also generates separate performance reports for the defined contribution plans and the deferred compensation plans.



- ARMB receives Callan's performance reports in electronic format approximately two weeks prior to their quarterly Board meeting. Based on our interviews, we were informed that ARMB is currently satisfied with this arrangement.
- In general, the quarterly performance reports prepared for ARMB are institutional quality and contain all of the essential information, such as performance, portfolio characteristics and risk statistics, which are important components for ongoing monitoring of the portfolio in accordance with best practices.
- IFS reviewed ARMB's quarterly performance reports and compared their contents to the industry's "best practices" of investment performance reporting as described above in the Background section. Set forth below is our evaluation and commentary regarding whether the ARMB performance reports meet those best practices.

## A. Callan – Defined Benefit Performance Reports

### <u>1. Market Overview</u>

- The Performance Presentation provided by Callan contains a comprehensive review of the overall financial environment. This exhibit spans several pages in the Performance Presentation and highlights areas such as asset class performance, sector performance, currency returns, GDP growth, and other data within the equity, fixed income, and real estate markets.
- Additional market commentary on each asset class is also provided in the Executive Summary. These exhibits go into more detail and delve into topics such as active versus passive management, large cap versus small cap, value versus growth, short versus long duration, and developed versus emerging markets.

### 2. Total Fund Summary Performance

• Total Fund performance can be found in the Performance Presentation as well as in the Executive Summary.



- The Performance Presentation displays Total Fund performance in the attribution reports and performance is shown for the prior three month, one year, five year, and seven year time periods.
- In the Executive Summary, Total Fund performance is found in the Investment Manager Returns exhibit in addition to the attribution reports. The attribution reports present performance for the prior three month, one year, three year, five year, seven year, and 18.5-year time periods (the date Callan was hired and began calculating performance). Not only is performance given at the individual plan level (e.g., PERS, TRS, etc.), but it is also rolled up and shown for all plans as a single number.

#### 3. Asset Allocation versus Policy Index

- The Performance Presentation and the Executive Summary both contain an exhibit showing the actual allocation versus the target allocation. These exhibits clearly show the percentages for both the actual portfolio and the policy portfolio, the difference in percentage points between the actual portfolio and the policy portfolio, and the difference in dollar amount between the actual portfolio.
- The Executive Summary has an additional exhibit that displays the historical asset allocation for the actual portfolio, the policy portfolio, and the average public fund sponsor as found in Callan's universe.

#### 4. Asset Class and Investment Manager Breakdown

• For a specific comparison of last quarter's asset allocation versus the current quarter's asset allocation of the actual portfolio, Callan has provided an exhibit called the Investment Manager Asset Allocation. This exhibit lists the percentage and dollar amount allocated to each investment manager and each asset class and is found in the Executive Summary. The same information is also provided at the total plan level and for all plans.

#### 5. Time Period Performance (Cumulative and Consecutive)

• The Investment Manager Returns exhibit found in the Executive Summary presents performance both on a cumulative and consecutive basis. Cumulative time periods include the prior quarter, fiscal year to date, and the one, three, five, seven, ten, and



18.5-year time periods. Consecutive time periods shown are fiscal year to date and the prior nine fiscal years ending June 30<sup>th</sup>. This exhibit shows performance for the total fund, each asset class, and the underlying managers. If performance history is less than five years, then consecutive performance is omitted which is in accordance with Callan's policy.

### 6. Universe Comparison (Cumulative and Consecutive)

• Universe comparisons can be found in the summary pages of the Executive Summary for each investment manager. We learned in our interviews that Callan's universe contains data from Callan's existing clients as well as from funds that are not a client of Callan. Callan collects universe information from outside funds by conducting surveys in addition to purchasing third-party data. Approximately 50% of the plan sponsors in the universe shown in the performance report are Callan's clients. The summary pages show universe comparison for both cumulative and consecutive time periods. Summary cumulative and consecutive performance is also shown for the Total Fund and each asset class in the Performance Presentation.

### 7. Style Analysis

- Style analysis was not shown in the Executive Summary report but was found in the Staff Report. There is an exhibit showing the current holdings-based style analysis and an exhibit showing historical holdings-based style analysis. These exhibits clearly do a good job at showing exposure based on capitalization (i.e., large, mid, small, and micro) and style (i.e., value, core, and growth). These two exhibits are available for each equity manager and the equity composites, which is appropriate.
- We understand that ARMB can request additional performance information from staff, if desired, but that the amount of detail already included in the Executive Summary precludes adding more exhibits.

### 8. Portfolio Characteristics & 9. Risk and Return Analysis

• Within each manager's summary pages in the Executive Summary we found portfolio characteristics and risk-return metrics. The portfolio characteristics shown are weighted median market cap, price/forecasted earnings ratio, price/book ratio, forecasted earnings growth, dividend yield, and the MSCI combined z-score. Not only are these characteristics given for the investment manager and the manager's benchmark, this exhibit also lists these characteristics for the peer universe.



- Risk-return metrics shown in the Executive Summary include, but are not limited to, alpha, information ratio, Sharpe ratio, and standard deviation. Additional risk metrics such as beta, tracking error, and downside risk are provided in the Staff Report. Similar to the portfolio characteristics exhibit, risk-return metrics are plotted in a graph against a peer universe.
- Both portfolio characteristics and risk-return statistics are shown for each asset class composite in addition to the underlying managers.

#### **Other Observations**

• We noted above that performance at the individual manager level is shown in the Executive Summary. However, we were unable to find an investment summary performance page for the TIPS portfolio, which is part of the real assets composite. Similarly, there is a summary page with investment returns for the REIT portfolio, but performance for the REIT program was not shown in the Investment Manager Returns exhibit. We recommend including the TIPS portfolio and the REIT portfolio in the Investment Manager Returns exhibit and we recommend showing an investment summary page for the TIPS portfolio.

### Task Area A.1.b. Recommendation 1

ARMB should request that Callan include the TIPS portfolio and the REIT portfolio in the Investment Manager Returns exhibit and provide an investment summary page for the TIPS portfolio.

• We also learned in our interviews, that some staff members would prefer to see more information regarding the ARMB's investments in timberland and farmland. We recommend that the CIO and ARMB staff work with Callan to determine how the reporting on timberland and farmland can be enhanced.

### Task Area A.1.b. Recommendation 2

The CIO and ARMB staff should work with Callan to determine how the reporting on timberland and farmland can be enhanced.



## **B.** Callan – Private Equity Performance Reports

- Performance for the total private equity program is reported quarterly on a time-weighted basis in the Executive Summary. In addition to this, Callan provides an annual review and update of the private equity program and the managers within the asset class (the "Private Equity Report") every December. Senior staff reported that ARMB is content with the frequency as well as the content of the private equity reports that they receive.
- We learned from our interviews that data at the individual fund level is withheld from the Board reports because of issues that might arise from Freedom of Information Act requests and public disclosure of private investments. However, if ARMB wanted to see more detail on one of the managers or one of the limited partnerships, staff has the capability to provide that information.
- Staff and Callan also informed us that the annual Private Equity Report is intended to be more of an overview than an in-depth look at the private equity portfolio. As noted above, staff has access to and can produce more detail on the individual managers and the total program should ARMB request additional information. Given the stated goal of this report, we note that ARMB receives slightly less information when compared to other funds with similarly sized private equity programs.
- The Private Equity Report starts by reviewing the asset class at a high level in terms of how private equity works. The Report outlines the various strategies associated with private equity investing, how partnerships are typically structured, and the average timeline associated with a private equity investment. The next section in the Report is an overview of ARMB's private equity portfolio, which is a one page exhibit with data points on the total private equity program. The next section contains market conditions, and the last section details performance.
- In accordance with best practices, performance shown in the Private Equity Report is on an internal rate of return (IRR) basis (as opposed to the time-weighted performance found in the Executive Summary). The performance exhibits shown in the Report summarize performance for the two separate account managers and contain the elements that we would expect to find such as committed capital, paid-in capital, total distributions, IRR, and various private equity multiples.



• We note that IRRs are only shown at the separate account manager level (i.e., for Abbott and Pathway) but not at the total fund level. However, we understand that staff is exploring ways of displaying an IRR for the entire private equity program, and we encourage staff in their efforts to do so. This will become more important as the internally managed portfolio grows and matures.

### Task Area A.1.b. Recommendation 3

ARMB should continue to work with Callan to show an IRR for the private equity program as a whole.

- The Private Equity Report shows internal rates of return shown for each manager by vintage year, however, it does not include an exhibit, typically found in other private equity reports, that breaks down performance by strategy (e.g., Buyouts, Venture Capital, Mezzanine, etc.). The report does have strategy returns for the private equity industry, but not for the ARMB's managers.
- Additionally, there is an exhibit that clearly shows how the overall portfolio is diversified by strategy, but in our experience, private equity reports also typically show how the portfolio is diversified by geography and industry. We recognize that this may be more information than the Board would like to see, but we believe ARMB would benefit from seeing performance for each separate strategy, at a minimum, and they should ask Callan to regularly provide this information in the Private Equity Report.

### Task Area A.1.b. Recommendation 4

ARMB should ask Callan to provide performance for the private equity program by strategy (e.g., Buyouts, Venture Capital, Mezzanine, etc.) and to show portfolio diversification by geography and industry.

• Overall, we find the Private Equity Report to be satisfactory given the amount of time ARMB currently devotes to reviewing the total portfolio, and it contains the majority of relevant data typically found in comparable reports.



### C. Callan – Defined Contribution Performance Reports

- IFS also reviewed Callan's performance reports for ARMB's defined contribution plans (the "DC Report") and determined that they contain the majority of elements found in a typical performance report for a defined contribution plan. We noted that the Police & Fire Occupational Death and Disability defined contribution plan was missing from some of the exhibits, but Callan notified us that these exhibits will include data for this plan going forward. The Board should make a note to expect to this.
- The DC Report shows the actual asset allocation, both by dollar amount and percentage, for each of the seven defined contribution plans. Additionally, there is an exhibit which shows the actual asset allocation, by dollar amount and percentage, for each of the underlying funds. This exhibit contrasts the distribution of assets by fund in the current quarter versus the distribution of assets by fund in the prior quarter.
- Callan shows performance at the total fund level and at the individual fund level over cumulative time periods. The time periods shown are as of the most recent quarter, fiscal year to date, most recent year, last three years, and last three and a half years. These are appropriate time periods given the inception date of the defined contribution program. As the defined contribution program matures, longer-time periods and consecutive returns should also be shown.
- The last exhibit in the DC Report is a profile or summary sheet for each fund. The summary sheet lists the investment philosophy of the fund, quarterly summary and highlights for the fund, cumulative performance versus the fund's benchmark and peer universe, relative returns versus the fund's benchmark on a quarterly basis, and cumulative returns versus the fund's benchmark since inception.
- While the DC Report is complete pertaining to performance, we believe that an additional item could be included which would provide ARMB with helpful information with which to evaluate each individual fund. One of the conclusions in a recent Morningstar article<sup>1</sup> is that "[i]nvestors should make expense ratios a primary test in fund selection. They are still the most dependable predictor of performance." We agree with Morningstar's conclusion and believe that the DC Report should include

<sup>&</sup>lt;sup>1</sup> http://news.morningstar.com/articlenet/article.aspx?id=347327



expense ratios for each fund. Given that the funds in the DC Plan are not mutual funds, comparing fees to a category average may not be a valid comparison. However, showing the total fee can help in the comparison between two funds with similar mandates (e.g., the S&P 500 Index Fund versus the Russell 3000 Index Fund). Ideally, both the level and types of fees should be shown for each fund, but at a minimum, we recommend showing the total fee for each fund.

### Task Area A.1.b. Recommendation 5

ARMB should ask Callan to display the total fee for each fund shown in the defined contribution report.

### D. Townsend Performance Reports

- The Townsend Group generates performance reports for real estate on a quarterly basis in addition to an annual report to the Board. Staff reported that ARMB is satisfied with the content and frequency of the real estate reports.
- The quarterly reports contain performance and a variety of characteristics on the ARMB's public and private real estate investments. The first exhibit (Portfolio Composition) is an executive summary of the real estate program and shows data such as performance of the portfolio against various real estate indexes, diversification by style, contribution by style, current market value and the amount of unfunded commitments. ARMB has a target allocation to real estate of 10% of total plan assets. The actual allocation versus the target allocation is also displayed in this exhibit.
- The next three exhibits provide more detail for the sub-asset classes and the underlying funds, and data is clearly shown in a tabular format for each fund, the core portfolio, the non-core portfolio, the internally managed REIT portfolio, and the total real estate portfolio.
- Performance is shown in the first exhibit. Returns are decomposed into return from income and appreciation for the quarter and one year time period, and returns are also shown gross of fees and net of fees over the one quarter, one year, three year, five year and since inception time periods. We recommend that performance over longer periods should be shown for the Individually Managed Accounts (IMAs) with a track record longer than five years. Additionally, the inception date for each IMA should be



provided. Presenting the income and appreciation components in addition to the total return figure is in conformance with the GIPS standards.

## Task Area A.1.b. Recommendations 6-7

ARMB should ask Townsend to show the inception date for the IMAs.

ARMB should ask Townsend to show annualized performance for a time period greater than five years (e.g., seven or 10 years) for the IMAs, where applicable.

• Presenting performance as an IRR is not a requirement of the GIPS standards, but it is a common practice in the industry. Both Townsend and ARMB staff calculate IRRs for the real estate portfolios, but performance in the quarterly Townsend report is given only as a time-weighted rate of return. The annual report does report some IRRs but only for the Non-Core Portfolio individual fund investments. We recommend that ARMB ask Townsend to show performance as an IRR in addition to time-weighted returns.

## Task Area A.1.b. Recommendation 8

ARMB should ask Townsend to show performance for the IMAs as an internal rate of return (IRR) in addition to time-weighted returns.

• The next exhibit (Property Diversification) in the quarterly report shows diversification by geography and by property type. These are metrics that we typically see in other real estate reports and are an effective way of observing if the portfolio or a manager is concentrated in any particular part of the country or real estate sector. However, ARMB may want to see the same set of data for the benchmarks. Additionally, ARMB may also want to see further diversification for funds with international exposure by showing allocation to country.



### Task Area A.1.b. Recommendations 9-10

ARMB should consider asking Townsend to show the country allocation for those managers with properties located internationally.

ARMB should consider asking Townsend to show property diversification and geographic diversification for the real estate benchmarks (i.e., NCREIF Property Index and FTSE NAREIT Index).

• The last exhibit summarizes data related to cash flows. The beginning and ending market values are listed as well as contributions, distributions, withdrawals, fees, and other relevant data. In addition to showing the allocation to each fund by dollar amount, in our experience the allocation to each fund by percentage is typically shown. This allows the reader to see which fund(s) will have the largest impact on the portfolio, and we recommend ARMB consider adding this to the report.

### Task Area A.1.b. Recommendation 11

ARMB should consider asking Townsend to show the allocation to each fund (as well as the subportfolios and total portfolio) by percentage.

- The annual performance report has an executive summary and a portfolio overview as its first two exhibits. The portfolio overview contains some of the same exhibits found in the quarterly reports as well as additional pages on performance objectives and strategic objectives. These first two exhibits are at a high level and summarize the overall real estate program.
- The next three sections of the report drill down into the core, non-core and internally managed REIT portfolios and show performance and universe comparisons for similar funds. The last section provides a snapshot of the separately managed accounts, and the last exhibit is an overview of the real estate market, which is attached as an appendix to the presentation.
- As a whole, we believe the Real Estate reports to be comprehensive and are in line with common practices in the industry.



# Task Area A.2. Investment Performance Benchmarks

# Background

- Performance benchmarks are objective standards used to assist in evaluating a manager or fund's investment performance. A good benchmark should have the following characteristics:
  - o act as a representative opportunity set;
  - o be transparent;
  - be objective;
  - o be exhaustive; and
  - o be composed of investable securities or assets.
- Institutional investors typically use at least two types of performance benchmarks: "policy" benchmarks and "strategic" benchmarks.
  - Policy benchmarks should represent the broad asset class and are used as a reference point against which the investor can compare its total asset class returns. Published market indices are weighted to create a Policy Index that matches the Fund's long-term target asset allocation and the weights remain fixed over time, e.g., a fund with an asset allocation of 60% domestic stocks and 40% domestic bonds may adopt a policy index of 60% Russell 3000 Index and 40% Barclays Aggregate Bond Index. Policy benchmarks also help define the types of investment managers that should be used to achieve the investment



objectives for the asset class and the nature of the manager's investment mandate. The Policy Index serves as an objective measure of total fund performance.

- Strategic benchmarks are generally more narrowly defined and typically focus on a particular investment "style" within the asset class. They more clearly describe the expected range of investment opportunities for a given manager and more objectively measure the manager's value added, or the manager's return independent of its investment style.
  - For example, an investor setting a strategic benchmark for a domestic equity investment manager that seeks to purchase large capitalization stocks that it believes will grow their earnings above the average rate relative to the market (a "large cap growth" manager) may select a large cap growth benchmark such as the Russell 1000 Growth Index as an appropriate strategic benchmark.
  - Therefore, the manager's excess return above the "comparable style" strategic benchmark is generally due to its active decisions as opposed to its investment style being "in favor" relative to a style-neutral strategic benchmark.
- Many funds also (as a matter of policy) establish an "Asset Allocation" index. This is constructed using published market benchmarks. In contrast to the Policy Index, the Asset Allocation Index's asset class weights change to reflect the actual asset allocation of the fund as it "drifts" or as tactical decisions are made to overweight or underweight an asset class. Therefore, this benchmark adjusts for the asset allocation drift over time. A fund's excess or under-performance versus the Asset Allocation Index is mainly attributable to the performance of the underlying investment managers (internal or external).
- Providing appropriate benchmarks for investors is essential for them to make informed investment decisions and to evaluate performance. The risk of using an inappropriate benchmark is that the investor may not receive an accurate and appropriate measurement with which to compare its investment performance and/or volatility.



## **Observations**

### 1. Defined Benefit Plans

## A. Total Fund

- The asset class policy benchmarks and the Policy Index for a total fund would typically be documented in a fund's Investment Policy Statement. Since there is not a "total fund" investment policy statement (see discussion in Section B. below), the policy benchmark for the total fund for all plans except the Military Retirement Plan, as found in Callan's March 31, 2010 performance report, is as follows (may not add to 100% due to rounding):
  - o 30.0% Russell 3000 Index;
  - 22.0% MSCI ACWI ex-US Index;
  - o 14.0% Barclays US Aggregate Index;
  - 9.6% NCREIF Total Index;
  - 5.0% 3-Month Treasury Bill plus 5.0%;
  - o 3.2% Barclays US TIPS Index;
  - 2.3% MSCI EAFE Index<sup>\*</sup>;

<sup>\*</sup>Represents an equally-weighted portion of the private equity policy index.



- 2.3% S&P 500 Index<sup>\*</sup>;
- 2.3% Russell 2000 Index<sup>\*</sup>;
- 2.0% Barclays Capital Treasury Index;
- 2.0% Citigroup World Government Bond non-US Index;
- o 2.0% Merrill Lynch High Yield II Constrained Index;
- 1.6% NCREIF Farmland Index; and
- 1.6% NCREIF Timber Index.
- We note that as of July 1, 2010, the Barclays Intermediate Treasury Index has replaced the Barclays Aggregate Index, which reflects the Fixed Income portfolio's move from a broad-based fixed income mandate to a Treasury mandate. In our interviews, we were informed that the total fund policy index will reflect this change.
- We were also informed that the "NCREIF Total Index" represents the real estate portfolio's custom benchmark of 90% NCREIF Property Index and 10% NAREIT Index.
- The policy benchmark for the Military Retirement Plan, as found in Callan's March 31, 2010 performance report, is as follows:
  - 27.0% Russell 3000 Index;



<sup>&</sup>lt;sup>\*</sup>Represents an equally-weighted portion of the private equity policy index.

- 15.0% MSCI ACWI ex-US Index;
- 40.6% Barclays US Aggregate Index;
- 5.8% Barclays Treasury Index;
- 5.8% Citigroup World Government Bond non-US Index; and
- 5.8% Merrill Lynch High Yield II Index.
- The policy indexes for all ARMB defined benefit plans use published market indexes and are in line with their respective longterm target asset allocation. Therefore we find the total fund policy indexes to be reasonable. However, as the asset allocation policy changes over time, the policy benchmark should be updated to reflect those changes. For example, as participants retire and exit the legacy defined benefit plans due to state law, which may cause a change in the plans' liquidity requirements, then the policy benchmark would need to be updated accordingly.
- As mentioned above, some institutional funds use an Asset Allocation index as an additional way to measure the total fund's ability to capture outperformance by the underlying investment managers. The Asset Allocation index would consist of the same indexes found in the policy benchmark, but instead of measuring performance using the static, target weights, the index would use the actual asset allocation of the fund for each asset and sub-asset class. Instead of using an Asset Allocation index, the performance reports prepared by Callan show the attribution effects (i.e., impact of stock selection and overweighting/ underweighting of asset classes) for the total fund. While not identical to an Asset Allocation index, we believe that showing performance attribution is an acceptable substitute.

## **B.** Domestic Equity

• As noted above, asset class policy benchmarks are typically found in the fund's Investment Policy Statement. Since there is no total fund investment policy statement, the benchmark for the domestic equity pool, as shown in Callan's Executive Summary, is the Russell 3000 Index, and the benchmarks for the large cap and small cap sub-asset classes are the S&P 500 Index and the



Russell 2000 Index, respectively. The Russell 3000 Index covers approximately 98% of the US equity investable universe and is an appropriate benchmark for the domestic equity asset class. The Russell 2000 Index and the S&P 500 Index are one measure of performance for the small cap segment and large cap segment of the US equity universe. These respective indexes are also appropriate benchmarks for the large cap equity pool and small cap equity pool.

- SSgA passively manages a mega cap, large cap growth, large cap value, small cap growth, and small cap value portfolio. The benchmarks for these portfolios are the Russell 200 Index, the Russell 1000 Growth Index, the Russell 1000 Value Index, the Russell 2000 Growth Index, and the Russell 2000 Value Index, respectively. These benchmarks are appropriate given SSgA's mandate.
- ARMB uses the Russell 2000 Index to measure performance for its three active small cap core managers: Luther King, Jennison, and Lord Abbett. We find this to be a common practice within the industry.
- QMA and BHMS run two actively managed large cap value portfolios, which are measured against the Russell 1000 value index. This benchmark is also appropriate given the managers' style.
- The ARMB's two large cap growth managers are RCM and McKinley. The benchmark for these managers, as found in their contracts, is the S&P 500 Index and the Russell 1000 Index, respectively. However, the performance reports prepared by Callan include the Russell 1000 Growth Index as an additional style benchmark in their exhibits for these managers. We learned in our interviews that staff is working to change RCM and McKinley's benchmark to a growth-oriented index (e.g., the S&P 500 Growth Index or the Russell 1000 Growth Index). Given that the S&P 500 Index and Russell 1000 Index are typically used to measure performance for large cap core managers, IFS concurs with staff in their effort to update the benchmarks for RCM and McKinley.
- Callan's performance report also lists two large cap core managers: Relational Investors and Lazard. We were informed in our interviews that Lazard is managing a global portfolio (i.e., a domestic and international equity portfolio), but the domestic equity portion of their portfolio is isolated and measured against domestic equity index for performance measurement (and asset allocation) purposes. The benchmark used for both Relational Investors and Lazard is the S&P 500 Index, which is reasonable for these managers.



## C. International Equity

- The total international equity pool uses the MSCI All Country World Ex-US Index (ACWI) as its benchmark. The use of the MSCI ACWI Ex-US Index as a policy index for the total international equity pool is reasonable given the current manager lineup. This benchmark includes both developed and emerging markets equities. Based on our experience, the majority of funds use the MSCI ACWI Ex-US Index or the MSCI Europe, Australasia, and Far East Index (EAFE) as their international equity segment benchmark depending on the structure of the portfolio in question.
- Within the total international equity pool are two sub-asset classes: international markets (i.e., developed markets) and emerging markets. The emerging market pool and its component managers are benchmarked against the MSCI Emerging Markets Index and the international equity sub-asset class uses the MSCI EAFE Index as its benchmark, which is a reasonable practice.
- Five managers comprise the international equity sub-asset class: Lazard, Brandes, Capital Guardian, McKinley, and SSgA. SSgA manages a MSCI ACWI ex-US IMI index fund and is appropriately benchmarked against the MSCI ACWI ex-US IMI Index. The remaining managers are actively managed accounts and are benchmarked against the MSCI EAFE Index.
- As mentioned above, Lazard manages a global portfolio and Callan separates out the international equity portion of their portfolio for performance reporting purposes. This portion of their portfolio is measured against the MSCI EAFE Index, but their entire portfolio is measured against the MSCI World Index. We were informed that at the September 2010 Board meeting, the trustees approved changing the overall benchmark to the MSCI ACWI ex-US Index. We find both indexes (MSCI EAFE and MSCI ACWI ex-US) to be acceptable benchmarks.
- Based on the information provided in Callan's Staff Report, McKinley's exposure to emerging markets as of 3/31/2010 was 28.5% and has consistently been above 20% over the past two years. As of 3/31/2010, the MSCI ACWI ex-US Index contained 22.6% emerging market equities and 77.4% developed market equities, which may make it a more relevant benchmark for comparison of McKinley's performance. During our interviews we were informed that staff has held discussions internally about switching the benchmark from the MSCI EAFE Index to the MSCI ACWI ex-US Growth Index or EAFE Growth Index for



McKinley. Given McKinley's disposition to hold a significant amount of equities from emerging market countries, ARMB should consider adding the MSCI ACWI Ex-US Growth Index as a strategic policy benchmark or making it the primary benchmark.

Task Area A.2. Recommendation 1

ARMB should consider adding MSCI ACWI ex-US Growth Index as a strategic policy benchmark or making it the primary benchmark for McKinley's international portfolio.

## D. Fixed Income

- The benchmark for the total fixed income pool is 80% Barclays Intermediate Treasury Index, 10% Citigroup World Government Bond non-US Index, and 10% Merrill Lynch High Yield II Constrained Index. This is a suitable composite benchmark given the makeup of managers found within the fixed income pool.
- There are four externally managed fixed income portfolios and three internally managed portfolios within the fixed income composite. The four external fixed income managers are MacKay Shields, Rogge Global Partners, Mondrian, and Lazard. As of the time of our review, there were two portfolios internally managed by ARMB staff: an intermediate treasury mandate and an inflation-linked mandate (the Core Domestic Fixed Income portfolio has been transitioned into the Intermediate Treasury portfolio). The respective benchmarks for the internally managed portfolios are the Barclays Treasury Index and the Barclays US TIPS Index, which we believe are reasonable.
- MacKay Shields and Rogge Global Partners are two High Yield fixed income managers. The benchmark for these two managers, as found in their contracts, is the Merrill Lynch High Yield II Index.
- Advent Capital is the ARMB's sole Convertible fixed income manager, and its benchmark is the Merrill Lynch Convertibles Yield Alternative Index. It is not treated as part of the fixed income composite.
- Mondrian uses the Citigroup World Government Bond non-US Index as its benchmark, and the Lazard Emerging Income portfolio is benchmarked against 3-Month LIBOR plus 4.0%. Based on our experience, these are acceptable benchmarks.



## E. Real Assets

- The real asset composite is comprised of real estate managers, farmland investments, timberland investments, TIPS and energy investments.
- As documented in the Real Estate Policy, the benchmark for the real estate pool is 90% NCREIF Property Index and 10% FTSE NAREIT Equity Index. This is reasonable given that the majority of the portfolio is private real estate and a small portion of the portfolio is dedicated to REITs.
- As for the real estate managers, the closed-end fund managers have a benchmark of a net internal rate of return target (e.g., 15% net IRR target), and the contract benchmark for the open-end fund managers and separate account managers is the NCREIF Property Index (NPI) or the NCREIF Open-End Diversified Core (ODCE) Index. Townsend informed us that there have been discussions about switching the core managers' benchmark from the NPI to the NCREIF ODCE Index. The Property Index is an acceptable benchmark, but IFS concurs with Townsend in their exploration of replacing the Property Index with the ODCE Index for commingled core managers. In contrast to the NPI, the ODCE Index measures the effect of leverage, cash, and management fees and may provide a better comparison for core real estate funds. ARMB real estate separate accounts currently do not use leverage however, and it may be appropriate to continue to use the NCREIF Property Index as their benchmark.
- ARMB internally manages a small REIT portfolio, and the benchmark for this portfolio is the FTSE NAREIT Equity Index. We find this to be a suitable benchmark.
- The Timberland separate account managers are appropriately benchmarked against the NCREIF Timberland Index.
- The Farmland separate account managers are also appropriately benchmarked against a custom NCREIF benchmark of farmland properties (80% row properties, 20% permanent properties) given the structure of the farmland portfolio. While it is part of the real assets composite benchmark, the farmland benchmark is not separately reported in the performance reports. See recommendation A.1.b.2. above, regarding enhancing the performance reporting for farmland investments.



- The return objective for the real asset program as a whole is a 5.0% real return over a five year time period, but the policy index for the composite is 60% NCREIF Property Index, 20% Barclays US TIPS Index, 10% NCREIF Farmland Index, and 10% Timberland Index. Because the real estate policy index includes the FTSE NAREIT Equity Index, we recommend including that index into the real asset policy index (e.g. 54% NCREIF Property Index, 6% FTSE NAREIT, 20% Barclays US TIPS Index, 10% NCREIF Farmland Index, and 10% Timberland Index, and 10% Timberland Index, and 10% Timberland Index.
- We understand that the energy investments are part of the real assets portfolio and commentary, although the Alternatives Assets investment officers have historically monitored the energy fund manager. However, energy investments do not appear to be covered by any particular policy and are not designated a specific benchmark in policy. The other segments of real assets (Real Estate, Timberland and Farmland) have their own policy statements. Energy should either be included in one of the existing policies/guidelines or a separate policy should be developed.

### Task Area A.2. Recommendations 2-3

ARMB should consider adding the FTSE NAREIT Equity Index to the real asset benchmark.

ARMB should ensure that Energy investments, including the designation of their benchmark and their inclusion in the Real Assets portfolio, are covered by Policy.

## F. Alternative Assets

- Private equity and absolute return are the two main components of the alternative assets pool. As of the date IFS conducted interviews, there were five absolute return investment managers and two private equity separate account investment managers. Some private equity is also managed internally. Corporate governance investments are also grouped in with the private equity investments.
- The long-term policy benchmark for the private equity pool and its underlying managers is the Russell 3000 Index plus 3.5% over a ten year period (per the Private Equity Policy). However, for shorter-term attribution and reporting purposes, Callan uses a custom benchmark of 33% S&P 500 Index, 33% Russell 2000 Index, and 33% MSCI EAFE Index. In our experience, using a broad equity index such as the Russell 3000 Index plus a premium is a typical policy benchmark for private equity.



• The benchmark for the absolute return composite and its underlying managers is the return on the 91-day T-Bill + 5.0%. We also find using cash plus a premium to be a common benchmark practice for these types of strategies.

## 2. Defined Contribution Plans

- Participants in the defined contribution plans can choose among 31 options in eight different asset classes. The asset classes include Money Market, Stable Value, Domestic Fixed Income, International Fixed Income, Domestic Equity, International Equity, Balanced Funds, and Target Date Funds.
- All of the passively managed funds are benchmarked to the appropriate index (e.g., SSgA Russell 3000 Index fund versus the Russell 3000 Index). The Money Market funds and Stable Value funds have a benchmark of the 90-Day T-Bill or the Citigroup 3-Month T-Bill, which are reasonable, and the remaining actively managed funds also appear to have appropriate benchmarks given the fund's description. The Balanced funds and Target Date funds have custom benchmarks, which reflect each fund's exposure to a diversified mix of stocks, bonds, and money market securities. We concur with the selection of these benchmarks.
- However, one of the funds, the RCM Socially Responsible Investment Fund, has a contractual benchmark of the S&P 500 Index. We believe that this is an acceptable benchmark, but there may be an additional benchmark which would be more reflective of that Fund's style. During our interviews we learned that the RCM Fund is based on one of the indexes provided by KLD. KLD is one of a handful of organizations that creates socially responsible investment indexes based on certain financial, social, and environmental characteristics of the underlying companies. ARMB should consider adding the KLD index on which the Fund is based as a strategic benchmark.

### Task Area A.2. Recommendation 4

ARMB should consider adding the KLD index on which the RCM Socially Responsible Investment Fund is based as a strategic benchmark.



# Task Area B. Investment Policies

# **General Background**

- The Investment Policy Statement ("IPS") is an industry standard foundational document covering the total fund investment program.
- The purpose of an IPS is to articulate the consensus view of the oversight body regarding the overall investment program and to document policies and procedures regarding major issues, including:
  - The fund's mission and purpose;
  - The fund's investment objectives;
  - The fund's risk tolerance, including liquidity needs;
  - The roles and responsibilities of the various key parties, e.g., Board or Committee, staff, investment consultants, investment managers and other service providers;
  - The asset allocation policy, including the rebalancing process;
  - Standards and measures of investment performance for each asset class and the fund as a whole;
  - Process/policy for manager search and selection;



- Broad total fund and asset class investment guidelines, including allowable and prohibited investments;
- Other pertinent polices, such as proxy voting, securities lending, etc.; and
- The process for periodic review of the IPS.
- The process of adopting or revising an IPS is a form of self-discipline for the governing body; the process forces that body to articulate its views and develop procedures for the most fundamental aspects of its investment program.

# **General Observations**

- Although ARMB does not have a "Total Fund" IPS, as described above, it does have a series of investment policies and guidelines (the focus of our review) that include many of the elements that would otherwise be included in an IPS (listed above). These guidelines and policies are adopted individually by ARMB in the form of Board resolutions.
- However, certain of the elements we list above are not included in any of the existing policies, e.g., a description of the Board's risk tolerance, discussion on fund liquidity needs, and total fund investment objectives, while other elements are included in some of the asset class policies/guidelines, but not all, e.g., performance standards at the asset class level, roles and responsibilities of the various parties, reporting and communication requirements. Adopting a total fund IPS that addresses these high level issues would be a good addition to ARMB's group of policies.
- In our discussions with staff we learned that many of the various policies are reviewed annually, as part of the asset class or other review (and an annual review is required by some of the policies, but not all), but it should be a requirement to review every policy annually to determine whether changes are necessary. ARMB could devise a schedule according to which the policies would be reviewed.
- Overall, however, it appears from our review and our interviews that the policies are generally in sync with the ARMB's goals and risk tolerance.



### **Task Area B Recommendations 1-2**

ARMB should develop, with assistance from staff and its general consultant, a total fund IPS that supplements the individual asset class policies and addresses total fund elements such as the Board's risk tolerance, overall roles and responsibilities and other important elements listed in our Report.

ARMB should require a review of all ARMB investment policies annually to determine whether any changes are necessary.

### 1. Publicly Traded Asset Classes

# Background

- Pension fund "best practices" generally indicate that to manage investment risk properly at the individual manager level separate customized investment guidelines should be developed and provided to each investment manager (whether internal or external). These documents should be tailored and agreed upon by the manager and the investment fiduciary (typically the Board or staff to whom they have delegated this function).
  - Guidelines are essential for monitoring, measuring and analyzing portfolio performance, risk, and structure relative to the objectives.
  - Guidelines should define the style of investment management employed by the manager and identify specific metrics (such as performance expectations as well as other portfolio characteristics) by which the fiduciaries can determine whether the manager is complying. Equity and fixed income guidelines should generally include:
    - Investment strategy of the portfolio;



- Investment objectives, including the style specific performance benchmark and other expectations regarding performance (e.g., perform in the XX percentile of a designated universe);
- Limits on the amount that any manager can hold of the securities of a single corporate issuer (typically 5% for other than activist investors);
- Limits on the percentage portfolio weight in any one security (again, other than for activist investors);
- A requirement that the portfolio's holdings within industry sectors be limited to an amount specified in writing, pursuant to a system of industry classification to be agreed upon between the fund and each equity manager;
- Expectations regarding certain portfolio characteristics (e.g., capitalization);
- Maximum amount allowed in cash and/or whether the manager can equitize cash;
- Whether, and the extent to which, hedging is allowed in non-U.S. or global portfolios;
- Prohibitions on use of certain securities, such as certain types of derivatives;
- Prohibitions on margin transactions or any borrowing of money;
- Any trading directions, including requirement for best execution;
- Fiduciary standard of care;
- Proxy voting directions (e.g., whether the investment manager should vote them, reporting requirements, etc.);
- Action required for breach of guidelines;



- Requirement to maintain fiduciary liability insurance (often in the contract); and
- Communication and reporting requirements (including requirement to report organizational changes at the firm or material changes in investment philosophy or strategy).

# Observations

### a. Equity Guidelines (Domestic and International)

- Investment guidelines for Domestic and International Equities ("Equity Guidelines") are covered by Resolution 2010-02, which shows that this policy was last updated in February 2010. Staff informed IFS that the only recent change was to allow managers to own delisted and/or deregistered securities that are held as a result of a corporate action and not a direct purchase. This change is reasonable in our opinion.
- The Equity Guidelines are broad and apply to all U.S. and non-U.S. public equity managers. This compares to the fixed income group of guidelines, discussed below in sub-section b., where there are separate policies for various fixed income strategies.
- No benchmark is specified in policy for the domestic or international equity asset classes or sub-asset classes.
  - We understand that style specific benchmarks are delineated in a manager's contract.
- Section E of the Equity Guidelines allows managers to purchase certificates of deposit, corporate debt and other fixed income type securities, in addition to the allowable cash.
  - In our experience, it is unusual to allow all equity managers to buy fixed income securities, especially with no limits. Generally, equity managers are hired with the expectation that they will be fully invested in equity securities.



- Staff informed us that this provision was likely a residual of an older investment structure and is mostly to allow purchase of convertibles. Additionally, staff reported that public equity managers rarely buy fixed income securities.
- Staff informed IFS that manager specific expectations and requirements, e.g., the manager's benchmark, portfolio restrictions or characteristic expectations, are delineated in an individual manager's contract.
  - Staff also stated that their goal is to not repeat information that is contained in the manager's contract, but to make reference to the guidelines in the contract. This goal has not always been the case; rather, it is the plan going forward so that fewer documents would need to be changed with policy changes.
  - In IFS' report of 2003, we recommended developing individual investment manager guidelines.
- At a minimum, we believe that it makes sense to break out sections within the Equity Guidelines based on capitalization and region (e.g., US, developed markets, emerging markets). Certain guideline provisions apply only to a subset of managers, e.g., cash levels are different for different managers. Also for example, the commission recapture program is intended to apply solely/primarily to large cap domestic managers.
- We were informed by staff that communication and reporting requirements are outlined in the manager contracts.

### Task Area B.1 Recommendations 1-3

ARMB should identify asset class and sub-asset class (if appropriate) level benchmarks in the Investment Guidelines for Domestic and International Equities.

ARMB should modify the Investment Guidelines for Domestic and International Equities to remove managers' ability to invest in fixed income securities. As appropriate, this provision could reside in either the manager's contract or individual guidelines.

ARMB should consider adopting customized investment manager guidelines for each investment manager – or at a minimum, create separate guidelines for domestic versus international equity, and consider breaking down further into capitalization and market segment (e.g., developed



### Task Area B.1 Recommendations 1-3

versus emerging markets) with portfolio requirements/restrictions that are more tailored by strategy.

### b. Fixed Income Guidelines

- Guidelines for each fixed income strategy are covered by a distinct and separate set of investment guidelines. The fixed income guidelines we reviewed included the following. We did not review the Enhanced Cash Guidelines as they were not implemented at the date of our review.
  - Domestic Fixed Income Guidelines;
  - Inflation Indexed Fixed Income Guidelines;
  - High Yield Fixed Income Guidelines;
  - International Fixed Income Guidelines;
  - Intermediate US Treasury Fixed Income Guidelines; and
  - Convertible Fixed Income Investment Guidelines.
- Similar to the situation with public equities, the fixed income guidelines are not tailored to each investment manager. However, the guidelines are more detailed than for equities and apply at the fixed income strategy level (e.g., High Yield or International Fixed Income). They are applicable to both assets managed by internal staff and by external managers.
- Most of the fixed income investment guidelines do not contain a benchmark or specify minimum portfolio characteristics relative to a benchmark. Staff informed us that this information typically is included in a separate investment management contract.



- International and High Yield fixed income are managed using external managers (convertibles are also managed externally if you consider this strategy fixed income). All other fixed income strategies are managed in house by staff.
- Overall at a high level, the fixed income guidelines are adequate and do not require urgent revision. However, there are areas where the guidelines may be enhanced. The following pages outline observations where more clarification is desirable and also contains specific recommendations for enhancement of the fixed income guidelines.

#### **Domestic Fixed Income Guidelines**

- Staff informed us that this internally managed portfolio is currently in a wind down phase, and assets formerly governed by these guidelines will now be governed by the existing Intermediate US Treasury Fixed Income Guidelines.
- We focus our comments in the Intermediate US Treasury Fixed Income Guidelines section.

#### Intermediate U.S. Treasury Fixed Income Guidelines

- The Intermediate U.S. Treasury Investment Guidelines ("Treasury Guidelines") are covered by Resolution 2010-03 and were adopted in February 2010.
- The Treasury Guidelines do not allow the use of options or futures, although they do permit the use of other derivatives, e.g., total return swaps referenced to components or sub-components of fixed income indices.
  - Staff informed us that in practice, total return swaps are not used. These swaps were written into the guidelines as a way to facilitate a potential transaction involving commercial mortgage backed securities that never materialized.
- The Treasury Guidelines include appropriate limitations on duration (+/- 20%) versus the Barclays Capital US Treasury Intermediate Index. The Treasury Guidelines prohibit the use of futures. Some investment managers utilize futures as a way to manage duration exposures. The Guidelines also include restrictions on investing in securities that are not full faith and credit



obligations of the U.S. Government as well as restrictions on the percentage of the portfolio that may be invested in securities that are not nominal, coupon-paying United States Treasury obligations at the time of purchase. In addition, the Guidelines restrict non-Treasury holdings to investment grade securities.

- Permitted investments and limitations on portfolio holdings appear reasonable.
- At the present time, these particular guidelines cover assets managed by only internal investment staff, rather than an external investment manager. Internally managed assets do not have a separate investment management contract that outlines specific characteristics and requirements of the investment manager. Thus, these important details should be captured within the investment guidelines for all strategies that are fully or partially managed by internal staff.
  - Guidelines for internally managed portfolios should include detailed information regarding target return and volatility, time horizon for performance measurement versus peers and benchmark.
  - Guidelines for internally managed portfolios should also determine a suitable benchmark, minimum acceptable portfolio characteristics, as well as reporting and monitoring requirements,

#### International Fixed Income Guidelines

- The Investment Guidelines for International Fixed Income ("International Fixed Income Guidelines") are covered by Resolution 2006-23 and were adopted in August 2006.
- The International Fixed Income Guidelines do not specifically address sovereign debt securities in term of maximum exposure or credit rating.
- These guidelines allow the manager to hedge foreign currency exposure directly back to the U.S. Dollar, although they do not specify what instruments are allowed for this purpose.
- The International Fixed Income Guidelines do not allow the managers to hold a net short position in any foreign currency.



- Many (but not all) international fixed income strategies incorporate directional or relative value currency trades as an alpha source.
- The guidelines do not list permissible currency exposure in the portfolio.
  - This appears to be outlined in the investment management contract, which is referenced as Appendix E.
- The International Fixed Income Guidelines specify some performance standards: in excess of an appropriate benchmark net of fees. The guidelines do not specify the appropriate benchmark or identify the exact time interval which performance will be measured.
  - Staff confirmed that the benchmark is included in an investment management contract with the investment manager.

#### Inflation-Indexed Fixed Income Guidelines

- The Inflation-indexed Fixed Income Investment Guidelines ("Inflation-indexed Guidelines") are covered by Resolution 2007-16 and were adopted in April 2007.
- These guidelines should be periodically updated.
  - "Lehman Brothers" name on the US TIPS index should be updated with "Barclays Capital."
- The Inflation-indexed Guidelines do not specify minimum credit ratings for non-US Treasury issued inflation protected securities.
  - The guidelines allow 20% of the portfolio to be invested outside of US Treasury inflation protected securities, but do not specify the specific minimum credit quality.



- Managers are allowed to invest up to 10% of the portfolio in non-US Dollar investments. The guidelines do not allow the manager to utilize options or futures, which often are used by managers to hedge currency risk.
- As with the Treasury Guidelines above, these guidelines cover assets managed by internal investment staff, rather than an external investment manager. Internally managed assets do not have a separate investment management contract that outlines specific characteristics and requirements of the investment manager. Thus, these important details should be captured within the investment guidelines for all strategies that are fully or partially managed by internal staff.
  - Guidelines for internally managed portfolios should include detailed information regarding target return and volatility, time horizon for performance measurement versus peers and benchmark.
  - Guidelines for internally managed portfolios should also determine a suitable benchmark, minimum acceptable portfolio characteristics, as well as reporting and monitoring requirements,

#### **High Yield Fixed Income Investment Guidelines**

- The High Yield Fixed Income Investment Guidelines ("High Yield Guidelines") are covered by Resolution 2006-35 and were adopted in November 2006.
- The High Yield Guidelines allow for up to 25% of the portfolio to be invested in non-US dollar denominated debt, with a 10% maximum exposure to emerging markets debt. These guidelines require any non-US dollar denominated debt be hedged back to the US dollar.
  - The High Yield Guidelines prohibit the use of options or futures, which are often used by investment managers to hedge currency exposure.
- The High Yield Guidelines allow the manager to purchase common stock as well as convertible securities in the high yield portfolio.



- Staff indicated this was in response to a request by the investment manager and that the following language has been communicated to the investment manager.
- "Common stock received from the conversion of a convertible security, the exercise of a warrant or the restructuring of an issuer's debt should be sold within 90 days of receipt or within 90 days of the expiration of a restriction period. If more time is needed, the Advisor must seek permission in writing from the Chief Investment Officer."
- The use of credit default swaps (CDS) is not addressed in the High Yield Guidelines. Many high yield investment managers prefer to have the ability to use these derivative instruments as a way to gain synthetic exposure to a bond, or as a way to hedge a position in the portfolio.
  - These guidelines prohibit the use of options and futures, but do not mention swaps specifically.

#### **Convertible Fixed Income and Preferred Stock Investment Guidelines**

- The Convertible Fixed Income and Preferred Stock Investment Portfolio Guidelines ("Convertible Guidelines") are covered by Resolution 2010-01 and were adopted in February 2010.
- The Convertible Guidelines state that the investment objective is to capture most of the performance of equities during rising markets, while outperforming equities in flat or down markets by investing in convertible securities.
  - These guidelines state that this performance should be in reference to the Merrill Lynch Yield Alternative Index (VYLD).
- The Convertible Guidelines refer to a separate investment contract that requires the investment manager to implement and adhere to risk control processes as stated in the investment contract.
- The Convertible Guidelines do set forth some minimum portfolio characteristics, including but not limited to the following:
  - Specific Ratings by the three major ratings agencies and maximum of portfolio that is not rated (35%);



- Limitations on exposure to a specific industry;
- Limitations on the size of specific positions within the portfolio;
- Limitation on the number of days common equity can be held in the portfolio;
- o Limitations on Non-US securities; and
- Limitations on purchase of securities on Margin.
- The Convertible Guidelines do not allow short sales or any use of derivatives.
  - This prohibition would need to be updated should ARMB decide to hire an investment manager that engages in convertible arbitrage strategies, which make extensive use of shorting and/or derivatives to trade the "Greeks" (e.g., delta, gamma, theta, etc.).

### Task Area B.1 Recommendations 4-11

Consider adopting specific fixed income guidelines for each fixed income investment manager, rather than for each particular fixed income strategy. At a minimum, ensure that all guidelines reference the additional restrictions that are documented in the individual managers' contracts to help eliminate potential confusion.

Consider the addition of minimum portfolio characteristics versus an appropriate benchmark in the fixed income investment guidelines. This would still allow staff to customize guidelines further in the individual managers' contracts.

In the International Fixed Income Guidelines, add guidance on investing in non-U.S. sovereign debt securities in terms of maximum exposure and/or credit rating.

Specify minimum credit ratings for non U.S. Treasury issued securities in the Inflation-indexed Guidelines.

Update language in the Inflation-indexed Guidelines to reflect "Barclays Capital" rather than "Lehman Brothers."



### Task Area B.1 Recommendations 4-11

Address the use of credit default swaps (CDS) in the High Yield Guidelines, as well as permissible instruments to hedge non-US dollar exposure.

Modify language in High Yield Guidelines concerning the purchase of common stock securities.

Treat internally managed portfolios the same as externally managed portfolios in terms of setting appropriate investment guidelines, as well as for ongoing monitoring and performance measurement.

### 2. Rebalancing Guidelines

## Background

- An IPS should define a fund's rebalancing process. Rebalancing ranges around the long-term asset allocation targets are set up to ensure that asset allocation "drift" is minimized. When an asset class exceeds the range around the long-term target, the IPS should describe the process and timing for rebalancing and whether it is to the target or half-way.
- Rebalancing is the process of re-adjusting the proportion of a portfolio invested in each of the major asset classes to within the permissible range around long-term targets. Over time, disciplined rebalancing can enhance performance and manage overall risk.
  - Recent studies on rebalancing<sup>2</sup> have shown that the most important factor is having a rebalancing policy. Secondary to that decision is the policy itself.

<sup>&</sup>lt;sup>2</sup> See for example Nesbitt, Stephen, "Asset Mix Range and Rebalancing Policy," Wilshire Associates, May 31, 2001; and Masters, Seth J., "Is There a Better Way to Rebalance?" Alliance Bernstein, December 2003.



- A more risk adverse board that wants to have minimal tracking error and is willing to incur slightly higher transaction costs might choose to rebalance at every month end. Alternatively, a board might decide that it prefers to let an outperforming asset class run up to the outer bounds of its range and rebalance only when outside the range and perhaps rebalance only half-way to target.
- Rebalancing policies can suffer from conflicting desires: the need to override human emotion and stick to a disciplined approach versus the desire to be flexible and allow "tactical" shifts.
- When rebalancing policies are silent about what to do in the range, a board is allowing staff effectively to take a bet to be overweight or underweight an asset class relative to the policy benchmark.
- No one rebalancing rule is the most appropriate for all circumstances and risk tolerances.
  - In general, range based and calendar based rebalancing polices also do not specify what to do as long as the asset classes are within the ranges, resulting in "unmanaged" allocations or implicit bets.
  - Bets are also not eliminated by rebalancing policies that suggest rebalancing back to the mid-point of the range (as the policies tested before rebalanced to the targets).

- The ARMB's Rebalancing Policy is outlined in Resolution 2009-01 and was adopted in February 2009.
- The Rebalancing Policy states that staff is "responsible for reviewing the actual asset allocation of each fund on a monthly basis" and the "Chief Investment Officer (CIO), pursuant to authority delegated by the Board, will take steps within a reasonable period of time to rebalance the fund's portfolio in order to return the actual asset allocation within the approved band unless the CIO judges the cost of rebalancing to exceed the benefit of rebalancing."



- This policy allows the CIO a significant amount of flexibility in that it does not specify whether the asset class should be rebalanced to target, halfway or to some other point. In our experience, it is typical for rebalancing authority to be delegated to the CIO. Some funds allow the CIO to "rebalance" tactically among asset classes, while staying within the policy ranges.
- Additionally, in our experience, many funds attempt to use regular or projected cash flows as the first source to accomplish rebalancing when possible.
- The asset allocation ranges are not spelled out in this Resolution and the Policy does not point the reader to the correct document. We understand that ARMB annually affirms the asset allocation of the various funds and establishes ranges, e.g., the majority of the retirement systems are covered by Resolution 2010-05 and 2010-06 for the current year.
- Resolutions 2010-05 & 06 list the Long Term Asset Allocation for each asset class and the allowed range. The ranges vary from +/- 3% for Fixed Income to +/- 8% for Real Assets. We agree that it is appropriate for the more illiquid asset classes to have broader policy ranges.
- Staff indicated that the rebalancing ranges have not changed much in recent history.
- ARMB should consider requesting that staff and/or the general investment consultant discuss various rebalancing techniques with the Board to help to educate them and to determine more clearly what the Board's objectives are, e.g., minimize tracking error or some other goal. There are newer rebalancing techniques, such as volatility based or Beta-Range Rebalancing, which ARMB may want to consider.

### Task Area B.2. Recommendations 1-2

Amend the Rebalancing Policy so that it references the ranges that are found in the annual asset allocation resolutions.

ARMB should request a discussion on rebalancing theory from staff and/or the consultant to determine what their primary goals are and whether a more sophisticated approach could be called for.



### 3. Private Equity Guidelines

## Background

- Assets that are relatively illiquid and not traded on an exchange that provides objective, readily ascertainable prices are often known as "appraised assets." Such assets including real estate, real return and private equity pose special risks, distinct from publicly traded securities.
- Because of these special risks, investors in appraised and otherwise less liquid assets should adopt distinct investment policies and procedures to help structure and manage their portfolios of private and alternative investments.
- Similar to an investment policy statement for the total fund, a private equity policy statement should outline the key elements of the private equity, e.g.,:
  - introduction/purpose of the policy;
  - o objectives, e.g., diversification of the total fund, achieve risk-adjusted returns in excess of public market equities, etc.;
  - o investment guidelines, e.g., types of allowable investment strategies and vehicles, minimum/maximum investment size, etc.;
  - risk management/mitigation, e.g., diversification requirements (by strategy e.g., buyouts, venture capital, mezzanine debt), other factors such as concentration, monitoring requirements, benchmark; and
  - roles and responsibilities of the key parties i.e., board, staff and consultant.
- Alternative investments such as private equity have become a common component of diversified institutional portfolios and are typically structured as limited partnerships.



- The fund is a limited partner and the organizer/manager is a general partner, who typically has a stake in the investment.
- Alternative investments can also be pursued through fund-of-funds managers, who create portfolios of different partnerships on behalf of investors. This reduces the extent of investor research and due diligence, but adds an additional layer of fees.

- The Private Equity Partnerships Portfolio Policies and Procedures ("Private Equity Policy") are contained in Resolution 2007-07, which were last updated April 26, 2007.
- Callan serves as consultant on the Private Equity program and we were informed that their policy was the template for the ARMB's Private Equity Policy.
- Based on our review, the Private Equity Policy spells out the essential items that should be included.
- The Investment Objectives Section I includes:
  - The rationale for investing in this asset class, "the use of private equity investments tends to increase the portfolio's overall long-term expected real return, and reduce year to year portfolio volatility;"
  - The target allocation to private equity within the total fund asset allocation. Given the illiquid and long-term nature of the asset class, it is advisable to have a fairly broad range, as ARMB does (2% to 12%, with a target of 7%). In our experience, some funds do not set rebalancing ranges around private equity since it is not possible to rebalance it in the same way one would rebalance a more liquid asset class;
  - Private equity portfolio benchmarks (see separate discussion on benchmarks in Section A.2. of this report);
  - Program management, including, among others:



- Diversification requirements (by strategy, size, timing, life cycle, etc.). ARMB is looking for "fewer, more concentrated partnership investments" but still has appropriate limits e.g., maximum of 20% with any one general partner;
- Ownership structure, i.e., through separate account investment managers;
- Distributions;
- Performance Measurement;
- Lines of Responsibility;
- The Investment Policies Section II includes:
  - Eligible investments, including Target and expected range
  - Geographical, Industry Sector, Life Cycle and General Partner diversification
- The Procedures for Investment Section III includes:
  - Roles and responsibilities of various parties:
    - This includes the ability of staff to make direct LP investments
  - o Investment procedures, including preparation of Annual Tactical Plan;
  - Specific Investment Manager Responsibilities (i.e., funding, investment management, accounting, reporting);
  - Consultant Responsibilities.



- Staff reports that they do prepare an Annual Tactical Plan, as required by the Private Equity Policy. Preparing such a plan is a best practice for Private Equity, given the nature of the lifecycle of the investments and the need to plan well in advance to fund and continue to maintain a target allocation.
- While, as stated above, the Private Equity Policy contains the basic elements, we make the following observations on a few areas that require some clarification or which could be revised or improved:
  - Section I.C.2. Risk With Regard to Individual Investments discusses the possibility of "sustaining a loss on any of the individual investments." It does not address in detail other risks associated with the asset class, e.g., the high degree of illiquidity, the time horizon (j-curve), other business or economic risks associated with private equity.
  - Most of the policy ranges regarding diversification are somewhat broad, which is reasonable for private equity. One exception to that is the set maximum of 35% in international private equity. Interviews with staff revealed that this allocation has moved up slightly over the years and it might make sense to set a range for international, rather than a maximum, e.g., 25-45%.
  - Section I.3 Ownership Structure only covers separate account relationships and does not mention that ARMB will also serve as an investment manager.
  - Corporate Governance investments do not appear to be covered by any particular policy, but are included in the private equity allocation.
    - We understand from staff that the Corporate Governance investments are winding down and they are not making additional commitments.
  - Section I.4 Reporting System requires "a comprehensive reporting and monitoring system for the entire portfolio, investment manager(s) and individual investments." At the present time, as discussed in Section A.1.b. the performance report for private equity does not aggregate the entire portfolio on an IRR basis.



- We understand from our discussions with staff and the consultant that a total portfolio IRR is currently not calculated. The Private Equity Policy should define the Board's requirements for portfolio monitoring and reflect what is desired by the Board.
- Staff suggested that the Private Equity Policy be revised so that the due date for the Annual Tactical Plan would be synchronized with the annual meeting regarding Private Equity, rather than being due 60 days after calendar year-end.
- Section III.B. Investment Procedure covers the need for managers to prepare Annual Tactical Plans. We understand that in practice each separate account manager prepares a plan and then there is an overall plan for the total portfolio this is not clear in the Private Equity Policy. For example, the internally managed portion does not have its own Annual Tactical Plan; rather it is covered in the total portfolio plan.
- The Policy should reference the appropriate benchmark it states the Venture Economics Inc. Private Equity Performance, which is out of date and should be the Thompson Reuters US Private Equity Performance Index (PEPI).

Task Area B.3. Recommendations 1-6
Expand the discussion on risks associated with investing in Private Equity.
Consider setting a range for international private equity investments, rather than a flat maximum, to allow more flexibility.
Revise Section I.3.Ownership Structure of the Private Equity Policy to include private equity investments made directly by ARMB staff.
Clarify the section on Private Equity reporting of total portfolio performance, e.g., whether a total IRR should be calculated and reported.
Synchronize the due date for the Private Equity Annual Tactical Plan with the annual ARMB meeting on private equity and clarify in the Policy the various plans that should be produced (e.g., individual manager and total portfolio as well as inclusion of internally managed portfolio).



### Task Area B.3. Recommendations 1-6

Update the benchmark reference to Thompson Reuters US Private Equity Performance Index in the Private Equity Policy.

### 4. Absolute Return Investment Guidelines

## Background

- Unlike traditional investments, absolute return orientated investments can create additional layers of risk beyond market risk. Typically, absolute return investments involve greater informational complexity in terms of legal structure, fee structure, and in investment process. In addition, some strategies can suffer from unreliable data sets (i.e., non-normal return distributions, and serial correlation), a lack of regulatory oversight, a lack of transparency, and illiquidity (both at the fund level, and at the security level). Moreover, manager specific risk tends to be more acute for absolute return investments, requiring more exhaustive initial due diligence, as well as more comprehensive ongoing monitoring.
- Because of the special risks involved with absolute return strategies, investors should adopt distinct investment policies/guidelines to help manage their portfolios.

- The Absolute Return Investment Policies and Procedures ("Absolute Return Policy) are covered by Resolution 2006-08 and were last updated in February 2006.
- The Absolute Return Policy sets forth the broad strategy ARMB uses to implement the absolute return program as well as guidelines for investing on an absolute return basis.



#### Alaska Retirement Management Board

- The absolute return program was initiated in 2004, and has an objective to achieve consistent positive real returns and to maximize long term total return within prudent levels of risk through a well diversified portfolio of absolute return strategies.
  - Each investment manager that manages a pool of absolute return strategies on behalf of ARMB is given specific performance objectives.
    - Achieve 5% annualized excess return net of fees over three month T-bills over rolling three year periods.
    - Achieve above median peer group performance when compared to similar peers over rolling three year periods.
    - Achieve the stated return objective with annual expected volatility of 4%-6%, with a maximum of 8% over rolling three year periods.
    - Achieve correlations at or below 0.40 to the S&P 500 and Barclays Aggregate Index.
- The Absolute Return Policy is comprehensive and includes several important sections including (but not limited to) the following:
  - Performance objectives;
  - Investment objectives and implementation;
  - Risk management;
  - Conflicts of interest;
  - Procedures for investment; and
  - Specific manager responsibilities.



- The Absolute Return Policy we reviewed adequately covers the required elements of acceptable guidelines for an absolute return investment program and does not require any major revisions. However, we point out below a few areas where enhancements to the guidelines could be made.
- Staff indicated the absolute return program is implemented via separate accounts managed by several fund of funds investment managers. Assets are held in custody at BNY Mellon and closely resemble the strategy utilized in the fund of fund managers commingled fund offerings which are offered to accredited investors via a private placement memorandum. Staff can further customize portfolio guidelines in the investment management contract.
- The Absolute Return Policy should be periodically updated (e.g. annually) to reflect any changes, including changes in names of benchmarks or investment strategies (e.g. Lehman Aggregate Bond Index should be changed to Barclays Capital Aggregate Bond Index). Staff mentioned they re-visit the hedge fund program strategy at least annually, but update the guidelines only if a material change is warranted. The Absolute Return Policy does require that the "document be reviewed no less than annually and revised as appropriate."
- Staff indicated that at some point in the future, it may be prudent for Staff to make direct investments into hedge funds to complement the current program managed by fund of fund managers.
  - If this is to occur in the future, specific guidelines for Staff to adhere to while choosing direct investments in hedge fund vehicles would need to be discussed and adopted.
- The current guidelines require the absolute return program to have a minimum of 20% exposure to each of three broad absolute return categories:
  - Relative Value;
  - o Event Driven; and
  - o Directional/opportunistic/tactical strategies.



- Staff should consider refining these required exposures by using categories that better reflect the desired exposure and risk characteristics.
  - For example, Staff could revise the categories to reflect strategy specific allocations that are commonly found in the major hedge fund index providers (e.g., Hedge Fund Research).
  - This would allow Staff to stipulate in the guidelines desired exposures to particular strategies (e.g., various equity, credit, or macro strategies) without a potential overweight to one particular strategy (i.e., as it stands now ARMB could have a concentration in one particular risk exposure).
- The Absolute Return Policy guidelines do not permit the investment manager to hedge risk at the portfolio level, unless otherwise specifically exempted by ARMB staff.
  - In practice, staff has made exceptions to this guideline given the difficult market environment experience in the past several years.
  - Staff may want to develop a formal procedure for granting this type of risk management at the portfolio level.

### Task Area B.4. Recommendations 1-3

Consider adopting a separate set of investment guidelines for each hedge fund of fund investment manager, in addition to the broad guidelines for absolute return program goals and objectives as a whole (e.g., the annual plan). This would enable staff to set strategy specific guidelines tailored to each investment manager and their particular investment mandate or style, outside of the investment management contract.

Consider revising the broad absolute return categories in the Absolute Return Policy to better reflect underlying risk exposures. Common categories can be found from a major hedge fund index provider such as Hedge Fund Research.



### Task Area B.4. Recommendations 1-3

*Revisit the Absolute Return Policy guideline that does not permit the investment manager to hedge risk at the portfolio level, unless otherwise specifically exempted by ARMB staff.* 

### 5. Real Estate Guidelines

## Background

- Similar to an investment policy statement for the total fund, a real estate policy statement should outline the key elements of the real estate program, e.g.,:
  - introduction/purpose of the policy;
  - o objectives, e.g., diversification of the total fund, achieve risk-adjusted returns, inflation hedge, etc.;
  - o investment guidelines, e.g., types of allowable investment strategies and vehicles, minimum/maximum investment size, etc.;
  - risk management/mitigation, e.g., diversification requirements (by strategy, property type, region), use of leverage, other factors such as concentration, monitoring requirements, benchmark; and
  - o roles and responsibilities of the key parties i.e., board, staff and consultant.
- There are several different investment vehicles available for investment in equity real estate:
  - publicly traded REITs;
  - limited partnerships;



- o commingled funds, (open-end as well as closed-end funds); and
- o direct investment through separate accounts.
- A well diversified real estate structure includes diversified exposure by geographic region and property type. A real estate program can also pursue different strategies such as:
  - Core: a more conservative strategy generally invested in fully developed, fully leased properties that provide a bond-like return and a degree of inflation protection.
  - Value-add: a slightly riskier strategy where the properties tend to be those that can significantly benefit from upgrading.
  - Opportunistic: these investments tend to be more developmentally oriented and thus riskier than core or than value-add. Typical investments include land development or redevelopment, conversion to different use, major rebuilding and similar investments that add value to a property prior to achieving a capitalized rent roll.

- The ARMB Real Estate Investment Policies, Procedures and Guidelines ("Real Estate Policy") are contained in Resolution 2009-25, and were last updated October 1, 2009. We were informed that this Policy was updated in Resolution 2010-17 at the ARMB's September 23-24, 2010 meeting, but that there were no substantive changes.
- The Real Estate Policy contains all of the essential elements, but we do have a few recommendations for improvement. Staff and consultant reported being satisfied with the Policy.
  - Section I. Investment Objectives covers the goals/objectives for investing in real estate, including the return objectives as well as the asset allocation target.



#### Alaska Retirement Management Board

- Section II. Program Risk Management and Implementation covers:
  - the types of allowed investments;
  - diversification guidelines;
  - ARMB's implementation approach (i.e., the use of Separate Accounts);
  - Leverage;
  - Lease Structure;
  - Business plans/annual tactical plans;
  - Fee structure;
  - Ownership structure;
  - Reporting system;
  - Distribution of current income; and
  - Lines of responsibility.
- Section III. Conflicts of Interest covers conflicts with regard to both property valuation and property management.
- Section IV. Insurance Coverage describes basic coverage requirements.
- Section V. Unrelated Business Income Tax, requires a legal opinion when UBIT may arise.
- Section VI. Environmental Evaluations sets requirements for Separate Account managers to follow and for an environmental evaluation to be provided by the manager to staff.
- Section VII. Procedures for Investment describes procedures for investment, including delegation of responsibilities among ARMB, the Real Estate Committee, staff, the real estate consultant and the managers as well as investment procedures for separate accounts and commingled funds.
- Section VIII. Delegation of Authority delegates authority to staff to approve Separate Account managers' operating budgets, Annual Business Plans and Annual Tactical/Strategic Plans, revisions to budgets or plans (within limits).



- Section IX. Confidentiality describes how ARMB will maintain the confidentiality of certain information.
- Section X. Revisions requires that the Policy be reviewed "no less than annually and revised as appropriate."
- Sections XI. and XII. List the investment managers for the Separate Account and Commingled Account programs.
- We understand that the ARMB real estate program began with separate accounts and core real estate investments. "Value-add" strategies were added around 2004.
- The Real Estate Policy has a definite separate account focus; the Section *I. Investment Objectives A. Investments in Real Estate and Other Real Estate Related Assets* only discusses the selection of Separate Account Investment Managers and does not mention the use of commingled funds, limited partnerships or internal management (although these are mentioned later). We found this to be confusing and suggest re-writing this section to be more inclusive of other types of real estate investment.
- The Real Estate Policy mentions the 10% target allocation to REITs, but the REIT portfolio, which is internally managed, does not have investment guidelines, which we believe would be more appropriate. The portfolio manager stated that he follows the public equity guidelines, but staff is not opposed to the creation of separate investment guidelines for REITs.
- The Real Estate Policy states that "cash-based internal rate of return (IRR) will be used when evaluating the long-term performance of an investment. Time-weighted returns will be used to measure comparative performance."
  - While we understand that staff reviews IRR performance, at the present time Townsend only reports time-weighted performance. (See also our comments regarding performance reporting at Section A.1.b.)
  - We note that the Policy is meant to apply to each investment or each piece of real estate not manager level performance, but that staff supports having Townsend add IRR to the performance report.



- Leverage is only discussed with regard to the Separate Accounts Investment Managers, which are not allowed to add leverage to their portfolios and only allowed to purchase properties with leverage with permission. There is no limit on total real estate portfolio leverage or for value-add/opportunistic commingled funds.
  - We understand that in practice there is no leverage in the Separate Account portfolios.
  - We further understand that this has been in keeping with the ARMB's conservative philosophy, but ARMB may want to discuss this with staff and the real estate consultant at some point want to relax these restrictions in future and set leverage guidelines/limits for managers.

### Task Area B.5. Recommendations 1-5

Consider revising the introductory language to the Real Estate Policy to describe more clearly the range of different types of real estate investments that are made, rather than focus on separate accounts.

Develop and adopt investment guidelines for the internally managed REIT portfolio, either separate from or as part of the total Real Estate Policy.

Ensure that the Real Estate Policy reflects the type of returns (e.g., IRR versus time-weighted) that are actually being analyzed by staff and ARMB.

Consider setting leverage limits or restrictions for commingled fund investments, by strategy type, i.e., core versus non-core in the Real Estate Policy.

Either include Energy investments in the Real Estate Policy or develop a separate policy for these investments.



### 6. Timberland Guidelines

## Background

- Timberland is another private investment strategy that is typically part of a broader "real asset" or real estate program.
- Similar to an investment policy statement for real estate or other private assets, a timberland policy statement should outline the key elements of the program, e.g.,:
  - introduction/purpose of the policy;
  - o objectives, e.g., diversification of the total fund, achieve risk-adjusted returns, inflation hedge, etc.;
  - o investment guidelines, e.g., types of allowable investment strategies and vehicles, minimum/maximum investment size, etc.;
  - o risk management/mitigation, e.g., diversification requirements, use of leverage, monitoring requirements, benchmark; and
  - o roles and responsibilities of the key parties i.e., board, staff and consultant.
- Timberland is generally used for additional diversification and to possibly provide an inflation hedge.

- We reviewed ARMB's Timberland guidelines dated May 1, 2008 ("Timberland Policy"). The header on the document is "Appendix C Exhibit B" so it is not clear when this was adopted as a Policy by ARMB.
- The Timberland Policy is a brief two page document that sets forth the following sections:



- Investment objective;
- Advisor performance benchmark;
- Investment Guidelines including location, leverage, diversification, and allocation;
- Confidentiality; and
- Unrelated Business Income Tax.
- The emphasis of the portfolio is on the preservation of capital and the diversification of Timberland investments in order to reduce risk. Current income is preferred over price appreciation, given that return objectives of the portfolio (5% net over rolling five year periods) can be met.
- The program is invested in Timberland diversified across the United States. Currently, there is not any international exposure in the Timberland portfolio.
- The portfolio is managed by external investment managers and monitored by internal staff.
- The Timberland Policy states that the Timberland program seeks to produce a minimum 5% net real total rate of return over rolling five year periods via a diversified portfolio of Timberland investments with a focus on total return and that the benchmark is the NCREIF Timberland Index.
- The Timberland Policy also states that portfolio risk shall reflect the lowest expected risk profile required to achieve the return objectives.
- Although drastic revision of the Timberland Policy is not required, ARMB should consider enhancing/expanding the Timberland Policy so that it follows the format of the other private investment policies such as the Farmland, Absolute Return or Private Equity Policies. The following points highlight areas where we believe the guidelines can be enhanced:



- The Timberland Policy does not specify a minimum or maximum number of investment managers. ARMB should consider adding an "Implementation Approach" section that would specify the preferred number of managers among other elements.
- ARMB should consider expanding the "Investment Guidelines" section to more fully describe the Timberland program, with enhanced diversification criteria. The Timberland Policy does not permit any Timberland investments outside of the United States and does not require specific geographic or tree species diversification of the portfolio.
  - The Timberland Policy suggests the investment manager should seek to invest across the primary timberland regions of the United States as defined by the NCREIF Timberland Index, but geographic diversification will ultimately depend on the availability of attractive investment opportunities, as well as potential diversification by species, age classes of trees and suitability for a variety of end products.
  - ARMB may want to consider refining this guideline to include allowing investment in non US countries such as Canada.
- Leverage is permitted only with the prior consent of the Chief Investment Officer. The guidelines do not specify any maximum amount of leverage.
  - In practice, we were informed by staff that ARMB is not using leverage in the Timberland portfolio.
- ARMB should also consider adding a "Procedures for Investment" section that describes the roles of ARMB, staff and the managers, including planning and reporting requirements.

### Task Area B.6. Recommendations 1-6

Consider expanding the Timberland Policy so it follows the model of other ARMB private investment policies and includes additional information on the program, such as Implementation Approach and Procedures for Investment.



#### Task Area B.6. Recommendations 1-6

*Consider loosening the constraint on investing solely within the United States in the Timberland Policy.* 

Consider the addition of parameters for geographic diversification, as well as diversification by species, age, and suitability for various types of end products in the Timberland Policy.

Consider adding a minimum number of investment managers to the Timberland Policy.

Specify a maximum amount of leverage that is permitted in the Timberland program with the consent of the Chief Investment Officer.

Consider adding a section to the Timberland Policy that describes the roles of ARMB, staff and the managers/advisors.

### 7. Farmland Guidelines

## Background

- Farmland is another private investment strategy that is typically part of a broader "real asset" or real estate program.
- Similar to an investment policy statement for real estate or other private assets, a farmland policy statement should outline the key elements of the program, e.g.,:
  - introduction/purpose of the policy;
  - o objectives, e.g., diversification of the total fund, achieve risk-adjusted returns, inflation hedge, etc.;



- o investment guidelines, e.g., types of allowable investment strategies and vehicles, minimum/maximum investment size, etc.;
- o risk management/mitigation, e.g., diversification requirements, use of leverage, monitoring requirements, benchmark; and
- roles and responsibilities of the key parties i.e., board, staff and consultant.
- Farmland is generally used for additional diversification and to possibly provide an inflation hedge.

- The Farmland Investment Policies, Procedures and Guidelines ("Farmland Policy") are covered by Resolution 2009-29 and were adopted in December 2009.
- The Farmland Policy is a comprehensive document that encompasses policies, procedures, as well as investment guidelines.
- The document addresses important areas such as:
  - Investment Objectives;
  - Program Risk Management and Implementation;
  - Conflicts of Interest;
  - Insurance Coverage;
  - Unrelated Business Tax;
  - Environmental Evaluations;



- Procedures for Investment;
- Delegation of Authority;
- Confidentiality;
- Revisions (requirement to review at least annually); and
- o Farmland Separate Account Investment Managers.
- ARMB invests in a portfolio of Farmland in order to diversify the total Fund investment program further, and has a goal of attaining the highest possible investment return (income plus appreciation) within a framework of prudence and managed risk.
- The investment program in Farmland was implemented several years ago, and is managed by external investment managers. Staff is responsible for selection and on-going monitoring of investment managers within the Farmland investment program.
- The Farmland investment program is allocated primarily to row crops (80%) and permanent crops (20%), within a band of 10%. This allocation target is reviewed annually.
- The investment managers hired by ARMB have full discretion to actively invest in Farmland, subject to ARMB's approval of an Annual Strategic/Tactical Plan and an Annual Investment Plan.
- The Farmland program has a total return objective of a minimum total real rate of return net of fees of 5% over rolling five year periods.
  - The guidelines also state that the portfolio is expected to produce income of 4% over rolling five year periods with a minimum of 3% distributed income for individual properties after fees and projected capital expenditures. In addition, the guidelines set



a minimum going-in yield of 5% before fees for a manager's initial three year projection, but individual properties may have a projected current income as low as 4%.

- Staff indicated that an annual plan is developed for the Farmland program, and any material changes impacting guidelines would be brought to the Board for approval.
- The Farmland Policy generally sets forth reasonable targets for diversification. The guidelines stipulate that that the portfolio is diversified across crop type, property type, and geographical location. The guidelines show target percentage allocation to each area.
  - The Farmland Policy could be enhanced by clarifying the percentage of the portfolio that can be invested outside of the United States. The investment guidelines state that staff monitors percentage allocation to properties within the same NCREIF farmland region (e.g., 40% concentration limit to properties within the same NCREIF Farmland region), but does allow exceptions in the event it would be in the fiduciary interest of ARMB to invest outside of the established guidelines.
- The Farmland Policy allows for prudent leverage of up to 10% of the total market value of the Farmland separate account portfolio.
  - In practice, staff informed us that leverage is not currently used in the farmland investment program.
- Lease structure requires institutional investment quality and must be structured with fixed cash rents, or participating rents calculated as a percentage of gross income.
  - ARMB may want to also include in the Policy a lease made up of a combination of the above, sometimes called a base rent/crop share lease.
  - In this type of lease, the investor receives a fixed amount, as well as a percentage of the gross income if the gross income exceeds a pre-set reference point.



#### Task Area B.7. Recommendations 1-3

Clarify the percentage of the portfolio that can be invested outside of the United States in the Farmland Policy.

Consider expansion of the Farmland Policy in regards to lease structure, to incorporate base rent/crop share leases.

Revisit the allowable maximum leverage of 10% in the Farmland Policy and consider decreasing the allowable maximum level to zero. In order to use leverage, managers would need to obtain written consent from the Chief Investment Officer.

### 8. Watch List Guidelines

## Background

- A total fund investment policy statement will typically discuss who has responsibility for monitoring investment manager performance and the minimum requirements for manager monitoring, e.g., whether the Board will meet with managers on a regular basis, how often performance will be reviewed, etc.
- Thorough and comprehensive monitoring of investment managers is considered essential. The key components to monitor are investment performance, investment risks, compliance with guidelines and in-depth manager specific issues (e.g., manager's philosophy, organizational issues, etc.).
- One common element used as an aid to monitor investment managers is a "watch list."
- In our experience, while utilizing a watch list can be helpful for Board members, in practice it is not always a very useful tool. Performance issues that require manager termination do not typically arise suddenly, while organizational and non-performance related issues often do and require an immediate re-evaluation of the manager in question.



- ARMB has established a Watch List Guidelines policy ("Watch List Guidelines") that is documented in Resolution 2006-01 and that was approved in January 2006.
- The Watch List criteria are divided into two main categories qualitative (personnel, organizational and legal issues) and quantitative factors (performance).
- In IFS' experience, the tests used by ARMB are fairly typical of other large funds that use watch lists. Most use a similar combination of qualitative and quantitative factors. Possible additional factors to consider include: significant gain/loss in clients or assets under management, significant change in risk profile of portfolio, or SEC or other regulatory issues.
- ARMB staff expressed some concerns about the quantitative tests used, with the primary concern being that they are not appropriate for passive/index managers.
  - Some watch lists that we have seen are more general in their quantitative tests, e.g., the test looks for unusual short term under or outperformance and long term (three-five years) under or outperformance that is not in line with expectations.
  - An alternative approach would be to develop a different test for passive managers, who are expected to track their benchmarks much more closely than active managers.
- The Watch List Guidelines do not specify exactly how a manager will be placed on the Watch List. From our interviews, however, we learned that staff is responsible for reviewing the managers' performance and determining whether or not they fail the Watch List tests.
- Additionally, the Watch List Guidelines do not specify what formal procedures or guidelines to follow once a manager has been placed on the Watch List. For example: Is the manager notified? Can a manager remain on the Watch List for an indefinite period



of time? Are additional due diligence meetings with the manager required? Are updates to ARMB required on a regular basis? Frequently, there is also a prohibition against investing additional funds with an investment manager that is on "watch."

### Task Area B.8. Recommendations 1-2

Consider adjusting the quantitative factors in the Watch List Guidelines to accommodate passive/index investment managers.

Develop guidelines or procedures that state how a manager will be place on the Watch List and the required actions/monitoring process for managers on the Watch List that should be followed by ARMB and/or investment staff.

\* \* \* \* \*



# Exhibit A

# **Summary of Recommendations**

Set forth below are the Recommendations from the November 12, 2010 Final Report. They are listed in the order they appear in the Report with corresponding page numbers. The Task Area of each Recommendation is set forth for ease of reference.

Rec #	Page #	
		Task Area A.1.b. – Investment Performance Reporting to the Board
1	18	ARMB should request that Callan include the TIPS portfolio and the REIT portfolio in the Investment Manager Returns exhibit and provide an investment summary page for the TIPS portfolio.
2	18	The CIO and ARMB staff should work with Callan to determine how the reporting on timberland and farmland can be enhanced.
3	20	ARMB should continue to work with Callan to show an IRR for the private equity program as a whole.
4	20	ARMB should ask Callan to provide performance for the private equity program by strategy (e.g., Buyouts, Venture Capital, Mezzanine, etc.) and to show portfolio diversification by geography and industry.
5	22	ARMB should ask Callan to display the total fee for each fund shown in the defined contribution report.
6	23	ARMB should ask Townsend to show the inception date for the IMAs.
7	23	ARMB should ask Townsend to show annualized performance for a time period greater than five years (e.g., seven or 10 years) for the IMAs, where applicable.
8	23	ARMB should ask Townsend to show performance for the IMAs as an internal rate of return (IRR) in addition to time-weighted returns.



Rec #	Page #	
9	24	ARMB should consider asking Townsend to show the country allocation for those managers with properties located internationally.
10	24	ARMB should consider asking Townsend to show property diversification and geographic diversification for the real estate benchmarks (i.e., NCREIF Property Index and FTSE NAREIT Index).
11	24	<i>ARMB</i> should consider asking Townsend to show the allocation to each fund (as well as the sub-portfolios and total portfolio) by percentage.
		Task Area A.2. – Investment Performance Benchmarks
1	32	ARMB should consider adding MSCI ACWI ex-US Growth Index as a strategic policy benchmark or making it the primary benchmark for McKinley's international portfolio.
2	34	ARMB should consider adding the FTSE NAREIT Equity Index to the real asset benchmark.
3	34	ARMB should ensure that Energy investments, including the designation of their benchmark and their inclusion in the Real Assets portfolio, are covered by Policy.
4	35	ARMB should consider adding the KLD index on which the RCM Socially Responsible Investment Fund is based as a strategic benchmark.
		Task Area B. – Investment Policies
1	38	ARMB should develop, with assistance from staff and its general consultant, a total fund IPS that supplements the individual asset class policies and addresses total fund elements such as the Board's risk tolerance, overall roles and responsibilities and other important elements listed in our Report.
2	38	ARMB should require a review of all ARMB investment policies annually to determine whether any changes are necessary.
		Task Area B.1. – Publicly Traded Asset Classes
1	41	ARMB should identify asset class and sub-asset class (if appropriate) level benchmarks in the Investment Guidelines for Domestic and International Equities.



Rec #	Page #	
2	41	ARMB should modify the Investment Guidelines for Domestic and International Equities to remove managers' ability to invest in fixed income securities. As appropriate, this provision could reside in either the manager's contract or individual guidelines.
3	41	ARMB should consider adopting customized investment manager guidelines for each investment manager – or at a minimum, create separate guidelines for domestic versus international equity, and consider breaking down further into capitalization and market segment (e.g., developed versus emerging markets) with portfolio requirements/restrictions that are more tailored by strategy.
4	48	Consider adopting specific fixed income guidelines for each fixed income investment manager, rather than for each particular fixed income strategy. At a minimum, ensure that all guidelines reference the additional restrictions that are documented in the individual managers' contracts to help eliminate potential confusion.
5	48	Consider the addition of minimum portfolio characteristics versus an appropriate benchmark in the fixed income investment guidelines. This would still allow staff to customize guidelines further in the individual managers' contracts.
6	48	In the International Fixed Income Guidelines, add guidance on investing in non-U.S. sovereign debt securities in terms of maximum exposure and/or credit rating.
7	48	Specify minimum credit ratings for non U.S. Treasury issued securities in the Inflation-indexed Guidelines.
8	48	Update language in the Inflation-indexed Guidelines to reflect "Barclays Capital" rather than "Lehman Brothers."
9	49	Address the use of credit default swaps (CDS) in the High Yield Guidelines, as well as permissible instruments to hedge non-US dollar exposure.
10	49	Modify language in High Yield Guidelines concerning the purchase of common stock securities.
11	49	Treat internally managed portfolios the same as externally managed portfolios in terms of setting appropriate investment guidelines, as well as for ongoing monitoring and performance measurement.

Rec #	Page #	
		Task Area B.2. – Rebalancing Guidelines
1	51	Amend the Rebalancing Policy so that it references the ranges that are found in the annual asset allocation resolutions.
2	51	ARMB should request a discussion on rebalancing theory from staff and/or the consultant to determine what their primary goals are and whether a more sophisticated approach could be called for.
		Task Area B.3. – Private Equity Guidelines
1	56	Expand the discussion on risks associated with investing in Private Equity.
2	56	Consider setting a range for international private equity investments, rather than a flat maximum, to allow more flexibility.
3	56	<i>Revise Section I.3.Ownership Structure of the Private Equity Policy to include private equity investments made directly by ARMB staff.</i>
4	56	<i>Clarify the section on Private Equity reporting of total portfolio performance, e.g., whether a total IRR should be calculated and reported.</i>
5	56	Synchronize the due date for the Private Equity Annual Tactical Plan with the annual ARMB meeting on private equity and clarify in the Policy the various plans that should be produced (e.g., individual manager and total portfolio as well as inclusion of internally managed portfolio).
6	57	Update the benchmark reference to Thompson Reuters US Private Equity Performance Index in the Private Equity Policy.
		Task Area B.4. – Absolute Return Investment Guidelines
1	60	Consider adopting a separate set of investment guidelines for each hedge fund of fund investment manager, in addition to the broad guidelines for absolute return program goals and objectives as a whole (e.g., the annual plan). This would enable staff to set strategy specific guidelines tailored to each investment manager and their particular investment mandate or style, outside of the investment management contract.



Rec #	Page #	
2	60	Consider revising the broad absolute return categories in the Absolute Return Policy to better reflect underlying risk exposures. Common categories can be found from a major hedge fund index provider such as Hedge Fund Research.
3	61	<i>Revisit the Absolute Return Policy guideline that does not permit the investment manager to hedge risk at the portfolio level, unless otherwise specifically exempted by ARMB staff.</i>
		Task Area B.5. – Real Estate Guidelines
1	65	Consider revising the introductory language to the Real Estate Policy to describe more clearly the range of different types of real estate investments that are made, rather than focus on separate accounts.
2	65	Develop and adopt investment guidelines for the internally managed REIT portfolio, either separate from or as part of the total Real Estate Policy.
3	65	Ensure that the Real Estate Policy reflects the type of returns (e.g., IRR versus time-weighted) that are actually being analyzed by staff and ARMB.
4	65	Consider setting leverage limits or restrictions for commingled fund investments, by strategy type, i.e., core versus non-core in the Real Estate Policy.
5	65	Either include Energy investments in the Real Estate Policy or develop a separate policy for these investments.
		Task Area B.6. – Timberland Guidelines
1	68	Consider expanding the Timberland Policy so it follows the model of other ARMB private investment policies and includes additional information on the program, such as Implementation Approach and Procedures for Investment.
2	69	Consider loosening the constraint on investing solely within the United States in the Timberland Policy.
3	69	Consider the addition of parameters for geographic diversification, as well as diversification by species, age, and suitability for various types of end products in the Timberland Policy.
4	69	Consider adding a minimum number of investment managers to the Timberland Policy.



Rec #	Page #	
5	69	Specify a maximum amount of leverage that is permitted in the Timberland program with the consent of the Chief Investment Officer.
6	69	Consider adding a section to the Timberland Policy that describes the roles of ARMB, staff and the managers/ advisors.
		Task Area B.7. – Farmland Guidelines
1	73	Clarify the percentage of the portfolio that can be invested outside of the United States in the Farmland Policy.
2	73	Consider expansion of the Farmland Policy in regards to lease structure, to incorporate base rent/crop share leases.
3	73	<i>Revisit the allowable maximum leverage of 10% in the Farmland Policy and consider decreasing the allowable maximum level to zero. In order to use leverage, managers would need to obtain written consent from the Chief Investment Officer.</i>
		Task Area B.8. – Watch List Guidelines
1	75	Consider adjusting the quantitative factors in the Watch List Guidelines to accommodate passive/index investment managers.
2	75	Develop guidelines or procedures that state how a manager will be place on the Watch List and the required actions/monitoring process for managers on the Watch List that should be followed by ARMB and/or investment staff.



# Independent Fiduciary Services®



Presentation to the

Alaska Retirement Management Board Report on State Performance Consultants and Evaluation of Investment Policies

December 2, 2010

805 15<sup>th</sup> Street, NW Suite 1120 Washington, DC 20005 202-898-2270 744 Broad Street Suite 1120 Newark, NJ 07102 973-424-6400



## **Overview of Our Firm**

- Originally formed in 1987 as part of an investment banking firm ownership acquired by IFS principals in 1996 (ownership group now includes seven active employees)
- 38 employees in two offices (Washington, D.C. and Newark, NJ) with an average of 18 years of professional experience
- Backgrounds in investments, finance, accounting, internal controls, banking, corporate treasury, trustee and fiduciary responsibility / ERISA
- Nine professionals with Chartered Financial Analyst (CFA) designation, eight MBAs, five JDs, one CPA, two CAIAs
- Totally independent of all brokerage and investment management firms





## **IFS Team**

- Steven Harding, Senior Vice President
  - Project Senior Officer
- Barbra Byington, CFA Vice President
  - Project Manager
- Gregory Caron, CAIA Assistant Vice President
- Spencer Rand Senior Analyst
  - Project Coordinator





## Scope of Work

- Scope of work covered four task areas:
  - 1. Investment Performance Calculations & Methodology
  - 2. Investment Performance Reporting to the Board
  - 3. Investment Performance Benchmarks
  - 4. Investment Policies



## 1. Investment Performance Calculations & Methodology



# ARMB's consultants are using appropriate methodology to calculate investment performance.

- In order to spot check the investment performance calculations, IFS calculated quarterly performance for five investment managers from various asset classes.
- We requested daily market values and cash flows from State Street and uploaded the data into our performance measurement software.
- The spot check did not identify any issues with regard to performance consistency or accuracy.



## 2. Investment Performance Reporting



The performance reports ARMB receives are high quality and are generally in line with best practices for public pension funds.

- ARMB receives detailed quarterly performance reports from Callan on the DB and DC plans. Additional detailed reporting is provided to staff, which is available to Board members if requested.
- The performance reports have evolved over time as the Board members have communicated their information needs to staff.
- Callan also provides an annual Private Equity Report that contains most of the essential elements, although we believe that ARMB could benefit by reviewing some additional performance items, such as an IRR for the private equity program as a whole.



## 2. Investment Performance Reporting



The performance reports ARMB receives are high quality and are generally in line with best practices for public pension funds.

- We found that performance reporting could be improved and expanded with regard to some of the internally managed portfolios, e.g., REITs and TIPS.
- Performance reporting could also be expanded for the farmland and timberland programs.
- Townsend prepares and provides the real estate performance reports.
- While these reports appear to meet the ARMB's basic needs, we believe that they could be enhanced by including some supplemental information, such as additional performance metrics for the IMAs and some additional manager-level details, such as country allocation.



## 3. Investment Performance Benchmarks



#### ARMB uses appropriate investment performance benchmarks and we made only minor recommendations in this area

- The policy benchmark for the Total Fund for all plans is found in Callan's performance report. The Total Fund benchmark should be formally designated in policy.
- ARMB should consider adding:

.....

- MSCI ACWI ex-US Growth Index as a strategic policy benchmark or making it the primary benchmark for McKinley's international portfolio.
- the FTSE NAREIT Equity Index to the real asset benchmark.
- the KLD index on which the RCM Socially Responsible Investment Fund is based as a strategic benchmark.
- ARMB should ensure that Energy investments, including the designation of their benchmark and their inclusion in the Real Assets portfolio, are covered by Policy.
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# 4. Investment Policies – General



Adopting a total fund IPS that addresses high level total fund issues would be a good addition to ARMB's group of policies.

- ARMB should adopt a Total Fund Investment Policy Statement (IPS) that would supplement the individual asset class policies and address total fund elements. It should include:
  - a description of the Board's risk tolerance,
  - discussion on fund liquidity needs,
  - total fund investment objectives,
  - roles and responsibilities of the various parties, and
  - reporting and communication requirements.
- Additionally, ARMB should require that all policies be reviewed annually to determine whether any changes are necessary.



## 4. Investment Policies – Equities



- For public equities:
  - Individual managers should have customized investment guidelines, or

     at a minimum separate guidelines should be created for domestic versus international equity, which could then be broken down further by capitalization and market segment (e.g., developed versus emerging markets).
  - ARMB should designate in policy benchmarks for the domestic and international equity asset classes and sub-asset classes.
    - We understand that style specific benchmarks are delineated in managers' contracts.



## 4. Investment Policies – Fixed Income



- For fixed income:
  - Consider adopting specific fixed income guidelines for each fixed income investment manager, rather than for each particular fixed income strategy.
  - At a minimum, ensure that all guidelines reference the additional restrictions that are documented in the individual managers' contracts to help eliminate potential confusion.
  - Treat internally managed portfolios the same as externally managed portfolios in terms of setting appropriate investment guidelines, as well as for ongoing monitoring and performance measurement.



## 4. Investment Policies – Real Assets



- For real estate:
  - Investment guidelines should be developed for the internally managed REIT portfolio.
  - Consider setting leverage limits or restrictions for commingled fund investments, by strategy type, i.e., core versus non-core in the Real Estate Policy.
- For timberland:
  - Consider expanding the timberland policy so that it follows the model of the other ARMB private investment policies.
- For farmland:
  - The Farmland Policy is comprehensive and we made only minor recommendations, e.g., clarifying the amount that can be invested outside the U.S.



4. Investment Policies – Private Equity



- For private equity:
  - Consider expanding the discussion on risks associated with investing in private equity.
  - Consider setting a range for international private equity investments, rather than a flat maximum, to allow more flexibility.
  - Revise Section I.3.Ownership Structure of the Private Equity Policy to include private equity investments made directly by ARMB staff.
  - Clarify whether a total IRR should be calculated and reported for the portfolio.



## 4. Investment Policies – Other



- For the absolute return program, consider adopting a separate set of investment guidelines for each hedge fund of fund investment manager.
- The Rebalancing Policy should reference the ranges that are found in the annual asset allocation resolutions. ARMB should also consider requesting a discussion on rebalancing theory from staff and/or the consultant to determine the ARMB's primary goals and whether the approach should be modified.
- Develop guidelines or procedures that state how a manager will be placed on the Watch List and the required actions/monitoring process for managers on the Watch List.



## Questions









## ARMB Private Equity Portfolio Review and Performance Analysis

December 2, 2010

Gary Robertson Senior Vice President

Callan Associates • Knowledge for Investors 0



- I. How Private Equity Works
- **II.** Private Equity Program Overview
- **III.** Market Conditions
- **IV. ARMB Private Equity Performance** 
  - Portfolio and Manager Performance
  - Vintage Year Benchmarking
  - Strategy Diversification
- V. Corporate Governance Portfolio
- VI. Summary

## How Private Equity Works

ARMB invests in all major private corporate finance strategies ("private equity") :

### Venture Capital

- Smaller technology/medical companies

### Buyouts and Special Situations

- Larger company equity, traditional industries

### Subordinated Debt (Mezzanine)

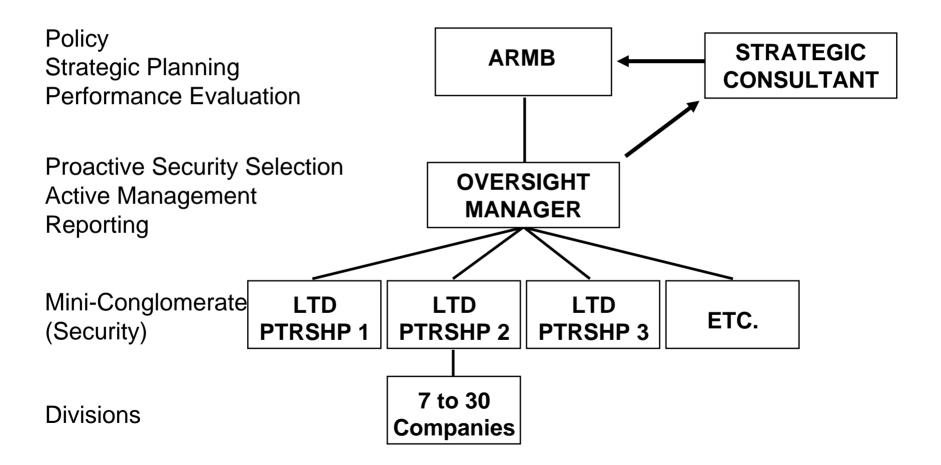
- Private high yield, senior to equity, junior to bank debt, equitylinked

### Distressed Debt

- Larger company restructuring, restarting good businesses

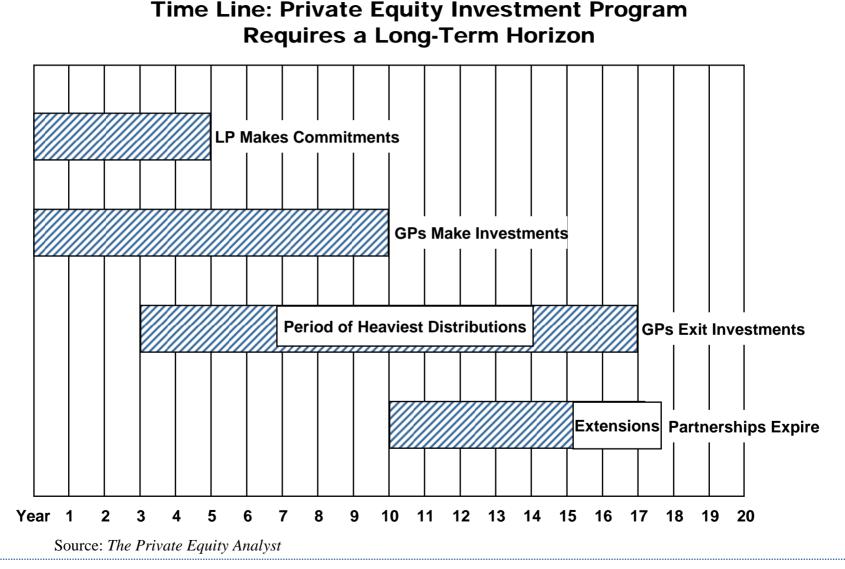
## How Private Equity Works

### **Private Equity Partnerships Program Structure**





### **How Private Equity Works**





## **ARMB Private Equity Program Overview**

#### Timeline

- 1998 ARMB initiates a 3% allocation and hires Abbott to invest in partnerships
- 2001 ARMB raises the allocation to 6%
- 2001 Hires Pathway to develop a second partnerships portfolio
  - Managers have 29 investments in common (32% of commitments)
- 2005 ARMB hires Blum Capital for direct Corporate Governance (two products -- listed and hybrid, not "private equity")
- 2006 Private equity allocation raised to 7%
- 2007- Initiates In-House private equity portfolio
  - In-House portfolio is new and relatively small, with five investments
- 2009 ARMB liquidates Corporate Governance listed product

CAI

## **ARMB Private Equity Program Overview**

**Funding** – The private equity target rose by \$123 million (15%) due to ARMB's total assets increasing \$1.1 billion (9%) during the 12-month period. The percentage difference was due to an increase in the private targets (3% to 7%) of some constituent plans. ARMB's private equity allocation is above the nominal target, but within range.

As of June 30, 2010

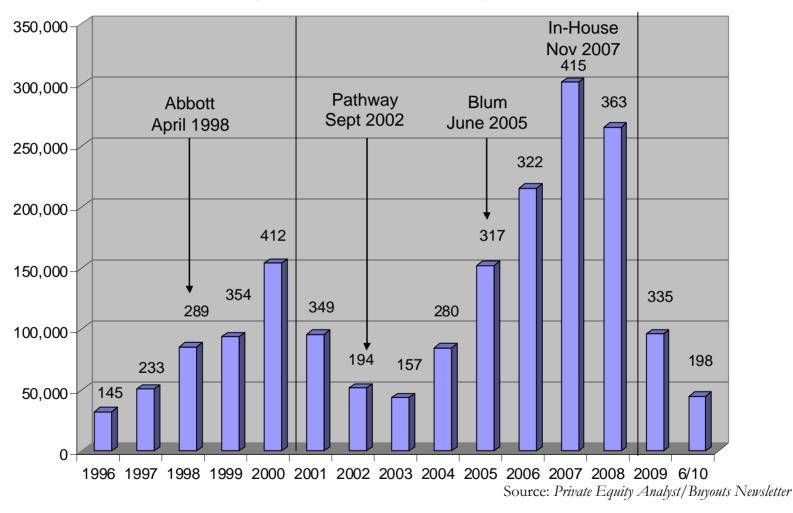
Measure	2009	2010	%
Total Assets	12,262,415,000	13,368,218,000	
PE % Target	6.6%	7.0%	
PE \$ Target	813,276,450	935,775,260	
Abbott	541,808,000	644,418,000	50%
Pathway	468,922,000	577,390,000	45%
In-House	30,233,000	44,746,000	3%
Blum	28,356,000	22,569,000	2%
Total Private Equity	1,069,319,000	1,289,123,000	100%
% PE	8.7%	9.6%	
Difference from Target	256,042,550	353,347,740	

Note: Private equity values are March 31 NAVs updated for June 30 cash flows, Blum is June 30 actual



#### Private Equity Market Conditions Industry Commitments to Partnerships

(\$ Millions, # Funds Formed)



#### ARMB has been through 1 <sup>3</sup>/<sub>4</sub> market cycles



## **Private Equity Market Conditions**

#### Bottom of the Business Cycle – Start of Improvement

- Capital markets and economic conditions have caused corporate growth and earnings to decline, but a tenuous profits recovery is emerging
- Private equity activity at all levels is slow, including partnership commitments, company investments (capital calls), and company exits (distributions)
- Limited partners are lowering commitment budgets due to total fund value declines (denominator effect) and recent liquidity issues with public market portfolios, and some are increasing targets
- Private equity portfolio valuations hit bottom in the first quarter of 2009 (around 25% for large mature portfolios), but have rebounded nicely (around 21%).
- General partners have largely stabilized existing portfolio companies, and are beginning to seek new investments, but debt availability and new company pricing pose hurdles
- The availability of senior bank loan financing will need to increase substantially before private equity activity (both entry and exit) can accelerate
- While industry valuation practices are changing, private equity lags public markets in the magnitude of short-term valuation changes



## **Private Equity Market Conditions**

#### Bottom of the Business Cycle – Start of Improvement

- Even though economic conditions remain challenging, based on history, now should be a good time to invest in private equity for both new and existing programs
- Historically, investments made in years when capital was scarce have tended to produce higher returns
- Purchase prices have moderated, capital structures are more conservative, general partners are re-learning investment discipline, and a sustained expansion period should ensue
- Companies that have survived the recession tend be strong and resilient, and will be able to capitalize on economic expansion
- Commitments made currently will be invested in companies over three to five years (through 2013 or 2015) when the recovery should be in motion
- Even if the recovery is sluggish and drawn-out, private equity should maintain a return spread over publicly-traded equity returns over the next business cycle, benefiting total portfolios



### **Private Equity Market Conditions**

Private Equity Industry Returns IRRs through March 31, 2010

<u>Strategy</u>	<u>1 Year</u>	<u>3 Years</u>	<u>5 Years</u>	<u> 10 Years</u>	<u>20 Years</u>
All Venture	11.5%	0.5%	4.6%	-1.5%	17.2%
Buyouts	19.4%	-0.5%	5.4%	4.0%	9.0%
Mezzanine	4.0%	0.8%	2.7%	2.3%	6.7%
All Private Equity	21.9%	0.6%	5.8%	3.8%	11.3%
S&P 500	<b>49.8%</b>	-4.2%	1.9%	-0.7%	8.7%
				Sou	rce: ThomsonONE

- 1) Private equity has provided expected return premiums over long periods
- 2) The All Private Equity database is up substantially for the trailing 12 months (the one year return a year ago was -24.4%
- 3) The introduction of FAS 157 in the 4<sup>th</sup> quarter of 2008 drove steep write-downs
- 4) Valuations and returns bottomed in 1Q-09 and each of the last four quarters averaged a 5.2% increase, as FAS 157 values followed public market increases



### **ARMB** Performance

Total Portfolio: 12-Month Changes, June 30, 2010 (\$000)

Year	Committed	Paid-In	Uncalled	Distributed	NAV	DPI	<b>R VPI</b>	ΤΥΡΙ
2009	2,742,373	1,882,191	857,745	1,134,975	1,069,319	0.60	0.57	1.17
2010	2,863,483	2,043,035	818,549	1,278,525	1,289,123	0.63	0.63	1.26
Change	121,110	160,844	(39,196)	143,550	219,804	0.02	0.06	0.09

Private equity holdings are March 31 values updated for June 30 cash flows

DPI = Distributions as a ratio of (divided by) Paid-In capital

RVPI = Residual Value (Net Asset Value) as a ratio of (divided by) Paid-In Capital

TVPI = Total Value (Distributions + NAV) as a ratio of (divided by) Paid-In Capital

- 1) Total of 226 partnerships, up 11 from last year (compared to 25 in the prior review)
- 2) Commitments increased by 4%, versus 11% the prior year and 18% in fiscal 2008
- 3) The portfolio is 71% paid-in (mature) up from 69%, with Abbott 77% and Pathway 68%
- 4) Uncalled capital decreased 5%, a change from increases of 11% and 9% previously
- 5) The portfolio distributed \$144 million, a 13% cash yield (distributions divided by beginning NAV), up from \$84 million last year over one-third of which was the Stinson liquidation
- 6) Net cash flow (annual contributions minus distributions) was \$17 million or 2% of starting NAV (funding from ARMB), down from \$101 million last year
- 7) Unrealized appreciation was \$203 million (+19%), versus depreciation of \$315 million (-25%) last year. NAV increased by \$220 million or 21%.
- 8) Performance ratios all increased (TVPI to 1.26x) and should continue to rebound



### **ARMB** Performance

Abbott Portfolio: 12-Month Changes, June 30, 2010 (\$000)

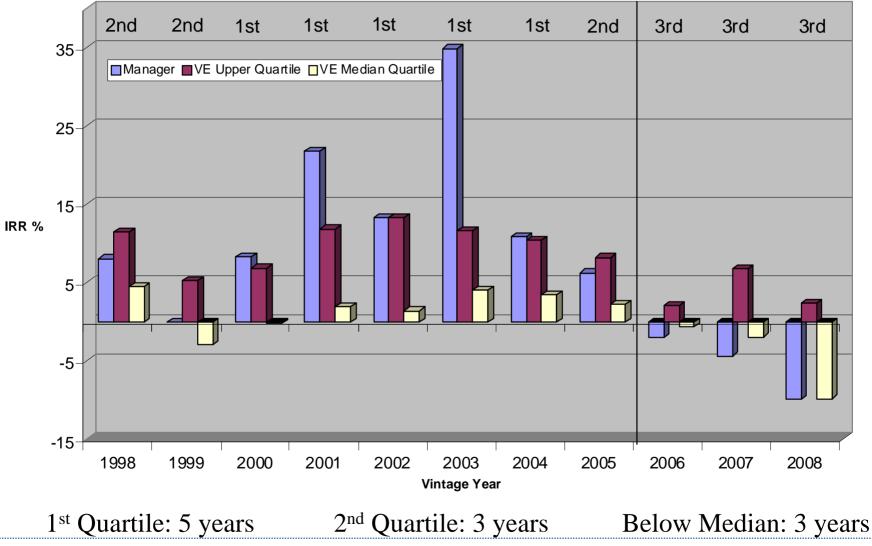
Year	Committed	Paid-In	Uncalled	Distributed	NAV	DPI	R VPI	ΤΥΡΙ	IRR
2009	1,493,471	1,081,247	412,224	790,859	541,808	0.73	0.50	1.23	6.8%
2010	1,496,978	1,151,024	345,954	861,924	644,418	0.75	0.56	1.31	8.0%
Change	3,507	69,777	(66,270)	71,065	102,610	0.02	0.06	0.08	1.2%

- 1) Initiated in 1998 (12 years), invested in 139 partnerships (+4), 50% of NAV
- 2) Commitments increased by \$3.5 million during the year, with \$24 million of new commitments being offset by reductions in some existing funds (e.g., Candover)
- 3) The portfolio is 77% paid-in (mature)
- 4) Uncalled capital decreased (16%) as more capital was called than committed
- 5) The portfolio distributed \$71 million -- a 13% cash yield, up from \$27 million (4% yield)
- 6) Portfolio net cash flow was a positive \$1.3 million as more capital was distributed than paid-in, compared to a negative \$45 million in the prior year
- 7) Portfolio appreciation was \$104 million (+19%) versus unrealized depreciation of \$164 million (-25%) last year. NAV increased \$102 million (+19%)
- 8) All performance ratios improved and the TVPI is 1.31x
- 9) Abbott's IRR of 8.0% is high in the second quartile versus the ThomsonONE composite since 1998, which has a top quartile of 8.4% and a median of -0.3%
- 10) The second quartile ranking is due to the above market venture capital weighting

## $\mathcal{C}$

#### **Abbott: ThomsonONE Vintage Year Peer Group Benchmark**

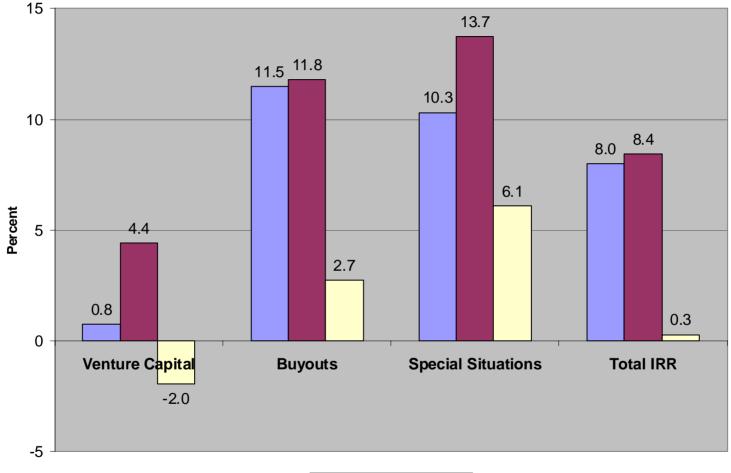
#### IRRs and Benchmarks as of March 31, 2010



**Alaska Retirement Management Board** 

#### **Abbott: ThomsonONE Strategy IRR Peer Group Benchmarking**

Cumulative Composite Benchmarks 3/31/1998 through 3/31/2010



■Abbott ■Upper Qtl ■Median

Note: Private equity holdings are March 31 values updated for June 30 cash flows

All strategy components are second quartile -- mostly high second quartile

A



#### **ARMB** Performance

Pathway Portfolio: 12-Month Changes, June 30, 2010 (\$000)

Year	Committed	Paid-In	Uncalled	Distributed	NAV	DPI	RVPI	TVPI	IRR
2009	1,068,902	669,799	399,103	299,135	468,922	0.45	0.70	1.15	8.6%
2010	1,111,505	751,638	359,867	357,525	577,390	0.48	0.77	1.24	10.5%
Change	42,603	81,839	(39,236)	58,390	108,468	0.03	0.07	0.10	1.9%

1) Initiated in mid-2002 (8 years), invested in 81 partnerships (+6), 45% of NAV

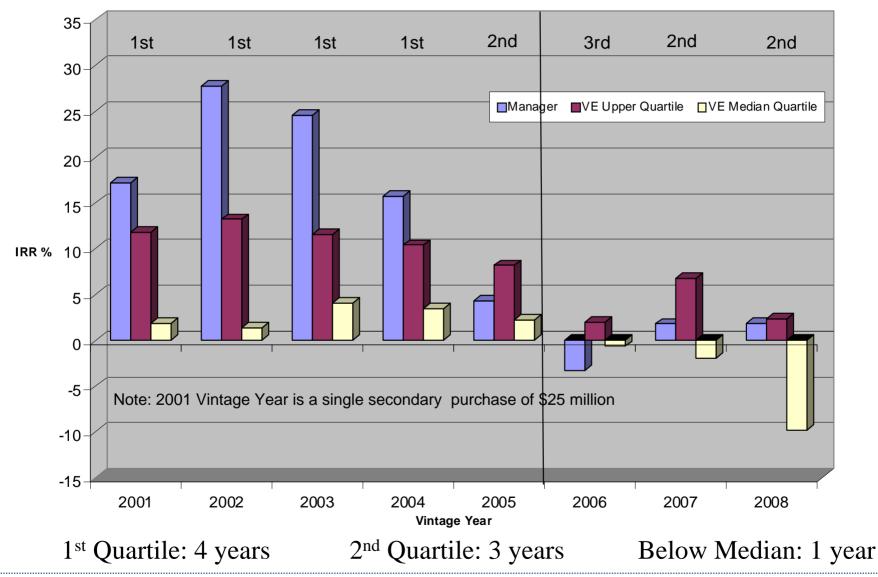
2) Commitments increased by 4%, down from 15% the previous year

- 3) The portfolio is 68% paid-in (maturing), up from 63% last year
- 4) Uncalled capital decreased 10% (capital calls exceeded new commitments), versus a 13% increase last year
- 5) Distributions were \$58 million -- a 12% cash yield, up from \$23 million (4% yield)
- 6) Portfolio net cash flow was a negative \$23 million or 5% of initial NAV, less than the negative \$70 million (3% of initial NAV) last year
- 7) Unrealized appreciation was \$85 million (+18%), versus depreciation of \$135 million (-25%) last year. NAV increased \$108 million (+23)
- 8) All performance ratios improved and the TVPI is now 1.24x
- 9) Pathway's IRR of 10.5% is first quartile versus the ThomsonONE composite since 2002, with a top quartile of 7.37% and median of 0.19%



#### **Pathway: ThomsonONE Vintage Year Peer Group Benchmark**

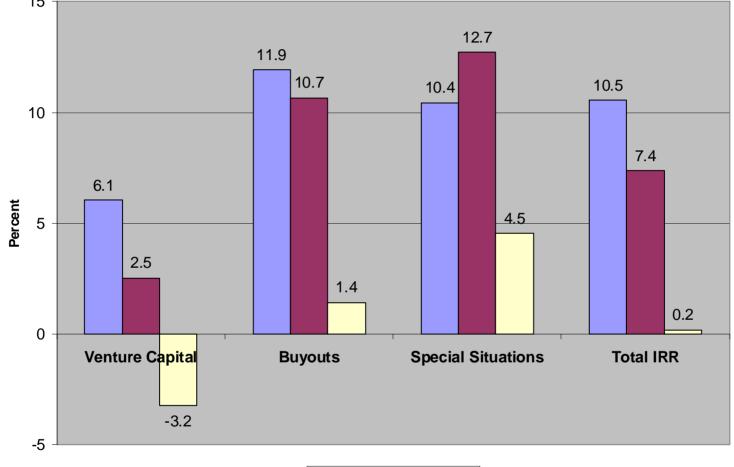
IRRs and Benchmarks as of March 31, 2010



**Alaska Retirement Management Board** 

#### Pathway: ThomsonONE Strategy IRR Peer Group Benchmarking

Cumulative Composite Benchmarks 6/30/2002 through 3/31/2010



■Pathway ■Upper Qtl ■Median

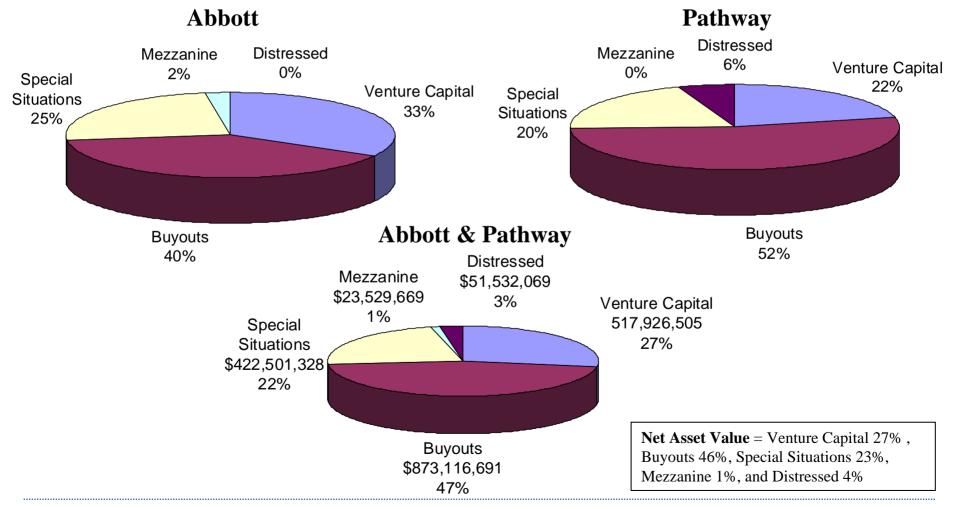
Note: Private equity holdings are March 31 values updated for June 30 cash flows

Venture, Buyout and Total are first quartile, Special Situations is second quartile

### **ARMB Private Equity Portfolio**

#### **Strategy Diversification**

Economic Exposure (Uncalled Capital + Net Carrying Value) [ARMB Nominal Targets = 25% VC, 40% Buyout, 35% Special Situation]



Alaska Retirement Management Board

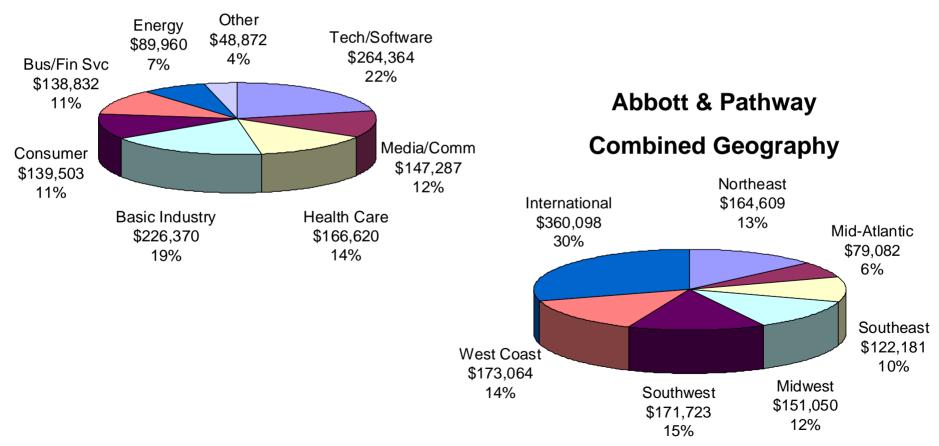


#### **ARMB Private Equity Portfolio**

### **Industry and Geographic Diversification**

#### Abbott & Pathway

#### **Combined Industry**





### **ARMB** Performance

#### In-House Portfolio: 12-Month Changes, June 30, 2010 (\$000)

Year	Committed	Paid-In	Uncalled	Distributed	NAV	DPI	R VPI	ΤΥΡΙ	IRR
2009	80,000	34,887	45,113	28	30,233	0.00	0.87	0.87	-14.3%
2010	155,000	43,704	111,296	99	44,746	0.00	1.02	1.03	1.6%
Change	75,000	8,817	66,183	71	14,513	0.00	0.16	0.16	15.9%

- 1) Initiated in 2008, five partnerships: VYs: 1-2007, 2-2008, 2-2010
- 2) Portfolio 28% paid-in and is fledgling. The last three partnerships were 6%, 1% and 0% paid-in at June 30, 2010
- Diversified by strategy: Special Situation (Hybrid), Distressed, Buyout, Secondary, Mezzanine
- 4) Commitments increased by \$75 million and two partnership during the year
- 5) Uncalled capital more than doubled, and paid-in capital was \$8.8 million
- 6) Distributions of \$71,000 occurred during the year
- 7) Unrealized appreciation was \$5.8 million (+19%). NAV increased \$14.5 million (+48%)
- 8) Performance went positive during the year although additions of new partnerships may reintroduce a "J-curve" effect
- 9) Portfolio was initiated just before the bubble peaked, has weathered the downturn and has a good backlog of uncalled capital
- 10) Fundraising market in the last two years has been slow and most attractive partnerships have been in both the Abbott and Pathway portfolios (trying not to triple down)

## Corporate Governance Portfolio - Performance

#### Strategic Partners III: 12-Month Changes, June 30, 2010 (\$000)

Year	Commit	Paid-In	Uncalled	Distrib	NAV	DPI	RVPI	T VPI	IRR	TWR	S&P 500
2009	50,000	46,258	1,305	10,205	28,356	0.22	0.61	0.83	-6.9%	-5.3%	-3.8%
2010	50,000	46,669	1,432	24,229	22,569	0.52	0.48	1.00	0.1%	0.4%	-0.5%
Change	-	411	127	14,024	(5,787)	0.30	0.00	0.17	7.0%	5.7%	3.3%

Figures are June 30 actual (not March 31 NAVs updated for June 30 cash flows)

TWR = Time-Weighted Return (period-linked return calculation normally used for public stock portfolios)

- 1) Two \$50 million commitments initiated in May 2005 focusing on activist investments in under-performing publicly-traded small- and mid-cap companies
- 2) One vehicle is public stocks-only and one can include private companies
- 3) Public-only vehicle was fully redeemed in 2009 with a \$15 million loss
- 4) Strategic III had unrealized appreciation of \$7.8 million or 28% during the year, most of which is reflected by distributions since the NAV decreased 20%
- 5) Strategic III has 11 public positions and 4 private investments
- 6) The portfolio has had challenges with Financials, Digital Media, and Education sector companies
- 7) Performance has reflected a concentrated, small company public stock portfolio



#### Observations

- ARMBs private equity portfolio is maturing, well-diversified and has good performance:
  - Had to overcome initial timing issue and target increases
  - Both managers are approximating top quartile
  - Abbott has provided the most of ARMB's exposure to hard-to-access venture capital funds
  - Pathway's buyout-oriented investment style has been in favor, and the timing of the portfolio's initiation was good
  - Blum portfolio is not private equity, has suffered timing issues, and has yet to show clear value-added
  - The in-house portfolio is new, relatively small, and well-positioned for the future. Initial timing and subsequent market conditions have slowed progress. The portfolio will take time to develop
  - Qualitatively, the portfolio is composed of highly experienced "top-tier" general partners



#### ARMB Summary

#### Observations

#### ARMB's private equity portfolio continued to develop and improve

- Portfolio is over the 7% nominal target, but within range. Uncalled commitments are only 63% of NAV, so we expect the percentage exposure to moderate with time
- Portfolio activity has been muted during the year. Commitments were slow and paidin capital was down slightly, but distributions increased markedly and valuations increased significantly
- The portfolio is maturing with Abbott being 77% and Pathway being 68% paid-in
- ARMB has an attractive strategy mix for a large fund, and is well-diversified by other measures

#### Looking forward

- Private equity is beginning to show some signs of increased activity
- Values are improving, but future news and progress will likely be mixed
- Commitments, investment pace, and distributions will continue to be slow until the debt markets return
- The underlying portfolio companies have weathered the worst of the economic downturn and the uncalled commitments can benefit from more favorable pricing and investment structures

#### ALASKA RETIREMENT MANAGEMENT BOARD

SUBJECT:	Manager Review Meeting	ACTION:	
DATE:	December 2, 2010	INFORMATION:	X

#### BACKGROUND

In preparation for the annual Manager Review meeting with the Investment Advisory Council (IAC) members and the general consultant (Callan), staff updated and sent the 2010 Manager Questionnaire to all investment managers under contract with the Alaska Retirement Management Board (Board). The questionnaire topics can broadly be classified as: Ownership/Structure, Process, Portfolio Performance and Characteristics, and Other Issues – including the investment process, change in ownership, growth of assets, and legal issues.

Every manager completed a questionnaire, and the responses were provided to the CIO, Callan, and IAC members. After reviewing all questionnaires, the group met to discuss the manager responses and other matters to be brought before the group. Participants in the review were Gary Bader, Chief Investment Officer; Judy Hall, Board Liaison Officer; Michael O'Leary, Callan Associates; and Dr. Bill Jennings and George Wilson, IAC members. The reviewers met in Denver on October 21, 2010.

#### STATUS:

Certain managers/asset groups were selected for extended discussion:

McKinley Capital Management	Small Cap Pool (Lord Abbett and Luther King)
RCM	Brandes Investment Partners
Mariner Investment Group	Relational Investors
T Rowe Price target date funds/stable value	Cap Guardian International
Eaton Vance	Private Equity
Farmland/Timber/Real Estate Program	

With respect to RCM, Brandes, Relational, and Cap Guardian International, after discussion on organizational structure/changes, benchmarks and performance, the group had no recommendations for further action by staff or consultants.

McKinley Capital manages a large cap growth mandate and an international mandate for the Board, and has been on the Watch List for the past year based on a recommendation from the review meeting in 2009. Mr. O'Leary noted that there were no changes of substance, but the development of the New York operation should be further investigated. Recent performance numbers were reviewed and discussed, along with benchmark comparisons. *Consensus: Staff to meet with McKinley to identify whether there is an edge in international space, with consideration to scaling back mandate; then report to Board.* 

Mariner Investment Group has been on the Watch List since April 2008 for underperformance, and would be placed on Watch List now for an ownership change. Mr. Bader observed that the managers always report that everything will remain the same after a merger or acquisition, but over time it always seems that things trail off. He had instructed staff to balance the allocation between absolute return managers. Mr. Bader questioned if it was time to turn the page on this asset class since it has never come close to achieving the goal of a 5% real return. Mr. O'Leary noted that the relative performance is okay, but the stated goal has not been achieved. Mr. Wilson stated he agreed with Mr. Bader's comments regarding organization changes. *Consensus: Evaluate the change of ownership with Mariner, continue watch list placement and equalize the absolute return portfolios.* 

The group had an extensive discussion regarding the small cap pool: the assets under management, performance, and the amount invested in passive Russell 2000 indices relative to that actively managed by Jennison, Lord Abbett and Luther King. Mr. Bader noted that the active managers have a growth tilt, but the passive managers had more under management which dominated performance – in rebalancing he would take from passive. The group further discussed the composition of the small cap pool and whether a more balanced approach should be put place. *Consensus: After selection and hiring of microcap managers, revisit small cap pool structure. Nothing with respect to the active managers is a concern.* 

T Rowe Price manages the target date funds for SBS, deferred comp and the defined contribution plans. The group had no issues to discuss regarding this mandate, but Mr. O'Leary recommended that staff conduct an annual review of the glide path in relation to its peer group. With respect to the stable value fund managed by T Rowe Price, Mr. Bader stated a potential problem with the Reality Investing optimizer selecting this fund for participants. It could result in a mass movement out of the fund which had negative consequences for remaining participants. *Consensus: staff to conduct an annual review of target funds glide paths. Staff will recommend to Board that the stable value fund be eliminated as a choice for the Reality Investing optimizer.* 

Real Estate Program: Mr. O'Leary stated that he recently saw an article that said ARMB was making no new investments in real estate – and that this was incorrect, the real estate managers have lots of uncommitted capital so the Board made no new allocations to the program. Mr. Bader noted that the past couple of years has been a learning experience regarding the difficulties of being in commingled funds. His position going forward will be that there must be a compelling reason to be involved. Mr. O'Leary and Mr. Wilson agreed. Mr. Bader observed that after the annual Real Estate Committee meeting, a trustee had asked why the other assets within the Real Assets allocation were not included in the committee review and staff agreed that a revision of the committee's focus should be considered. *Consensus: Staff will prepare a proposal for a Real Assets Committee for Board consideration.* 

Timber: Dr. Jennings noted that the timber allocation was slower to go out than planned; Mr. Bader agreed, but said that staff's position was not to prod managers to invest, but to always look for the best deal. Mr. O'Leary stated that volatility in the asset class has increased because of the magnitude of the recession and also new accounting standards tied to the appraisal process.

Farmland: Mr. Bader noted that the program had been carefully designed with certain parameters: a 5% real return, 20% permanent and 80% row crops, and it has worked well. UBS shows underperformance with NCRIEF, but they are doing what the Board asked and are meeting targets. Mr. O'Leary stated a

concern with the queue – more managers are not taking separate accounts in order to channel investors into commingled funds. Place in the queue is based on the signed contract each quarter. Mr. Bader said that Brian Webb leaving UBS was of some concern.

Other Topics:

Asset allocation with multiple asset groups: In response to a question from Dr. Jennings relating to real assets, Mr. O'Leary stated that for asset allocation purposes, Callan creates a policy level composite; the policy remains constant for a year. In this composite, energy gets short shrift, as does differentiation between farmland and commercial real estate. Dr. Jennings wondered if something has been lost in the asset allocation discussion by moving to 6 asset class levels. Mr. Bader agreed that this might be the case particularly being constrained in real assets. The large asset classes create simplicity and clarity for the Board, but create rebalancing challenges. Mr. O'Leary noted that the number of major asset categories could remain low, but broadening the bands would provide an increase in operating flexibility to deal with the denominator problem.

Mr. Bader stated that he intended to introduce several "tail risk" and volatility reduction strategies to the Board as educational topics. Mr. Wilson agreed that education for the Board is important. Mr. Bader indicated that he would probably have Citibank and Goldman talk about Libor Floors and Put Collars as a possibility.

Active vs. Passive: Charts were provided illustrating the active vs passive allocation with the large cap and small cap mandates. Mr. O'Leary noted that the definition of active and passive makes a difference as to how it is categorized, i.e., convertible bonds and covered calls.

While realizing that there have been significant manager changes over the past few years, Mr. Wilson noted after payment of management fees, active management of the ARMB equity portfolio had not beaten its passive benchmarks for a number of years. Mr. Bader noted that ARMB staff and the Board are continuing to monitor the appropriate level of passive management and this will be discussed at future board meetings.

Mr. O'Leary noted the persistent move to passive in large cap space and stated a personal preference for active management even in large cap. He advocated a lower weighting for passive in small cap and international. Mr. Bader said the large cap allocation is now 55% passive. *Consensus: Large Cap Passive Target for coming year – 60%; look at Relational and McKinley for trimming.* 

Assets Under Management: During the general discussion of certain managers, Dr. Jennings had noted the size disparity of manager mandates within the international allocation. Brandes has \$736 million, McKinley, \$283 million, SSgA \$239 million and Cap Guardian \$494 million. Dr. Jennings suggested reducing the positions of McKinley and Lazard and creating a 20-25% index target. The group discussed investment manager assets under management (AUM) from two perspectives: First as a percent of the ARMB's investments, and second from the perspective of ARMB's investments as a percentage of the investment manager's AUM. *Consensus: That the CIO report to the Board with a recommendation for addressing these two issues*.



### ARMB Board Meeting Investment Performance September 30, 2010

Michael J. O'Leary CFA Executive Vice President Callan Associates Inc. Prepared November 16, 2010

Preliminary Real Estate Returns are used in this report

Callan Associates • Knowledge for Investors

## Capital Markets Summary

Investors flooded back into risky assets and sent stocks sharply higher in the third quarter as strong corporate profits were being reported, some positive economic data was announced, and the prospect of further stimulus efforts from the government dominated headlines.

#### **Fixed Income**

- The fixed income markets once again posted solid gains in the third quarter. With a 2.5% gain in the quarter, the Barclays Capital (BC) Aggregate Index, which measures the U.S. investment grade bond market, has now maintained two straight years of positive quarterly returns.
- All sectors experienced positive performance for the quarter, with high yield bonds, commercial mortgagebacked securities (CMBS) and corporate bonds producing the highest returns.
- Treasury yields continued to fall and the dollar depreciated against most major currencies during the third quarter.

#### **Domestic Equity**

- The S&P 500 Index had its single best September showing since 1939, gaining 8.9%, bringing its third quarter gain to 11.3%.
- The rally was across all capitalizations, with the Russell 1000 Index and the Russell 2000 Index advancing 11.6% and 11.3%, respectively.
- Growth stocks were the clear favorites from a style perspective among large capitalization stock, with the Russell 1000 Growth Index posting a 13.0% versus a gain of 10.1% for the Russell 1000 Value Index. The difference in performance was mirrored among smaller capitalization stocks, with the Russell 2000 Growth Index (+12.8%) easily outpacing the Russell 2000 Value Index (+9.7%).

#### **International Equity**

- The non-U.S. equity markets regained their luster to lead the rally in the third quarter. The MSCI ACWI ex-U.S. Index gained 16.7%, while the MSCI Emerging Markets Index surged 18.2%.
- Developed markets, as measured by the MSCI EAFE Index, climbed 16.5%.



#### **Recovery comparison**

#### MARKET

#### Contributors to GDP Growth

		Last 50 Years		Last 7 Recessions		Last 7 Recoveries (1st Yr)		Most Recent Recession		Current Recovery (1st Yr)	
		Percent	Share	Percent	Share	Percent	Share	Percent	Share	Percent	Share
Ē.	Overall GDP Growth	3.2	100.0%	-1.8	100.0%	5.0	100.0%	-4.1	100.0%	3.0	100.0%
	Less Cyclical Components	2.6	81.2%	0.7	-39.9%	2.0	40.1%	0.6	-15.5%	-0.0	-0.8%
	Consumption Ex-Autos	2.1	66.6%	0.1	-4.0%	2.4	47.9%	-1.0	23.4%	1.1	35.6%
	Commercial Construction	0.1	1.9%	-0.1	3.8%	-0.1	-2.3%	-0.6	14.6%	-0.4	-14.89
	Net Exports	-0.1	-2.5%	0.4	-23.8%	-0.6	-12.7%	1.5	-37.4%	-0.8	-26.19
	Government	0.5	15.2%	0.3	-15.9%	0.4	7.2%	0.7	-16.1%	0.1	4.4%
	More Cyclical Components	0.6	18.8%	-2.5	139.9%	3.0	59.9%	-4.8	115.5%	3.0	100.89
	Auto Consumption	0.1	3.1%	-0.2	11.4%	0.4	7.7%	-0.6	15.2%	0.1	3.3%
	<b>Residential Construction</b>	0.1	2.2%	-0.5	27.3%	0.7	14.5%	-1.3	32.4%	0.1	4.4%
	Equipment	0.4	12.9%	-0.3	15.7%	0.5	9.1%	-1.6	38.0%	1.1	36.1%
	Change in Inventories	0.0	0.6%	-1.5	85.5%	1.4	28.6%	-1.2	29.9%	1.7	57.0%

Source: BEA, NBER, J.P. Morgan Asset Management.

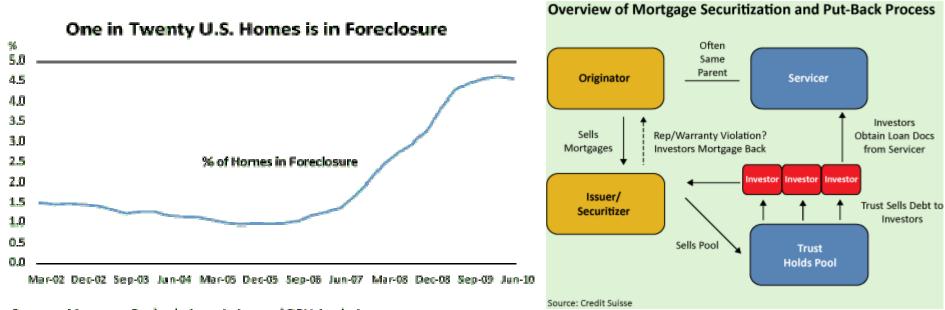
Last 50 Years are from 2Q60 – 2Q10. Last 7 Recessions are measured from peak real GDP to trough real GDP. Last 7 Recoveries are defined as the four quarters following the NBER-designated trough quarter. Most Recent Recession is defined from peak real GDP in 4Q07 to trough real GDP in 2Q09.

Note that contribution numbers are approximations due to the use of chain-weighted GDP, which is not designed to sum exactly. Most recent data as of 9/30/10.





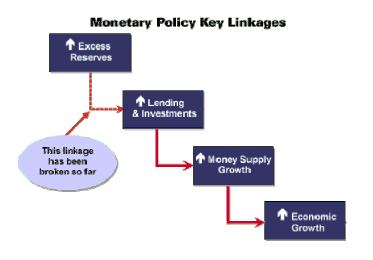
#### Mortgage Issues - another bump in the road

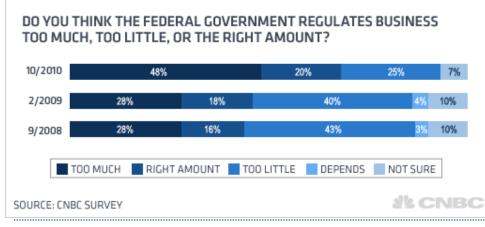


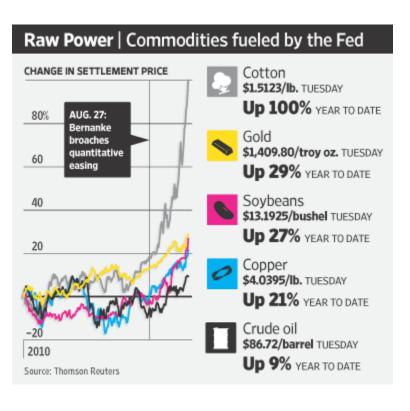
Sources: Mortgage Banker's Association and BBH Analysis



#### QE2, Commodity Spike, Deficit Reduction, Euro Concerns







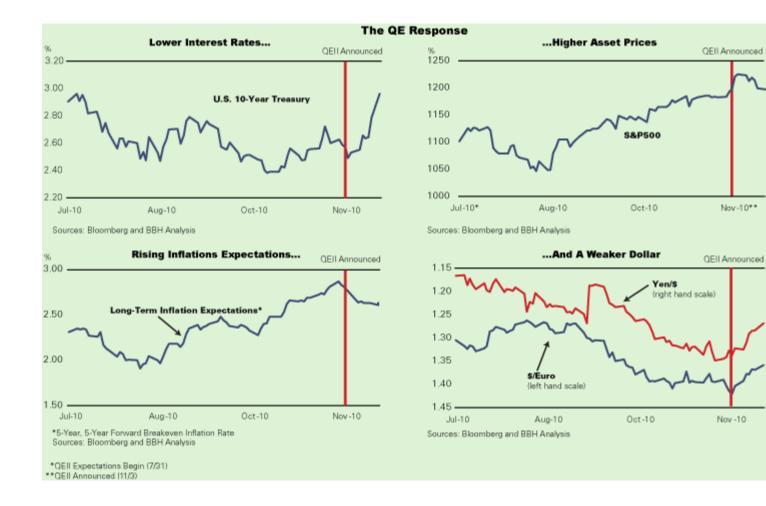
#### Deficit Panel Pushes Cuts

 Plan to Save \$3.8 Trillion Targets
 Medicare, Pentagon, Middle-Class Tax Breaks

September 2010



#### QE2 - "Buy on the rumor, sell on the news?"



87.0 86.0

85.0 84.0

83.0

82.0 81.0

80.0

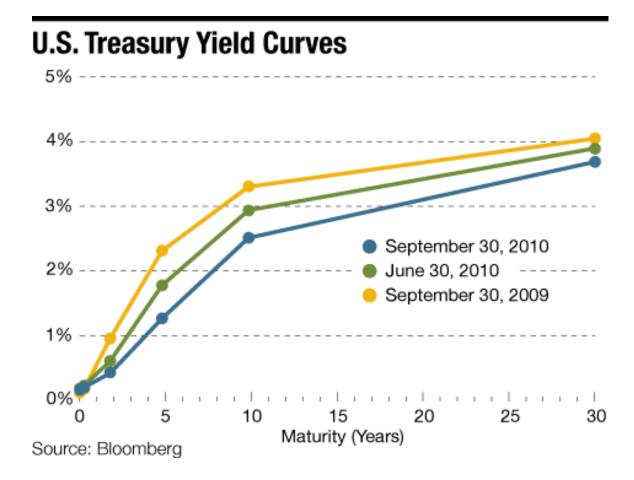
79.0

78.0

77.0

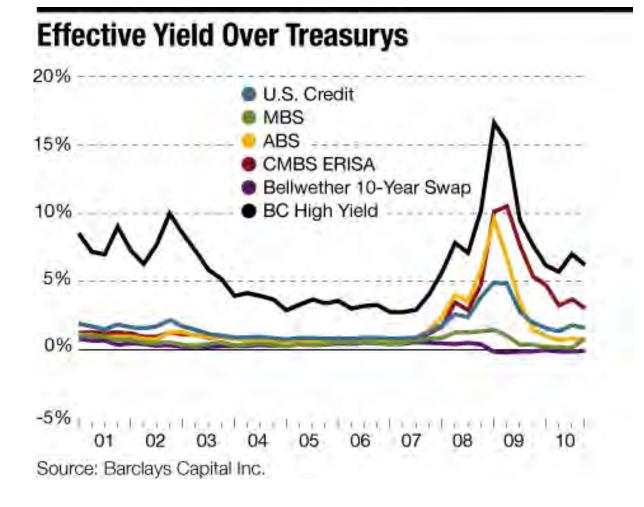


### **Fixed Income**



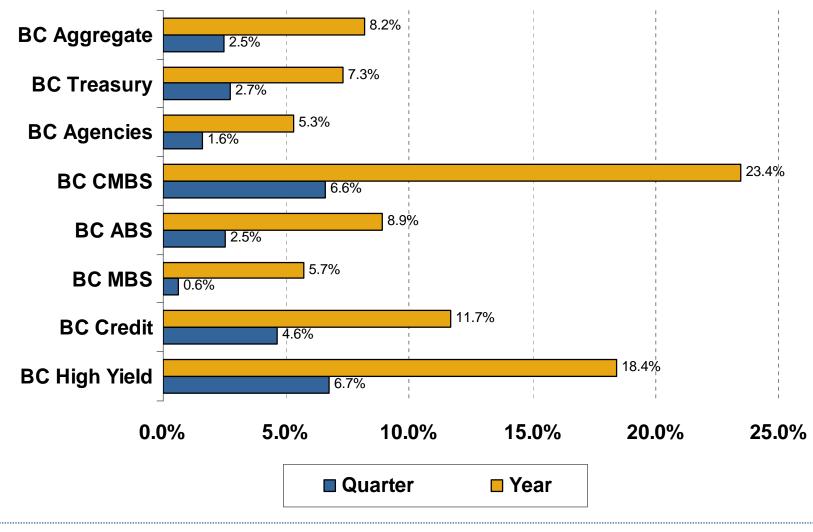


### **Fixed Income**



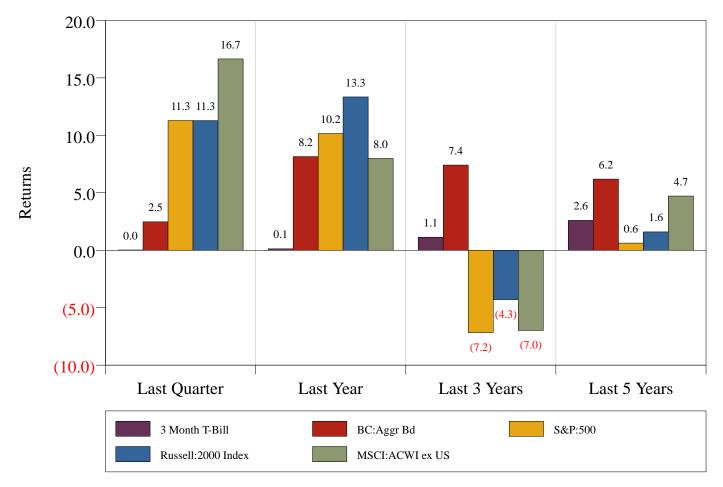
## $\mathcal{C}$

#### Total Rates of Return by Bond Sector Quarter ending September 30, 2010





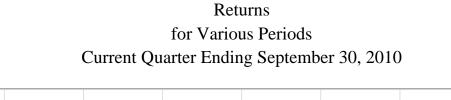
### **Cumulative Returns – periods ended 9/30**

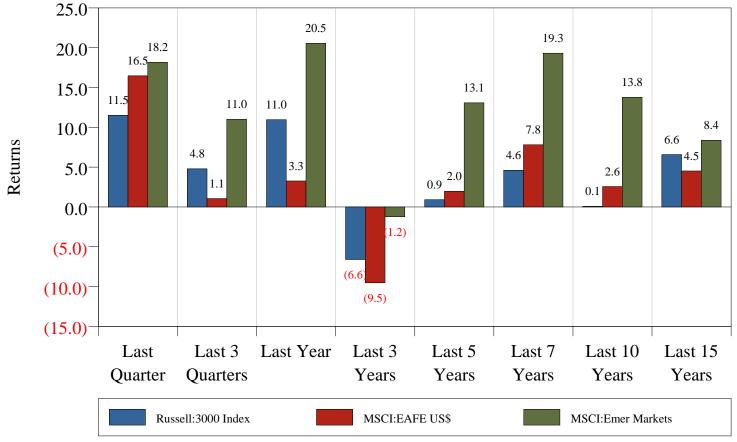


Returns for Quarter Ended September 30, 2010



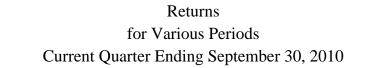
#### **Developed Equity versus Emerging Markets**

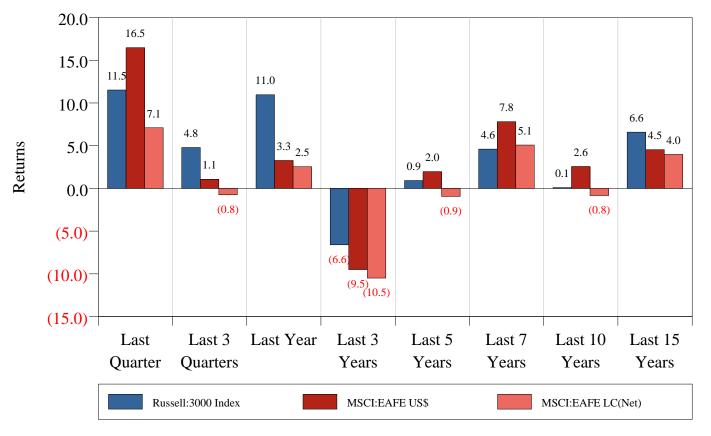






### Local versus Dollar Returns







#### Critical issues - valuation 9-30-10

#### MARKET

#### Stock Valuation Measures: S&P 500 Index

S&P 500 In	dex: Valuation Measures						
Valuation Measure	Description	Latest	1-year ago	3-year avg.	5-year avg.	10-year avg.	15-year avg.
P/E	Price to Earnings	12.3x	14.7x	13.2x	13.8x	15.8x	17.2x
P/B	Price to Book	2.1	2.1	2.2	2.4	2.8	3.2
P/CF	Price to Cash Flow	8.3	8.7	8.5	9.3	10.8	11.2
P/S	Price to Sales	1.1	1.1	1.1	1.2	1.4	1.5
Div. Yield	Dividend Yield	2.1%	2.1%	2.3%	2.2%	1.9%	1.9%



Source: (Top) Standard & Poor's, FactSet, J.P. Morgan Asset Management.

Price to Earnings is price divided by consensus analyst estimates of earnings per share for the next twelve months. Price to Book is price divided by book value per share. Data post-1992 include intangibles and are provided by Standard & Poor's. Price to Cash Flow is price divided by consensus analyst estimates of cash flow per share for the next twelve months. Price to Sales is calculated as price divided by consensus analyst estimates of sales per share for the next twelve months. Dividend Yield is calculated as consensus analyst estimates of dividends for the next twelve months divided by price. All consensus analyst estimates are provided by FactSet. (Bottom Heft) Q-Ratio based on data from the Federal Reserve, table B.102, 3Q10 is an estimate provided by J.P. Morgan Asset Management as of 9/30/10. (Bottom right) Standard & Poor's, Moody's, J.P. Morgan Asset Management. Data are as of 9/30/10.

Asset Management



### **Interesting Graph from Vanguard**

Are stocks set to outperform bonds?



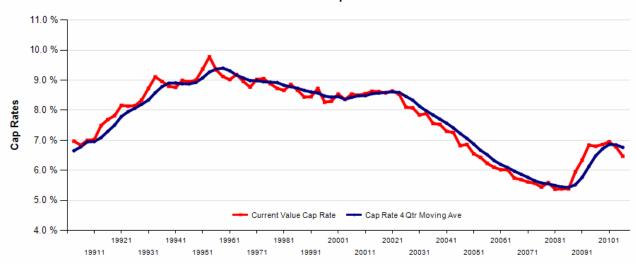
Rolling 10-year return differential of stocks versus bonds

### **Real Estate – further improvement**

NOREIT RECEITS

#### NCREIF Returns

19791 19801 19811 19821 19831 19841 19851 19861 19871 19881 19891 19901 19911 19921 19931 19941 19951 19951 19951 19951 19991 2001 2001 2001 2001 2001 20031 20041 20051 20061 20071 20081 20091 20101



**Current Value Cap Rates** 

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#### **Private Equity Performance** Industry performance (note date) & Activity

#### Private Equity Performance Database (Pooled Horizon IRRs Through March 31, 2010)

	_		_		-
Strategy	Year	3 Years	5 Years	10 Years	20 Years
All Venture	11.5	0.5	4.6	-1.5	17.8
All Buyouts	19.4	-0.5	5.4	4.0	9.0
Mezzanine	4.0	0.8	2.7	2.3	6.7
All Private Equity	21.9	0.6	5.8	3.8	11.3
S&P 500	49.8	-4.2	1.9	-0.7	8.7

Private equity returns are net of fees.

Source: Thomson ONE.

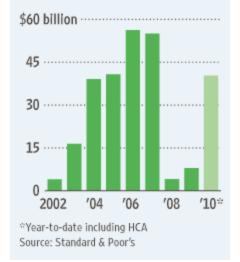
#### Funds Closed 1/1/10 to 9/30/10

Strategy	# of Funds	Amt (\$MM)	%
Venture Capital	98	8,924	13%
Acquisitions/Buyouts	92	31,640	46%
Subordinated Debt	21	5,393	8%
Distressed Debt	14	9,741	14%
Other	12	8,543	13%
Fund-of-funds	32	4,052	6%
Totals	269	68,292	100%

Source: Private Equity Analyst

#### **Buyout Rewards**

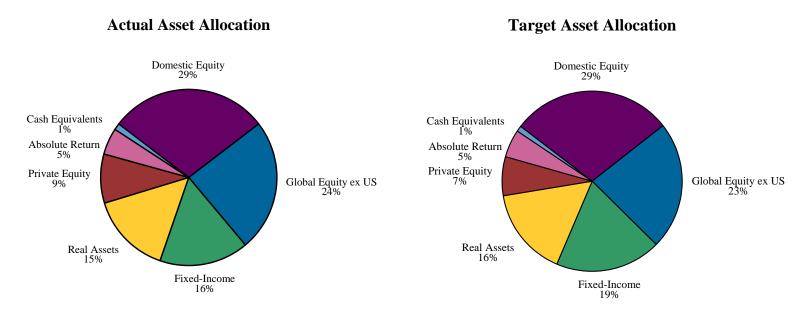
Junk debt issuance to finance payouts to private-equity owners





### **Asset Allocation – PERS**

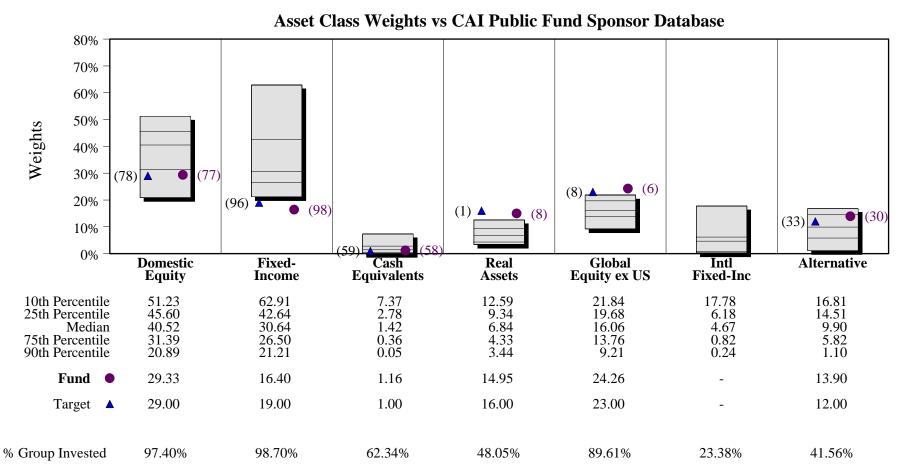
PERS is used as illustrative throughout the presentation. The other plans exhibit similar modest and understandable variations from strategic target allocations.



	\$000s	Percent	Percent	Percent	\$000s
Asset Class	Actual	Actual	Target	Difference	Difference
Domestic Equity	1,680,993	29.3%	29.0%	0.3%	18,842
Global Equity ex US	1,390,639	24.3%	23.0%	1.3%	72,381
Fixed-Income	939,853	16.4%	19.0%	(2.6%)	(149, 142)
Real Assets	857,132	15.0%	16.0%	(1.0%)	(59,916)
Private Equity	517,014	9.0%	7.0%	2.0%	115,811
Absolute Return	279,502	4.9%	5.0%	(0.1%)	(7,076)
Cash Equivalents	66,421	1.2%	1.0%	0.2%	9,105
Total	5,731,555	100.0%	100.0%		

## Asset Allocation Versus Public Funds

**Callan Public Fund Database** 



•Total fixed income is below target while international equity real assets and alternatives are high when compared to other public funds. Policy is "growth" oriented as opposed to "income" oriented.

Note that "alternative" includes private equity and absolute return



### **PERS Performance September Quarter**

### PERS

#### **Relative Attribution Effects for Quarter ended September 30, 2010**

Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Manager Effect	Asset Allocation	Total Relative Return
Domestic Equity	29%	29%	11.21%	11.53%	(0.09%)	(0.01%)	(0.10%)
Fixed-Income	19%	19%	3.61%	3.64%	(0.01%)	0.02%	0.01%
Real Assets	16%	16%	1.87%	3.01%	(0.18%)	0.02%	(0.16%)
Global Equity ex US	22%	23%	16.09%	16.66%	(0.12%)	(0.11%)	(0.24%)
Private Equity	10%	7%	0.81%	13.02%	(1.18%)	0.08%	(1.11%)
Absolute Return	5%	5%	0.27%	1.29%	(0.05%)	(0.01%)	(0.07%)
Cash Equivalents	1%	1%	0.13%	0.03%	0.00%	0.03%	0.03%
Total			7.70% =	9.32%	+ (1.63%)+	0.01%	(1.63%)

Preliminary private real estate & total real assets lagged target but were positive. This represents the second quarter of positive returns and is encouraging.

Private equity (a huge contributor in the June quarter) lagged significantly during the September quarter (0.81% versus a public market benchmark of 13.02%). This represents, in our judgment, largely a timing issue.



### **Trailing 12 months**

### PERS

#### **One Year Relative Attribution Effects**

A sect Class	Effective Actual	Effective Target Weight	Actual	Target	Manager	Asset	Total Relative
Asset Class	Weight		Return	Return	Effect	Allocation	Return
Domestic Equity	31%	30%	10.89%	10.96%	(0.01%)	0.04%	0.03%
Fixed-Income	19%	20%	9.32%	8.69%	0.11%	(0.03%)	0.08%
Real Assets	15%	16%	4.80%	5.54%	(0.12%)	(0.06%)	(0.18%)
Global Equity ex US	22%	22%	9.35%	8.00%	0.27%	(0.15%)	0.13%
Private Equity	9%	7%	15.88%	8.96%	0.52%	0.02%	0.54%
Absolute Return	5%	5%	4.31%	5.13%	(0.05%)	(0.02%)	(0.07%)
Cash Equiv	0%	0%	-	-	0.00%	0.03%	0.03%
Total			9.61% =	9.06%	+ 0.72% +	(0.17%)	0.55%

The trailing 1-year return was better than target with positive contributions from Fixed Income, International Equity, and Private Equity.

Real assets lagged target primarily owing to real estate underperforming the real estate target (- 3.81% versus +3.65%) for the benchmark



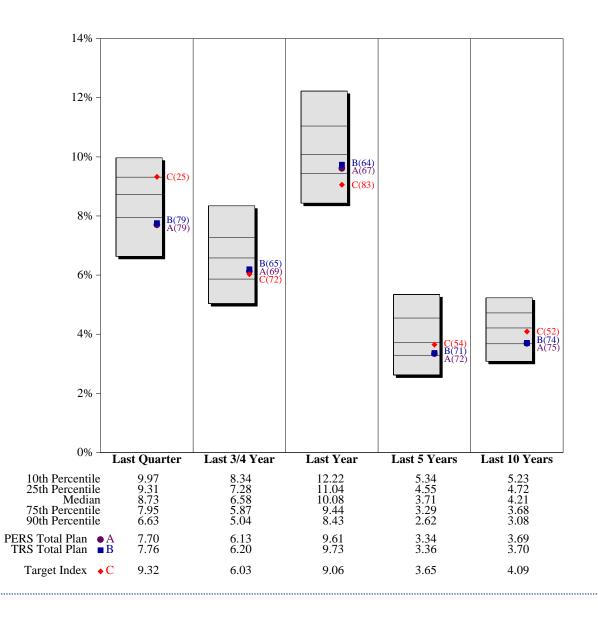
#### **PERS Intermediate Term Performance**

#### **Five Year Annualized Relative Attribution Effects**

Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Manager Effect	Asset Allocation	Total Relative Return
Domestic Equity	34%	34%	0.59%	0.72%	(0.06%)	0.06%	0.01%
Fixed-Income	19%	20%	6.27%	6.48%	(0.00%)	0.04%	0.00%
High Yield	1%	1%	-	-	0.00%	0.00%	0.00%
Real Assets	13%	12%	2.99%	5.72%	(0.47%)	(0.06%)	(0.53%)
International Equity	19%	18%	5.10%	3.98%	0.16%	0.02%	0.19%
Int'l Fixed-Income	1%	1%	-	-	(0.00%)	(0.03%)	(0.03%)
Private Equity	8%	7%	8.90%	1.57%	0.38%	(0.07%)	0.30%
Absolute Return	4%	5%	2.23%	7.33%	(0.21%)	(0.08%)	(0.29%)
Other	1%	2%	-	-	0.03%	0.02%	0.05%
Cash Equiv	0%	0%	-	-	0.00%	0.01%	0.01%
Total			3.34% =	3.65%	+ (0.21%) +	(0.10%)	(0.31%)



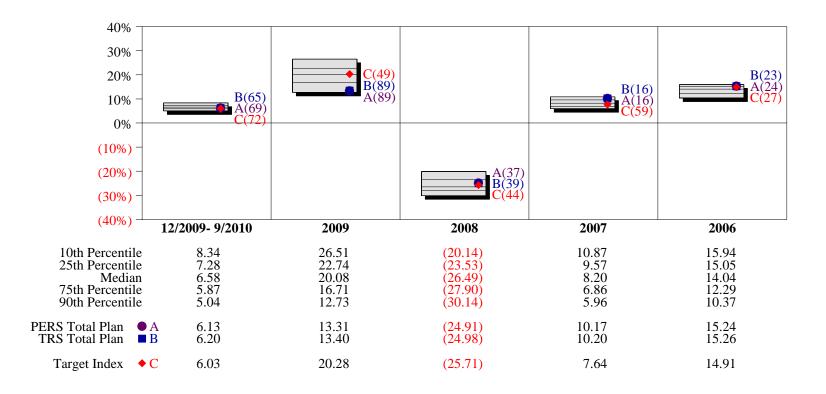
### **Cumulative Total Fund Returns**



September 2010



### Calendar Period Performance Relative to Public Fund Database





# Long-term Return Relative to Target years

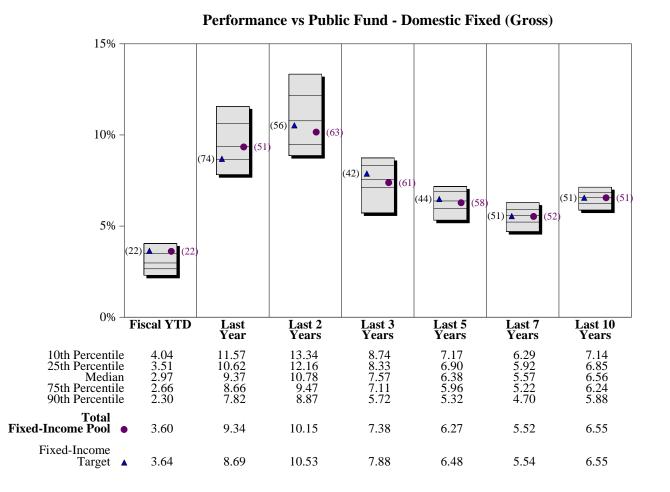
**Cumulative Returns Actual vs Target** 450% Total Fund Total Fund Target 400% Actuarial Expected Return 350% 300% Cumulative Returns 250% 200% 150% 100% 50% 0% 91199219931994199519961997199819992000200120022003200420052006200720082009 10

PERS

September 2010



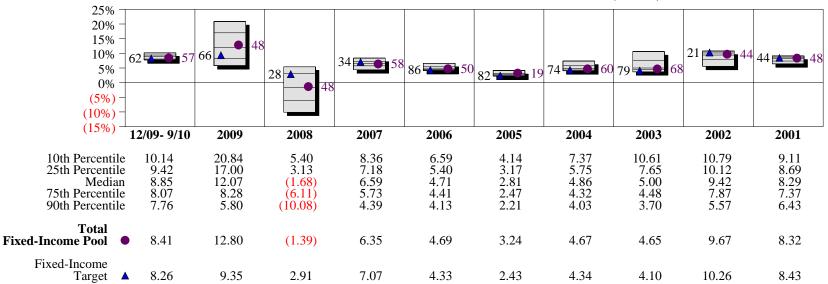
#### **Total Bond Performance** (includes in-house & external portfolios)



Please note that the fixed income target was changed for fiscal 2011. This change reflects the shift from BC Aggregate to BC Intermediate Treasury Index for the majority of assets.



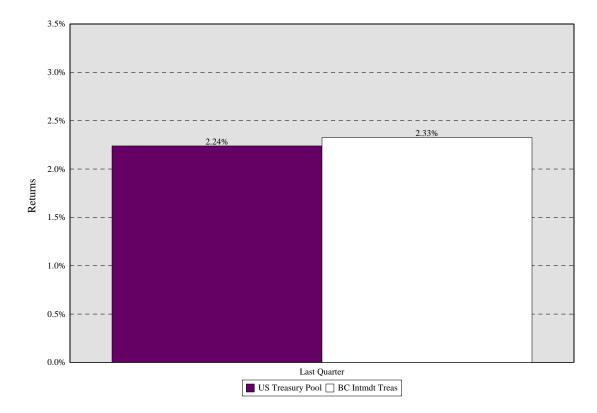
### **Total Fixed - Calendar Periods**



**Performance vs Public Fund - Domestic Fixed (Gross)** 



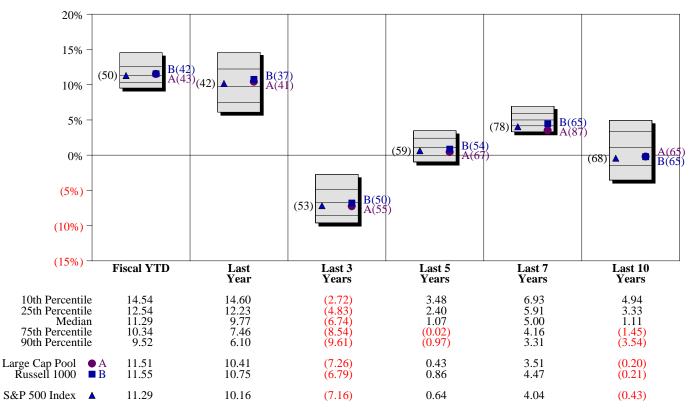
#### In-house Portfolio –compared BC Intermediate Treasury Index





#### Large Cap Equity Portfolios Index like results for quarter

#### Performance vs CAI Large Capitalization Style (Gross)

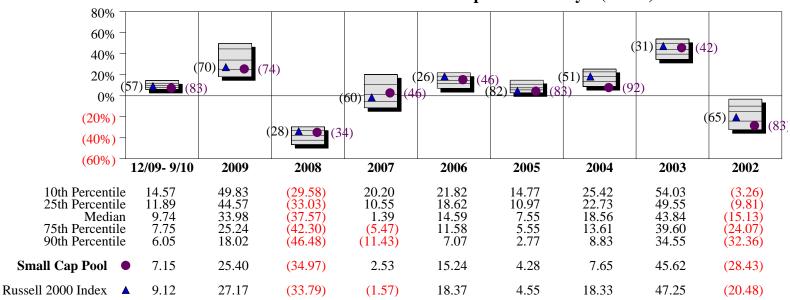


Barrow Hanley & QMA had strong full year results

- McKinley enjoyed a strong quarter but trailing 1-year return remains weak.
- Relational exhibits a similar pattern, good quarter but weak longer-term results.
- RCM had a very weak year but still has strong longer-term results.



#### **Small Cap Performance – calendar periods**

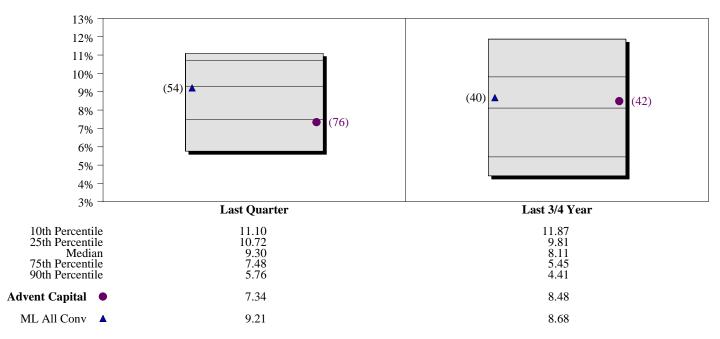


Performance vs CAI Small Capitalization Style (Gross)

Total small cap pool – better than large cap but below benchmark for the quarter & essentially at benchmark for the year.

- Strong year & long-term = Jennison enjoyed an excellent year.
- •Lord Abbett continued to lag but longer-term results still attractive.
- Luther King = Good quarter, ok since inception.

#### Other Equity – Related Note in future reports covered call portfolio will also be grouped in "Other"



Performance vs CAI Convertible Bonds Database (Gross)

Advent convertible portfolio is part of the total domestic equity pool.

It will tend to lag rising equity markets and outpace equities in declining and/or flat market

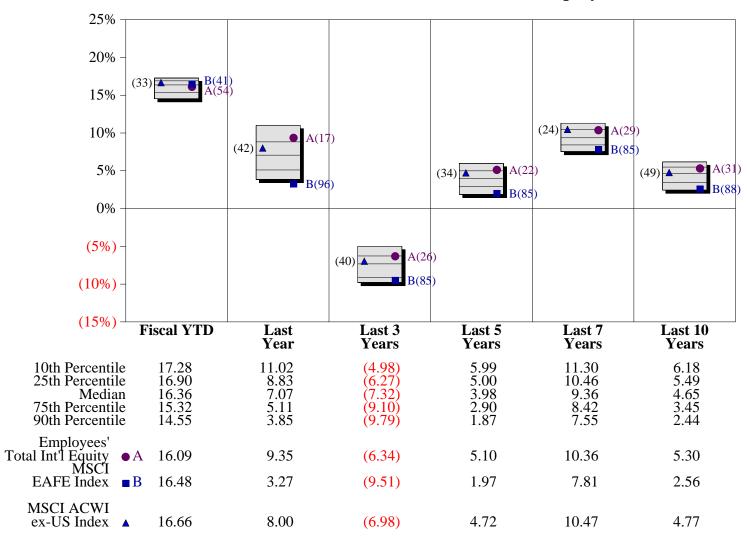
•For example, during the September quarter converts underperformed the domestic stock market (7.34% versus 11.53%) but over the 9 months outperformed nicely (8.48% versus 4.78% for the Russell 3000)

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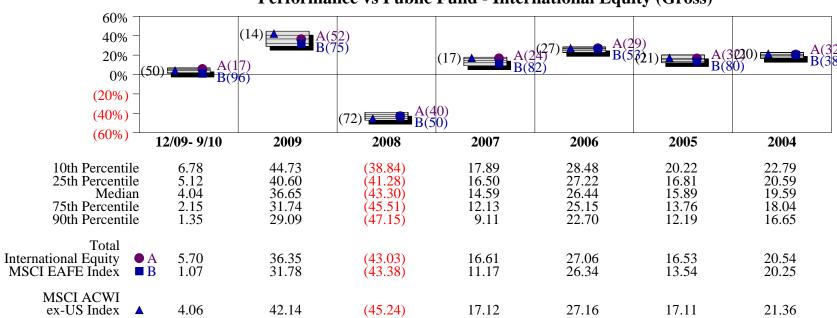
# International Equity – Strong absolute & relative returns when compared to other public funds

**Performance vs Public Fund - International Equity (Gross)** 





### **International - Calendar Periods**

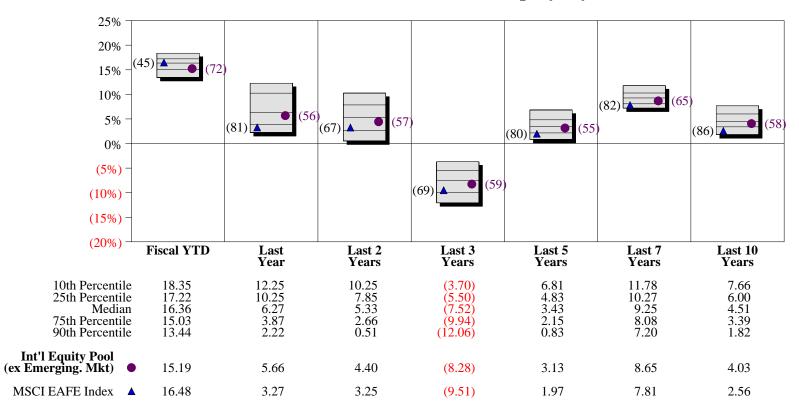


Performance vs Public Fund - International Equity (Gross)

•EM exposure raised total international returns for periods before and after 2008.

## International ex EM versus Managers

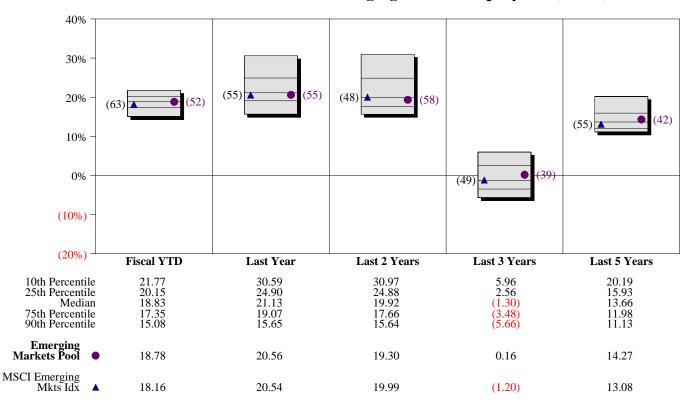
Performance vs CAI Non-U.S. Equity Style (Gross)



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#### **Emerging Markets Pool – Recent and longer-term results exceed target**



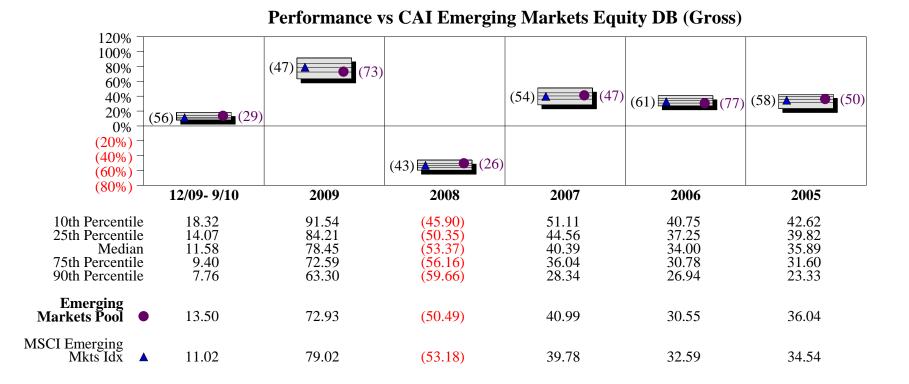
Performance vs CAI Emerging Markets Equity DB (Gross)

Only one of three EM managers beat benchmark for the year (Lazard +25.16%). Capital and Eaton Vance narrowly trailed the benchmark.

•Only Capital has a longer-term record for ARMB which remains very strong.

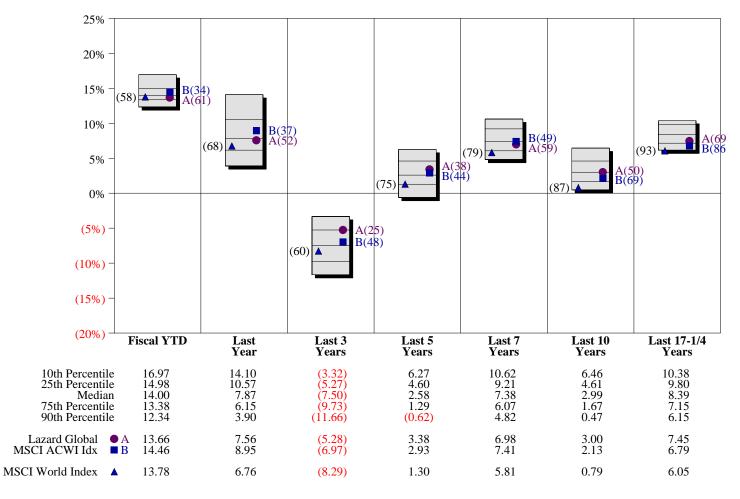


#### **Emerging Markets Pool - Calendar Periods**





# Global (Lazard) – Very competitive results relative to developed world markets.

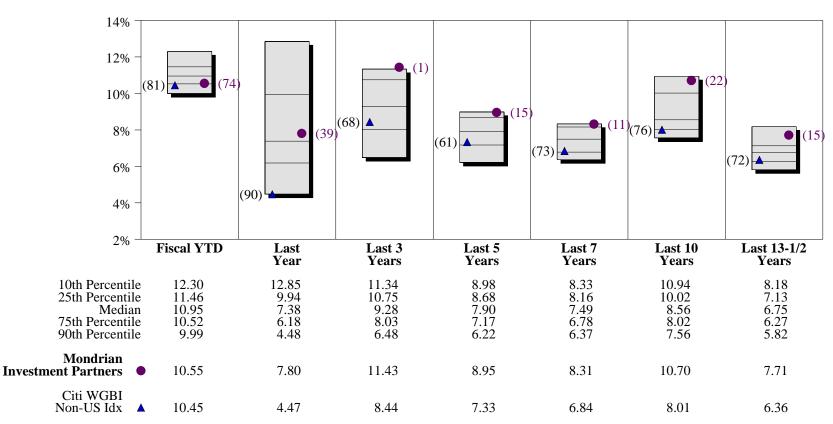


#### Performance vs CAI Global Equity Broad Style (Gross)

September 2010



### **International Bonds - Mondrian**



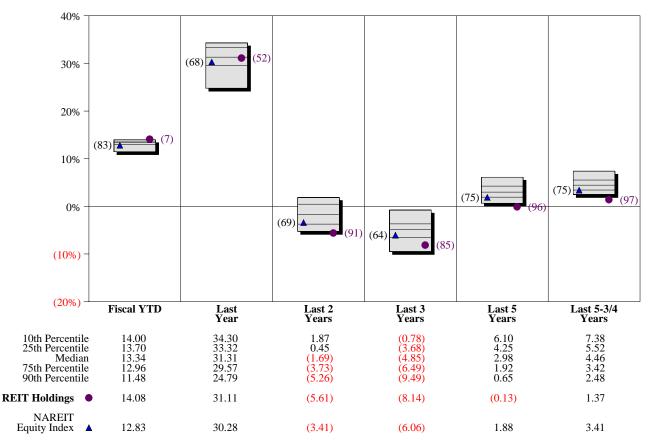
#### **Performance vs CAI Non-U.S. Fixed-Inc Style (Gross)**

•Very strong performance for quarter aided by dollar weakness. Long-term results have been excellent.



# **REIT Portfolio – strong absolute quarter & trailing year**



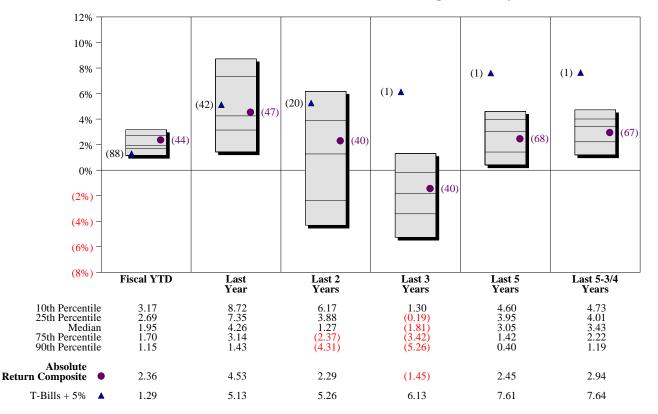


- Excellent quarter & trailing 12 months.
- Portfolio increase during the quarter was very timely.



# **Absolute Return Composite**

Performance vs Absolute Return Hedge FoFs Style (Net)

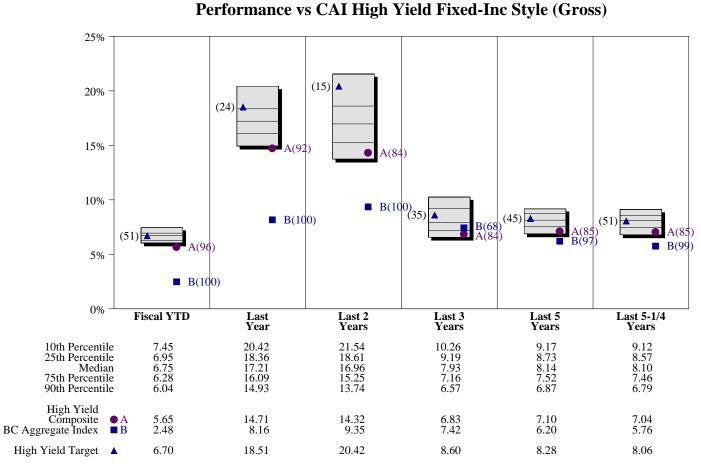


•All continuing managers have achieved competitive returns (this comment includes the 2 new managers and the 2 continuing managers but excludes Cadogan (in the process of liquidating the portfolio).

Two new managers were funded during the March quarter so we have only ½ year of results. Thus far both are doing well.



# **High Yield Composite**



•Both high yield managers, Rogge & MacKay, have a higher quality orientation and understandably lagged target for the trailing two years and thus pulling down longer-term relative performance.

Interesting to note that despite the underperformance relative to the high yield target, the composite has outperformed investment grade bonds.



## **SBS**, Deferred Comp

- Each quarter we typically highlight certain segments of the various participant directed programs. Information regarding those funds discussed last quarter are updated again. Next quarter, we will focus on the passive vehicles available to participants.
  - Stable Value
    - SBS
    - Deferred Comp
  - Balanced Trust
  - Long-term Balanced Trust
  - Actively managed funds
    - Brandes International Trust
    - T. Rowe Price Small Cap
    - RCM Socially Responsible
  - Select Target Date Trusts



### **SBS Asset Allocation**

	September 30, 2010			June 30, 2010		
	Market Value	Percent	Net New Inv.	Inv. Return	Market Value	Percent
<b>Balanced/Target Funds</b>						
Alaska Balanced Fund	1,045,553,934	43.47%	(8,810,719)	59,015,126	995,349,527	44.36%
Long Term Balanced Fund	318,440,688	13.24%	8,894,266	25,406,259	284,140,163	12.66%
Target 2010 Fund	29,050,392	1.21%	(1,005,147)	130,422	29,925,117	1.33%
Target 2010 Trust	4,723,561	0.20%	268,599	420,816	4,034,146	0.18%
Target 2015 Trust	82,552,871	3.43%	302,613	6,826,694	75,423,564	3.36%
Target 2020 Trust	30,652,947	1.27%	410,126	2,886,840	27,355,981	1.22%
Target 2025 Trust	14,544,258	0.60%	660,525	1,779,044	12,104,689	0.54%
Target 2030 Trust	4,605,391	0.19%	431,543	817,663	3,356,185	0.15%
Target 2035 Trust	5,718,603	0.24%	362,391	946,330	4,409,882	0.20%
Target 2040 Trust	6,200,659	0.26%	428,360	1,262,121	4,510,178	0.20%
Target 2045 Trust	5,487,547	0.23%	606,637	1,287,504	3,593,406	0.16%
Target 2050 Trust	5,861,258	0.24%	508,570	1,436,450	3,916,238	0.17%
Target 2055 Trust	2,333,152	0.10%	546,928	504,089	1,282,135	0.06%
Domestic Equity Funds						
State Street S&P	205,473,414	8.54%	(4,665,016)	21,055,781	189,082,649	8.43%
RCM Socially Responsible	24,643,566	1.02%	(678,909)	2,614,281	22,708,193	1.01%
Russell 3000 Index	6,945,295	0.29%	(328,458)	721,706	6,552,046	0.29%
T. Rowe Price Small Cap	56,771,783	2.36%	(3,059,768)	6,637,366	53,194,185	2.37%
International Equity Funds						
Brandes Int'l Fund	74,715,126	3.11%	(1,338,454)	8,988,217	67,065,363	2.99%
World Eq Ex-US Index	10,142,062	0.42%	103,289	1,393,116	8,645,657	0.39%
Fixed-Income Funds						
BlackRock Govt/Credit Fd	50,177,088	2.09%	2,587,923	1,541,377	46,047,789	2.05%
Intermediate Bond Fund	14,390,907	0.60%	(620,095)	296,643	14,714,359	2.05 % 0.66%
Long US Treasury Bond	13,156,911	0.55%	930,744	489,700	11,736,467	0.52%
US TIPS	14,029,737	0.58%	(376,456)	322,462	14,083,731	0.63%
World Gov't Bond Ex-US	3,922,680	0.16%	1,560,995	323,666	2,038,019	0.03%
Wolld Gov t Bolid Ex-05	3,922,080	0.1070	1,500,995	525,000	2,038,019	0.0970
Global Balanced Funds						
SSgA Global Balanced	50,189,843	2.09%	(136,485)	4,739,301	45,587,027	2.03%
Real Estate Funds						
US REITS	18,779,054	0.78%	(1,280,601)	2,108,676	17,950,979	0.80%
Short Term Funds						
T. Rowe Price Stable Value	292,402,732	12.16%	8,577,533	2,646,111	281,179,088	12.53%
SSgA Inst Trsry MM	13,926,080	0.58%	(5,486)	1,146	13,930,421	0.62%
Total Fund	\$2,405,391,539	100.0%	\$4,875,449	\$156.598.905	\$2,243,917,184	100.0%
1 otar Funu						

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# SBS Stable Value Option (\$292 million)

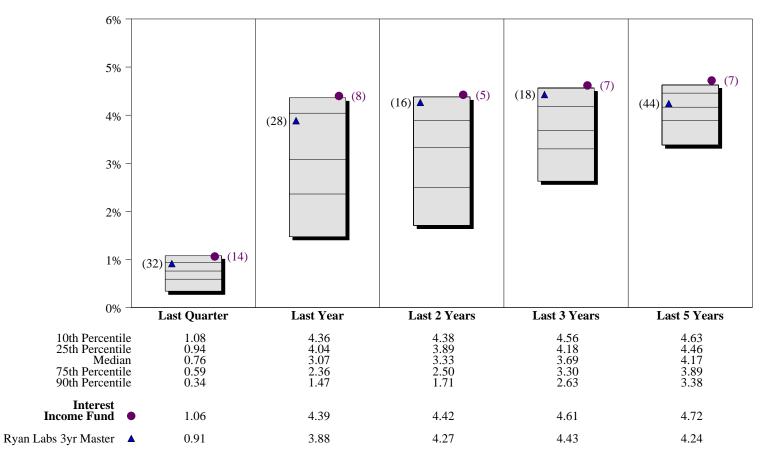
6% 5% A(25)<sup>(16)</sup> (18) A(34) 0 A(25)(44) A(52) (54) A(20) 4% (28) 3% ■ B(96) ■ B(96) 2% ■ B(97) 1% A(23) (32) **B**(100) ■ B(99) B(98) 0% Last Last Last 2 Last 3 Last 5 Last 6 Quarter Year Years Years Years Years  $\begin{array}{c} 4.36\\ 4.04\end{array}$  $\begin{array}{c} 1.08\\ 0.94 \end{array}$ 4.38 3.89 **10th Percentile** 4.56 4.63 4.65 4.49 25th Percentile 4.18 4.46 3.33 2.50 0.76 3.07 Median 3.69 4.17 4.19 75th Percentile 0.59 2.36 3.30 3.89 3.95 90th Percentile 0.34 1.47 1.71 2.63 3.38 3.50 T. Rowe Price Stable Value Fund • A 0.96 4.02 3.95 4.18 4.34 4.13 3-month Treasury Bill B 0.03 0.13 0.26 1.13 2.61 2.61 Ryan Labs 3yr Master 🔺 0.91 3.88 4.27 4.43 4.24 4.06

Performance vs CAI Stable Value Database (Gross)

(X)



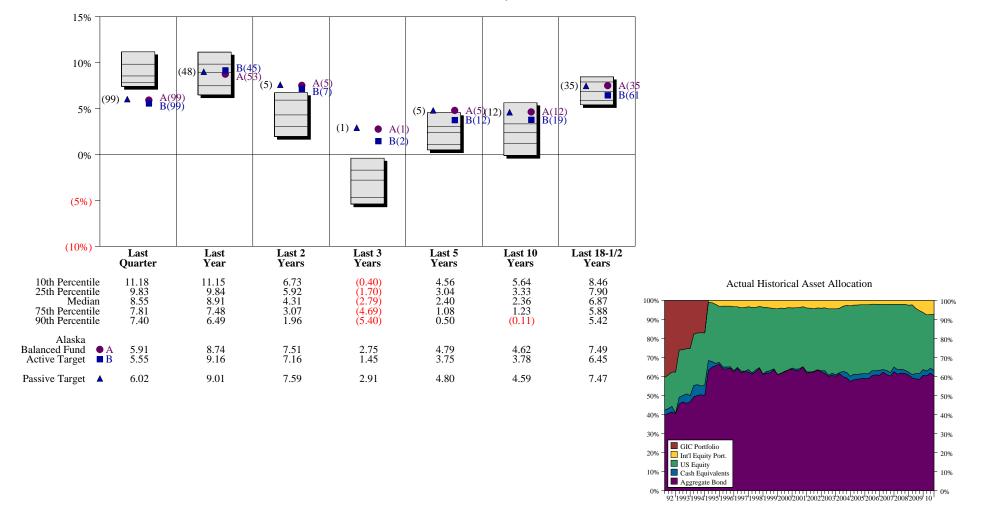
# Deferred Compensation Plan - Stable Value (\$166 million)



Performance vs CAI Stable Value Database (Gross)



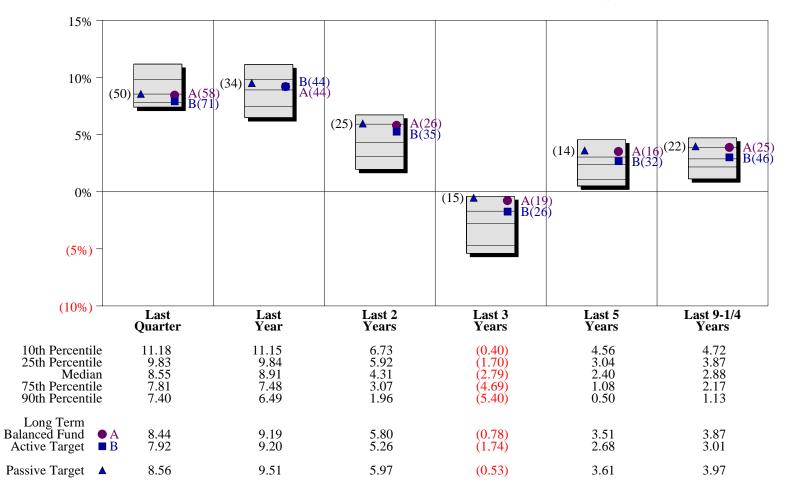
Performance vs CAI MF - Domestic Balanced Style (Net)





## **Long-Term Balanced Trust**

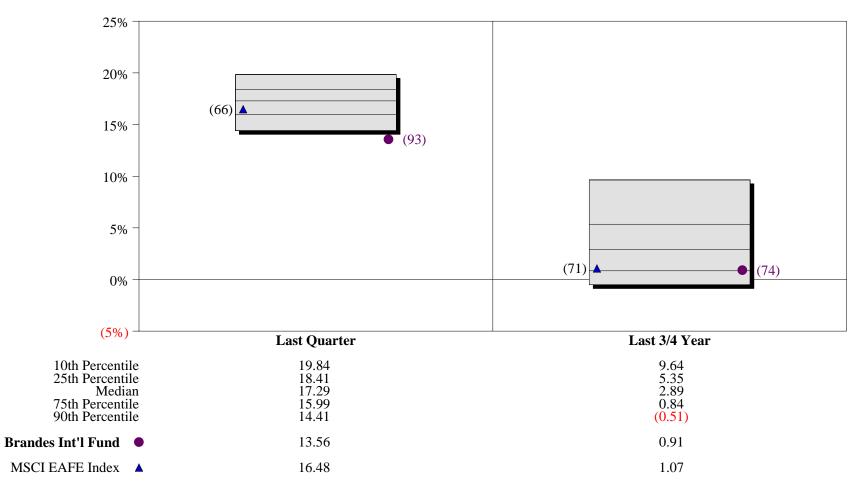
**Performance vs CAI MF - Domestic Balanced Style (Net)** 





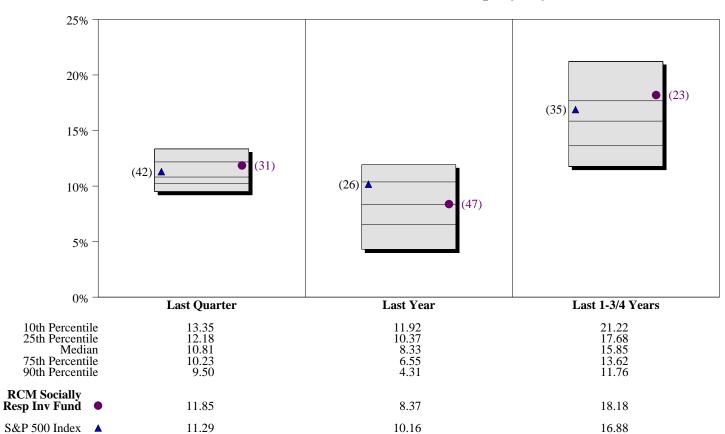
## **Brandes International Trust**

**Performance vs CAI MF - Non-US Equity Style (Net)** 



September 2010

#### **RCM Socially Responsible Investment Fund**



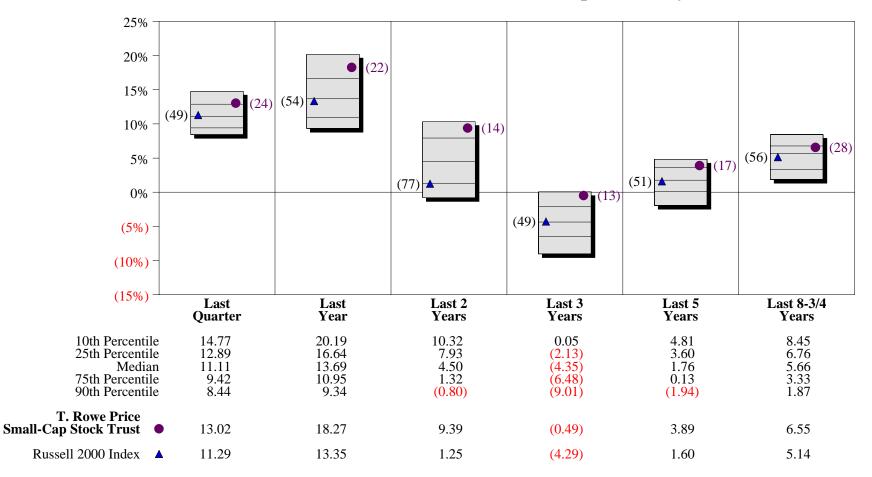
Performance vs CAI MF - Core Equity Style (Net)

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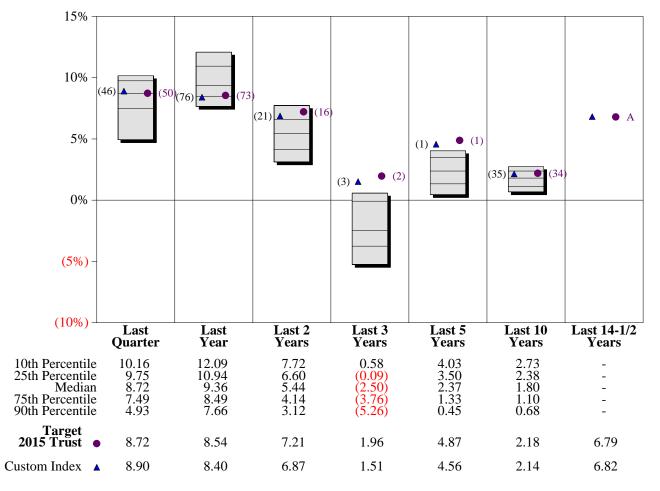
# **T. Rowe Price Small Cap**

**Performance vs CAI MF - Small Cap Broad Style (Net)** 





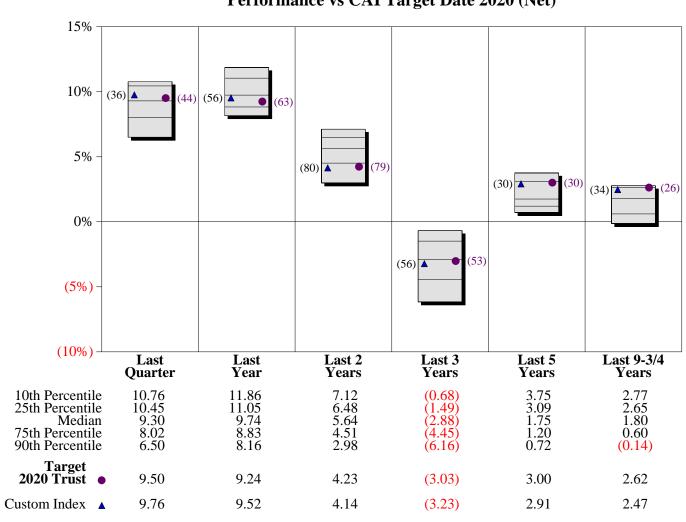
#### Select Target Maturity Trusts Target 2015 Trust



Performance vs CAI Target Date 2015 (Net)



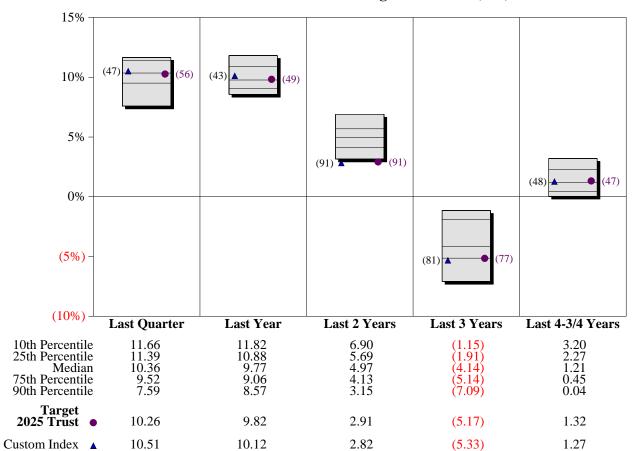
## Target 2020 Trust



Performance vs CAI Target Date 2020 (Net)



### Target 2025 Trust



Performance vs CAI Target Date 2025 (Net)



#### Target 2030 & 2035 Trusts

#### Performance vs CAI Target Date 2030 (Net)

Performance vs CAI Target Date 2035 (Net) 30% 26% 24% 25% 22% (62) (61) 20% (55) 20% (56) 18% 16% 15% 14% 12% (53 (55)(57) (63) 10% (56 54 10% (57 64) 8% 5% Last Quarter Last Year Last 1-1/4 Years 6% Last 1-1/4 Years Last Quarter Last Year 10th Percentile 25th Percentile Median 75th Percentile 90th Percentile  ${ \begin{array}{c} 12.31 \\ 12.00 \\ 11.15 \\ 9.48 \\ 7.86 \end{array} }$ 11.88 10.83 9.94 9.09 8.33 23.37 22.59 20.67 19.33 17.98 10th Percentile 25th Percentile Median 75th Percentile 90th Percentile 11.50 10.81 9.84 9.08 8.29 23.77 22.52 21.25 20.06 18.64  $\begin{array}{c} 12.83 \\ 12.40 \\ 11.74 \end{array}$ 11.00 9.09 Target 2030 Trust 10.83 9.45 20.28 Target 2035 Trust 11.29 9.46 20.86 Custom Index 11.06 9.62 20.39 20.84 Custom Index 11.55 9.61



# **Upcoming Conference**

#### Callan Investments Institute – 1/31/11 to 2/02/11

-Our topics and speakers for this event include:

–Finance – Henry M. Paulson, Jr. (Former Secretary of the Treasury)

–World Issues – **Fareed Zakaria** (Editor-at-Large, *Time* Magazine and host of "Fareed Zakaria GPS")

–Behavioral Finance – **Dan Ariely** (Behavioral Economist and Author of "Predictably Irrational")

-China – **Joshua Cooper Ramo** (Managing Director at Kissinger Associates and Author of "The Beijing Consensus")

-**Capital Markets Panel** – George Roberts, Founding Partner, KKR; Michael Hasenstab from Franklin Templeton; and Alan Brown CIO from Schroders.



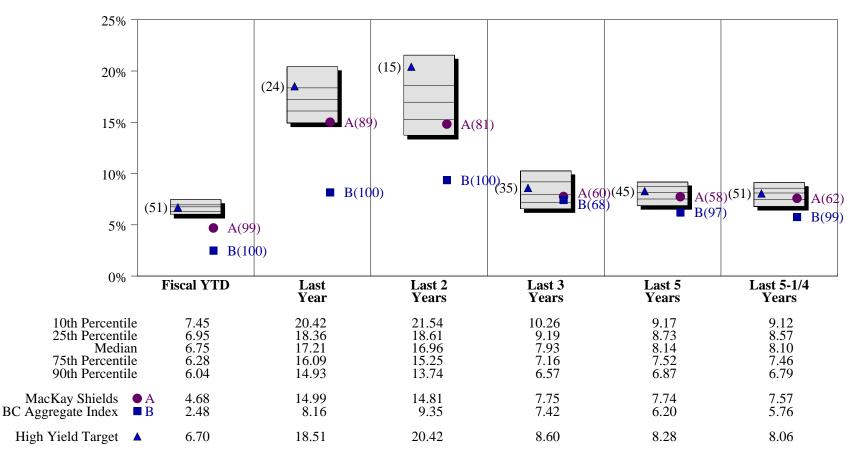
## **Manager Returns**

- High Yield
- Absolute Return
- Large Cap Domestic Equity
- Small Cap Domestic Equity
- International Equity
- Emerging Market Equity



# **MacKay Shields High Yield**

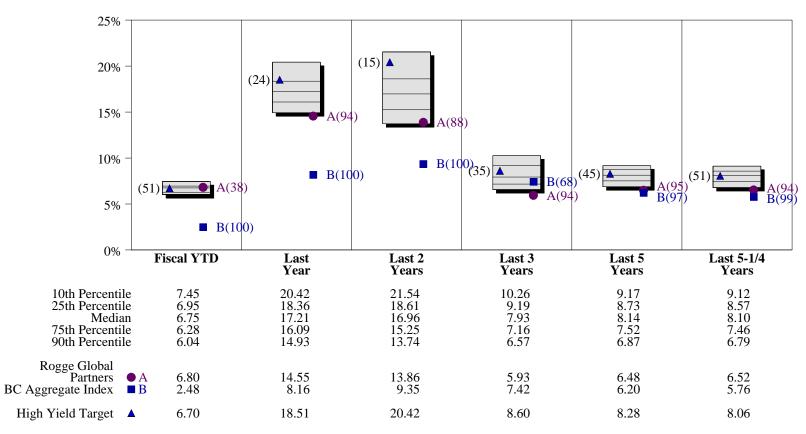
#### Performance vs CAI High Yield Fixed-Inc Style (Gross)



# $\mathcal{A}$

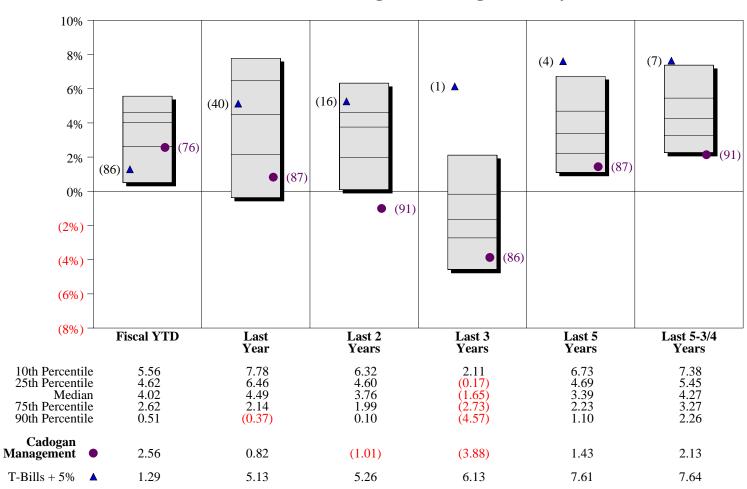
# **Rogge (formerly ING) High Yield**

#### Performance vs CAI High Yield Fixed-Inc Style (Gross)





#### Absolute Return – Cadogan Note peer group is L/S Fund of Funds

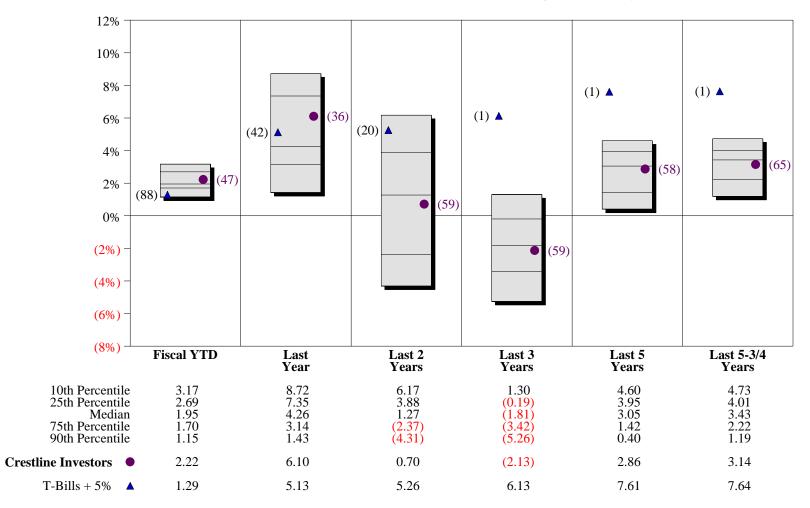


Performance vs Long Short Hedge FoF Style (Net)



## **Absolute Return - Crestline**

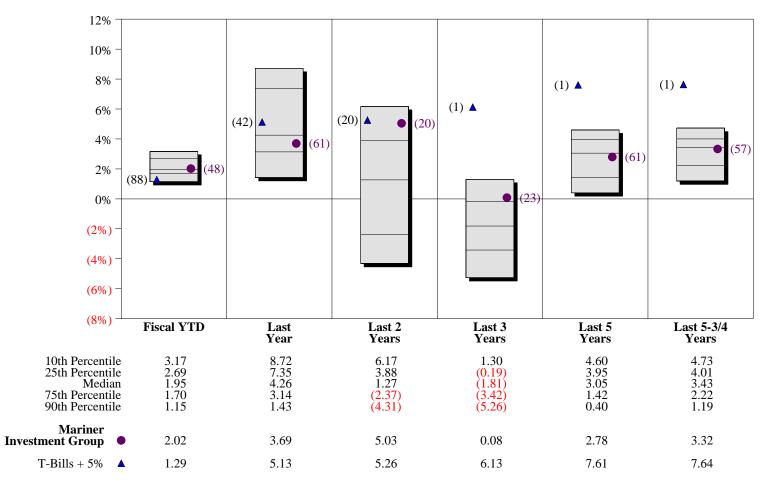
#### Performance vs Absolute Return Hedge FoFs Style (Net)





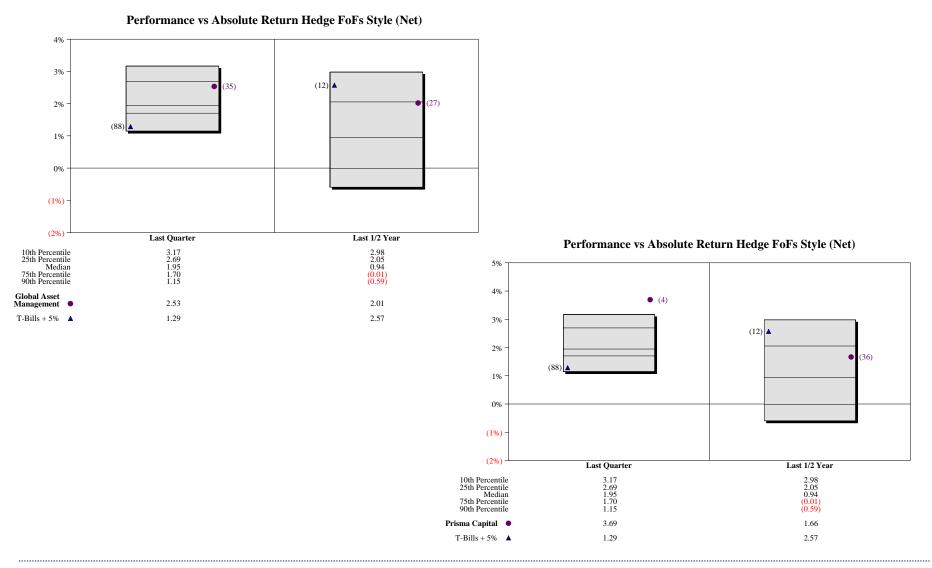
### **Absolute Return - Mariner**

Performance vs Absolute Return Hedge FoFs Style (Net)



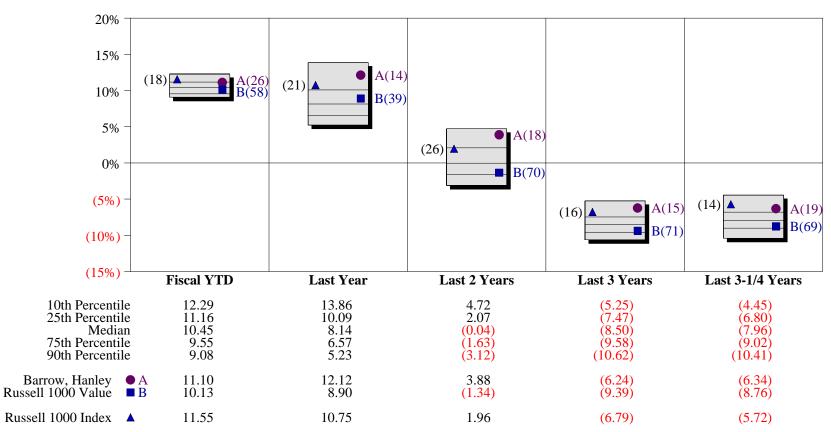


#### New Fund of Funds Managers Only ½ year comparative returns





#### Domestic Large Cap Equity Barrow Hanley

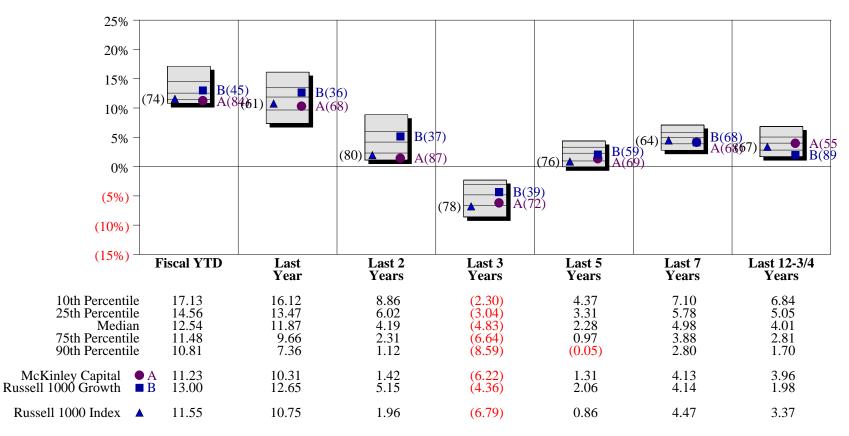


Performance vs CAI Large Cap Value Style (Gross)

# C Al

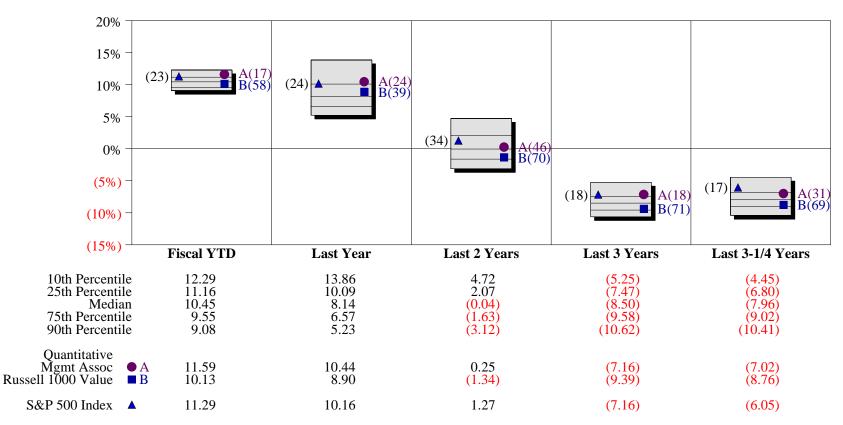
# **McKinley Capital - Large Cap Growth**

Performance vs CAI Large Cap Growth Style (Gross)





# Quantitative Mgmt. Associates Large Cap Value



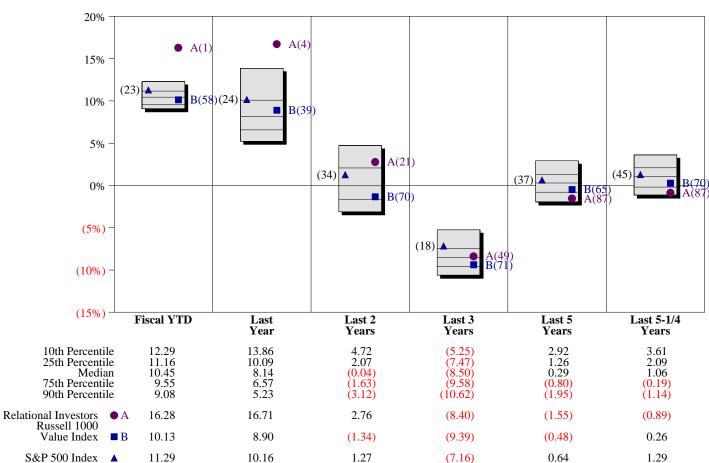
# Performance vs CAI Large Cap Value Style (Gross)



25% 20% 15% B(45) A(58) **B**(36) 10% (69) A(82) A(41)(69) = A(62)(67) = A(62)(67)(67) = A(62)(67) = A(62)(67) = A(62)(67) = A(62)(67) =A(22) B(85 5% (78)0% B(39) A(44) (5%) (82)  $(10\%)^{-1}$ (15%) **Fiscal YTD** Last 15-1/4 Last Last 3 Last 5 Last 7 Year Years Years Years Years 16.12 13.47 (2.30)(3.04)4.37 3.31 2.28 7.10 10.27 **10th Percentile** 17.13 25th Percentile 14.56 5.78 8.07 11.87 12.54 Median (4.83) 4.98 7.39 11.48 9.66 7.36 0.97 3.88 2.80 6.72 5.28 75th Percentile (6.64)10.81 90th Percentile (8.59)(0.05)12.08 13.00 2.54 2.06 4.56 4.14 8.39 5.77 RCM • A 8.61 (4.60)Russell 1000 Growth 12.65 **B** (4.36)S&P 500 Index ▲ 11.29 10.16 (7.16)0.64 4.04 6.88

Performance vs CAI Large Cap Growth Style (Gross)

# **Relational – Compared to Large Cap Value**



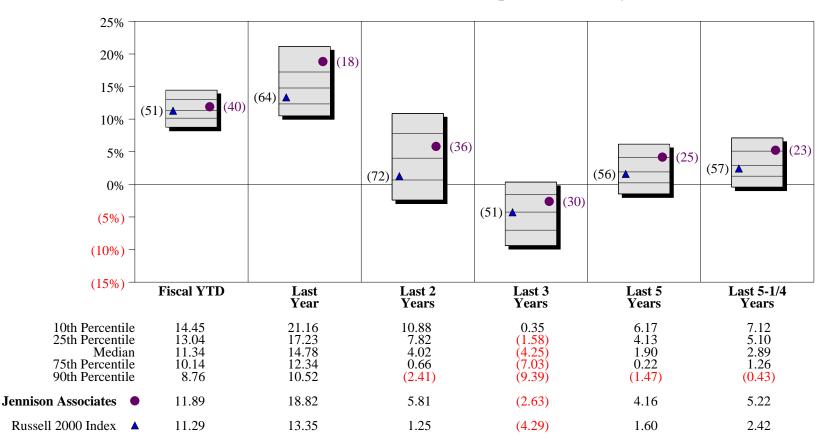
# Performance vs CAI Large Cap Value Style (Gross)

**X** 



# Jennison Associates - Small Cap

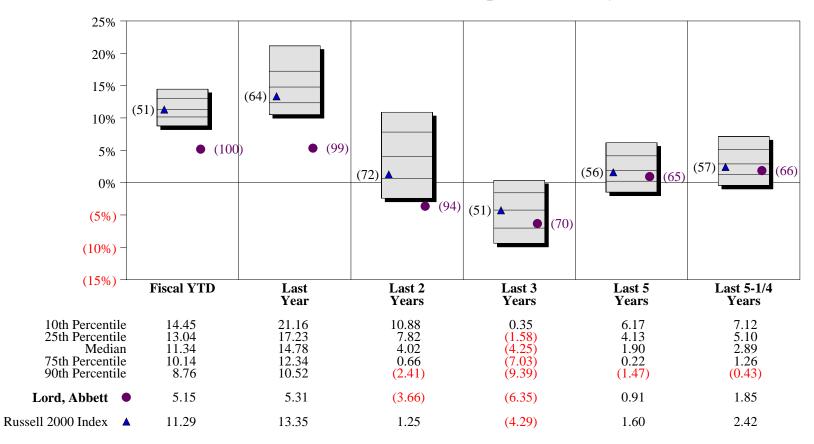
# **Performance vs CAI Small Capitalization Style (Gross)**





# Lord Abbett – Small Cap

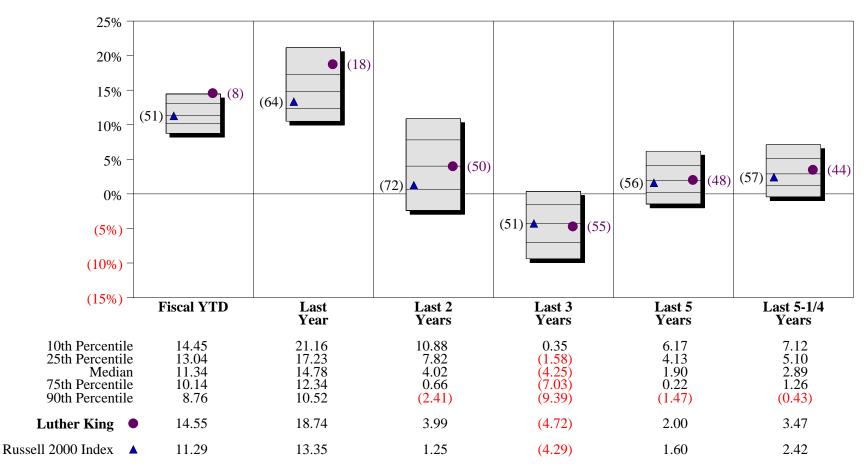
**Performance vs CAI Small Capitalization Style (Gross)** 





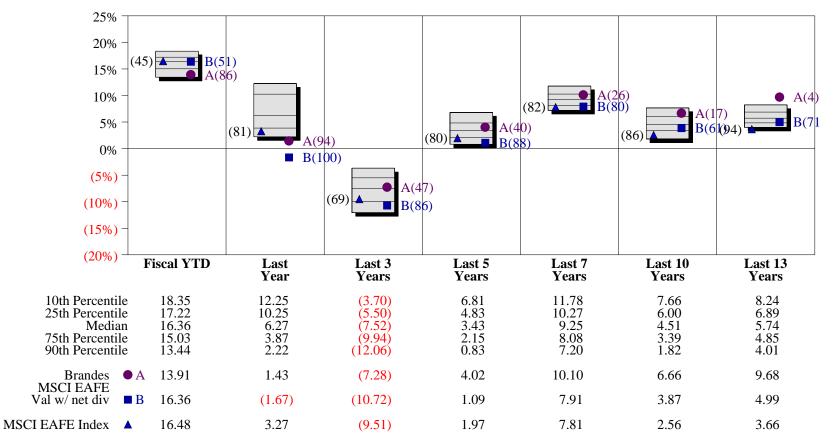
# Luther King - Small Cap

# **Performance vs CAI Small Capitalization Style (Gross)**



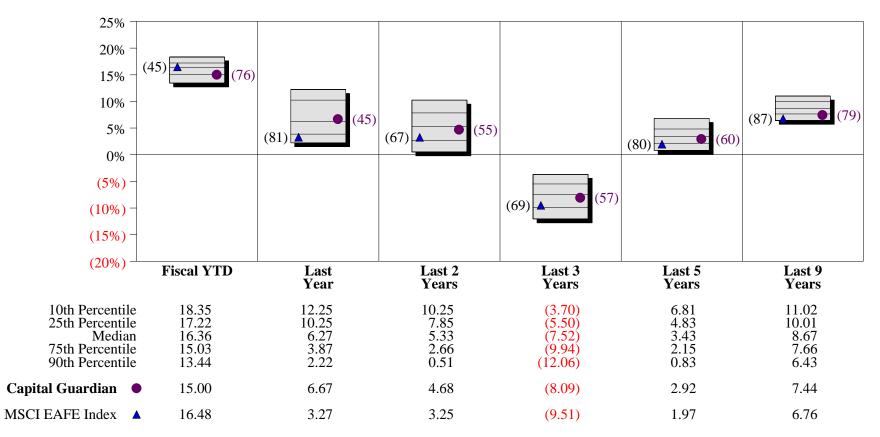


# International Equity – Brandes Inv.



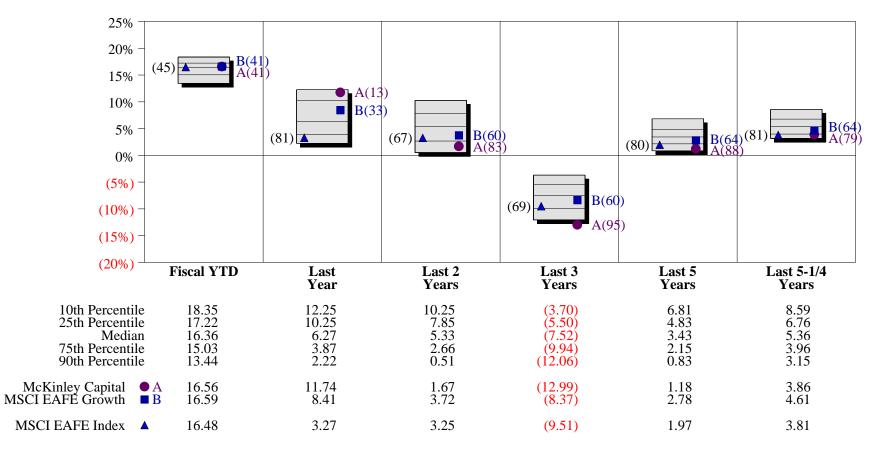


# **International – Capital Guardian**



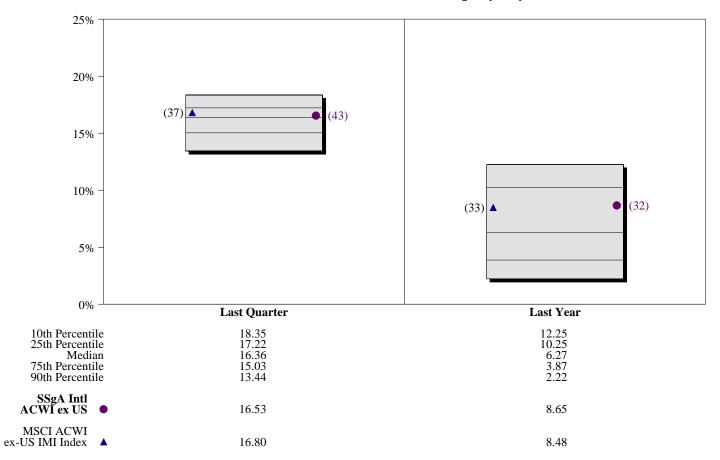


# **International – McKinley Capital**





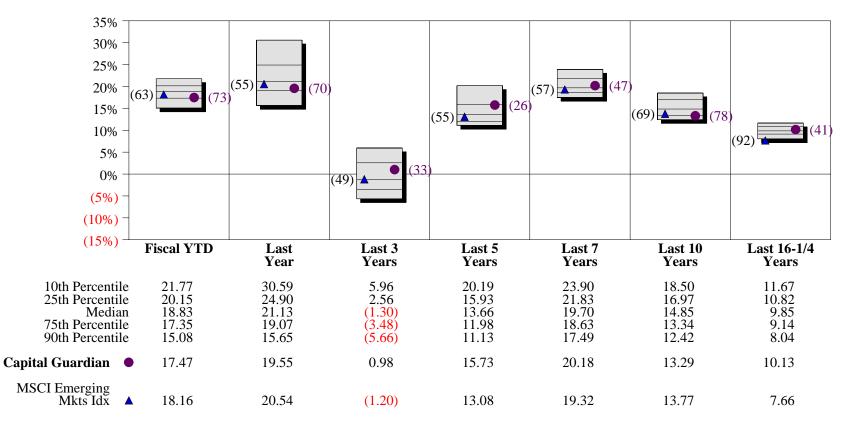
# SSgA





# **Capital Emerging Market**

**Performance vs CAI Emerging Markets Equity DB (Gross)** 





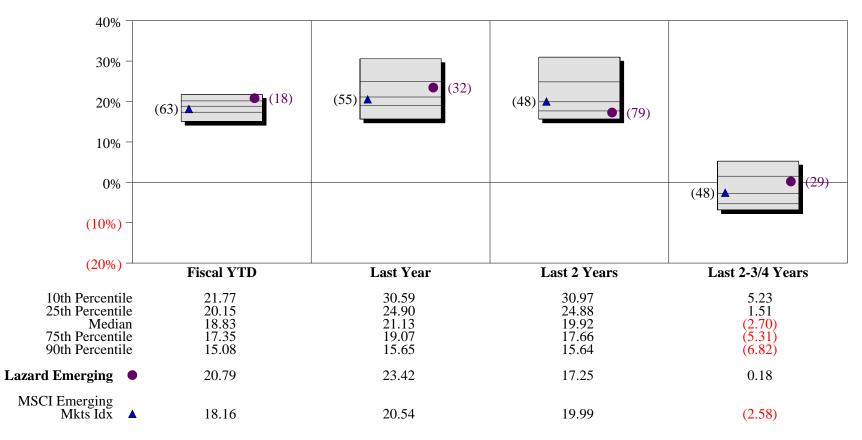
#### 40% 35% 30% 25% (55) (48) 20% (68) (53) (63) (90)15% 10% 5% (52) 0% (78) (5%) -(10%)**Fiscal YTD** Last Year Last 2 Years Last 2-1/2 Years 21.77 20.15 18.83 17.35 30.59 24.90 21.13 9.50 5.92 1.88 30.97 10th Percentile 25th Percentile Median 24.88 19.92 75th Percentile 90th Percentile 17.66 19.07 (0.44)15.08 15.65 15.64 (2.87)Eaton Vance 18.69 19.74 15.56 (0.68)MSCI Emerging Mkts Idx 18.16 19.99 1.76 20.54

# Performance vs CAI Emerging Markets Equity DB (Gross)



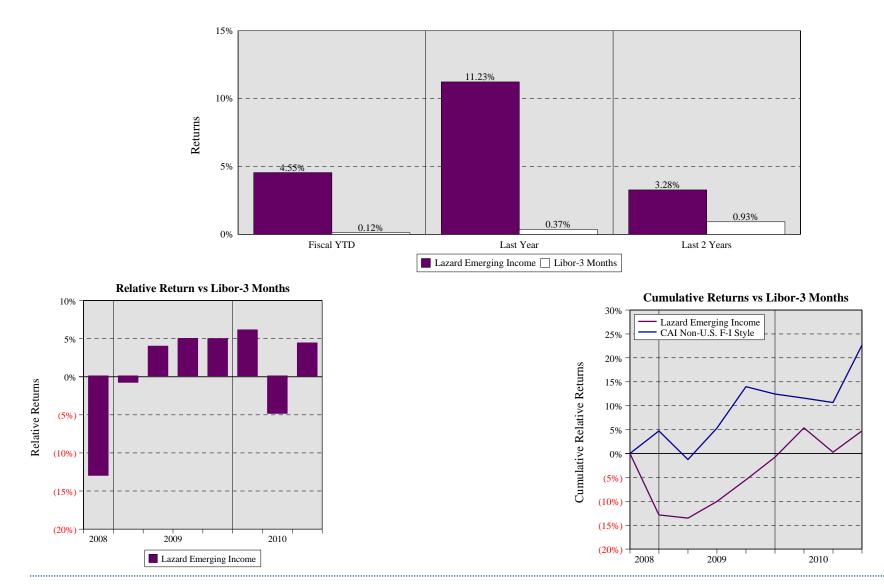
# Lazard - EM

# **Performance vs CAI Emerging Markets Equity DB (Gross)**





# Lazard – EM Debt



September 2010

Callan Associates Inc. Investment Measurement Service Quarterly Review

Alaska Retirement Management Board Executive Summary with Preliminary Real Estate September 30, 2010

The following report was prepared by Callan Associates Inc. ("CAI") using information from sources that include the following: fund trustee(s); fund custodian(s); investment manager(s); CAI computer software; CAI investment manager and fund sponsor database; third party data vendors; and other outside sources as directed by the client. CAI assumes no responsibility for the accuracy or completeness of the information provided, or methodologies employed, by any information providers external to CAI. Reasonable care has been taken to assure the accuracy of the CAI database and computer software. In preparing the following report, CAI has not reviewed the risks of individual security holdings or the compliance/non-compliance of individual security holdings with investment policies and guidelines of a fund sponsor, nor has it assumed any responsibility to do so. Copyright 2010 by Callan Associates Inc.

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Actusl vs. Target Asset Allocation         Quarterly Total Fund Attribution         Cumulative Total Fund Attribution	23
Teachers' Retirement Plan         Actual vs Target Asset Allocation         Quarterly Total Fund Attribution         Cumulative Total Fund Attribution         Historical Asset Allocation         Cumulative Performance         Total Fund Ranking         Asset Class Risk and Return         TRS Heath Care	28 29 34 35 36
Actual vs. Target Asset Allocation         Quarterly Total Fund Attribution         Cumulative Total Fund Attribution	. 41
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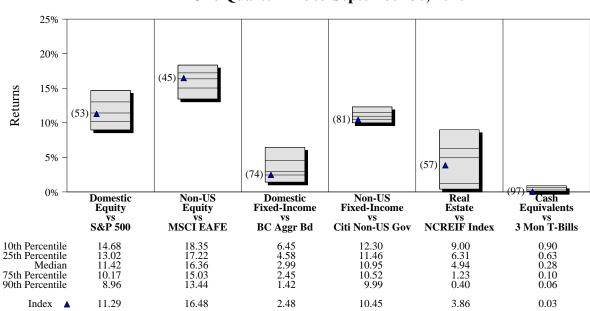
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Active Management Overview

# MARKET OVERVIEW ACTIVE MANAGEMENT VS INDEX RETURNS

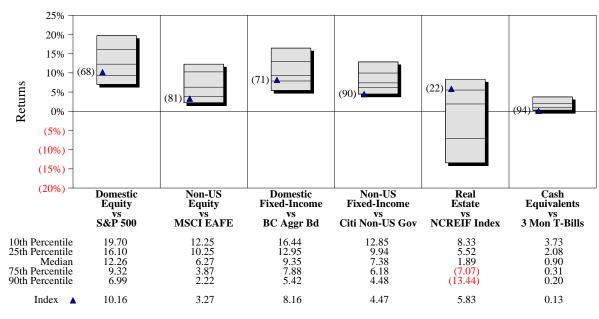
## **Market Overview**

The charts below illustrate the range of returns across managers in Callan's Separate Account database over the most recent one quarter and one year time periods. The database is broken down by asset class to illustrate the difference in returns across those asset classes. An appropriate index is also shown for each asset class for comparison purposes. As an example, the first bar in the upper chart illustrates the range of returns for domestic equity managers over the last quarter. The triangle represents the S&P 500 return. The number next to the triangle represents the ranking of the S&P 500 in the domestic equity manager database.



Range of Separate Account Manager Returns by Asset Class One Quarter Ended September 30, 2010

Range of Separate Account Manager Returns by Asset Class One Year Ended September 30, 2010



# DOMESTIC EQUITY Active Management Overview

#### Active vs. the Index

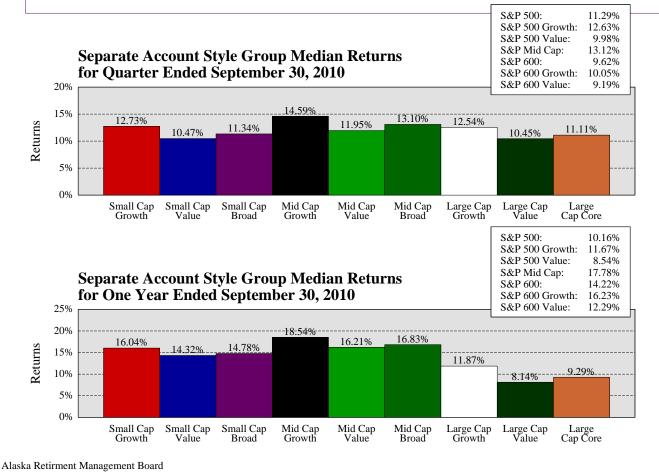
After enduring the first quarterly loss in over a year in the second quarter of 2010, the S&P 500, DJIA and NASDAQ bounced back in the third quarter of 2010, gaining back most of their losses. U.S. companies cleaned up their balance sheets by raising cash in the bond sector, which in turn allowed them to repurchase much of their own stock. All investment styles had strong returns for the quarter, all gaining over 10%. The median Large Cap Core manager yielded a 11.11% return, falling 18 basis points short of the S&P 500 Index's return of 11.29%. The median Mid Cap Broad manager returned 13.10%, 2 basis points behind the S&P Mid Cap Index's gain of 13.12%. The median Small Cap Growth manager was well ahead of the S&P 600 Growth Index, finishing the quarter with a return of 12.73%, beating the index's return of 10.05% by 268 basis points. For the year ended September 30, 2010, all styles had strong returns, exceeding or falling close behind their benchmarks.

#### Large Cap vs. Small Cap

For the third quarter of 2010, Small Cap funds fared slightly better than Large Cap funds. The median Small Cap Growth manager and the median Small Cap Value manager posted returns of 12.73% and 10.47%, respectively, ahead of their Large Cap Growth (12.54%) and Large Cap Value (10.45%) counterparts. The S&P 500 Index returned 11.29%, 167 basis points ahead of the S&P 600 Index's return of 9.62%. For the year ended September 30, 2010, Small Cap Managers outperformed their Large Cap counterparts across the board. The median Small Cap Growth, Small Cap Value and Small Cap Broad fund had returns of 16.04%, 14.32%, and 14.78%, respectively, while Large Cap returns lagged well behind. The median Large Cap Value manager posted a return of 8.14% for the twelve months ended September 30, 2010, 618 basis points shy of the median Small Cap Value manager (14.32%) and 40 basis points shy of the S&P 500 Value Index (8.54%).

#### Growth vs. Value

The third quarter of 2010 was more favorable to growth funds than to value funds, with the median Small Cap Growth manager posting a 12.73% return, 226 basis points higher than the 10.47% return of the median Small Cap Value manager. For the year ended September 30, 2010, the median Small Cap Value managers outperformed Small Cap Growth manager by 172 basis points while the median Large Cap Growth manager strongly outperformed the median Large Cap Value manager, posting a 11.87% return compared to the Large Cap Value manager's return of 8.14%. The S&P 600 Growth Index yielded a 16.23% return, 394 basis points higher than the S&P 600 Value Index's return of 12.29%.



3

# DOMESTIC FIXED-INCOME Active Management Overview

#### Active vs. the Index

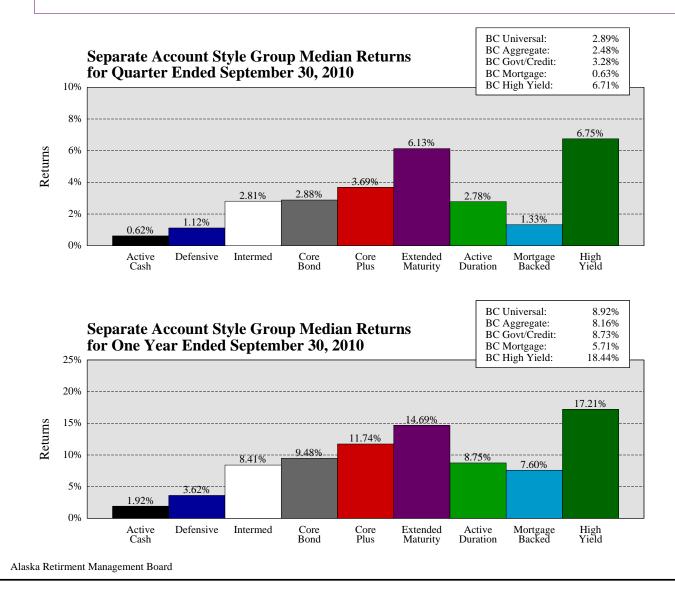
The domestic fixed income markets posted a strong third quarter 2010 as economic and political uncertainties moved investors out of stocks and into safer vehicles such as bonds and gold. In the third quarter of 2010, the median Core Bond fund posted a return of 2.88%, 40 basis points above the Barclays Capital Aggregate Index return of 2.48%. For the one year ended September 30, 2010, the median Core Bond fund finished 132 basis points ahead of the Barclays Capital Aggregate Index, 9.48% to 8.16%.

### Short vs. Long Duration

The Extended Maturity bond market produced another quarter of strong performance relative to Intermediate funds. The median Extended Maturity Fund generated 6.13%, more than double the 2.81% return of the median Intermediate Fund. For the year ended September 30, 2010, the median Extended Maturity fund gained an impressive 14.69%, 628 basis points ahead of the median Intermediate Fund's return of 8.41%.

#### Mortgages and High Yield

Mortgage-backed bonds lagged in the third quarter of 2010 amid concern federal intervention will instigate a refinancing trend, ultimately reducing the value of the securities. The median Mortgage Backed Fund posted a small gain of 1.33% for the third quarter of 2010, 70 points ahead of the Barclays Mortgage Index's return of 0.63%. For the twelve months ended September 30, 2010, the median Mortgage Backed Fund outperformed the Barclays Mortgage Index by generating a return of 7.60%, 189 basis points higher than the 5.71% index return. In the third quarter of 2010, High Yield Funds added to their considerable gains for the year, with the median High Yield fund manager generating a return of 6.75%, besting the Barclays High Yield Index which finished up 6.71%. For the year ended September 30, 2010, the median High Yield Fund returned a robust 17.21%, yet trailed the Barclays High Yield Index's return of 18.44%.



# INTERNATIONAL EQUITY Active Management Overview

#### Active vs. the Index

After posting losses across all regions in the second quarter of 2010, International Equity rebounded strongly in the quarter ended September 30, 2010. The top performers were Europe and Emerging Markets, which returned 19.10% and 18.83%, respectively. For the year, Emerging Markets outpaced all other groups with a return of 21.13%. Due to strong third quarter performance, all groups had a positive return over the latest twelve months with Japan trailing all other regions with a small gain of 0.78%.

#### Europe

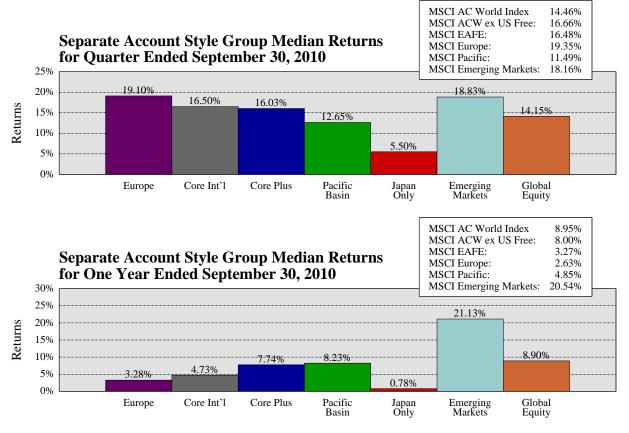
Investors growing risk appetite, the low-interest policies of European central banks and strong earnings performances from many European companies led to a strong quarter for European equity. Countries which carry large trade surpluses, like Germany, are being helped by the weakening of the euro because it made their exports more attractive. Debt-laden countries like Spain and Greece are still struggling to pull themselves out of the global recession. For the quarter, the median European manager returned an impressive 19.10% and 3.28% for the year ended September 30, 2010. The MSCI Europe Index returned 19.35% for the quarter and 2.63% for the last twelve months.

#### Pacific

Pacific Rim countries also fared well this quarter but, as usual, Japan lags its Pacific counterparts. Japan's lack of recovery continues as the Nikkei 225 remains a whopping 77% below its 1989 peak. Domestic growth and demand have been virtually non-existent as most economic activity in Japan is being funded by foreign companies and banks. Other Asian economies have recovered nicely as the Pacific Rim region has been the world's fastest growing market in 2010. Foreign money has been steadily flooding the equity markets of Asian countries looking for high returns. The median Pacific Basin manager outperformed the MSCI Pacific Index returning 12.65% versus its benchmark's return of 11.49%. For the year, the median Pacific Basin manager gained 8.23%, 338 basis points higher than the MSCI Pacific Index.

#### **Emerging Markets**

Emerging Market managers posted strong returns this quarter with the median manager gaining 18.83% for the quarter, besting the MSCI Emerging Market Index which gained 18.16%. China had a strong quarter as fears of inflation seem to have been embellished and both domestic and export demand for Chinese goods and services remains strong. For the year ended September 30, 2010 the median Emerging Market manager returned 21.13%, besting the MSCI Emerging Index by 59 basis points.



 $\mathcal{C}\!\!A$ 

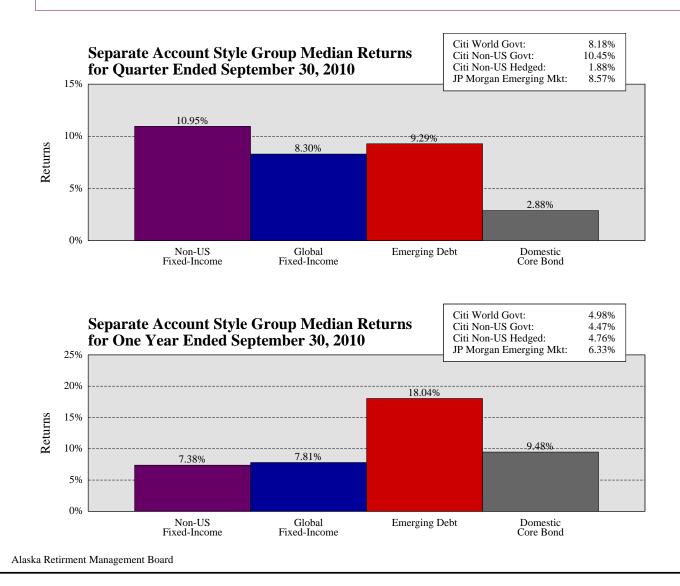
# INTERNATIONAL FIXED-INCOME Active Management Overview

#### Active vs. the Index

The global fixed-income markets produced a strong rally this quarter. In Europe, falling rates in Germany and other core European countries counterbalanced the rising rates of peripheral countries such as Greece, Ireland, Portugal and Spain. Peripheral governments implemented major fiscal cutbacks in an effort to reduce their deficits and boost market confidence, and Germany and the U.K. followed suit. The ECB extended its liquidity provision scheme to aid weaker banks which have been plagued by significant exposure to sovereign debt. Expectations for additional quantitative easing surged in the U.K. and U.S. For European banks, the stress tests yielded positive results, on the whole, with increased transparency on sovereign debt exposures. For banks around the world, the Basel III announcement was welcomed as it allowed a longer than expected time frame to comply with its provisions. In the Pacific Rim, the Bank of Japan maintained its overnight call rate of 0.1% while the cash rate in Australia remained at 4.5%. For the quarter ended September 30, 2010, the median Non-US Fixed-Income manager finished strong, ahead of its index by 12 basis points. For the one year ended September 30, 2010, the median Non-US Fixed-Income manager finished strong, ahead of its index by 12 basis points. For the one year ended September 30, 2010, the median Non-US Fixed-Income manager finished strong, ahead of its index by 12 basis points. For the one year ended September 30, 2010, the median Non-US Fixed-Income manager finished strong and of its index by 2.91% and the median Global Fixed-Income manager bested its index by 2.83%.

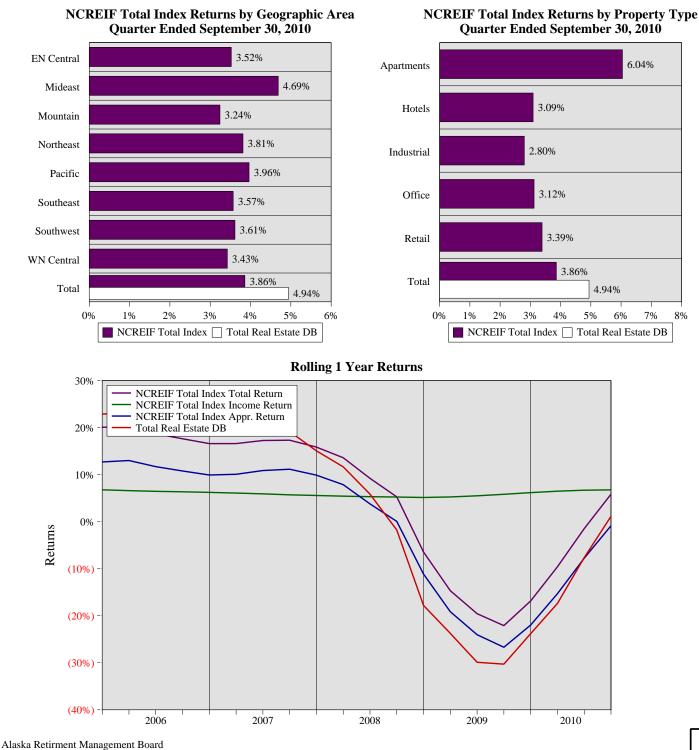
#### **Emerging Markets**

The fiscal policy environment was sound for the emerging markets with relatively low debt and deficit levels. Inflation, which has traditionally been an area of weakness for some of the fastest growing markets such as China and India, was tamed due to a slowing global economy coupled with a rally in their currencies. Most of the Central banks in Asia were very active in the currency markets in order to rein in excessive currency appreciation. For the quarter ended September 30, 2010, the median Emerging Debt manager generated a return of 9.29% beating its index by 72 basis points. For the one year ended September 30, 2010, the median Emerging Debt manager produced a whopping 18.04% return, besting its index by a significant margin of 11.71%.

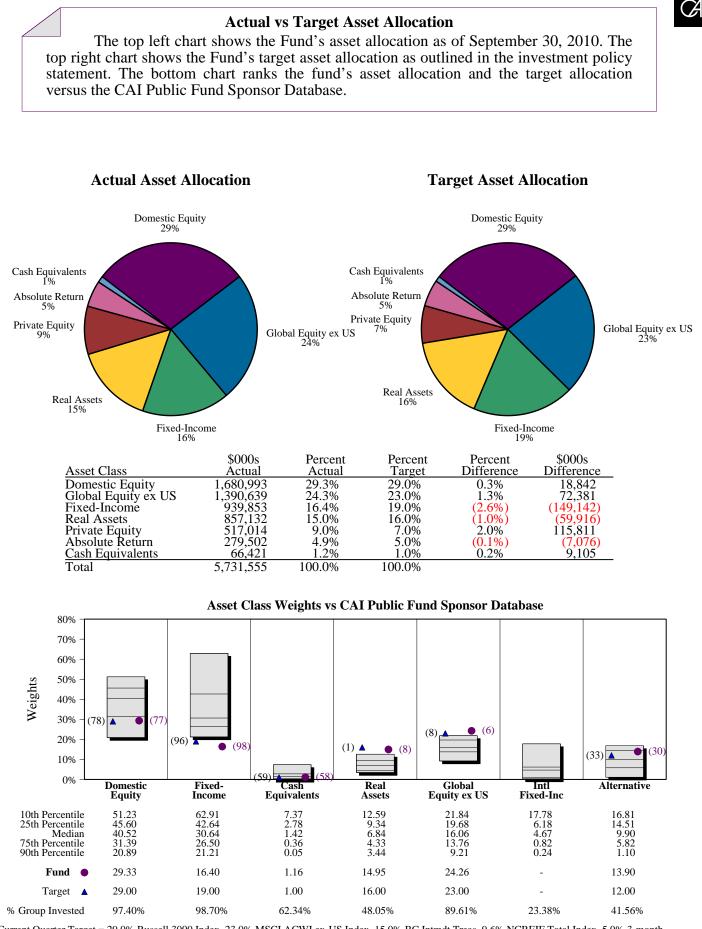


# **REAL ESTATE MARKET OVERVIEW**

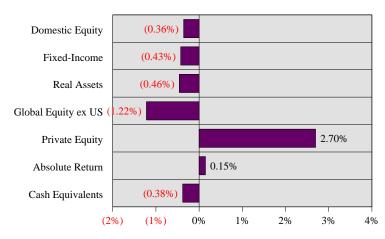
The NCREIF Property Index (+3.86%) advanced during the third quarter of 2010, outpacing the prior quarters 3.31% gain. Appreciation (+2.23%) further contributed to growth for the second straight quarter, following a string of eight quarters of writedowns, and income contributed 1.63% to the index return. The Apartment sector led property sector performance for the second consecutive quarter, gaining 6.04% and the Industrial sector lagged, generating a 2.80% return. Private property markets benefitted from increased activity by lending institutions both to lend new debt capital and to rectify legacy concerns overhanging from the credit bubble. Accordingly, increasingly normalized market conditions saw an uptick in transactional activity, as the NCREIF index recorded 108 transactions, up from 48 seen in the prior quarter. Regionally, the East (+4.17%) led while the Midwest (+3.50%) lagged. The NCREIF Open-End Diversified Core Equity Index (ODCE) advanced 5.45% during the third quarter.



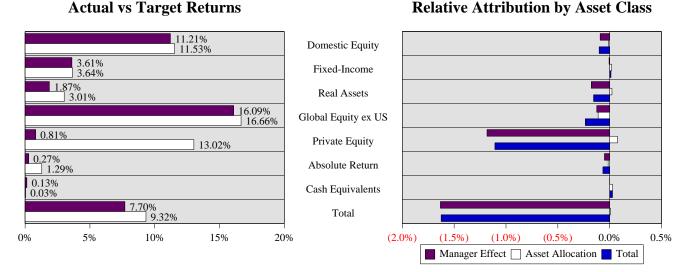
Employees' Retirement Plan



The following analysis approaches Total Fund Attribution from the perspective of relative return. Relative return attribution separates and quantifies the sources of total fund excess return relative to its target. This excess return is separated into two relative attribution effects: Asset Allocation Effect and Manager Selection Effect. The Asset Allocation Effect represents the excess return due to the actual total fund asset allocation differing from the target asset allocation. Manager Selection Effect represents the total fund impact of the individual managers excess returns relative to their benchmarks.



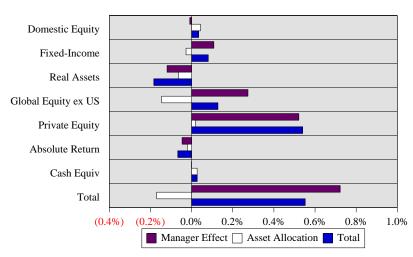
## Asset Class Under or Overweighting



# **Relative Attribution Effects for Quarter ended September 30, 2010**

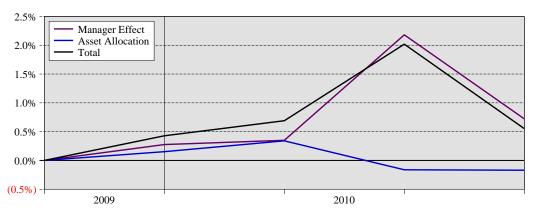
Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Manager Effect	Asset Allocation	Total Relative Return
Domestic Equity	29%	29%	11.21%	11.53%	(0.09%)	(0.01%)	(0.10%)
Fixed-Income	19%	19%	3.61%	3.64%	(0.01%)	0.02%	0.01%
Real Assets	16%	16%	1.87%	3.01%	(0.18%)	0.02%	(0.16%)
Global Equity ex US	22%	23%	16.09%	16.66%	(0.12%)	(0.11%)	(0.24%)
Private Equity	10%	7%	0.81%	13.02%	(1.18%)	0.08%	(1.11%)
Absolute Return	5%	5%	0.27%	1.29%	(0.05%)	(0.01%)	(0.07%)
Cash Equivalents	1%	1%	0.13%	0.03%	0.00%	0.03%	0.03%
Total			7.70% =	9.32%	+ (1.63%)+	0.01%	(1.63%)

The charts below accumulate the Total Fund Attribution Analysis (shown earlier) over multiple periods to examine the cumulative sources of excess total fund performance relative to target. These cumulative results quantify the longer-term sources of total fund excess return relative to target by asset class. These relative attribution effects separate the cumulative sources of total fund excess return into Asset Allocation Effect and Manager Selection Effect.



# **One Year Relative Attribution Effects**

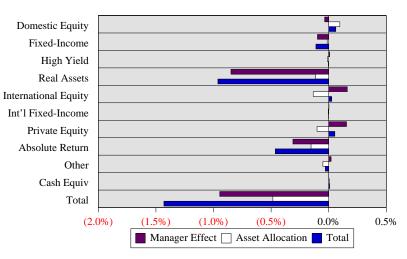
## **Cumulative Relative Attribution Effects**



### **One Year Relative Attribution Effects**

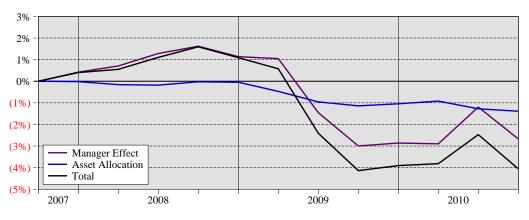
Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Manager Effect	Asset Allocation	Total Relative Return
Domestic Equity	31%	30%	10.89%	10.96%	(0.01%)	0.04%	0.03%
Fixed-Income	19%	20%	9.32%	8.69%	0.11%	(0.03%)	0.08%
Real Assets	15%	16%	4.80%	5.54%	(0.12%)	(0.06%)	(0.18%)
Global Equity ex US	22%	22%	9.35%	8.00%	0.27%	(0.15%)	0.13%
Private Equity	9%	7%	15.88%	8.96%	0.52%	0.02%	0.54%
Absolute Return	5%	5%	4.31%	5.13%	(0.05%)	(0.02%)	(0.07%)
Cash Equiv	0%	0%	-	-	0.00%	0.03%	0.03%
Total			9.61% =	9.06%	+ 0.72% +	- (0.17%)	0.55%

The charts below accumulate the Total Fund Attribution Analysis (shown earlier) over multiple periods to examine the cumulative sources of excess total fund performance relative to target. These cumulative results quantify the longer-term sources of total fund excess return relative to target by asset class. These relative attribution effects separate the cumulative sources of total fund excess return into Asset Allocation Effect and Manager Selection Effect.





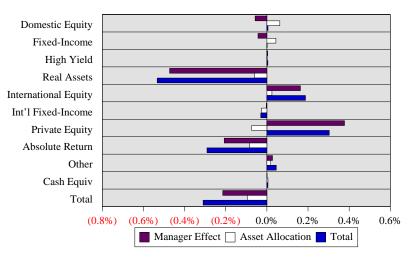
### **Cumulative Relative Attribution Effects**



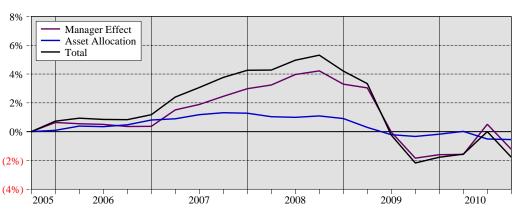


Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Manager Effect	Asset Allocation	Total Relative Return
Domestic Equity	32%	33%	(6.88%)	(6.80%)	(0.04%)	0.10%	0.06%
Fixed-Income	18%	19%	7.37%	7.88%	(0.10%)	(0.01%)	(0.11%)
High Yield	1%	1%	-	-	0.01%	(0.01%)	(0.00%)
Real Assets	15%	14%	(6.51%)	(1.37%)	(0.85%)	(0.11%)	(0.96%)
International Equity	20%	20%	(6.34%)	(7.53%)	0.16%	(0.13%)	0.03%
Int'l Fixed-Income	1%	1%	-	-	0.00%	(0.00%)	(0.00%)
Private Equity	9%	7%	(2.33%)	(6.81%)	0.15%	(0.10%)	0.05%
Absolute Return	4%	5%	(1.74%)	6.10%	(0.31%)	(0.15%)	(0.46%)
Other	0%	1%	- 1	-	0.02%	(0.05%)	(0.03%)
Cash Equiv	0%	0%	-	-	0.00%	0.01%	0.01%
Total			(3.48%)=	(2.04%) +	(0.95%) +	(0.48%)	(1.43%)

The charts below accumulate the Total Fund Attribution Analysis (shown earlier) over multiple periods to examine the cumulative sources of excess total fund performance relative to target. These cumulative results quantify the longer-term sources of total fund excess return relative to target by asset class. These relative attribution effects separate the cumulative sources of total fund excess return into Asset Allocation Effect and Manager Selection Effect.





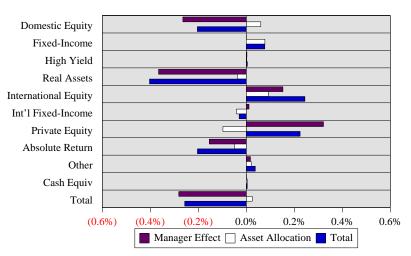


## **Cumulative Relative Attribution Effects**

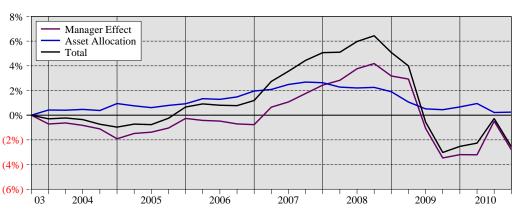


Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Manager Effect	Asset Allocation	Total Relative Return
Domestic Equity	34%	34%	0.59%	0.72%	(0.06%)	0.06%	0.01%
Fixed-Income	19%	20%	6.27%	6.48%	(0.00%)	0.04%	0.00%
			0.27%	0.48%			
High Yield	1%	1%			0.00%	0.00%	0.00%
Real Assets	13%	12%	2.99%	5.72%	(0.47%)	(0.06%)	(0.53%)
International Equity	19%	18%	5.10%	3.98%	0.16%	0.02%	0.19%
Int'l Fixed-Income	1%	1%	-	-	(0.00%)	(0.03%)	(0.03%)
Private Equity	8%	7%	8.90%	1.57%	0.38%	(0.07%)	0.30%
Absolute Return	4%	5%	2.23%	7.33%	(0.21%)	(0.08%)	(0.29%)
Other	1%	2%	-	-	0.03%	0.02%	0.05%
Cash Equiv	0%	0%	-	-	0.00%	0.01%	0.01%
Total			3.34% =	3.65%	+ (0.21%) +	(0.10%)	(0.31%)

The charts below accumulate the Total Fund Attribution Analysis (shown earlier) over multiple periods to examine the cumulative sources of excess total fund performance relative to target. These cumulative results quantify the longer-term sources of total fund excess return relative to target by asset class. These relative attribution effects separate the cumulative sources of total fund excess return into Asset Allocation Effect and Manager Selection Effect.





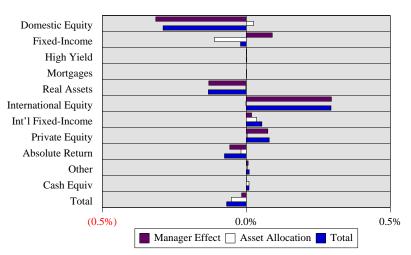


# **Cumulative Relative Attribution Effects**



Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Mana Effe		Asset Allocation	Total Relative Return
Domestic Equity	36%	35%	3.70%	4.34%	(0.	26%)	0.06%	(0.20%)
Fixed-Income	21%	22%	5.52%	5.54%		00%)	0.08%	0.08%
High Yield	1%	1%	-	-		00%	0.00%	0.00%
Real Assets	12%	11%	6.23%	8.48%	(0.	37%)	(0.04%)	(0.40%)
International Equity	19%	17%	10.36%	9.32%		15%	0.09%	0.24%
Int'l Fixed-Income	2%	1%	-	-		01%	(0.04%)	(0.03%)
Private Equity	7%	7%	12.51%	6.13%		32%	(0.10%)	0.22%
Absolute Return	3%	4%	2.45%	6.54%		15%)	(0.05%)	(0.20%)
Other	0%	2%	-	-		02%	0.02%	0.04%
Cash Equiv	0%	0%	-	-	0.	00%	0.00%	0.00%
Total			5.85% =	6.10%	+ (0.28	<b>3%</b> ) +	0.02%	(0.26%)

The charts below accumulate the Total Fund Attribution Analysis (shown earlier) over multiple periods to examine the cumulative sources of excess total fund performance relative to target. These cumulative results quantify the longer-term sources of total fund excess return relative to target by asset class. These relative attribution effects separate the cumulative sources of total fund excess return into Asset Allocation Effect and Manager Selection Effect.



## Nineteen Year Annualized Relative Attribution Effects



**Cumulative Relative Attribution Effects** 





Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Manager Effect	Asset Allocation	Total Relative Return
Domestic Equity	39%	38%	7.38%	8.10%	(0.31%)	0.03%	(0.29%)
Fixed-Income	32%	32%	7.06%	6.84%	0.09%	(0.11%)	(0.02%)
High Yield	0%	0%	-	-	0.00%	0.00%	0.00%
Mortgages	0%	0%	-	-	0.00%	0.00%	0.00%
Real Assets	7%	8%	6.98%	7.51%	(0.13%)	(0.00%)	(0.13%)
International Equity	15%	14%	7.81%	5.80%	0.30%	(0.00%)	0.29%
Int'l Fixed-Income	2%	2%	-	-	0.02%	0.04%	0.05%
Private Equity	3%	3%	-	-	0.07%	0.00%	0.08%
Absolute Return	1%	1%	-	-	(0.06%)	(0.02%)	(0.08%)
Other	0%	1%	-	-	0.01%	0.00%	0.01%
Cash Equiv	0%	0%	-	-	0.00%	0.01%	0.01%
Total			7.37% =	7.43%	+ (0.02%) +	(0.05%)	(0.07%)

\* Current Quarter Target = 29.0% Russell 3000 Index, 23.0% MSCI ACWI ex-US Index, 15.0% BC Intmdt Treas, 9.6% NCREIF Total Index, 5.0% 3-month Treasury Bill+5.0%, 3.2% BC US TIPS Index, 2.3% MSCI EAFE Index, 2.3% S&P 500 Index, 2.3% Russell 2000 Index, 2.0% Citi WGBI Non-US Idx, 2.0% Hi Yld II Index, 1.6% NCREIF Farmland Index, 1.6% NCREIF Timberland Index and 1.0% 3-month Treasury Bill.

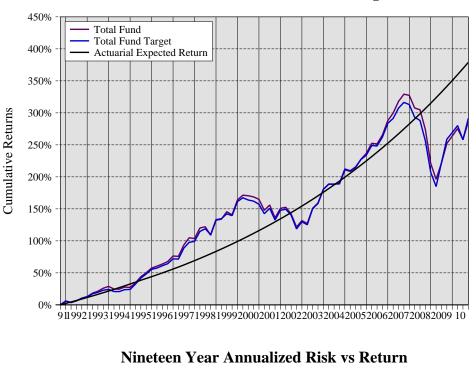
25%

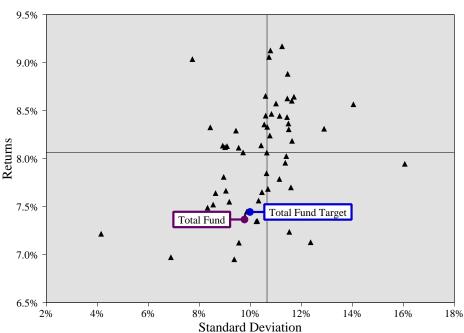
20%

### **Cumulative Performance Relative to Target**

The first chart below illustrates the cumulative performance of the Total Fund relative to the cumulative performance of the Fund's Target Asset Mix. The Target Mix is assumed to be rebalanced each quarter with no transaction costs. The difference between the Total Fund return and the Target Mix return is explained by the performance attribution on the next page. The second chart below shows the return and the risk of the Total Fund and the Target Mix, contrasted with the returns and risks of the funds in the CAI Public Fund Sponsor Database.

**Cumulative Returns Actual vs Target** 

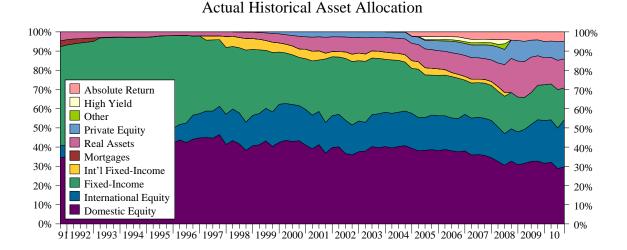




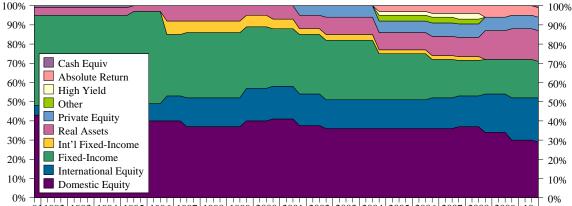
#### Triangles represent membership of the CAI Public Fund Sponsor Database

### Actual vs Target Historical Asset Allocation

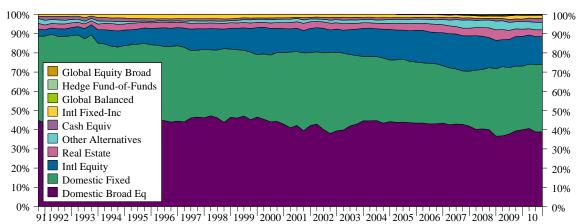
The Historical asset allocation for a fund is by far the largest factor explaining its performance. The charts below show the fund's historical actual asset allocation, the fund's historical target asset allocation, and the historical asset allocation of the average fund in the CAI Public Fund Sponsor Database.



### Target Historical Asset Allocation



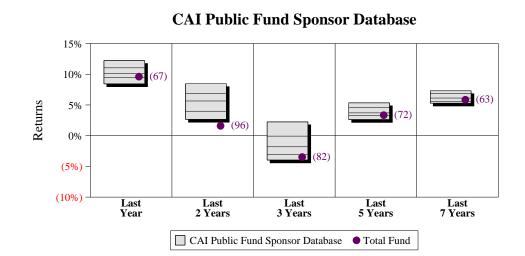
911992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 10



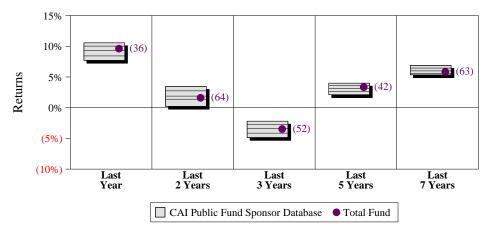
## Average CAI Public Fund Sponsor Database Historical Asset Allocation

# **Total Fund Ranking**

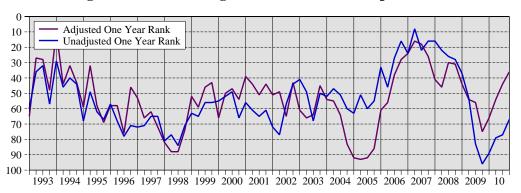
The first two charts show the ranking of the Total Fund's performance relative to that of the CAI Public Fund Sponsor Database for periods ended September 30, 2010. The first chart is a standard unadjusted ranking. In the second chart each fund in the database is adjusted to have the same historical asset allocation as that of the Total Fund. The final chart shows the history of the one year ranking of the Total Fund versus the CAI Public Fund Sponsor Database, both on an unadjusted and asset allocation adjusted basis.



#### **Asset Allocation Adjusted Ranking**

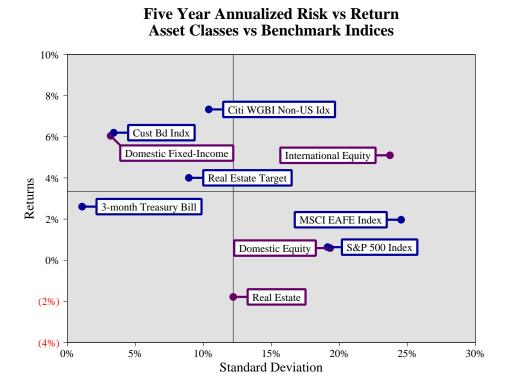


#### **Rolling One Year Ranking vs CAI Public Fund Sponsor Database**

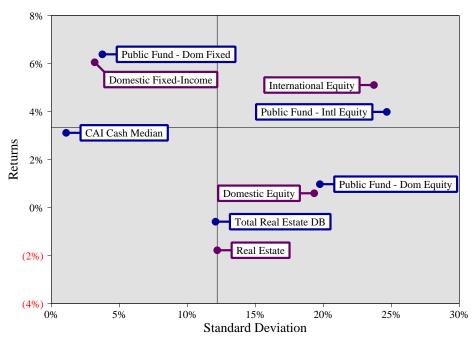


#### **Asset Class Risk and Return**

The charts below show the five year annualized risk and return for each asset class component of the Total Fund. The first graph contrasts these values with those of the appropriate index for each asset class. The second chart contrasts them with the risk and return of the median portfolio in each of the appropriate CAI comparative databases. In each case, the crosshairs on the chart represent the return and risk of the Total Fund.

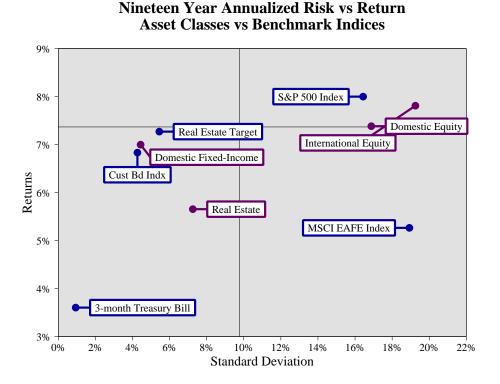


# Five Year Annualized Risk vs Return Asset Classes vs Asset Class Median

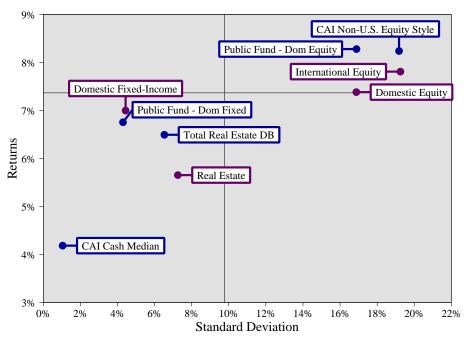


#### **Asset Class Risk and Return**

The charts below show the nineteen year annualized risk and return for each asset class component of the Total Fund. The first graph contrasts these values with those of the appropriate index for each asset class. The second chart contrasts them with the risk and return of the median portfolio in each of the appropriate CAI comparative databases. In each case, the crosshairs on the chart represent the return and risk of the Total Fund.



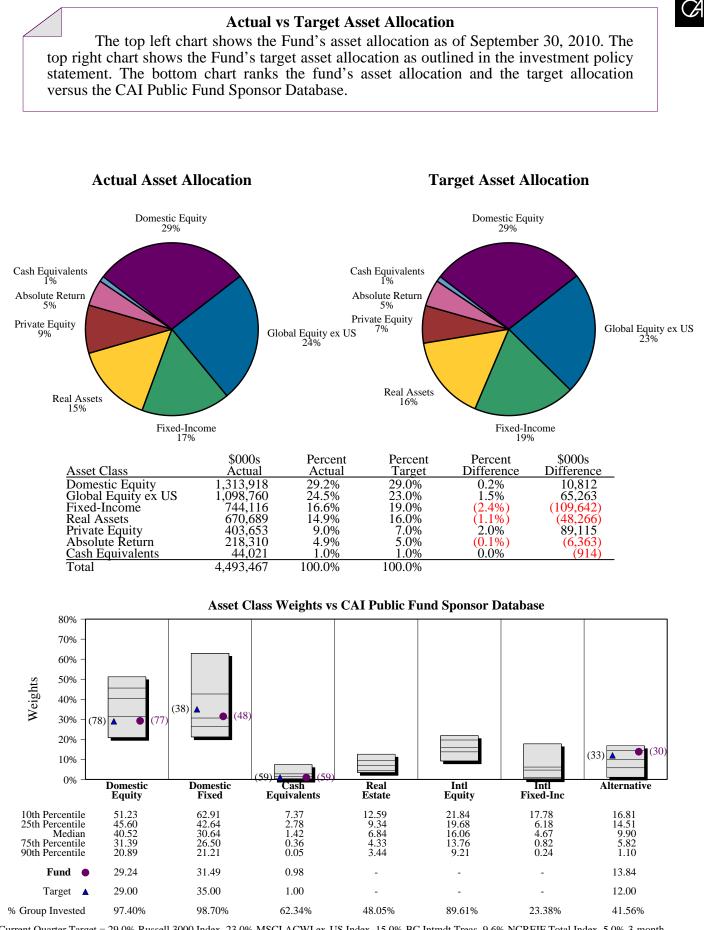
# Nineteen Year Annualized Risk vs Return Asset Classes vs Asset Class Median



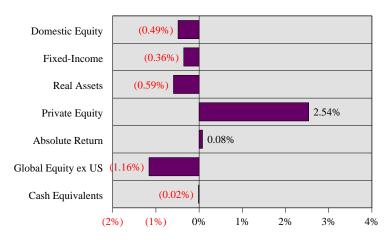
# PERS HEALTH CARE

P E R S HEALTH CARE

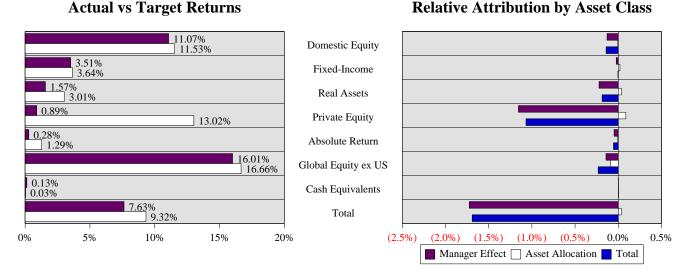
 $\mathcal{A}$ 



The following analysis approaches Total Fund Attribution from the perspective of relative return. Relative return attribution separates and quantifies the sources of total fund excess return relative to its target. This excess return is separated into two relative attribution effects: Asset Allocation Effect and Manager Selection Effect. The Asset Allocation Effect represents the excess return due to the actual total fund asset allocation differing from the target asset allocation. Manager Selection Effect represents the total fund impact of the individual managers excess returns relative to their benchmarks.



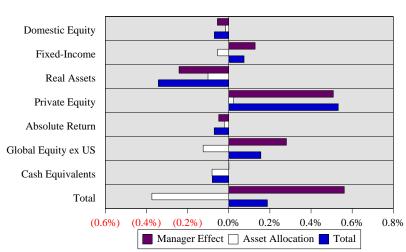
#### Asset Class Under or Overweighting



# **Relative Attribution Effects for Quarter ended September 30, 2010**

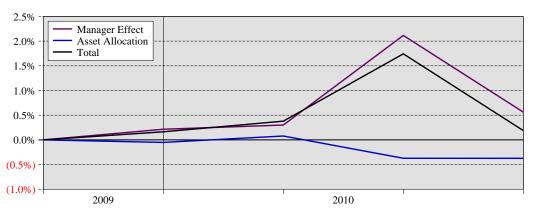
Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Manager Effect	Asset Allocation	Total Relative Return
Domestic Equity	29%	29%	11.07%	11.53%	(0.13%)	(0.01%)	(0.14%)
Fixed-Income	19%	19%	3.51%	3.64%	(0.02%)	0.02%	(0.00%)
Real Assets	15%	16%	1.57%	3.01%	(0.22%)	0.04%	(0.19%)
Private Equity Absolute Return	$10\% \\ 5\%$	7% 5%	$0.89\% \\ 0.28\%$	$13.02\% \\ 1.29\%$	(1.16%) (0.05%)	0.09% (0.01%)	(1.07%) (0.06%)
Global Equity ex US	22%	23%	16.01%	16.66%	(0.05%) (0.14%)	(0.01%) (0.09%)	(0.00%) (0.23%)
Cash Equivalents	1%	1%	0.13%	0.03%	0.00%	0.00%	0.00%
Total			7.63% =	9.32%	+ (1.73%) +	0.03%	(1.69%)

The charts below accumulate the Total Fund Attribution Analysis (shown earlier) over multiple periods to examine the cumulative sources of excess total fund performance relative to target. These cumulative results quantify the longer-term sources of total fund excess return relative to target by asset class. These relative attribution effects separate the cumulative sources of total fund excess return into Asset Allocation Effect and Manager Selection Effect.



# **One Year Relative Attribution Effects**

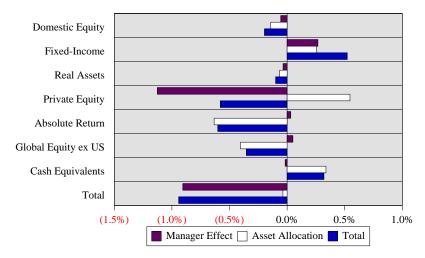
# **Cumulative Relative Attribution Effects**



### **One Year Relative Attribution Effects**

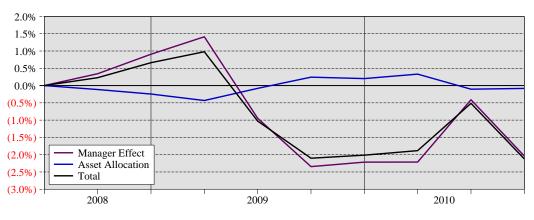
Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Manager Effect	Asset Allocation	Total Relative Return
Domestic Equity	30%	30%	10.73%	10.96%	(0.06%)	(0.01%)	(0.07%)
Fixed-Income	18%	20%	9.45%	8.69%	0.13%	(0.05%)	0.07%
Real Assets	14%	16%	3.98%	5.54%	(0.24%)	(0.10%)	(0.34%)
Private Equity	9%	7%	15.97%	8.96%	0.51%	0.02%	0.53%
Absolute Return	5%	5%	4.31%	5.13%	(0.05%)	(0.02%)	(0.07%)
Global Equity ex US	22%	22%	9.39%	8.00%	0.28%	(0.12%)	0.16%
Cash Equivalents	1%	0%	0.79%	0.69%	0.00%	(0.08%)	(0.08%)
Total			9.24% =	9.06%	+ 0.56% +	- <b>(0.37%)</b>	0.19%

The charts below accumulate the Total Fund Attribution Analysis (shown earlier) over multiple periods to examine the cumulative sources of excess total fund performance relative to target. These cumulative results quantify the longer-term sources of total fund excess return relative to target by asset class. These relative attribution effects separate the cumulative sources of total fund excess return into Asset Allocation Effect and Manager Selection Effect.



# **Two and One-Quarter Annualized Relative Attribution Effects**

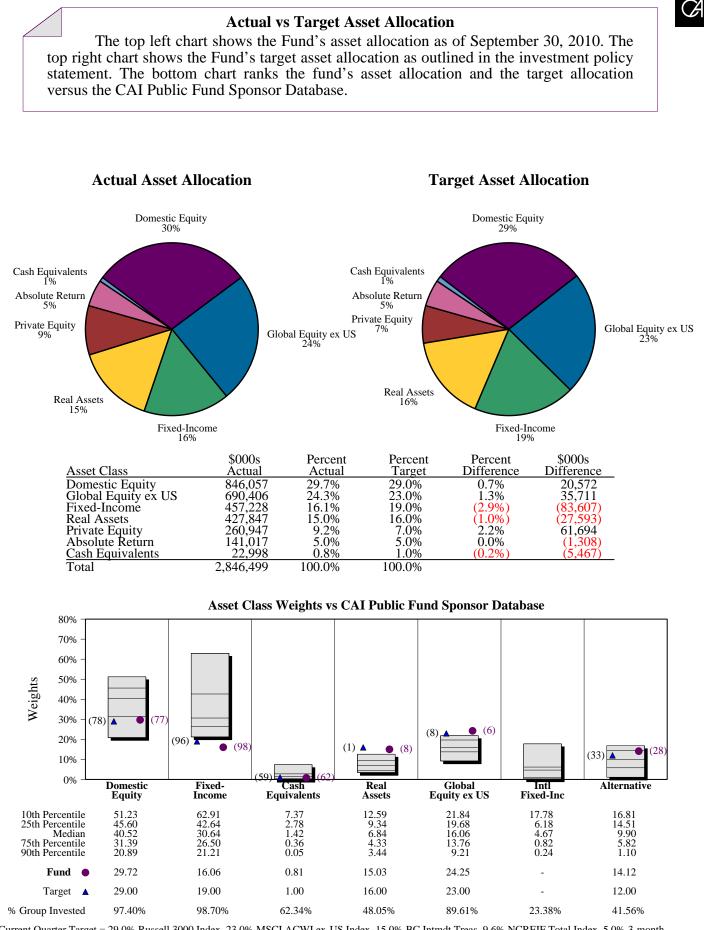
# **Cumulative Relative Attribution Effects**



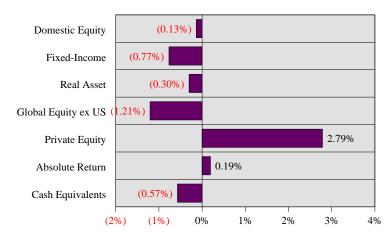
# Two and One-Quarter Annualized Relative Attribution Effects

Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Manager Effect	Asset Allocation	Total Relative Return
Domestic Equity	35%	33%	(2.60%)	(2.35%)	(0.06%)	(0.14%)	(0.20%)
Fixed-Income	19%	20%	9.68%	8.31%	0.27%	0.25%	0.52%
Real Assets	13%	12%	(2.84%)	(3.20%)	(0.04%)	(0.06%)	(0.10%)
Private Equity	6%	5%	6.60%	(2.85%)	(1.13%)	0.55%	(0.58%)
Absolute Return	3%	6%	4.36%	5.51%	0.03%	(0.63%)	(0.60%)
Global Equity ex US	22%	22%	(4.40%)	(4.65%)	0.05%	(0.41%)	(0.35%)
Cash Equivalents	2%	1%	1.23%	1.03%	(0.02%)	0.34%	0.32%
Total			(0.36%)=	<b>0.59%</b> +	+ <b>(0.91%</b> ) +	(0.04%)	(0.94%)

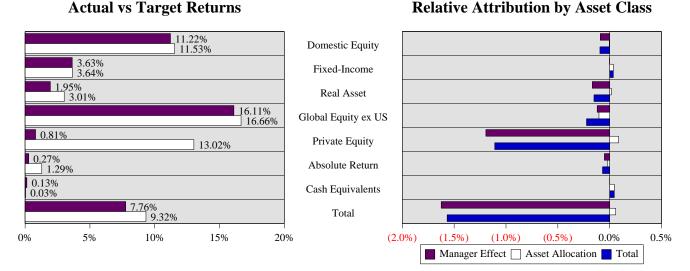
Teachers' Retirement Plan



The following analysis approaches Total Fund Attribution from the perspective of relative return. Relative return attribution separates and quantifies the sources of total fund excess return relative to its target. This excess return is separated into two relative attribution effects: Asset Allocation Effect and Manager Selection Effect. The Asset Allocation Effect represents the excess return due to the actual total fund asset allocation differing from the target asset allocation. Manager Selection Effect represents the total fund impact of the individual managers excess returns relative to their benchmarks.



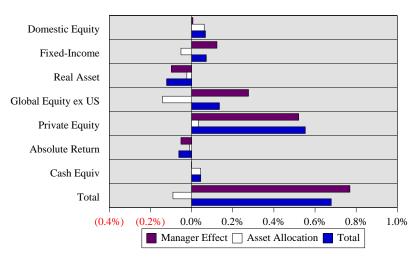
# Asset Class Under or Overweighting



# **Relative Attribution Effects for Quarter ended September 30, 2010**

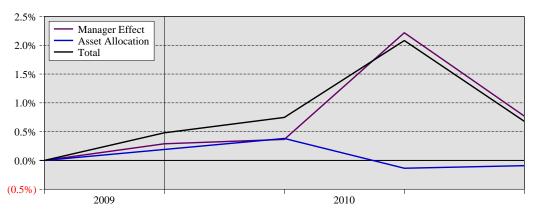
Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Manager Effect	Asset Allocation	Total Relative Return
Domestic Equity	29%	29%	11.22%	11.53%	(0.09%)	(0.00%)	(0.09%)
Fixed-Income	18%	19%	3.63%	3.64%	(0.00%)	0.04%	0.04%
Real Asset	16%	16%	1.95%	3.01%	(0.17%)	0.02%	(0.15%)
Global Equity ex US	22%	23%	16.11%	16.66%	(0.12%)	(0.10%)	(0.22%)
Private Equity	10%	7%	0.81%	13.02%	(1.19%)	0.09%	(1.11%)
Absolute Return	5%	5%	0.27%	1.29%	(0.05%)	(0.02%)	(0.07%)
Cash Equivalents	0%	1%	0.13%	0.03%	0.00%	0.04%	0.04%
Total			7.76% =	9.32%	+ (1.63%) +	0.06%	(1.57%)

The charts below accumulate the Total Fund Attribution Analysis (shown earlier) over multiple periods to examine the cumulative sources of excess total fund performance relative to target. These cumulative results quantify the longer-term sources of total fund excess return relative to target by asset class. These relative attribution effects separate the cumulative sources of total fund excess return into Asset Allocation Effect and Manager Selection Effect.



# **One Year Relative Attribution Effects**

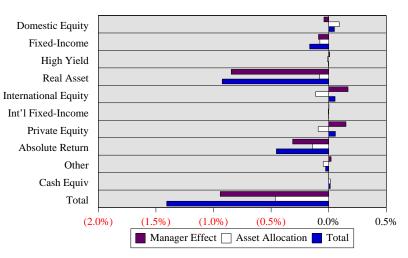
# **Cumulative Relative Attribution Effects**



### **One Year Relative Attribution Effects**

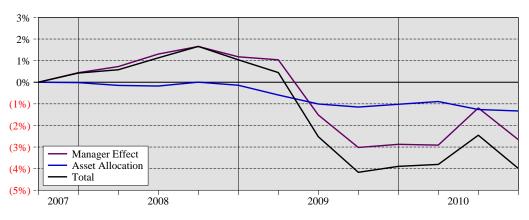
Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Manager Effect	Asset Allocation	Total Relative Return
Domestic Equity	31%	30%	10.94%	10.96%	0.01%	0.06%	0.07%
Fixed-Income	18%	20%	9.40%	8.69%	0.12%	(0.05%)	0.07%
Real Asset	15%	16%	4.96%	5.54%	(0.10%)	(0.02%)	(0.12%)
Global Equity ex US	22%	22%	9.35%	8.00%	0.28%	(0.14%)	0.14%
Private Equity	9%	7%	15.88%	8.96%	0.52%	0.03%	0.55%
Absolute Return	5%	5%	4.30%	5.13%	(0.05%)	(0.01%)	(0.06%)
Cash Equiv	0%	0%	-	-	0.00%	0.04%	0.04%
Total			9.73% =	9.06%	+ 0.77% +	- (0.09%)	0.68%

The charts below accumulate the Total Fund Attribution Analysis (shown earlier) over multiple periods to examine the cumulative sources of excess total fund performance relative to target. These cumulative results quantify the longer-term sources of total fund excess return relative to target by asset class. These relative attribution effects separate the cumulative sources of total fund excess return into Asset Allocation Effect and Manager Selection Effect.





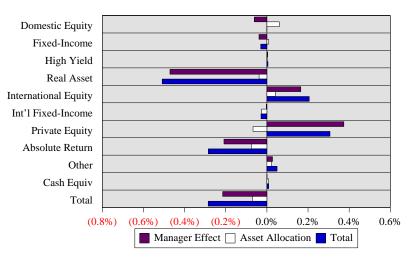
# **Cumulative Relative Attribution Effects**



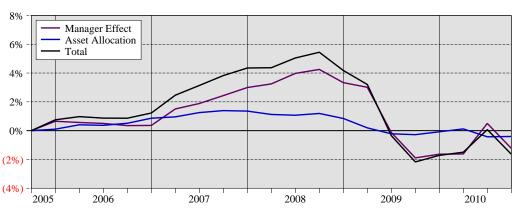


Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Manager Effect	Asset Allocation	Total Relative Return
Domestic Equity	32%	33%	(6.90%)	(6.80%)	(0.04%)	0.09%	0.05%
Fixed-Income	18%	19%	7.41%	7.88%	(0.09%)	(0.08%)	(0.17%)
High Yield	1%	1%	-	-	0.01%	(0.01%)	(0.00%)
Real Asset	15%	14%	(6.45%)	(1.37%)	(0.85%)	(0.08%)	(0.92%)
International Equity	20%	20%	(6.30%)	(7.53%)	0.17%	(0.11%)	0.06%
Int'l Fixed-Income	1%	1%	-	-	0.00%	(0.00%)	(0.00%)
Private Equity	9%	7%	(2.33%)	(6.81%)	0.15%	(0.09%)	0.06%
Absolute Return	4%	5%	(1.74%)	6.10%	(0.31%)	(0.14%)	(0.45%)
Other	0%	1%	-	-	0.02%	(0.05%)	(0.03%)
Cash Equiv	0%	0%	-	-	0.00%	0.01%	0.01%
Total			(3.45%)=	(2.04%) +	(0.94%) +	(0.46%)	(1.41%)

The charts below accumulate the Total Fund Attribution Analysis (shown earlier) over multiple periods to examine the cumulative sources of excess total fund performance relative to target. These cumulative results quantify the longer-term sources of total fund excess return relative to target by asset class. These relative attribution effects separate the cumulative sources of total fund excess return into Asset Allocation Effect and Manager Selection Effect.





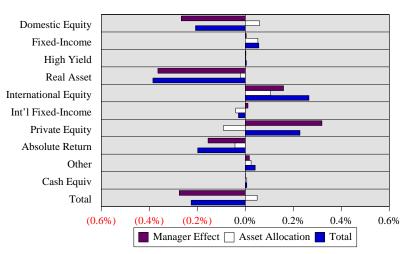


# **Cumulative Relative Attribution Effects**

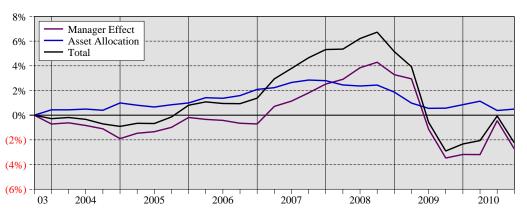


Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Manager Effect	Asset Allocation	Total Relative Return
Domestic Equity	34%	34%	0.58%	0.72%	(0.06%)	0.06%	(0.00%)
Fixed-Income	19%	20%	6.29%	6.48%	(0.04%)	0.01%	(0.03%)
High Yield	1%	1%	-	-	0.00%	0.00%	0.01%
Real Asset	13%	12%	3.03%	5.72%	(0.47%)	(0.04%)	(0.51%)
International Equity	19%	18%	5.11%	3.98%	0.16%	0.04%	0.21%
Int'l Fixed-Income	1%	1%	-	-	(0.00%)	(0.03%)	(0.03%)
Private Equity	8%	7%	8.90%	1.57%	0.37%	(0.07%)	0.31%
Absolute Return	4%	5%	2.24%	7.33%	(0.21%)	(0.08%)	(0.28%)
Other	1%	2%	-	-	0.03%	0.02%	0.05%
Cash Equiv	0%	0%	-	-	0.00%	0.01%	0.01%
Total			3.36% =	3.65%	+ (0.22%)+	(0.07%)	(0.29%)

The charts below accumulate the Total Fund Attribution Analysis (shown earlier) over multiple periods to examine the cumulative sources of excess total fund performance relative to target. These cumulative results quantify the longer-term sources of total fund excess return relative to target by asset class. These relative attribution effects separate the cumulative sources of total fund excess return into Asset Allocation Effect and Manager Selection Effect.



# Seven Year Annualized Relative Attribution Effects

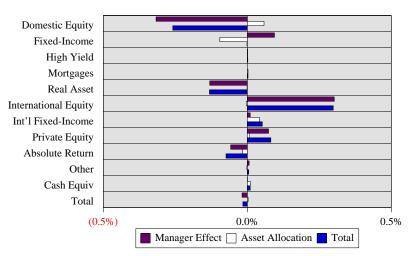


# **Cumulative Relative Attribution Effects**



Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Manager Effect	Asset Allocation	Total Relative Return
Domestic Equity	36%	35%	3.69%	4.34%	(0.27%)	0.06%	(0.21%)
Fixed-Income	21%	22%	5.53%	5.54%	0.00%	0.05%	0.06%
High Yield	1%	1%	-	-	0.00%	0.00%	0.00%
Real Asset	12%	11%	6.26%	8.48%	(0.36%)	(0.02%)	(0.39%)
International Equity	19%	17%	10.40%	9.32%	0.16%	0.11%	0.27%
Int'l Fixed-Income	2%	1%	-	-	0.01%	(0.04%)	(0.03%)
Private Equity	7%	7%	12.52%	6.13%	0.32%	(0.09%)	0.23%
Absolute Return	3%	4%	2.46%	6.54%	(0.16%)	(0.04%)	(0.20%)
Other	0%	2%	-	-	0.02%	0.02%	0.04%
Cash Equiv	0%	0%	-	-	0.00%	0.01%	0.01%
Total			5.88% =	6.10%	+ (0.28%)+	0.05%	(0.23%)

The charts below accumulate the Total Fund Attribution Analysis (shown earlier) over multiple periods to examine the cumulative sources of excess total fund performance relative to target. These cumulative results quantify the longer-term sources of total fund excess return relative to target by asset class. These relative attribution effects separate the cumulative sources of total fund excess return into Asset Allocation Effect and Manager Selection Effect.





#### **Cumulative Relative Attribution Effects**

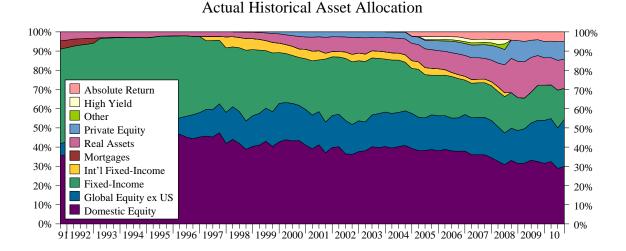




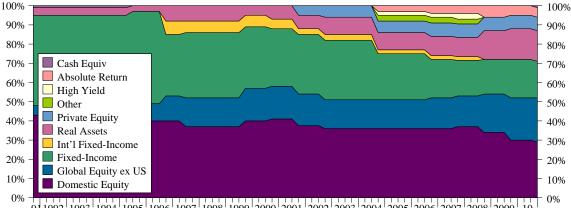
Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Manager Effect	Asset Allocation	Total Relative Return
Domestic Equity	39%	38%	7.37%	8.10%	(0.32%)	0.06%	(0.26%)
Fixed-Income	32%	32%	7.06%	6.84%	0.09%	(0.10%)	(0.00%)
High Yield	0%	0%	-	-	0.00%	0.00%	0.00%
Mortgages	0%	0%	-	-	0.00%	0.00%	0.00%
Real Asset	7%	8%	6.96%	7.51%	(0.13%)	(0.00%)	(0.13%)
International Equity	15%	14%	7.83%	5.80%	0.30%	(0.00%)	0.30%
Int'l Fixed-Income	2%	2%	-	-	0.01%	0.04%	0.05%
Private Equity	3%	3%	-	-	0.07%	0.01%	0.08%
Absolute Return	1%	1%	-	-	(0.06%)	(0.02%)	(0.07%)
Other	0%	1%	-	-	0.01%	(0.00%)	0.00%
Cash Equiv	0%	0%	-	-	0.00%	0.01%	0.01%
Total			7.42% =	7.43%	+ (0.02%) +	0.00%	(0.02%)

# **Actual vs Target Historical Asset Allocation**

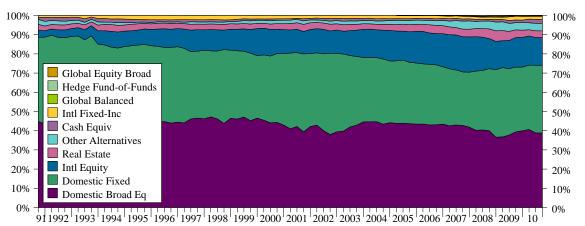
The Historical asset allocation for a fund is by far the largest factor explaining its performance. The charts below show the fund's historical actual asset allocation, the fund's historical target asset allocation, and the historical asset allocation of the average fund in the CAI Public Fund Sponsor Database.



Target Historical Asset Allocation



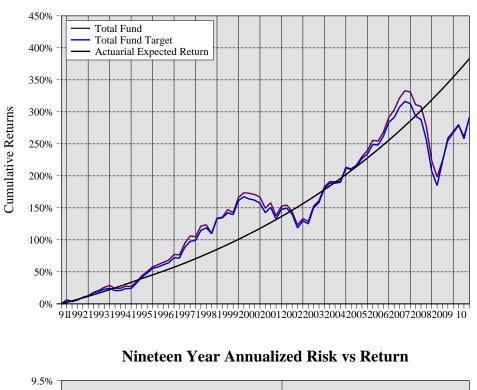
911992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 10



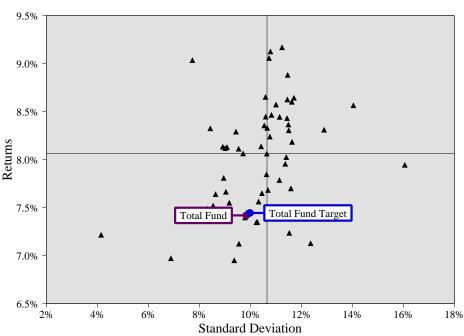
#### Average CAI Public Fund Sponsor Database Historical Asset Allocation

#### **Cumulative Performance Relative to Target**

The first chart below illustrates the cumulative performance of the Total Fund relative to the cumulative performance of the Fund's Target Asset Mix. The Target Mix is assumed to be rebalanced each quarter with no transaction costs. The difference between the Total Fund return and the Target Mix return is explained by the performance attribution on the next page. The second chart below shows the return and the risk of the Total Fund and the Target Mix, contrasted with the returns and risks of the funds in the CAI Public Fund Sponsor Database.



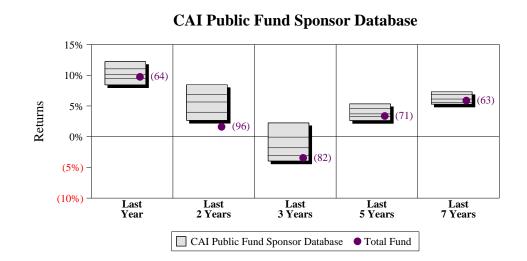




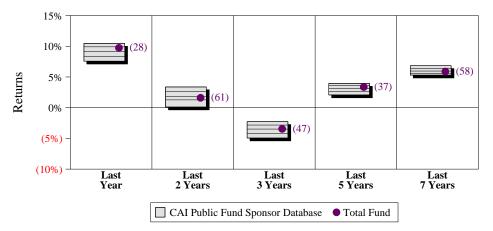
Triangles represent membership of the CAI Public Fund Sponsor Database

# **Total Fund Ranking**

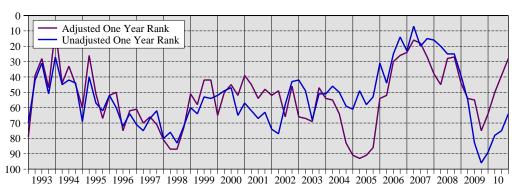
The first two charts show the ranking of the Total Fund's performance relative to that of the CAI Public Fund Sponsor Database for periods ended September 30, 2010. The first chart is a standard unadjusted ranking. In the second chart each fund in the database is adjusted to have the same historical asset allocation as that of the Total Fund. The final chart shows the history of the one year ranking of the Total Fund versus the CAI Public Fund Sponsor Database, both on an unadjusted and asset allocation adjusted basis.



# **Asset Allocation Adjusted Ranking**

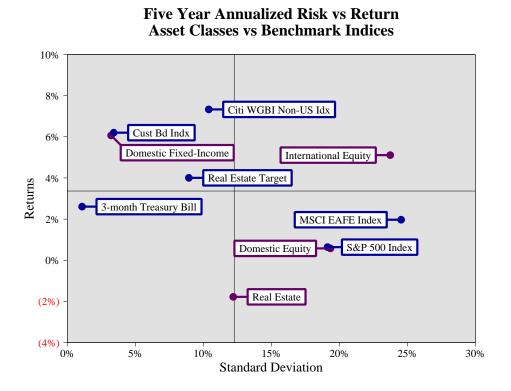




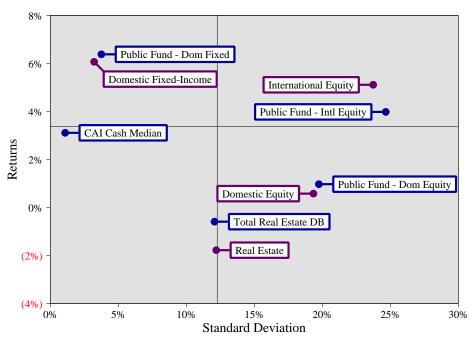


#### **Asset Class Risk and Return**

The charts below show the five year annualized risk and return for each asset class component of the Total Fund. The first graph contrasts these values with those of the appropriate index for each asset class. The second chart contrasts them with the risk and return of the median portfolio in each of the appropriate CAI comparative databases. In each case, the crosshairs on the chart represent the return and risk of the Total Fund.

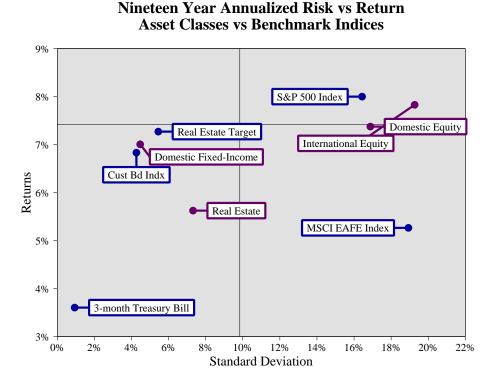


# Five Year Annualized Risk vs Return Asset Classes vs Asset Class Median

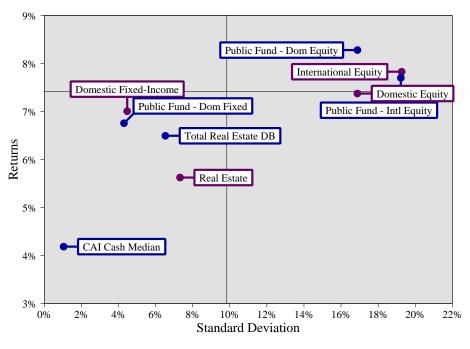


#### **Asset Class Risk and Return**

The charts below show the nineteen year annualized risk and return for each asset class component of the Total Fund. The first graph contrasts these values with those of the appropriate index for each asset class. The second chart contrasts them with the risk and return of the median portfolio in each of the appropriate CAI comparative databases. In each case, the crosshairs on the chart represent the return and risk of the Total Fund.



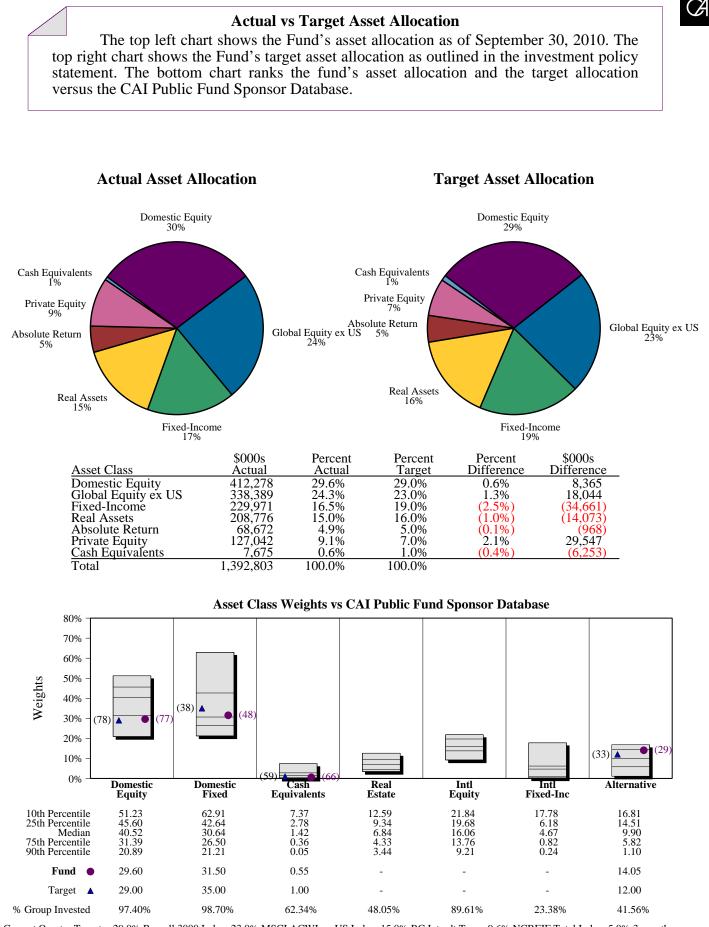
# Nineteen Year Annualized Risk vs Return Asset Classes vs Asset Class Median



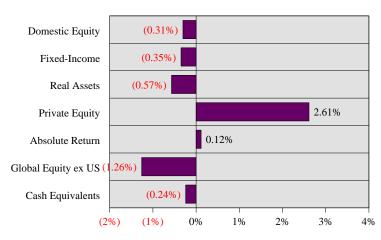
# T R S HEALTH CARE

T R S HEALTH CARE

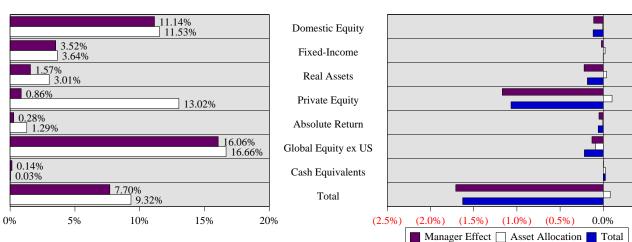
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The following analysis approaches Total Fund Attribution from the perspective of relative return. Relative return attribution separates and quantifies the sources of total fund excess return relative to its target. This excess return is separated into two relative attribution effects: Asset Allocation Effect and Manager Selection Effect. The Asset Allocation Effect represents the excess return due to the actual total fund asset allocation differing from the target asset allocation. Manager Selection Effect represents the total fund impact of the individual managers excess returns relative to their benchmarks.



#### Asset Class Under or Overweighting



**Relative Attribution by Asset Class** 

# Actual vs Target Returns

# **Relative Attribution Effects for Quarter ended September 30, 2010**

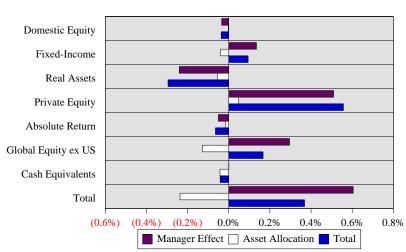
Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	N	Manager Effect	Asset Allocation	Total Relative Return
Domestic Equity	29%	29%	11.14%	11.53%		(0.11%)	(0.01%)	(0.12%)
Fixed-Income	19%	19%	3.52%	3.64%		(0.02%)	0.02%	(0.00%)
Real Assets	15%	16%	1.57%	3.01%		(0.22%)	0.04%	(0.18%)
Private Equity	10%	7%	0.86%	13.02%		(1.17%)	0.10%	(1.07%)
Absolute Return	5%	5%	0.28%	1.29%		(0.05%)	(0.01%)	(0.06%)
Global Equity ex US	22%	23%	16.06%	16.66%		(0.13%)	(0.09%)	(0.22%)
Cash Equivalents	1%	1%	0.14%	0.03%		0.00%	0.02%	0.02%
Total			7.70% =	9.32%	+ (	1.71%) +	0.08%	(1.63%)

\* Current Quarter Target = 29.0% Russell 3000 Index, 23.0% MSCI ACWI ex-US Index, 15.0% BC Intmdt Treas, 9.6% NCREIF Total Index, 5.0% 3-month Treasury Bill+5.0%, 3.2% BC US TIPS Index, 2.3% MSCI EAFE Index, 2.3% S&P 500 Index, 2.3% Russell 2000 Index, 2.0% Citi WGBI Non-US Idx, 2.0% Hi Yld II Index, 1.6% NCREIF Farmland Index, 1.6% NCREIF Timberland Index and 1.0% 3-month Treasury Bill.

0.5%

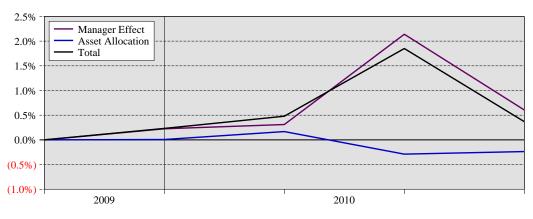
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The charts below accumulate the Total Fund Attribution Analysis (shown earlier) over multiple periods to examine the cumulative sources of excess total fund performance relative to target. These cumulative results quantify the longer-term sources of total fund excess return relative to target by asset class. These relative attribution effects separate the cumulative sources of total fund excess return into Asset Allocation Effect and Manager Selection Effect.



# **One Year Relative Attribution Effects**

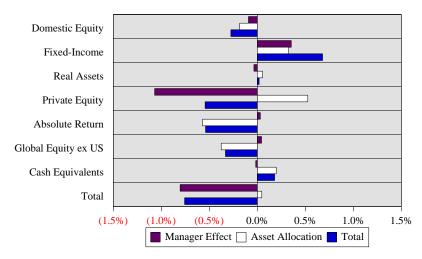
# **Cumulative Relative Attribution Effects**



### **One Year Relative Attribution Effects**

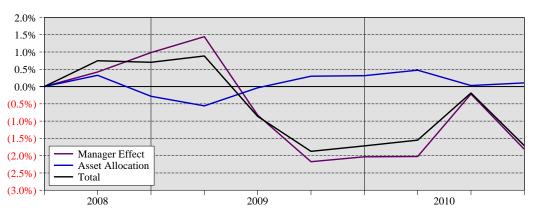
Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Manager Effect	Asset Allocation	Total Relative Return
Domestic Equity	31%	30%	10.81%	10.96%	(0.03%)	(0.00%)	(0.04%)
Fixed-Income	18%	20%	9.46%	8.69%	0.13%	(0.04%)	0.09%
Real Assets	15%	16%	4.00%	5.54%	(0.24%)	(0.05%)	(0.30%)
Private Equity	9%	7%	15.93%	8.96%	0.51%	0.05%	0.56%
Absolute Return	5%	5%	4.30%	5.13%	(0.05%)	(0.01%)	(0.06%)
Global Equity ex US	22%	22%	9.44%	8.00%	0.30%	(0.13%)	0.17%
Cash Equivalents	1%	0%	0.80%	0.70%	0.00%	(0.04%)	(0.04%)
Total			9.42% =	<b>9.06%</b>	+ 0.61% +	- <b>(0.24%</b> )	0.37%

The charts below accumulate the Total Fund Attribution Analysis (shown earlier) over multiple periods to examine the cumulative sources of excess total fund performance relative to target. These cumulative results quantify the longer-term sources of total fund excess return relative to target by asset class. These relative attribution effects separate the cumulative sources of total fund excess return into Asset Allocation Effect and Manager Selection Effect.



**Two and One-Quarter Annualized Relative Attribution Effects** 

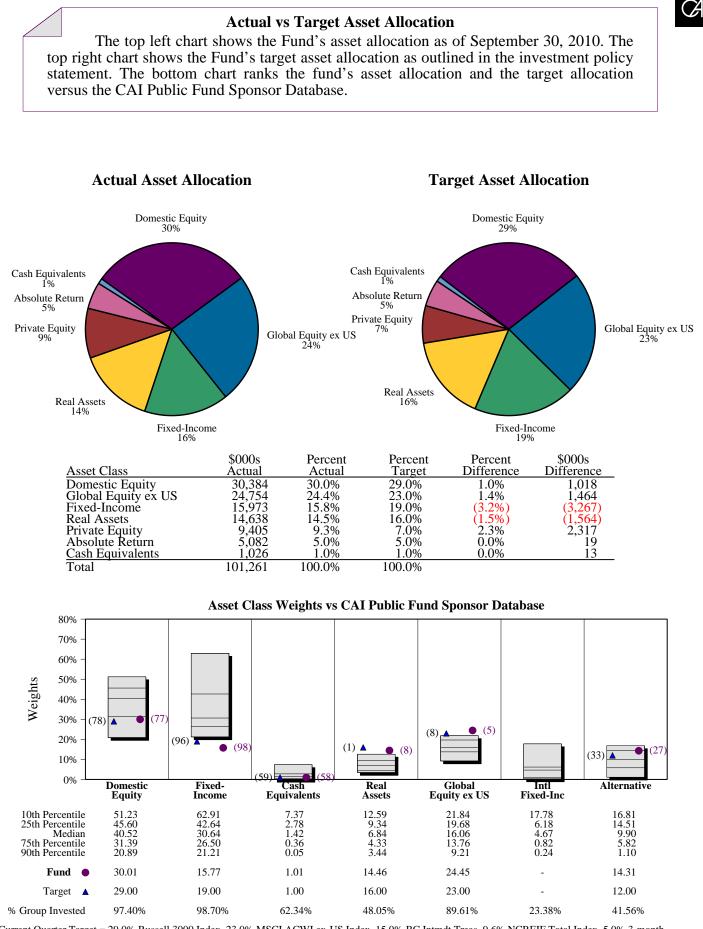
# **Cumulative Relative Attribution Effects**



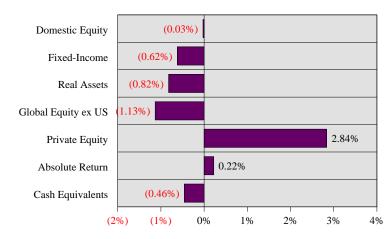
# Two and One-Quarter Annualized Relative Attribution Effects

Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Manager Effect	Asset Allocation	Total Relative Return
Domestic Equity	35%	33%	(2.70%)	(2.35%)	(0.09%)	(0.18%)	(0.28%)
Fixed-Income	19%	20%	10.08%	8.31%	0.35%	0.33%	0.68%
Real Assets	13%	12%	(2.90%)	(3.20%)	(0.04%)	0.05%	0.02%
Private Equity	6%	5%	6.58%	(2.85%)	(1.07%)	0.53%	(0.54%)
Absolute Return	3%	6%	4.36%	5.51%	0.03%	(0.57%)	(0.54%)
Global Equity ex US	23%	22%	(4.41%)	(4.65%)	0.04%	(0.38%)	(0.33%)
Cash Equivalents	2%	1%	1.81%	1.86%	(0.02%)	0.20%	0.18%
Total			(0.17%)=	0.59% +	- (0.80%) +	0.05%	(0.76%)

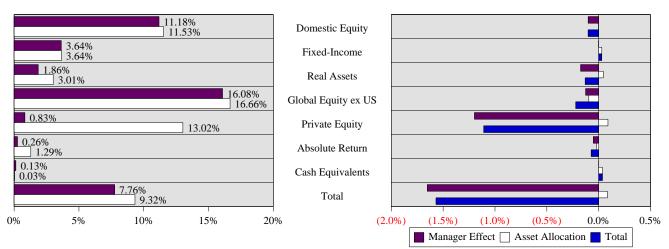
Judicial Retirement Plan



The following analysis approaches Total Fund Attribution from the perspective of relative return. Relative return attribution separates and quantifies the sources of total fund excess return relative to its target. This excess return is separated into two relative attribution effects: Asset Allocation Effect and Manager Selection Effect. The Asset Allocation Effect represents the excess return due to the actual total fund asset allocation differing from the target asset allocation. Manager Selection Effect represents the total fund impact of the individual managers excess returns relative to their benchmarks.



# Asset Class Under or Overweighting



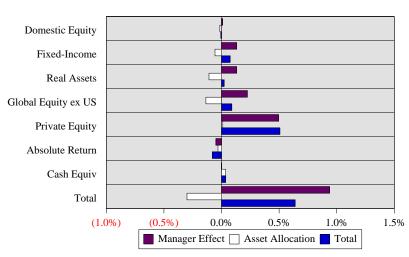
**Relative Attribution by Asset Class** 

# Actual vs Target Returns

# Relative Attribution Effects for Quarter ended September 30, 2010

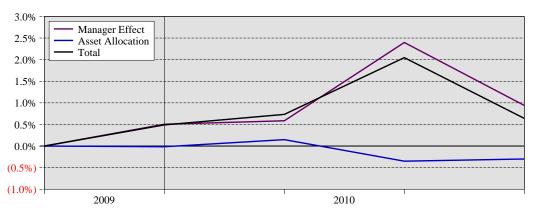
Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Manager Effect	Asset Allocation	Total Relative Return
Domestic Equity	29%	29%	11.18%	11.53%	(0.10%)	(0.00%)	(0.10%)
Fixed-Income	18%	19%	3.64%	3.64%	(0.00%)	0.03%	0.03%
Real Assets	15%	16%	1.86%	3.01%	(0.17%)	0.04%	(0.13%)
Global Equity ex US	22%	23%	16.08%	16.66%	(0.13%)	(0.10%)	(0.22%)
Private Equity	10%	7%	0.83%	13.02%	(1.20%)	0.09%	(1.11%)
Absolute Return	5%	5%	0.26%	1.29%	(0.05%)	(0.02%)	(0.07%)
Cash Equivalents	1%	1%	0.13%	0.03%	0.00%	0.04%	0.04%
Total			7.76% =	9.32%	+ (1.65%)+	0.08%	(1.57%)

The charts below accumulate the Total Fund Attribution Analysis (shown earlier) over multiple periods to examine the cumulative sources of excess total fund performance relative to target. These cumulative results quantify the longer-term sources of total fund excess return relative to target by asset class. These relative attribution effects separate the cumulative sources of total fund excess return into Asset Allocation Effect and Manager Selection Effect.



#### **One Year Relative Attribution Effects**

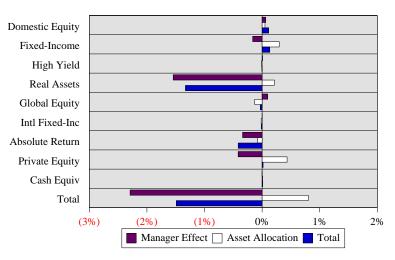
# **Cumulative Relative Attribution Effects**



### **One Year Relative Attribution Effects**

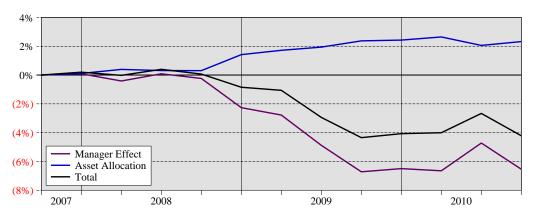
Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Manager Effect	Asset Allocation	Total Relative Return
Domestic Equity	31%	30%	10.95%	10.96%	0.01%	(0.01%)	(0.01%)
Fixed-Income	19%	20%	9.42%	8.69%	0.13%	(0.06%)	0.07%
Real Assets	14%	16%	6.68%	5.54%	0.13%	(0.11%)	0.02%
Global Equity ex US	23%	22%	9.16%	8.00%	0.23%	(0.14%)	0.09%
Private Equity	9%	7%	15.92%	8.96%	0.50%	0.01%	0.51%
Absolute Return	5%	5%	4.26%	5.13%	(0.05%)	(0.03%)	(0.08%)
Cash Equiv	0%	0%	-	-	0.00%	0.04%	0.04%
Total			9.69% =	9.06%	+ 0.94% +	+ ( <b>0.30%</b> )	0.64%

The charts below accumulate the Total Fund Attribution Analysis (shown earlier) over multiple periods to examine the cumulative sources of excess total fund performance relative to target. These cumulative results quantify the longer-term sources of total fund excess return relative to target by asset class. These relative attribution effects separate the cumulative sources of total fund excess return into Asset Allocation Effect and Manager Selection Effect.





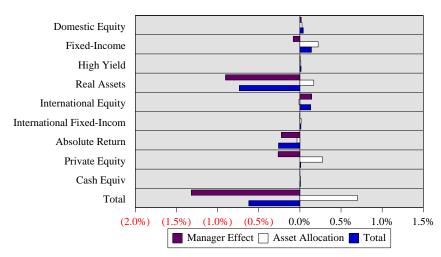
#### **Cumulative Relative Attribution Effects**





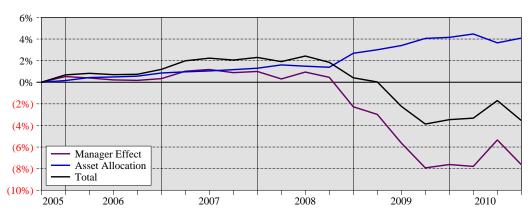
Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Manager Effect	Asset Allocation	Total Relative Return
Domestic Equity	34%	34%	(6.49%)	(6.78%)	0.06%	0.05%	0.11%
Fixed-Income	20%	19%	7.64%	8.25%	(0.16%)	0.30%	0.13%
High Yield	1%	1%	-	-	0.01%	(0.01%)	(0.00%)
Real Assets	15%	14%	(10.07%)	(1.37%)	(1.54%)	0.21%	(1.33%)
Global Equity	22%	21%	(6.53%)	(7.57%)	0.10%	(0.13%)	(0.03%)
Intl Fixed-Inc	0%	1%	- 1	-	0.00%	(0.02%)	(0.02%)
Absolute Return	5%	5%	(1.77%)	6.10%	(0.34%)	(0.08%)	(0.42%)
Private Equity	4%	5%	-	-	(0.42%)	0.43%	0.02%
Cash Equiv	0%	0%	-	-	0.00%	0.01%	0.01%
Total			(3.62%)=	(2.13%) +	(2.29%) +	0.80%	(1.49%)

The charts below accumulate the Total Fund Attribution Analysis (shown earlier) over multiple periods to examine the cumulative sources of excess total fund performance relative to target. These cumulative results quantify the longer-term sources of total fund excess return relative to target by asset class. These relative attribution effects separate the cumulative sources of total fund excess return into Asset Allocation Effect and Manager Selection Effect.





# **Cumulative Relative Attribution Effects**

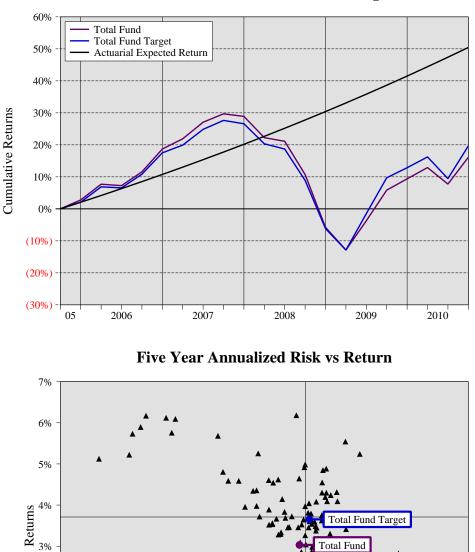




	Effective Actual	Effective Target	Actual	Target	Manager	Asset	Total Relative
Asset Class	Weight	Weight	Return	Return	Effect	Allocation	Return
Domestic Equity	37%	37%	0.84%	0.70%	0.02%	0.03%	0.04%
Fixed-Income	20%	20%	6.39%	6.66%	(0.08%)	0.22%	0.14%
High Yield	1%	1%	-	-	0.00%	0.01%	0.01%
Real Assets	14%	12%	0.62%	5.72%	(0.90%)	0.17%	(0.74%)
International Equity	21%	20%	4.91%	3.82%	0.14%	(0.01%)	0.13%
International Fixed-Ir	ncom 1%	1%	-	-	(0.00%)	0.02%	0.01%
Absolute Return	4%	5%	2.19%	7.33%	(0.23%)	(0.04%)	(0.26%)
Private Equity	2%	3%	-	-	(0.26%)	0.28%	0.01%
Cash Equiv	0%	0%	-	-	0.00%	0.01%	0.01%
Total			3.03% =	3.65%	+ (1.32%)+	0.70%	(0.62%)

#### **Cumulative Performance Relative to Target**

The first chart below illustrates the cumulative performance of the Total Fund relative to the cumulative performance of the Fund's Target Asset Mix. The Target Mix is assumed to be rebalanced each quarter with no transaction costs. The difference between the Total Fund return and the Target Mix return is explained by the performance attribution on the next page. The second chart below shows the return and the risk of the Total Fund and the Target Mix, contrasted with the returns and risks of the funds in the CAI Public Fund Sponsor Database.



#### **Cumulative Returns Actual vs Target**

Standard Deviation Triangles represent membership of the CAI Public Fund Sponsor Database

12%

14%

16%

18%

20%

22%

Total Fund

\* Current Ouarter Target = 29.0% Russell 3000 Index, 23.0% MSCI ACWI ex-US Index, 15.0% BC Intmdt Treas, 9.6% NCREIF Total Index, 5.0% 3-month Treasury Bill+5.0%, 3.2% BC US TIPS Index, 2.3% MSCI EAFE Index, 2.3% S&P 500 Index, 2.3% Russell 2000 Index, 2.0% Citi WGBI Non-US Idx, 2.0% Hi Yld II Index, 1.6% NCREIF Farmland Index, 1.6% NCREIF Timberland Index and 1.0% 3-month Treasury Bill.

10%

3%

2%

1%

0%

0%

2%

4%

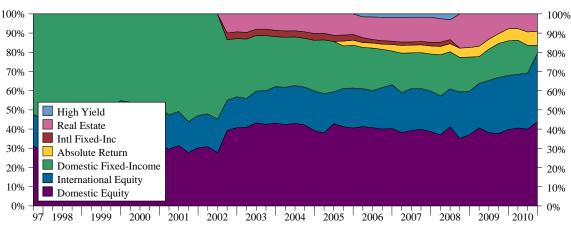
6%

8%

# Actual vs Target Historical Asset Allocation

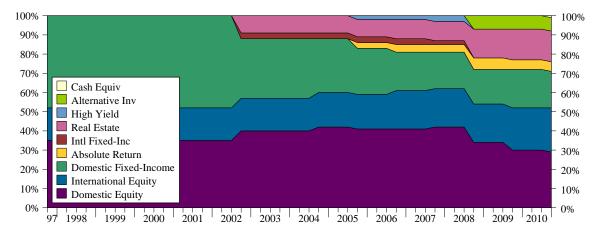
The Historical asset allocation for a fund is by far the largest factor explaining its performance. The charts below show the fund's historical actual asset allocation, the fund's historical target asset allocation, and the historical asset allocation of the average fund in the CAI Public Fund Sponsor Database.

Actual Historical Asset Allocation

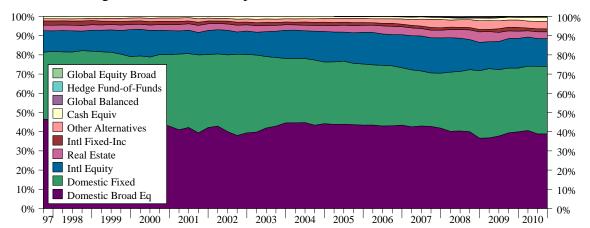


#### 2002 2002 2001 2000 2000

# Target Historical Asset Allocation



#### Average CAI Public Fund Sponsor Database Historical Asset Allocation

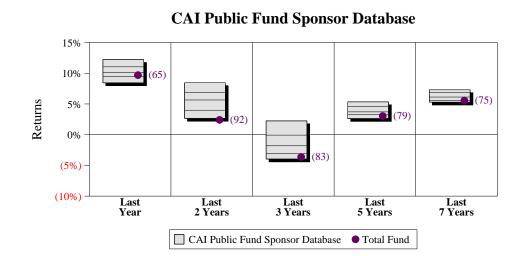


\* Current Quarter Target = 29.0% Russell 3000 Index, 23.0% MSCI ACWI ex-US Index, 15.0% BC Intmdt Treas, 9.6% NCREIF Total Index, 5.0% 3-month Treasury Bill+5.0%, 3.2% BC US TIPS Index, 2.3% MSCI EAFE Index, 2.3% S&P 500 Index, 2.3% Russell 2000 Index, 2.0% Citi WGBI Non-US Idx, 2.0% Hi Yld II Index, 1.6% NCREIF Farmland Index, 1.6% NCREIF Timberland Index and 1.0% 3-month Treasury Bill.

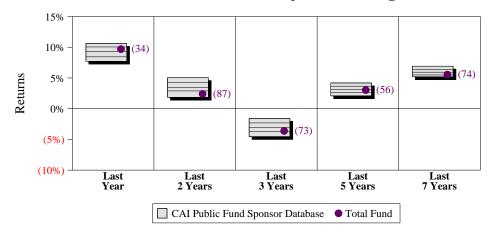
Judicial Retirement Plan

# **Total Fund Ranking**

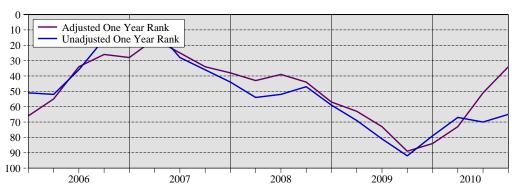
The first two charts show the ranking of the Total Fund's performance relative to that of the CAI Public Fund Sponsor Database for periods ended September 30, 2010. The first chart is a standard unadjusted ranking. In the second chart each fund in the database is adjusted to have the same historical asset allocation as that of the Total Fund. The final chart shows the history of the one year ranking of the Total Fund versus the CAI Public Fund Sponsor Database, both on an unadjusted and asset allocation adjusted basis.



**Asset Allocation Adjusted Ranking** 

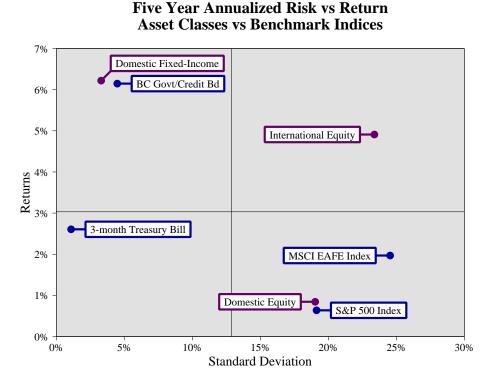




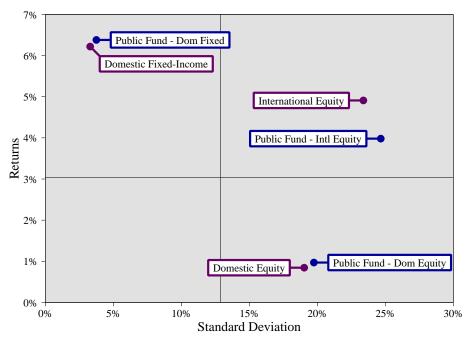


### **Asset Class Risk and Return**

The charts below show the five year annualized risk and return for each asset class component of the Total Fund. The first graph contrasts these values with those of the appropriate index for each asset class. The second chart contrasts them with the risk and return of the median portfolio in each of the appropriate CAI comparative databases. In each case, the crosshairs on the chart represent the return and risk of the Total Fund.



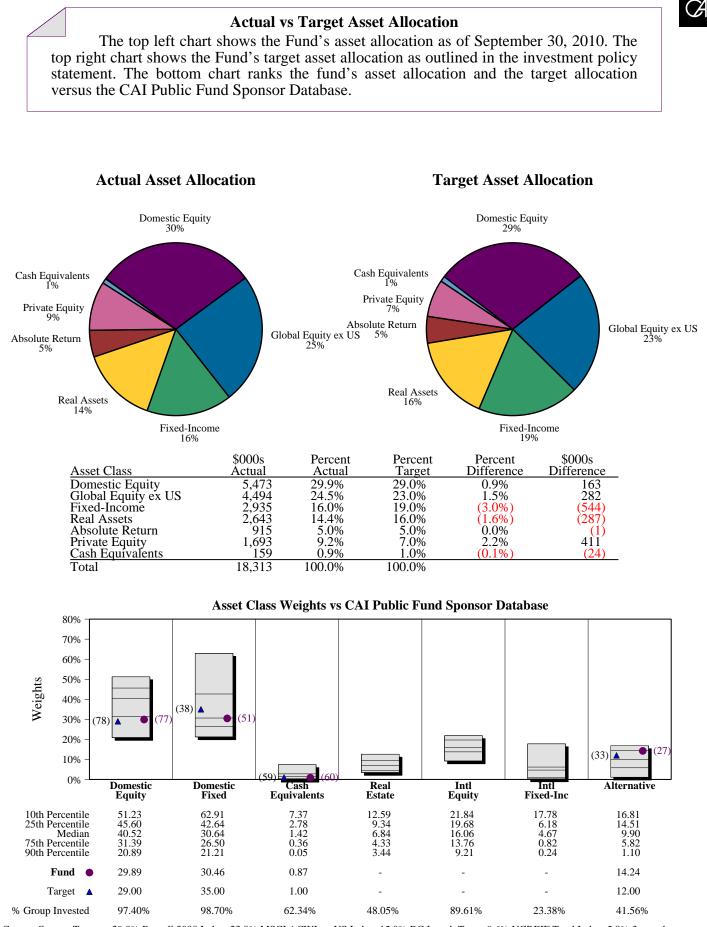
# Five Year Annualized Risk vs Return Asset Classes vs Asset Class Median



# J R S HEALTH CARE

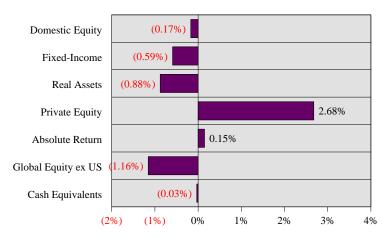
J R S HEALTH CARE

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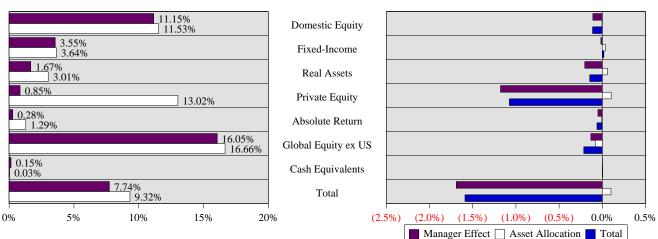


\* Current Quarter Target = 29.0% Russell 3000 Index, 23.0% MSCI ACWI ex-US Index, 15.0% BC Intmdt Treas, 9.6% NCREIF Total Index, 5.0% 3-month Treasury Bill+5.0%, 3.2% BC US TIPS Index, 2.3% MSCI EAFE Index, 2.3% S&P 500 Index, 2.3% Russell 2000 Index, 2.0% Citi WGBI Non-US Idx, 2.0% Hi Yld II Index, 1.6% NCREIF Farmland Index, 1.6% NCREIF Timberland Index and 1.0% 3-month Treasury Bill.

The following analysis approaches Total Fund Attribution from the perspective of relative return. Relative return attribution separates and quantifies the sources of total fund excess return relative to its target. This excess return is separated into two relative attribution effects: Asset Allocation Effect and Manager Selection Effect. The Asset Allocation Effect represents the excess return due to the actual total fund asset allocation differing from the target asset allocation. Manager Selection Effect represents the total fund impact of the individual managers excess returns relative to their benchmarks.



# Asset Class Under or Overweighting



# Actual vs Target Returns

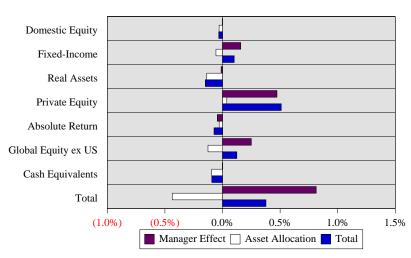
# Relative Attribution Effects for Quarter ended September 30, 2010

Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Manager Effect	Asset Allocation	Total Relative Return
Domestic Equity	29%	29%	11.15%	11.53%	(0.11%	) (0.00%)	(0.11%)
Fixed-Income	18%	19%	3.55%	3.64%	(0.02%		0.02%
Real Assets	15%	16%	1.67%	3.01%	(0.20%	) 0.06%	(0.15%)
Private Equity	10%	7%	0.85%	13.02%	(1.18%	0.10%	(1.08%)
Absolute Return	5%	5%	0.28%	1.29%	(0.05%	(0.01%)	(0.06%)
Global Equity ex US	22%	23%	16.05%	16.66%	(0.13%	(0.08%)	(0.21%)
Cash Equivalents	1%	1%	0.15%	0.03%	0.00%	0.00%	0.00%
<b></b>							1
Total			<b>7.74%</b> =	9.32%	+ (1.69%)	) + 0.10%	(1.59%)

\* Current Quarter Target = 29.0% Russell 3000 Index, 23.0% MSCI ACWI ex-US Index, 15.0% BC Intmdt Treas, 9.6% NCREIF Total Index, 5.0% 3-month Treasury Bill+5.0%, 3.2% BC US TIPS Index, 2.3% MSCI EAFE Index, 2.3% S&P 500 Index, 2.3% Russell 2000 Index, 2.0% Citi WGBI Non-US Idx, 2.0% Hi Yld II Index, 1.6% NCREIF Farmland Index, 1.6% NCREIF Timberland Index and 1.0% 3-month Treasury Bill.

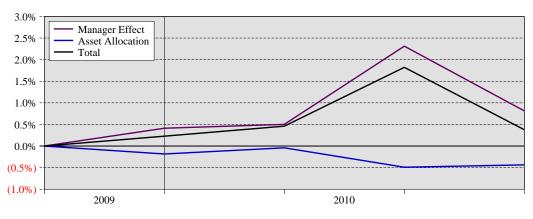
**Relative Attribution by Asset Class** 

The charts below accumulate the Total Fund Attribution Analysis (shown earlier) over multiple periods to examine the cumulative sources of excess total fund performance relative to target. These cumulative results quantify the longer-term sources of total fund excess return relative to target by asset class. These relative attribution effects separate the cumulative sources of total fund excess return into Asset Allocation Effect and Manager Selection Effect.



# **One Year Relative Attribution Effects**

# **Cumulative Relative Attribution Effects**

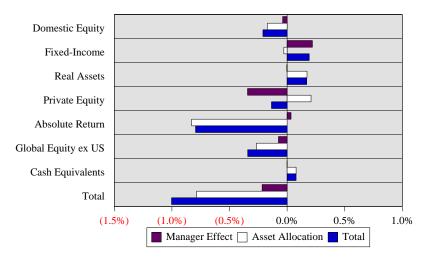


# **One Year Relative Attribution Effects**

Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Manager Effect	Asset Allocation	Total Relative Return
Domestic Equity	31%	30%	10.91%	10.96%	(0.00%)	(0.03%)	(0.03%)
Fixed-Income	18%	20%	9.58%	8.69%	0.16%	(0.06%)	0.10%
Real Assets	14%	16%	5.75%	5.54%	(0.01%)	(0.14%)	(0.15%)
Private Equity	8%	7%	15.86%	8.96%	0.47%	0.04%	0.51%
Absolute Return	5%	5%	4.30%	5.13%	(0.04%)	(0.03%)	(0.07%)
Global Equity ex US	23%	22%	9.28%	8.00%	0.25%	(0.13%)	0.12%
Cash Equivalents	1%	0%	0.97%	0.86%	0.00%	(0.09%)	(0.09%)
Total			9.43% =	9.06%	+ 0.81% +	- (0.44%)	0.38%

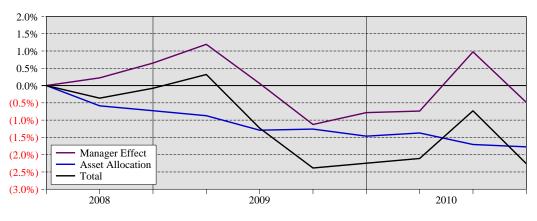
\* Current Quarter Target = 29.0% Russell 3000 Index, 23.0% MSCI ACWI ex-US Index, 15.0% BC Intmdt Treas, 9.6% NCREIF Total Index, 5.0% 3-month Treasury Bill+5.0%, 3.2% BC US TIPS Index, 2.3% MSCI EAFE Index, 2.3% S&P 500 Index, 2.3% Russell 2000 Index, 2.0% Citi WGBI Non-US Idx, 2.0% Hi Yld II Index, 1.6% NCREIF Farmland Index, 1.6% NCREIF Timberland Index and 1.0% 3-month Treasury Bill.

The charts below accumulate the Total Fund Attribution Analysis (shown earlier) over multiple periods to examine the cumulative sources of excess total fund performance relative to target. These cumulative results quantify the longer-term sources of total fund excess return relative to target by asset class. These relative attribution effects separate the cumulative sources of total fund excess return into Asset Allocation Effect and Manager Selection Effect.



**Two and One-Quarter Annualized Relative Attribution Effects** 

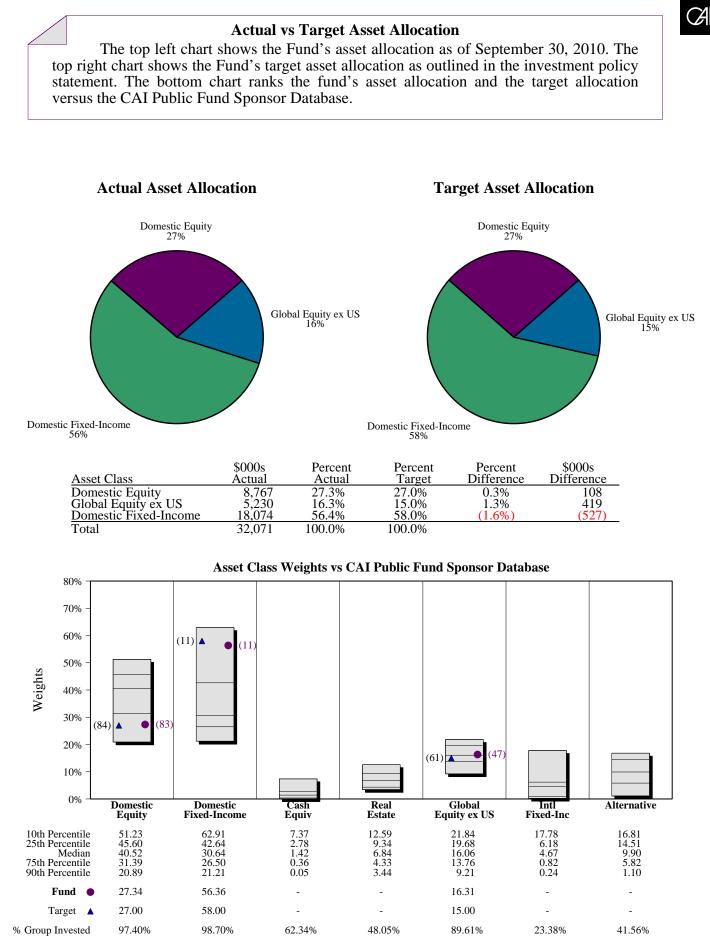
# **Cumulative Relative Attribution Effects**



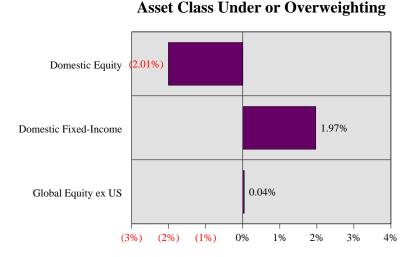
# **Two and One-Quarter Annualized Relative Attribution Effects**

Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Manager Effect	Asset Allocation	Total Relative Return
Domestic Equity	35%	33%	(2.53%)	(2.35%)	(0.04%)	(0.17%)	(0.21%)
Fixed-Income	20%	20%	9.45%	8.31%	0.22%	(0.03%)	0.19%
Real Assets	12%	12%	(3.47%)	(3.20%)	(0.00%)	0.17%	0.17%
Private Equity	5%	5%	6.55%	(2.85%)	(0.34%)	0.21%	(0.14%)
Absolute Return	3%	6%	4.36%	5.51%	0.03%	(0.83%)	(0.79%)
Global Equity ex US	23%	22%	(4.76%)	(4.65%)	(0.08%)	(0.27%)	(0.34%)
Cash Equivalents	3%	1%	1.41%	1.05%	0.00%	0.08%	0.08%
Total			(0.42%)=	0.59% -	+ (0.22%) +	- <b>(0.79%)</b>	(1.00%)

\* Current Quarter Target = 29.0% Russell 3000 Index, 23.0% MSCI ACWI ex-US Index, 15.0% BC Intmdt Treas, 9.6% NCREIF Total Index, 5.0% 3-month Treasury Bill+5.0%, 3.2% BC US TIPS Index, 2.3% MSCI EAFE Index, 2.3% S&P 500 Index, 2.3% Russell 2000 Index, 2.0% Citi WGBI Non-US Idx, 2.0% Hi Yld II Index, 1.6% NCREIF Farmland Index, 1.6% NCREIF Timberland Index and 1.0% 3-month Treasury Bill.

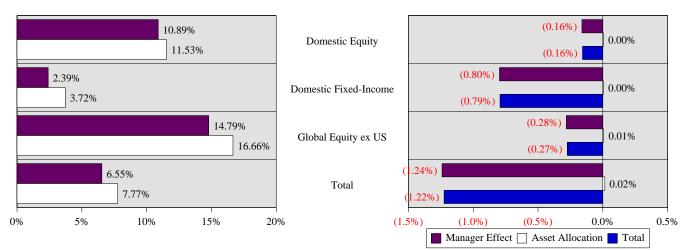


The following analysis approaches Total Fund Attribution from the perspective of relative return. Relative return attribution separates and quantifies the sources of total fund excess return relative to its target. This excess return is separated into two relative attribution effects: Asset Allocation Effect and Manager Selection Effect. The Asset Allocation Effect represents the excess return due to the actual total fund asset allocation differing from the target asset allocation. Manager Selection Effect represents the total fund impact of the individual managers excess returns relative to their benchmarks.



## **Actual vs Target Returns**

## **Relative Attribution by Asset Class**



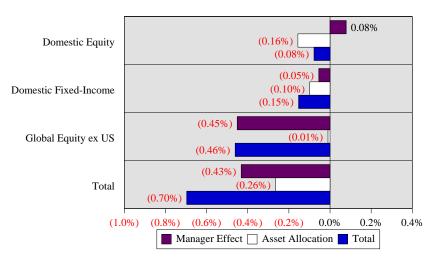
# **Relative Attribution Effects for Quarter ended September 30, 2010**

Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Manager Effect	Asset Allocation	Total Relative Return
Domestic Equity Domestic Fixed-Incon Global Equity ex US	25% ne 60% 15%	27% 58% 15%	10.89% 2.39% 14.79%	11.53% 3.72% 16.66%	(0.16%) (0.80%) (0.28%)	$0.00\% \\ 0.00\% \\ 0.01\%$	$(0.16\%) \\ (0.79\%) \\ (0.27\%)$
Total	1370	1370	<b>6.55%</b> =		+ ( <b>1.24%</b> ) +		(1.22%)

\* Current Quarter Target = 40.6% BC Aggregate Index, 27.0% Russell 3000 Index, 15.0% MSCI ACWI ex-US Index, 5.8% BC Treasury, 5.8% Citi WGBI Non-US Idx and 5.8% Hi Yld II Index.

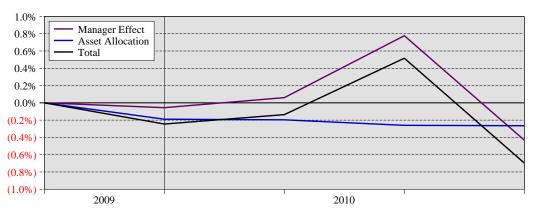
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The charts below accumulate the Total Fund Attribution Analysis (shown earlier) over multiple periods to examine the cumulative sources of excess total fund performance relative to target. These cumulative results quantify the longer-term sources of total fund excess return relative to target by asset class. These relative attribution effects separate the cumulative sources of total fund excess return into Asset Allocation Effect and Manager Selection Effect.



# **One Year Relative Attribution Effects**

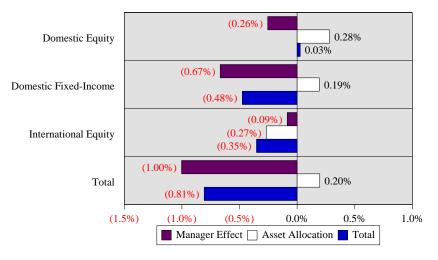
# **Cumulative Relative Attribution Effects**



# **One Year Relative Attribution Effects**

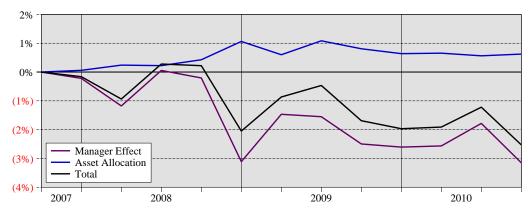
Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Manager Effect	Asset Allocation	Total Relative Return
Domestic Equity	26%	27%	11.28%	10.96%	0.08%	(0.16%)	(0.08%)
Domestic Fixed-Incom Global Equity ex US	ne 59% 15%	58% 15%	8.62% 5.29%	8.77% 8.00%	(0.05%) (0.45%)	(0.10%) (0.01%)	(0.15%) (0.46%)
Global Equity ex US	13%	13%	5.29%	0.00%	(0.45%)	(0.01%)	(0.40%)
Total			9.02% =	<b>9.71%</b>	+ (0.43%)+	(0.26%)	(0.70%)

The charts below accumulate the Total Fund Attribution Analysis (shown earlier) over multiple periods to examine the cumulative sources of excess total fund performance relative to target. These cumulative results quantify the longer-term sources of total fund excess return relative to target by asset class. These relative attribution effects separate the cumulative sources of total fund excess return into Asset Allocation Effect and Manager Selection Effect.



# **Three Year Annualized Relative Attribution Effects**

# **Cumulative Relative Attribution Effects**



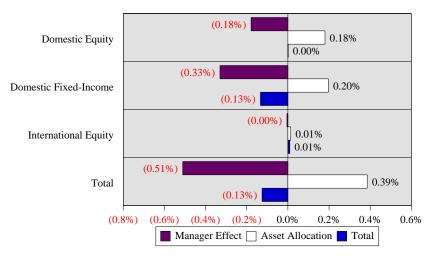
# **Three Year Annualized Relative Attribution Effects**

Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Manager Effect	Asset Allocation	Total Relative Return
Domestic Equity Domestic Fixed-Incor	27% ne 60%	29% 59%	(7.11%) 6.85%	(6.52%) 7.78%	(0.26%) (0.67%)	0.28% 0.19%	0.03%
International Equity	13%	12%	(7.80%)	(8.08%)	(0.09%)	(0.27%)	(0.35%)
Total			1.82% =	2.63% +	(1.00%) +	- 0.20%	(0.81%)

\* Current Quarter Target = 40.6% BC Aggregate Index, 27.0% Russell 3000 Index, 15.0% MSCI ACWI ex-US Index, 5.8% BC Treasury, 5.8% Citi WGBI Non-US Idx and 5.8% Hi Yld II Index.

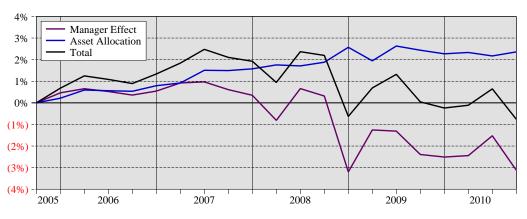
C A

The charts below accumulate the Total Fund Attribution Analysis (shown earlier) over multiple periods to examine the cumulative sources of excess total fund performance relative to target. These cumulative results quantify the longer-term sources of total fund excess return relative to target by asset class. These relative attribution effects separate the cumulative sources of total fund excess return into Asset Allocation Effect and Manager Selection Effect.



# **Five Year Annualized Relative Attribution Effects**

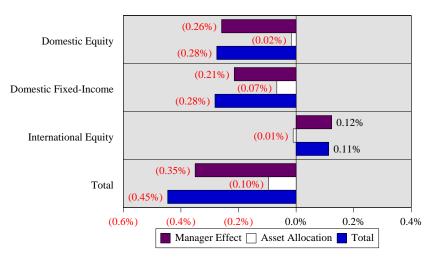
# **Cumulative Relative Attribution Effects**



# **Five Year Annualized Relative Attribution Effects**

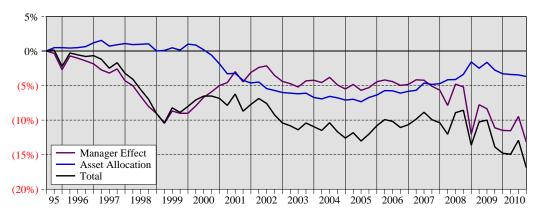
Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Manager Effect	Asset Allocation	Total Relative Return
Domestic Equity Domestic Fixed-Incor	29%	29% 59%	0.45% 5.95%	0.90% 6.34%	(0.18%) (0.33%)	0.18% 0.20%	0.00% (0.13%)
International Equity	13%	11%	3.45%	2.94%	(0.00%)	0.01%	0.01%
Total			4.86% =	4.98%	+ (0.51%)+	0.39%	(0.13%)

The charts below accumulate the Total Fund Attribution Analysis (shown earlier) over multiple periods to examine the cumulative sources of excess total fund performance relative to target. These cumulative results quantify the longer-term sources of total fund excess return relative to target by asset class. These relative attribution effects separate the cumulative sources of total fund excess return into Asset Allocation Effect and Manager Selection Effect.



**Fifteen and One-Quarter Annualized Relative Attribution Effects** 

# **Cumulative Relative Attribution Effects**

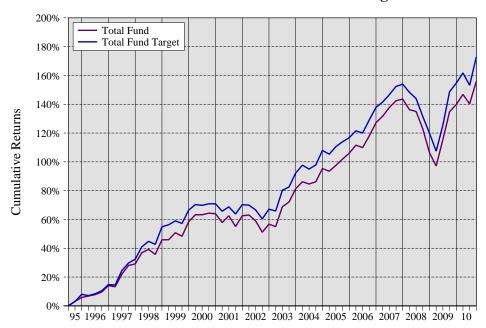


# Fifteen and One-Quarter Annualized Relative Attribution Effects

Asset Class	Effective Actual Weight	Effective Target Weight	Actual Return	Target Return	Manager Effect	Asset Allocation	Total Relative Return
Domestic Equity Domestic Fixed-Incor	30% me 60%	28% 62%	6.09% 6.27%	7.03% 6.53%	(0.26%) (0.21%)	(0.02%) (0.07%)	(0.28%) (0.28%)
International Equity	10%	10%	6.65%	5.06%	0.12%	(0.01%)	0.11%
Total			6.36% =	6.80%	+ (0.35%)+	· ( <b>0.10%</b> )	(0.45%)

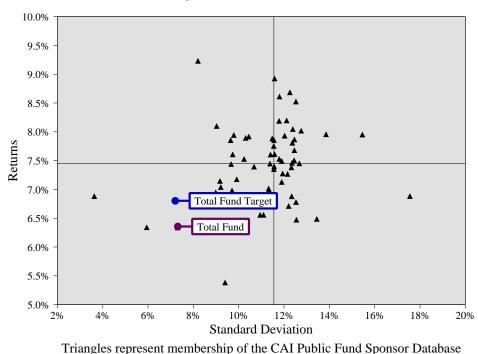
#### **Cumulative Performance Relative to Target**

The first chart below illustrates the cumulative performance of the Total Fund relative to the cumulative performance of the Fund's Target Asset Mix. The Target Mix is assumed to be rebalanced each quarter with no transaction costs. The difference between the Total Fund return and the Target Mix return is explained by the performance attribution on the next page. The second chart below shows the return and the risk of the Total Fund and the Target Mix, contrasted with the returns and risks of the funds in the CAI Public Fund Sponsor Database.



#### **Cumulative Returns Actual vs Target**

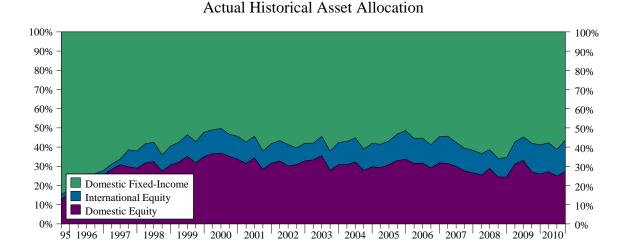
Fifteen and One-Quarter Year Annualized Risk vs Return



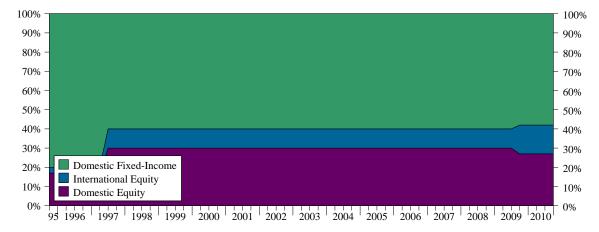
\* Current Quarter Target = 40.6% BC Aggregate Index, 27.0% Russell 3000 Index, 15.0% MSCI ACWI ex-US Index, 5.8% BC Treasury, 5.8% Citi WGBI Non-US Idx and 5.8% Hi Yld II Index.

# Actual vs Target Historical Asset Allocation

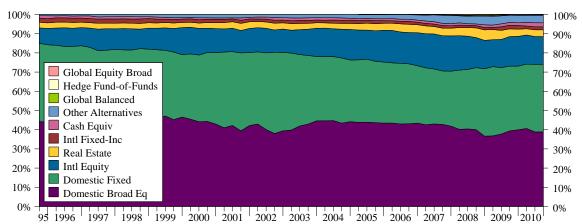
The Historical asset allocation for a fund is by far the largest factor explaining its performance. The charts below show the fund's historical actual asset allocation, the fund's historical target asset allocation, and the historical asset allocation of the average fund in the CAI Public Fund Sponsor Database.



## Target Historical Asset Allocation

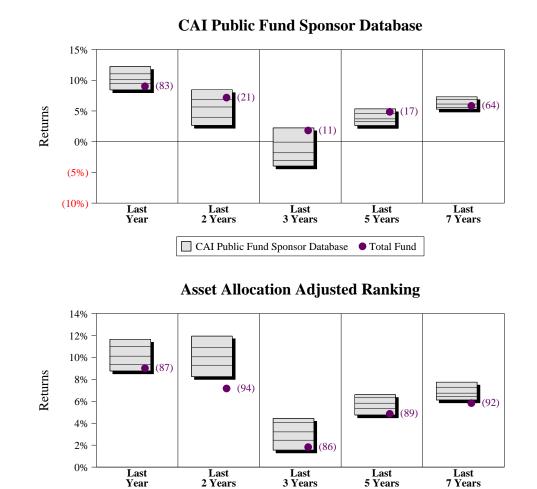


# Average CAI Public Fund Sponsor Database Historical Asset Allocation



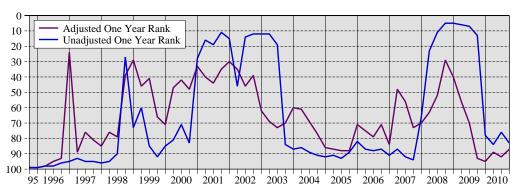
# **Total Fund Ranking**

The first two charts show the ranking of the Total Fund's performance relative to that of the CAI Public Fund Sponsor Database for periods ended September 30, 2010. The first chart is a standard unadjusted ranking. In the second chart each fund in the database is adjusted to have the same historical asset allocation as that of the Total Fund. The final chart shows the history of the one year ranking of the Total Fund versus the CAI Public Fund Sponsor Database, both on an unadjusted and asset allocation adjusted basis.



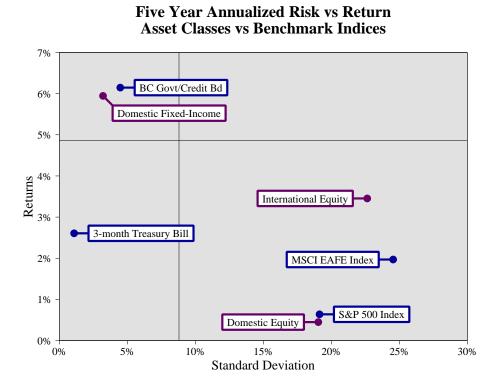
CAI Public Fund Sponsor Database • Total Fund



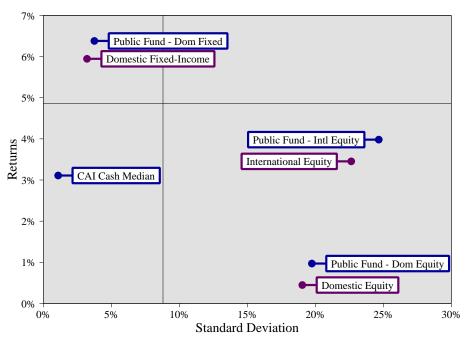


# **Asset Class Risk and Return**

The charts below show the five year annualized risk and return for each asset class component of the Total Fund. The first graph contrasts these values with those of the appropriate index for each asset class. The second chart contrasts them with the risk and return of the median portfolio in each of the appropriate CAI comparative databases. In each case, the crosshairs on the chart represent the return and risk of the Total Fund.



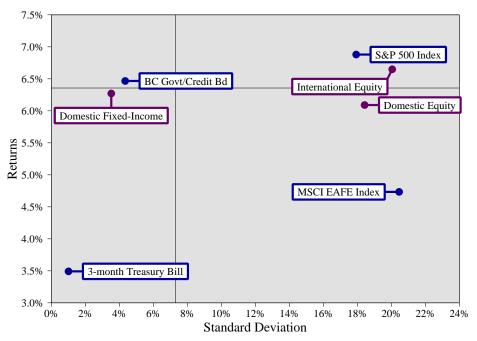
# Five Year Annualized Risk vs Return Asset Classes vs Asset Class Median

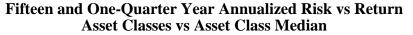


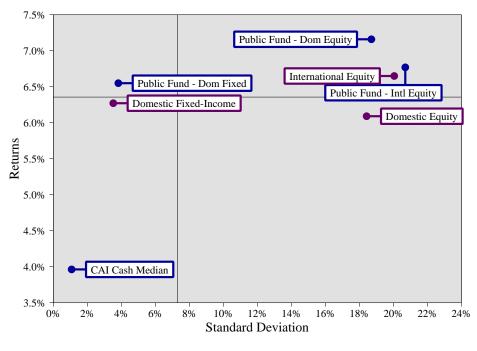
# Asset Class Risk and Return

The charts below show the fifteen and one-quarter year annualized risk and return for each asset class component of the Total Fund. The first graph contrasts these values with those of the appropriate index for each asset class. The second chart contrasts them with the risk and return of the median portfolio in each of the appropriate CAI comparative databases. In each case, the crosshairs on the chart represent the return and risk of the Total Fund.



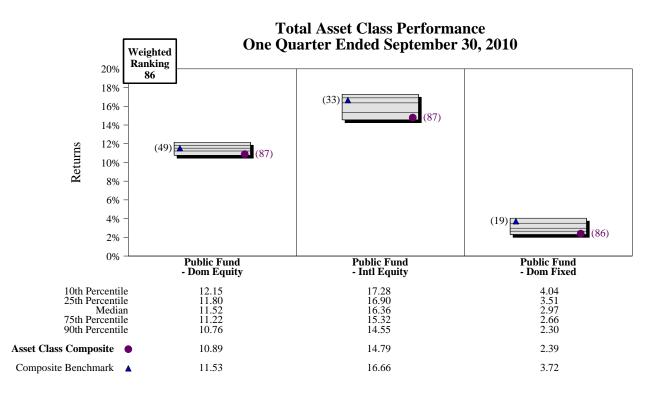


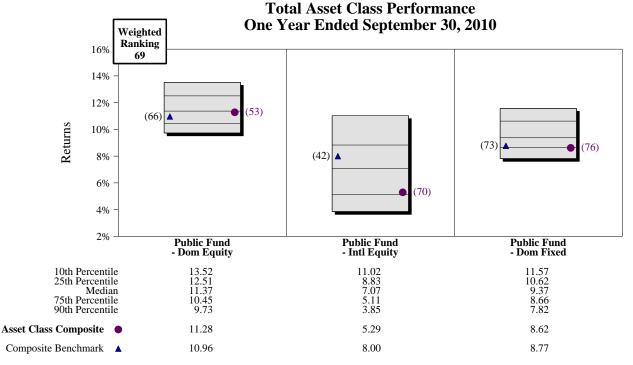




# **Asset Class Rankings**

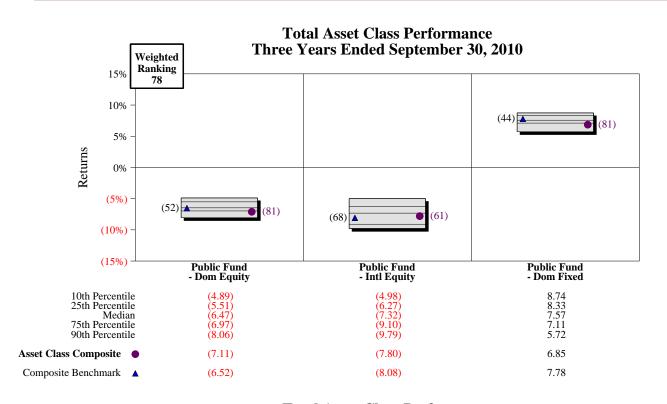
The charts below show the rankings of each asset class component of the Total Fund relative to appropriate comparative databases. In the upper left corner of each graph is the weighted average of the rankings across the different asset classes. The weights of the fund's actual asset allocation are used to make this calculation. The weighted average ranking can be viewed as a measure of the fund's overall success in picking managers and structuring asset classes.

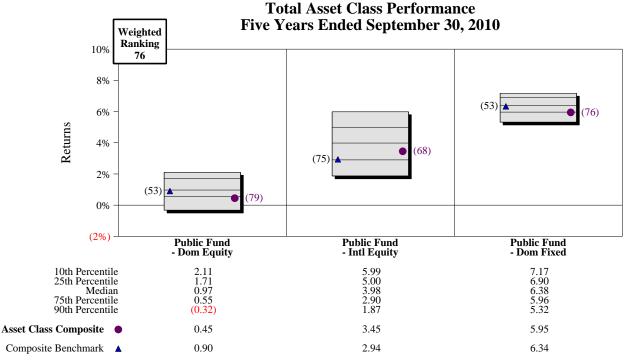




## **Asset Class Rankings**

The charts below show the rankings of each asset class component of the Total Fund relative to appropriate comparative databases. In the upper left corner of each graph is the weighted average of the rankings across the different asset classes. The weights of the fund's actual asset allocation are used to make this calculation. The weighted average ranking can be viewed as a measure of the fund's overall success in picking managers and structuring asset classes.



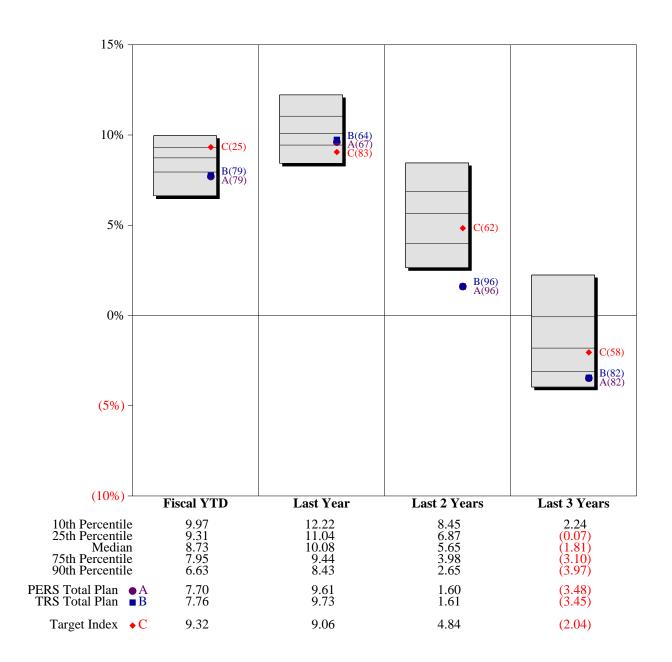


All Plans

# ALASKA RETIREMENT MANAGEMENT BOARD PERFORMANCE VS CAI PUBLIC FUND SPONSOR DATABASE PERIODS ENDED SEPTEMBER 30, 2010

# **Return Ranking**

The chart below illustrates fund rankings over various periods versus the CAI Public Fund Sponsor Database. The bars represent the range of returns from the 10th percentile to the 90th percentile for each period for all funds in the CAI Public Fund Sponsor Database. The numbers to the right of the bar represent the percentile rankings of the funds being analyzed. The table below the chart details the rates of return plotted in the graph above.

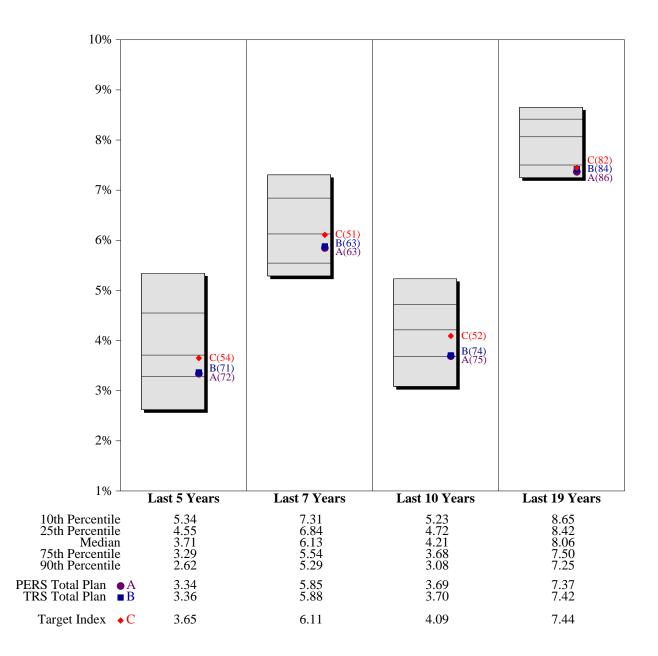


\* Current Quarter Target = 29.0% Russell 3000 Index, 23.0% MSCI ACWI ex-US Index, 15.0% BC Intmdt Treas, 9.6% NCREIF Total Index, 5.0% 3-month Treasury Bill+5.0%, 3.2% BC US TIPS Index, 2.3% MSCI EAFE Index, 2.3% S&P 500 Index, 2.3% Russell 2000 Index, 2.0% Citi WGBI Non-US Idx, 2.0% Hi Yld II Index, 1.6% NCREIF Farmland Index, 1.6% N

# ALASKA RETIREMENT MANAGEMENT BOARD PERFORMANCE VS CAI PUBLIC FUND SPONSOR DATABASE PERIODS ENDED SEPTEMBER 30, 2010

# **Return Ranking**

The chart below illustrates fund rankings over various periods versus the CAI Public Fund Sponsor Database. The bars represent the range of returns from the 10th percentile to the 90th percentile for each period for all funds in the CAI Public Fund Sponsor Database. The numbers to the right of the bar represent the percentile rankings of the funds being analyzed. The table below the chart details the rates of return plotted in the graph above.

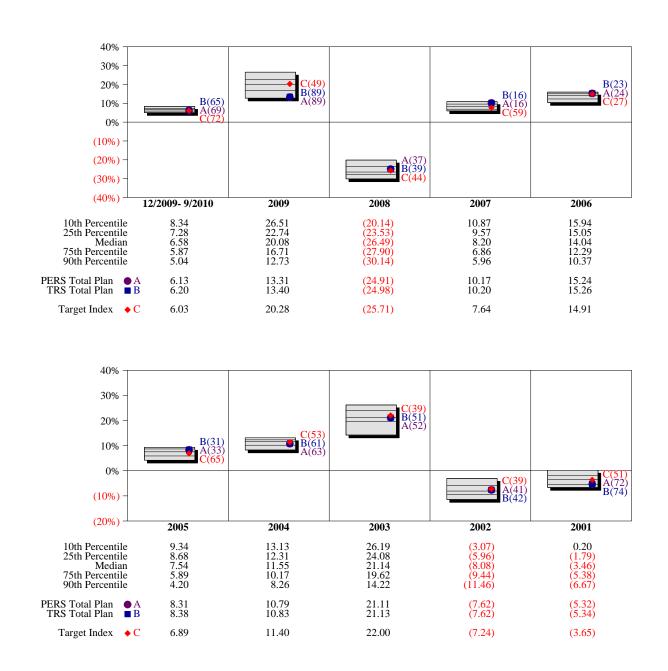


\* Current Quarter Target = 29.0% Russell 3000 Index, 23.0% MSCI ACWI ex-US Index, 15.0% BC Intmdt Treas, 9.6% NCREIF Total Index, 5.0% 3-month Treasury Bill+5.0%, 3.2% BC US TIPS Index, 2.3% MSCI EAFE Index, 2.3% S&P 500 Index, 2.3% Russell 2000 Index, 2.0% Citi WGBI Non-US Idx, 2.0% Hi Yld II Index, 1.6% NCREIF Farmland Index, 1.6% N

# ALASKA RETIREMENT MANAGEMENT BOARD PERFORMANCE VS CAI PUBLIC FUND SPONSOR DATABASE RECENT PERIODS

# **Return Ranking**

The chart below illustrates fund rankings over various periods versus the CAI Public Fund Sponsor Database. The bars represent the range of returns from the 10th percentile to the 90th percentile for each period for all funds in the CAI Public Fund Sponsor Database. The numbers to the right of the bar represent the percentile rankings of the funds being analyzed. The table below the chart details the rates of return plotted in the graph above.



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# **Investment Manager Asset Allocation**

The table below contrasts the distribution of assets across the Fund's investment managers as of September 30, 2010, with the distribution as of June 30, 2010.

	September 3	J, 2010	June 30, 2010		
	Market Value	Percent	Market Value	Percent	
otal Domestic Equity(T)	\$4,308,031,506	29.47%	\$3,856,545,929	28.85%	
Large Cap Managers(T)	\$3,370,798,506	23.06%	\$3,017,767,717	22.58%	
Barrow, Hanley	120,846,720	0.83%	108,769,331	0.81%	
Lazard Asset Mgmt	301,058,758	2.06%	271,958,758	2.03%	
McKinley Capital	346,154,899	2.37%	311,202,760	2.33%	
Quantitative Mgmt Assoc		0.81%	105,728,804	0.79%	
	117,982,721				
RCM	379,445,196	2.60%	338,558,787	2.53%	
Relational Investors	283,650,633	1.94%	239,379,038	1.79%	
SSgA Russell 1000 Growth	451,166,553	3.09%	399,360,376	2.99%	
SSgA Russell 1000 Value	1,041,433,650	7.13%	945,804,913	7.08%	
SSgA Russell 200	329,059,376	2.25%	297,004,950	2.22%	
Small Cap Managers(T)	\$865,055,151	5.92%	\$785,942,686	5.88%	
Jennison Associates	128,790,535	0.88%	115,106,018	0.86%	
Lord, Abbett	143,535,532	0.98%	136,504,718	1.02%	
Luther King	98,649,468	0.67%	86,116,940	0.64%	
SSgA Russell 2000 Growth	87,470,857	0.60%	77,563,375	0.58%	
SSgA Russell 2000 Value	406,608,759	2.78%	370,651,635	2.77%	
Servertible Dende	¢72 177 050	0.400/	\$52 825 525	0.400/	
Convertible Bonds Advent Convertible Bond(T)	<b>\$72,177,850</b> 72,177,850	<b>0.49%</b> 0.49%	<b>\$52,835,525</b> 52,835,525	<b>0.40%</b> 0.40%	
Fixed-Income Pool(1)(P)	\$1,431,127,570	9.79%	\$1,654,965,738	12.38%	
Employees' Fixed-Income	939,853,438	6.43%	1,081,791,212	8.09%	
Teachers' Fixed-Income	457,227,793	3.13%	535,754,088	4.01%	
Judicial Fixed-Income	15,972,562	0.11%	19,341,351	0.14%	
Military Fixed-Income	18,073,778	0.12%	18,079,088	0.14%	
nternational Fixed-Income Pool(T)	\$343,405,379	2.35%	\$287,292,309	2.15%	
Mondrian	252,103,824	1.72%	199,964,997	1.50%	
Lazard Emerging Income					
Lazard Emerging income	91,301,555	0.62%	87,327,312	0.65%	
High Yield(T)	\$316,573,840	2.17%	\$328,415,848	2.46%	
MacKay Shields	177,204,197	1.21%	169,276,259	1.27%	
Rogge Global Partners	139,369,643	0.95%	159,139,589	1.19%	
nternational Equity Pool(T)	\$2,542,123,523	17.39%	\$2,036,514,720	15.24%	
Brandes Investment	838,118,159	5.73%	735,763,157	5.50%	
Capital Guardian	568,094,371	3.89%	494,014,424	3.70%	
Lazard Asset Mgmt	420,456,605	2.88%	283,776,726	2.12%	
McKinley Capital	330,857,923	2.26%	283,850,416	2.12%	
SSgA Int'l	278,641,431	1.91%	239,109,997	1.79%	
Schroder Investment Mgmt	105,955,034	0.72%	-	-	
Emerging Markets Pool(T)	\$925,683,802	6.33%	\$779,393,883	5.83%	
Capital Guardian	424,455,813	2.90%	361,343,012	2.70%	
Eaton Vance	210,908,811	1.44%	177,695,929	1.33%	
Lazard Emerging	290,319,178	1.99%	240,354,943	1.80%	
eal Assets (P)(prelim)	\$1,299,617,480	8.89%	\$1,258,712,205	9.42%	
Employees'	857,132,493	5.86%	822,922,055	6.16%	
Teachers'	427,846,934	2.93%	421,463,162	3.15%	
Judicial	14,638,053	0.10%	421,403,102 14,326,988	0.11%	
Drivete Fauity(D)	\$ <b>707</b> 377 010	E 200/	\$000 010 400	= 000/	
Private Equity(P)	<b>\$787,365,819</b>	<b>5.39%</b>	\$800,210,420 525,415,317	<b>5.99%</b>	
Employees'	517,014,491	3.54%	525,415,317	3.93%	
Teachers'	260,946,572	1.79%	265,520,330	1.99%	
Judicial	9,404,756	0.06%	9,274,772	0.07%	
Absolute Return(P)	\$425,600,953	2.91%	\$414,865,139	3.10%	
Employees'	279,501,915	1.91%	272,398,456	2.04%	
Teachers'	141,017,147	0.96%	137,658,187	1.03%	
Judicial	5,081,890	0.03%	4,808,496	0.04%	
		100.000/	\$13,366,714,194	100.000/	
Fotal All Plans(P)	\$14,615,968,760	100.00%	\$13,300,/14,194	100.00%	
Fotal All Plans(P) Fotal Plans	<u>\$14,615,968,760</u> \$14,615,968,760	100.00%	\$13,366,714,194	100.00%	

# Asset Distribution Across Investment Managers

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# **Investment Manager Asset Allocation**

The table below contrasts the distribution of assets across the Fund's investment managers as of September 30, 2010, with the distribution as of June 30, 2010.

# Asset Distribution Across Investment Managers

	<b>September 30, 2010</b>		June 30, 2010		
	Market Value	Percent	Market Value	Percent	
PERS	5,731,554,851	39.21%	5,392,235,780	40.34%	
TRS	2,846,499,484	19.48%	2,719,627,646	20.35%	
JRS	101,260,661	0.69%	95,230,260	0.71%	
Military Total Plan	32,070,694	0.22%	29,496,762	0.22%	
PERS Health Care	4,493,467,016	30.74%	3,842,034,756	28.74%	
TRS Health Care	1,392,802,933	9.53%	1,271,070,657	9.51%	
JRS Health Care	18,313,121	0.13%	17,018,334	0.13%	
Total All Plans	\$14,615,968,760	100.0%	\$13,366,714,194	100.0%	

(1) Includes Emerging Debt.(P) PERS, TRS, JRS and Military Pension only.(T) Total Pool.

The table below details the rates of return for the Sponsor's investment managers over various time periods ended September 30, 2010. Negative returns are shown in red, positive returns in black. Returns for one year or greater are annualized. The first set of returns for each asset class represents the composite returns for all the fund's accounts for that asset class.

			Last	Last
	Fiscal	Last	3	5
	YTD	Year	Years	Years
Domestic Equity Pool	11.21%	10.91%	(6.88%)	0.59%
Joinestic Equity Pool	11.21%	10.91%	(0.0070)	0.39%
Large Cap Managers	11.51%	10.41%	(7.26%)	0.43%
Barrow, Hanley	11.10%	12.12%	(6.24%)	-
Barrow, Hanley(net)	10.98%	11.61%	(6.76%)	-
Lazard Asset Mgmt.	10.70%	8.91%	(5.61%)	2.17%
Lazard Asset Mgmt(net)	10.62%	8.58%	(5.93%)	1.85%
McKinley Capital	11.23%	10.31%	(6.22%)	1.31%
McKinley Capital(net)	11.14%	9.93%	(6.60%)	0.94%
Quantitative Mgmt Assoc. Quantitative Mgmt(net)	11.59% 11.49%	10.44%	(7.16%)	-
RCM	12.08%	10.06% 8.61%	(7.55%) (4.60%)	2.54%
RCM(net)	12.08%	8.30%	(4.91%)	2.23%
Relational Investors(net)	16.28%	16.71%	(4.91%) (8.40%)	(1.55%)
SSgA Russell 1000 Growth	12.97%	12.85%	(4.23%)	(1.55%)
SSgA Russell 1000 Gr(net)	12.96%	12.81%	(4.27%)	
SSgA Russell 1000 Value	10.10%	9.03%	(9.04%)	
SSgA Russell 1000 Val(net)	10.09%	9.00%	(9.07%)	_
SSgA Russell 200	10.79%	8.43%	(7.70%)	_
SSgA Russell 200(net)	10.78%	8.39%	(7.74%)	_
Standard & Poor's 500 Index	11.29%	10.16%	(7.16%)	0.64%
	1112970	1011070	(//10/0)	0.0170
Small Cap Managers	10.06%	12.39%	(5.61%)	1.07%
Jennison Associates	11.89%	18.82%	(2.63%)	4.16%
Jennison Associates(net)	11.69%	18.05%	(3.39%)	3.41%
Lord, Abbett	5.15%	5.31%	(6.35%)	0.91%
Lord, Abbett(net)	4.97%	4.61%	(7.06%)	0.22%
Luther King	14.55%	18.74%	(4.72%)	2.00%
Luther King(net)	14.42%	18.19%	(5.26%)	1.46%
SSgA Russell 2000 Growth	12.77%	14.09%	(4.51%)	-
SSgA Russell 2000 Gr(net)	12.76%	14.04%	(4.56%)	-
SSgA Russell 2000 Value	9.69%	11.28%	(5.04%)	-
SSgA Russell 2000 Val(net)	9.68%	11.24%	(5.08%)	-
Russell 2000 Index	11.29%	13.35%	(4.29%)	1.60%
Convertible Bond	7.34%			
Advent Capital	7.34%	-	-	-
Advent Capital	7.15%	-	-	-
	7.1570			
nternational Equity Pool	15.19%	5.66%	(8.28%)	3.13%
Brandes Investment	13.91%	1.43%	(7.28%)	4.02%
Brandes Investment(net)	13.80%	1.02%	(7.70%)	3.59%
Capital Guardian	15.00%	6.67%	(8.09%)	2.92%
Capital Guardian(net)	14.89%	6.26%	(8.50%)	2.51%
Lazard Asset Intl	16.47%	6.89%	(4.63%)	4.56%
Lazard Asset Intl(net)	16.38%	6.56%	(4.96%)	4.24%
McKinley Capital	16.56%	11.74%	(12.99%)	1.18%
McKinley Capital(net)	16.43%	11.22%	(13.51%)	0.67%
SSgA Int'l	16.53%	8.65%	-	-
SSgA Int'l(net)	16.40%	8.11%	(10.070())	-
MSCI Europe Index	19.35%	2.63%	(10.37%)	2.34%
MSCI Pacific ex-Japan	22.11%	13.53%	(3.16%)	9.61%
MSCI EAFE Index MSCI ACWI ex-US IMI Index	16.48% 16.80%	3.27% 8.48%	(9.51%) (7.00%)	1.97% 4.55%
	10.0070	0.4070	(7.00%)	T.JJ/0
Emerging Markets Pool	18.78%	20.56%	0.16%	14.27%
Capital Guardian(net)	17.47%	19.55%	0.98%	15.73%
Lazard Emerging(net)	20.79%	23.42%	-	-
Eaton Vance(net) MSCI Emerging Mkts	18.69%	19.74%	-	-
	18.16%	20.54%	(1.20%)	13.08%

# **Returns for Periods Ended September 30, 2010**

The table below details the rates of return for the Sponsor's investment managers over various time periods ended September 30, 2010. Negative returns are shown in red, positive returns in black. Returns for one year or greater are annualized. The first set of returns for each asset class represents the composite returns for all the fund's accounts for that asset class.

	Fiscal	Last	Last 3	Last 5	
	YTD	Year	Years	Years	
Fotal Fixed-Income Pool	3.60%	9.34%	7.38%	6.27%	
US Treas Pool	2.24%	-	-	-	
BC Govt/Credit Bd	3.28%	8.73%	7.46%	6.15%	
BC Aggregate Index	2.48%	8.16%	7.42%	6.20%	
BC Introd Treas	2.33%	6.53%	6.81%	5.93%	
International Fixed-Income Pool	8.75%	8.80%	10.55%	8.44%	
Mondrian Investment Partners	10.55%	7.80%	11.43%	8.95%	
Mondrian Investment Futures	10.49%	7.58%	11.21%	8.74%	
Lazard Emerging Income	4.55%	11.23%		-	
Lazard Emerging Income(net)	4.49%	10.98%	-	-	
				=	
Citi Non-US Gvt Bd Idx	10.45%	4.47%	8.44%	7.33%	
High Yield	5.65%	14.71%	6.83%	7.10%	
MacKay Shields	4.68%	14.99%	7.75%	7.74%	
MacKay Shields(net)	4.57%	14.54%	7.30%	7.29%	
Rogge Global Partners	6.80%	14.55%	5.93%	6.48%	
Rogge Global Partners(net)	6.68%	14.07%	5.44%	5.99%	
High Yield Target(1)	6.70%	18.51%	8.60%	8.28%	
Real Assets(prelim)	1.78%	4.51%	-	-	
Real Assets Target	3.01%	5.54%	-	-	
Real Estate Pool(prelim)	3.21%	4.57%	(13.37%)	(1.62%)	
Real Estate Target	4.76%	8.22%	(4.02%)	4.00%	
UBS Agrivest(3)	0.74%	3.67%	8.17%	9.35%	
UBS Agrivest Comp (w Water)	0.73%	4.00%	8.39%	9.48%	
Hancock Agricultural(3)	1.11%	7.77%	10.19%	9.19%	
Hancock Composite (w Water)	1.11%	8.47%	10.01%	9.08%	
TCW Energy(2)	(6.98%)	(4.49%)	(1.31%)	5.86%	
Timberland	(0.58%)	(6.78%)	-	-	
Hancock Timber	2.06%	0.05%	_	_	
NCREIF Timberland Index	0.99%	(2.89%)	5.09%	9.85%	
Drivota Fanity	0.81%	15.88%	(2.33%)	8.90%	
Private Equity					
Employees' Teachers'	0.81% 0.81%	15.88% 15.88%	(2.33%) (2.33%)	8.90% 8.90%	
Absolute Return	0.27%	4.30%	(1.74%)	2.23%	
Employees'	0.27%	4.31%	(1.74%)	2.23%	
Teachers'	0.27%	4.30%	(1.74%)	2.24%	
Fotal All Plans	7.69%	9.51%	(3.39%)	3.39%	
Employees' Total Plan	7.70%	9.61%	(3.48%)	3.34%	
Teachers' Total Plan	7.76%	9.73%	(3.45%)	3.36%	
PERS & TRS Policy Target	9.32%	9.06%	(2.04%)	3.65%	
Judicial Total Plan	7.76%	9.69%	(3.62%)	3.03%	
PERS Health PLan	7.63%	9.24%	-	-	
	7.70%	9.42%	-	_	
TRS Health Plan					
TRS Health Plan JRS Health Plan	7.74%	9.43%	-	-	

#### Returns for Periods Ended September 30, 2010

\* Current Quarter Target = 29.0% Russell 3000 Index, 23.0% MSCI ACWI ex-US Index, 15.0% BC Intmdt Treas, 9.6% NCREIF Total Index, 5.0% 3-month Treasury Bill+5.0%, 3.2% BC US TIPS Index, 2.3% MSCI EAFE Index, 2.3% S&P 500 Index, 2.3% Russell 2000 Index, 2.0% Citi WGBI Non-US Idx, 2.0% Hi Yld II Index, 1.6% NCREIF Farmland Index, 1.6% NCREIF Timberland Index and 1.0% 3-month Treasury Bill.

(2) Return data supplied by State Street.

(3) Returns supplied by manager and may vary from State Street returns due to timing variations. Alaska Retirement Management Board (A

<sup>(1)</sup> ML Hi Yield Master II from 12/31/06; ML Hi Yield Cash Pay prior to 12/31/06.

The table below details the rates of return for the Sponsor's investment managers over various time periods ended September 30, 2010. Negative returns are shown in red, positive returns in black. Returns for one year or greater are annualized. The first set of returns for each asset class represents the composite returns for all the fund's accounts for that asset class.

	Last	Last	Last
	12ast 7	10	19
	Years	Years	Years
Domestic Equity Pool	3.70%	(0.26%)	7.32%
Large Cap Managers	3.51%	(0.20%)	7.37%
Lazard Asset Mgmt.	5.06%	2.52%	-
Lazard Asset Mgmt(net)	4.73%	2.19%	-
McKinley Capital	4.13%	(3.37%)	-
McKinley Capital(net)	3.75%	(3.75%)	_
RCM	4.56%	(1.36%)	_
RCM(net)	4.25%	(1.67%)	-
Standard & Poor's 500 Index	4.23%		- 8.00%
Standard & Poor \$ 500 Index	4.04%	(0.43%)	8.00%
Small Cap Managers	4.15%	(0.42%)	-
Russell 2000 Index	6.13%	4.00%	8.69%
Fixed-Income Pool	5.52%	6.55%	7.04%
BC Govt/Credit	5.23%	6.52%	6.86%
BC Aggregate	5.35%	6.41%	6.78%
International Fixed-Income Pool	7.94%	10.44%	-
Mondrian Investment Partners	8.31%	10.70%	-
Mondrian Inv Partners(net)	8.11%	10.51%	-
Citi Non-US Gvt Bd Idx	6.84%	8.01%	7.29%
International Equity Pool	8.65%	4.03%	7.28%
Brandes Investment	10.10%	6.66%	-
Brandes Investment(net)	9.68%	6.23%	-
Capital Guardian	7.99%	-	_
Capital Guardian(net)	7.57%	-	_
Lazard Asset Intl	8.85%	3.56%	_
Lazard Asset Intl Lazard Asset Intl(net)	8.52%	3.23%	_
MSCI Europe Index	8.35%	3.01%	7.93%
MSCI Europe Index MSCI Pacific ex-Japan	8.33% 14.95%		9.08%
		10.98%	
MSCI EAFE Index	7.81%	2.56%	5.26%
Emerging Markets Pool	19.82%	13.62%	-
Capital Guardian(net)	20.18%	13.29%	-
MSCI Emerging Mkts	19.32%	13.77%	10.45%
Citigroup Non-US Govt	6.84%	8.01%	7.29%
Real Estate(prelim)	2.81%	4.47%	5.15%
Real Estate Target	7.27%	7.72%	7.27%
Total All Plans	5.89%	3.72%	7.39%
Employees' Total Plan	5.85%	3.69%	7.37%
Teachers' Total Plan	5.88%	3.70%	7.42%
PERS & TRS Policy Target	6.11%	4.09%	7.44%
Judicial Total Plan	5.54%	4.04%	6.93%
Military Total Plan	5.83%	4.53%	6.99%

\* Current Quarter Target = 29.0% Russell 3000 Index, 23.0% MSCI ACWI ex-US Index, 15.0% BC Intmdt Treas, 9.6% NCREIF Total Index, 5.0% 3-month Treasury Bill+5.0%, 3.2% BC US TIPS Index, 2.3% MSCI EAFE Index, 2.3% S&P 500 Index, 2.3% Russell 2000 Index, 2.0% Citi WGBI Non-US Idx, 2.0% Hi Yld II Index, 1.6% NCREIF Farmland Index, 1.6% NCREIF Timberland Index and 1.0% 3-month Treasury Bill. Alaska Retirement Management Board

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The table below details the rates of return for the Sponsor's investment managers over various time periods ended September 30, 2010. Negative returns are shown in red, positive returns in black. Returns for one year or greater are annualized. The first set of returns for each asset class represents the composite returns for all the fund's accounts for that asset class.

	6/2010- 9/2010	FY 2010	FY 2009	FY 2008	FY 2007
Domestic Equity Pool	11.21%	15.46%	(26.74%)	(13.53%)	20.11%
Large Cap Managers	11.51%	13.80%	(26.29%)	(13.48%)	20.88%
Barrow, Hanley	11.10%	17.08%	(23.43%)	(18.85%)	-
Barrow, Hanley(net)	10.98%	16.57%	(23.95%)	(19.35%)	-
Lazard Asset Mgmt.	10.70%	12.73%	(21.99%)	(12.77%)	24.63%
Lazard Asset Mgmt(net)	10.62%	12.41%	(22.31%)	(13.10%)	24.31%
McKinley Capital	11.23%	14.27%	(30.58%)	(1.04%)	16.47%
McKinley Capital(net)	11.14%	13.89%	(30.97%)	(1.40%)	16.09%
Quantitative Mgmt Assoc.	11.59%	16.51%	(25.93%)	(18.02%)	-
Quantitative Mgmt(net)	11.49%	16.12%	(26.33%)	(18.40%)	-
RCM	12.08%	9.14%	(19.81%)	(5.99%)	17.90%
RCM(net)	12.00%	8.82%	(20.14%)	(6.29%)	17.59%
Relational Investors(net)	16.28%	16.06%	(26.56%)	(27.40%)	32.37%
SSgA Russell 1000 Growth	12.97%	13.77%	(24.41%)	(5.79%)	-
SSgA Russell 1000 Gr(net)	12.96%	13.73%	(24.45%)	(5.82%)	_
SSgA Russell 1000 Value	10.10%	17.10%	(28.40%)	(18.68%)	_
SSgA Russell 1000 Value	10.10%	17.06%	(28.44%)	(18.71%)	
SSgA Russell 200	10.79%	11.39%	(24.90%)	(12.22%)	-
SSgA Russell 200(net)	10.79%	11.35%	(24.93%)	(12.22%)	-
Standard & Poor's 500 Index	11.29%	14.43%	(24.93%) (26.21%)	(12.20%)	20.59%
Standard & Poor \$ 500 mdex	11.29%	14.45%	(20.21%)	(15.12%)	20.39%
Small Cap Managers	10.06%	21.11%	(28.98%)	(13.03%)	16.86%
Jennison Associates	11.89%	26.29%	(26.43%)	(11.12%)	21.89%
Jennison Associates(net)	11.69%	25.52%	(27.21%)	(11.84%)	21.17%
Lord, Abbett	5.15%	15.11%	(29.62%)	(4.37%)	21.39%
Lord, Abbett(net)	4.97%	14.41%	(30.33%)	(5.05%)	20.70%
Luther King	14.55%	20.95%	(26.31%)	(16.44%)	15.09%
Luther King(net)	14.42%	20.40%	(26.85%)	(16.97%)	14.56%
SSgA Russell 2000 Growth	12.77%	13.88%	(24.23%)	- 1	-
SSgA Russell 2000 Gr(net)	12.76%	13.83%	(24.28%)	-	-
SSgA Russell 2000 Value	9.69%	23.98%	(24.43%)	(21.79%)	-
SSgA Russell 2000 Val(net)	9.68%	23.94%	(24.48%)	(21.84%)	-
Russell 2000 Index	11.29%	21.48%	(25.01%)	(16.19%)	16.43%
nternational Equity Pool	15.19%	8.51%	(30.37%)	(9.36%)	27.85%
Brandes Investment	13.91%	6.05%	(23.76%)	(13.07%)	29.88%
Brandes Investment(net)	13.80%	5.64%	(24.19%)	(13.50%)	29.45%
Capital Guardian	15.00%	10.44%	(31.73%)	(7.66%)	25.60%
Capital Guardian(net)	14.89%	10.03%	(32.16%)	(8.07%)	25.19%
Lazard Asset Intl	16.47%	8.84%	(23.86%)	(8.53%)	23.17%
Lazard Asset Intl(net)	16.38%	8.51%	(23.80%)	No. A start of the	22.85%
McKinley Capital	16.56%	8.31% 9.26%	(42.91%)	(8.85%) (5.35%)	22.83% 31.53%
McKinley Capital(net)	16.43%	8.73%	(43.45%)	(5.85%)	31.02%
MSCI Europe Index		8.73% 5.70%			
	19.35%		(34.53%)	(11.34%)	32.44%
MSCI Pacific ex-Japan MSCI EAFE Index	22.11% 16.48%	18.43% 5.92%	(27.66%) (31.35%)	(1.83%) (10.61%)	42.56% 27.00%
Emerging Markets Pool	18.78%	22.84%	(24.96%)	3.96%	48.02%
Capital Guardian(net)	17.47%	22.83%	(23.08%)	3.78%	52.08%
Lazard Emerging(net)	20.79%	25.16%	(27.63%)	-	-
Eaton Vance(net)	18.69%	23.02%	(29.47%)	-	
MSCI Emerging Mkts	18.16%	23.48%	(27.82%)	4.89%	45.45%

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The table below details the rates of return for the Sponsor's investment managers over various time periods ended September 30, 2010. Negative returns are shown in red, positive returns in black. Returns for one year or greater are annualized. The first set of returns for each asset class represents the composite returns for all the fund's accounts for that asset class.

	6/2010- 9/2010	FY 2010	FY 2009	FY 2008	FY 2007
T-4-1 Fine J Income					
Total Fixed-Income	3.60%	<b>11.24%</b> 9.65%	3.38%	<b>6.55%</b>	6.19%
BC Govt/Credit Bd	3.28% 2.48%	9.65%	5.26% 6.05%	7.24% 7.12%	6.00% 6.12%
BC Aggregate Index	2.48%	9.50%	0.05%	7.12%	0.12%
International Fixed-Income Pool	8.75%	7.54%	4.88%	18.97%	1.97%
Mondrian Investment Partners	10.55%	5.76%	7.43%	18.97%	1.97%
Mondrian Inv Partners(net)	10.49%	5.53%	7.21%	18.76%	1.75%
Lazard Emerging Income	4.55%	11.87%	-	-	-
Lazard Emerging Income(net)	4.49%	11.62%	-	-	-
Citi Non-US Gvt Bd Idx	10.45%	1.52%	3.53%	18.72%	2.19%
High Yield	5.65%	19.67%	(2.40%)	(1.00%)	10.83%
MacKay Shields	4.68%	21.65%	(1.72%)	0.56%	10.54%
MacKay Shields(net)	4.68%	21.03%	(1.72%) (2.17%)	0.36%	10.34%
Rogge Global Partners	4.57% 6.80%	17.63%	(2.17%) (3.10%)	(2.53%)	10.09%
Rogge Global Partners(net)					
High Yield Target(1)	6.68%	17.14%	(3.59%)	(3.02%)	10.63%
High Yield Target(1)	6.70%	27.53%	(3.53%)	(2.11%)	11.69%
Real Assets(prelim)	1.78%	(0.09%)	(21.62%)		-
Real Assets Target	3.01%	1.17%	(10.82%)	-	-
Real Assets Target	5.0170	1.1770	(10.0270)	-	-
Real Estate Pool(prelim)	3.21%	(3.81%)	(35.94%)	5.11%	21.18%
Real Estate Target	4.76%	3.65%	(21.13%)	6.82%	16.90%
UBS Agrivest(3)	0.74%	3.67%	4.62%	17.05%	13.25%
UBS Agrivest Comp (w Water)	0.73%	4.01%	4.90%	17.04%	13.25%
Hancock Agricultural(3)	1.11%	7.79%	9.25%	13.57%	10.68%
Hancock Composite (w Water)	1.11%	8.50%	7.99%	13.58%	10.68%
TCW Energy(2)	(6.98%)	0.74%	(25.02%)	43.14%	19.63%
Timberland	(0.58%)	(3.01%)	_	-	-
Hancock Timber	2.06%	(2.74%)	-	-	-
Private Equity	0.81%	18.87%	(23.67%)	13.19%	28.74%
Employees'	0.81%	18.86%	(23.67%)	13.19%	28.74%
Teachers'	0.81%	18.87%	(23.67%)	13.19%	28.74%
Absolute Return	0.27%	6.59%	(12.52%)	1.52%	10.00%
Employees'	0.27%	6.59%	(12.51%)	1.52%	10.00%
Teachers'	0.27%	6.60%	(12.52%)	1.53%	10.00%
Total All Plans	7.69%	11.62%	(20.49%)	(3.13%)	18.93%
Employees' Total Plan	7.70%	11.39%	(20.53%)	(3.13%)	18.93%
Teachers' Total Plan	7.76%	11.58%	(20.67%)	(3.12%)	18.97%
PERS & TRS Policy Target	9.32%	11.11%	(17.00%)	(4.73%)	16.99%
Judicial Total Plan	7.76%	11.92%	(20.51%)	(4.69%)	18.48%
Military Total Plan	6.55%	11.50%	(8.31%)	(1.18%)	13.30%

\* Current Quarter Target = 29.0% Russell 3000 Index, 23.0% MSCI ACWI ex-US Index, 15.0% BC Intmdt Treas, 9.6% NCREIF Total Index, 5.0% 3-month Treasury Bill+5.0%, 3.2% BC US TIPS Index, 2.3% MSCI EAFE Index, 2.3% S&P 500 Index, 2.3% Russell 2000 Index, 2.0% Citi WGBI Non-US Idx, 2.0% Hi Yld II Index, 1.6% NCREIF Farmland Index, 1.6% NCREIF Timberland Index and 1.0% 3-month Treasury Bill.

(1) ML Hi Yield Master II from 12/31/06; ML Hi Yield Cash Pay prior to 12/31/06.

(2) Return data supplied by State Street.

(3) Returns supplied by manager and may vary from State Street returns due to timing variations. Alaska Retirement Management Board (A

The table below details the rates of return for the Sponsor's investment managers over various time periods ended June 30, 2006. Negative returns are shown in red, positive returns in black. Returns for one year or greater are annualized. The first set of returns for each asset class represents the composite returns for all the fund's accounts for that asset class.

	FY 2006	FY 2005	FY 2004	FY 2003	FY 2002
Domestic Equity Pool	9.23%	4.48%	20.06%	(0.97%)	(16.85%)
Large Cap Managers	7.86%	4.96%	17.97%	0.35%	(16.82%)
Capital Guardian	11.35%	5.28%	21.95%	7.41%	(19.40%)
Capital Guardian(net)	11.11%	5.05%	21.71%	7.16%	(19.64%)
Lazard Asset Mgmt.	8.70%	6.45%	17.78%	(0.29%)	(13.53%)
Lazard Asset Mgmt(net)	8.37%	6.12%	17.45%	(0.65%)	(13.87%)
McKinley Capital	11.29%	0.85%	21.88%	(2.73%)	(26.01%)
McKinley Capital(net)	10.92%	0.47%	21.49%	(3.13%)	(26.41%)
RCM	8.33%	4.71%	12.17%	(1.49%)	(19.42%)
RCM(net)	8.03%	4.40%	11.87%	(1.79%)	(19.72%)
Tukman Capital	4.58%	(4.56%)	14.96%	(2.56%)	(5.16%)
Tukman Capital(net)	4.04%	(5.08%)	14.43%	(3.09%)	(5.69%)
Standard & Poor's 500 Index	8.63%	6.32%	19.11%	0.25%	(17.99%)
Small Cap Managers	15.07%	2.00%	28.29%	(5.41%)	(16.96%)
Jennison Associates	15.99%	-	-	-	-
Jennison Associates(net)	15.26%	-	-	-	-
Lord, Abbett	11.30%	-	-	-	-
Lord, Abbett(net)	10.61%	-	-	-	-
Luther King	21.79%	-	-	-	-
Luther King(net)	21.25%	-	-	-	-
Trust Co. of the West	12.98%	(3.22%)	43.89%	(4.82%)	-
Trust Co. of the West(net)	12.21%	(3.98%)	43.12%	(5.60%)	-
Turner Inv. Partners	16.87%	11.62%	-	-	-
Turner Inv. Partners(net)	16.29%	11.02%	-	-	-
Russell 2000 Index	14.58%	9.45%	33.37%	(1.64%)	(8.60%)
Fixed-Income Pool	0.06%	7.09%	0.61%	10.69%	8.17%
BC Govt/Credit	(1.52%)	7.26%	(0.72%)	13.15%	8.24%
BC Aggregate	(0.81%)	6.80%	0.32%	10.40%	8.63%
International Fixed-Income Pool	(0.26%)	9.84%	7.52%	24.48%	22.56%
Mondrian Inv Partners	(0.26%)	9.84%	7.52%	24.48%	22.56%
Mondrian Inv Partners(net)	(0.45%)	9.67%	7.34%	24.29%	22.36%
Citi Non-US Gvt Bd Idx	(0.01%)	7.75%	7.60%	17.90%	15.73%
International Equity Pool	28.28%	13.37%	31.67%	(5.83%)	(8.54%)
Brandes Investment	27.95%	14.43%	44.21%	(4.37%)	(5.86%)
Brandes Investment(net)	27.52%	14.02%	43.79%	(4.82%)	(6.30%)
Capital Guardian	29.02%	11.52%	29.68%	(6.93%)	(5.81%)
Capital Guardian(net)	28.60%	11.09%	29.25%	(7.37%)	(6.24%)
Lazard Asset Intl	26.44%	12.72%	22.11%	(3.39%)	(10.91%)
Lazard Asset Intl(net)	26.11%	12.39%	21.79%	(3.75%)	(11.25%)
McKinley Capital	34.79%	-	-	-	-
McKinley Capital(net)	34.26%	-	-	-	-
SSgA Intl	28.40%	-	-	-	-
SSgA Intl(net)	27.87%	-	-	-	-
MSCI Europe Index	24.75%	16.87%	28.87%	(5.22%)	(7.71%)
MSCI Pacific ex-Japan	18.05%	33.58%	27.37%	6.58%	(1.14%)
MSCI EAFE Index	26.56%	13.65%	32.37%	(6.46%)	(9.49%)
Emerging Markets Pool	34.49%	35.19%	33.07%	6.11%	(3.20%)
Capital Guardian(net)	37.87%	34.34%	27.88%	7.14%	(5.65%)
MSCI Emerging Mkts	35.91%	34.89%	33.51%	6.96%	1.31%
Citigroup Non-US Govt	(0.01%)	7.75%	7.60%	17.90%	15.73%

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The table below details the rates of return for the Sponsor's investment managers over various time periods ended June 30, 2006. Negative returns are shown in red, positive returns in black. Returns for one year or greater are annualized. The first set of returns for each asset class represents the composite returns for all the fund's accounts for that asset class.

	FY 2006	FY 2005	FY 2004	FY 2003	FY 2002
Real Estate Pool	18.58%	17.42%	11.55%	8.98%	5.40%
Real Estate Target	18.67%	18.02%	10.83%	7.64%	5.50%
Private Equity	25.89%	18.08%	21.42%	(14.75%)	(17.05%)
Employees'	25.89%	18.07%	21.42%	(14.75%)	(17.06%)
Teachers'	25.89%	18.10%	21.42%	(14.75%)	(17.03%)
Absolute Return	10.51%	-	-	-	-
Employees'	10.51%	-	-	-	-
Teachers'	10.50%	-	-	-	-
High Yield	5.55%	-	-	-	-
Rogge Global Partners	5.68%	-	-	-	-
Rogge Global Partners(net)	5.18%	-	-	-	-
MacKay Shields	5.42%	-	-	-	-
MacKay Shields(net)	4.97%	-	-	-	-
Other	8.56%	5.52%	-	-	-
Employees'	8.56%	5.52%	-	-	-
Teachers'	8.54%	5.51%	-	-	-
Total All Plans	11.75%	8.96%	15.08%	3.68%	(5.47%)
Employees' Total Plan	11.74%	8.95%	15.08%	3.67%	(5.48%)
Teachers' Total Plan	11.78%	9.01%	15.09%	3.68%	(5.49%)
PERS & TRS Policy Target	10.38%	9.28%	15.34%	4.24%	(4.27%)
Judicial Total Plan	11.37%	8.49%	15.21%	3.59%	(2.75%)
Military Total Plan	6.25%	7.00%	9.36%	6.15%	(2.16%)

\* Current Quarter Target = 30.0% S&P 500 Index, 24.0% BC Aggregate Index, 15.0% MSCI EAFE Index, 8.1% NCREIF Total Index, 6.0% Russell 2000 Index, 3.0% CPI-W+5.0%, 3.0% Libor-1 Month+4.0%, 2.0% MSCI EAFE Index, 2.0% S&P 500 Index, 2.0% ML Hi Yld Cash Pay Index, 2.0% Russell 2000 Index, 2.0% Citi WGBI Non-US Idx and 0.9% NAREIT Equity Index. Alaska Retirement Management Board

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The table below details the rates of return for the Sponsor's investment managers over various time periods ended June 30, 2009. Negative returns are shown in red, positive returns in black. Returns for one year or greater are annualized. The first set of returns for each asset class represents the composite returns for all the fund's accounts for that asset class.

<b>Returns for Periods Ended June 30, 2009</b>						
	Last Quarter	Last Year	Last 3 Years	Last 5 Years	Last 8 Years	
Total Fund	8.84%	(20.36%)	(2.84%)	2.24%	2.93%	
Total Fund(net)	8.73%	(20.72%)	(3.16%)	1.92%	2.63%	
PERS	8.63%	(20.53%)	(2.90%)	2.19%	2.90%	
PERS(net)	8.52%	(20.92%)	(3.24%)	1.87%	2.59%	
TRS	8.67%	(20.67%)	(2.94%)	2.19%	2.89%	
TRS(Net)	8.56%	(21.01%)	(3.26%)	1.87%	2.60%	
PERS Health	10.79%	(17.61%)	-	-	-	
PERS Health(net)	10.68%	(17.98%)	-	-	-	
TRS Health	11.15%	(17.45%)	-	-	-	
TRS Health(net)	11.04%	(17.80%)	-	-	-	

Net return for PERS, TRS and Total Fund derived from gross expenses minus securities lending income supplied by Revenue. Total Fund net includes estimated gross expenses for Judicial and Military. Alaska Retirement Management Board

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The table below details the rates of return for the Sponsor's investment managers over various time periods ended June 30, 2009. Negative returns are shown in red, positive returns in black. Returns for one year or greater are annualized. The first set of returns for each asset class represents the composite returns for all the fund's accounts for that asset class.

<b>Returns for Periods Ended June 30, 2009</b>					
	Last 10 Years	Last 17-3/4 Years			
Total Fund	2.77%	6.83%			
<b>Total Fund(net)</b> PERS(net) TRS(Net)	<b>2.47%</b> 2.44% 2.44%	<b>6.53%</b> 6.51% 6.54%			

Net return for PERS, TRS and Total Fund derived from gross expenses minus securities lending income supplied by Revenue. Total Fund net includes estimated gross expenses for Judicial and Military. Alaska Retirement Management Board

The table below details the rates of return for the Sponsor's investment managers over various time periods ended June 30, 2009. Negative returns are shown in red, positive returns in black. Returns for one year or greater are annualized. The first set of returns for each asset class represents the composite returns for all the fund's accounts for that asset class.

	FY 2009	FY 2008	FY 2007	FY 2006	FY 2005
Total Fund	(20.36%)	(3.15%)	18.93%	11.75%	8.96%
Total Fund(net)	(20.72%)	(3.41%)	18.59%	11.44%	8.68%
PERS	(20.53%)	(3.13%)	18.93%	11.74%	8.95%
PERS(net)	(20.92%)	(3.40%)	18.59%	11.43%	8.67%
TRS	(20.67%)	(3.12%)	18.97%	11.78%	9.01%
TRS(Net)	(21.01%)	(3.38%)	18.63%	11.47%	8.73%
PERS Health	(17.61%)	-	-	-	-
PERS Health(net)	(17.98%)	-	-	-	-
TRS Health	(17.45%)	-	-	-	-
TRS Health(net)	(17.80%)	-	-	-	-

The table below details the rates of return for the Sponsor's investment managers over various time periods ended June 30, 2004. Negative returns are shown in red, positive returns in black. Returns for one year or greater are annualized. The first set of returns for each asset class represents the composite returns for all the fund's accounts for that asset class.

	FY 2004	FY 2003	FY 2002	FY 2001	FY 2000
Total Fund	15.08%	3.68%	(5.47%)	(5.37%)	10.19%
Total Fund(net)	14.76%	3.38%	(5.70%)	(5.63%)	9.89%
PERS	15.08%	3.67%	(5.48%)	(5.37%)	10.16%
PERS(net)	14.76%	3.38%	(5.72%)	(5.63%)	9.86%
TRS	15.09%	3.68%	(5.49%)	(5.44%)	10.25%
TRS(Net)	14.78%	3.39%	(5.72%)	(5.70%)	9.96%

Net return for PERS, TRS and Total Fund derived from gross expenses minus securities lending income supplied by Revenue. Total Fund net includes estimated gross expenses for Judicial and Military. Alaska Retirement Management Board

Domestic Equity

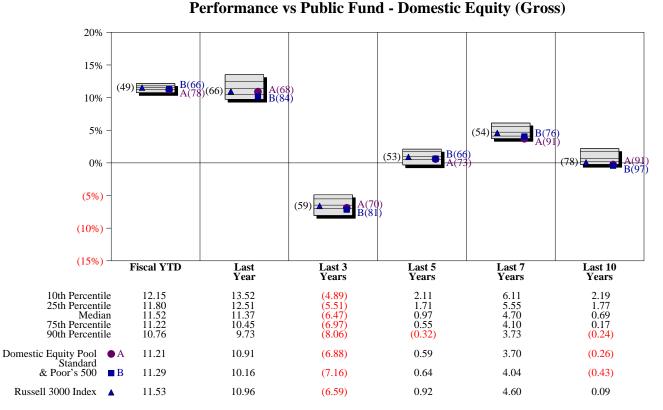
# TOTAL DOMESTIC EQUITY POOL PERIOD ENDED SEPTEMBER 30, 2010

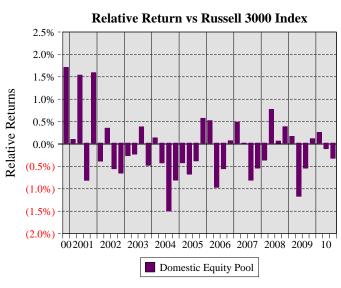
#### **Investment Philosophy**

The State of Alaska Total Equity Pool is diversified across large cap value, large cap growth, core, small cap value, and small cap growth equity styles so as to gain broad market exposure.

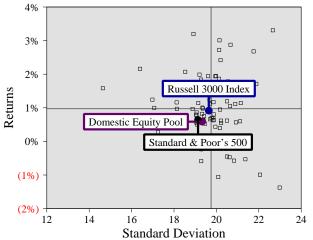
#### **Quarterly Summary and Highlights**

- Domestic Equity Pool's portfolio posted a 11.21% return for the quarter placing it in the 78 percentile of the Public Fund Domestic Equity group for the quarter and in the 68 percentile for the last year.
- Domestic Equity Pool's portfolio underperformed the Russell 3000 Index by 0.32% for the quarter and underperformed the Russell 3000 Index for the year by 0.06%.





#### Public Fund - Domestic Equity (Gross) Annualized Five Year Risk vs Return

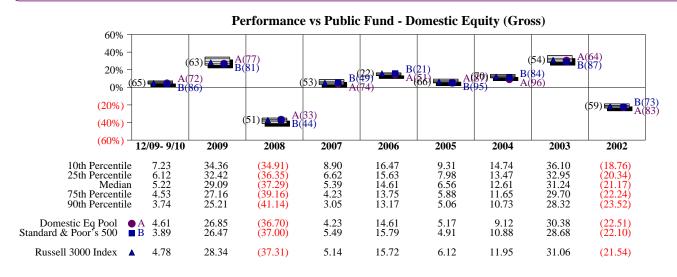


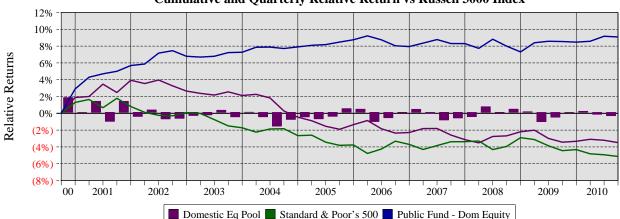
Alaska Retirement Management Board

# DOMESTIC EQUITY POOL RETURN ANALYSIS SUMMARY

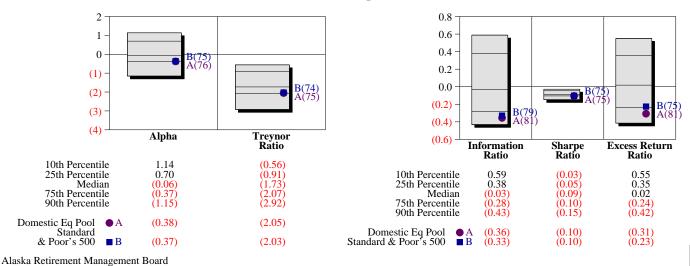
#### **Return Analysis**

The graphs below analyze the manager's return on both a risk-adjusted and unadjusted basis. The first chart illustrates the manager's ranking over different periods versus the appropriate style group. The second chart shows the historical quarterly and cumulative manager returns versus the appropriate market benchmark. The last two charts illustrate the manager's ranking relative to their style using various risk-adjusted return measures.







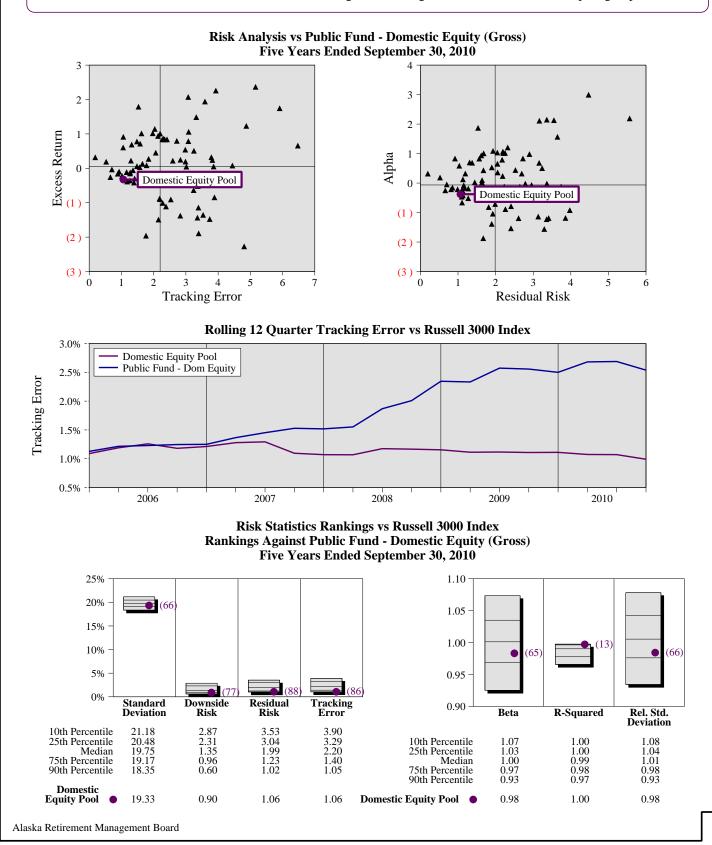


Cumulative and Quarterly Relative Return vs Russell 3000 Index

## DOMESTIC EQUITY POOL RISK ANALYSIS SUMMARY

#### **Risk Analysis**

The graphs below analyze the risk or variation of a manager's return pattern. The first scatter chart illustrates the relationship, called Excess Return Ratio, between excess return and tracking error relative to the benchmark. The second scatter chart displays the relationship, sometimes called Information Ratio, between alpha (market-risk or "beta" adjusted return) and residual risk (non-market or "unsystematic" risk). The third chart shows tracking error patterns versus the benchmark over time. The last two charts show the ranking of the manager's risk statistics versus the peer group.

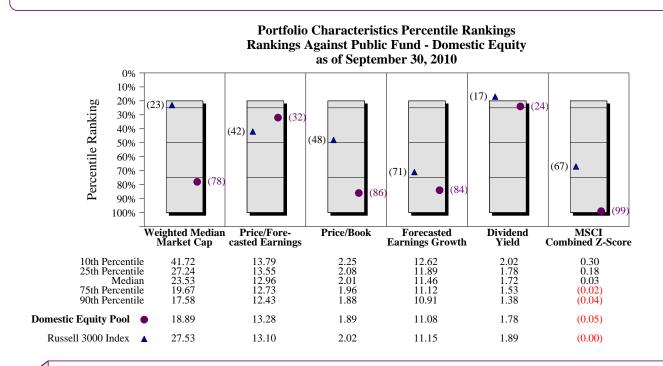


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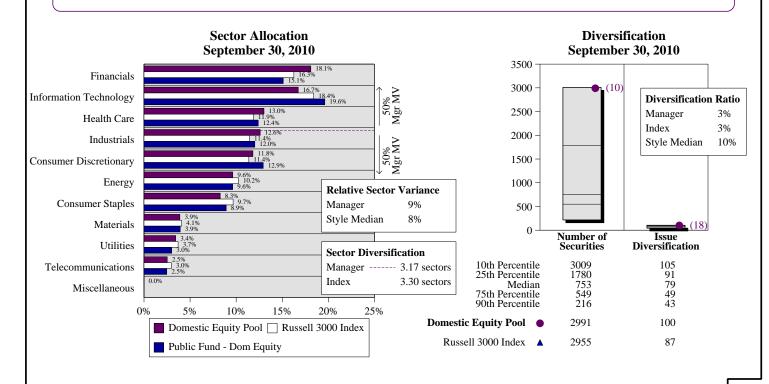
## DOMESTIC EQUITY POOL EQUITY CHARACTERISTICS ANALYSIS SUMMARY

# **Portfolio Characteristics**

This graph compares the manager's portfolio characteristics with the range of characteristics for the portfolios which make up the manager's style group. This analysis illustrates whether the manager's current holdings are consistent with other managers employing the same style.



# Sector Weights



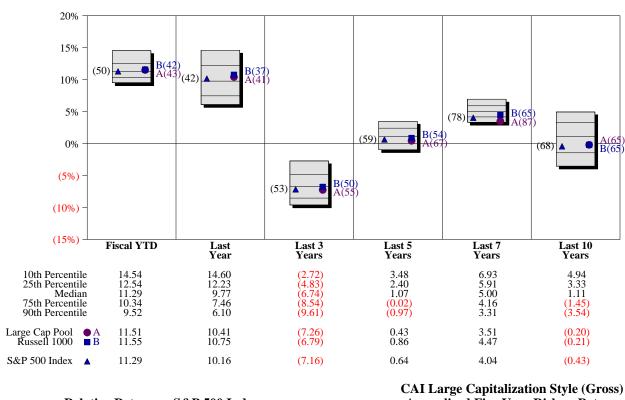
# LARGE CAP EQUITY POOL **PERIOD ENDED SEPTEMBER 30, 2010**

#### **Investment Philosophy**

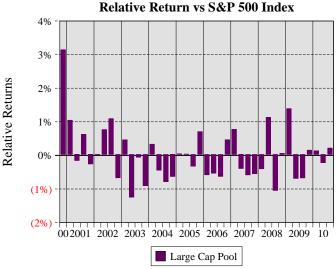
The State of Alaska Large Capitalization Equity Pool is diversified across large cap value, large cap growth, and core investment styles. By diversifying styles, Alaska has reduced the risk associated with style bias and is better diversified across styles as they cycle in and out of favor.

#### **Quarterly Summary and Highlights**

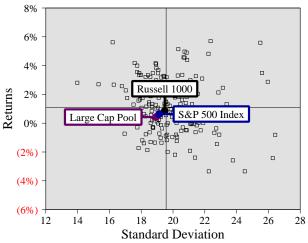
- Large Cap Pool's portfolio posted a 11.51% return for the quarter placing it in the 43 percentile of the CAI Large Capitalization Style group for the quarter and in the 41 percentile for the last year.
- Large Cap Pool's portfolio outperformed the S&P 500 Index by 0.22% for the quarter and outperformed the S&P 500 Index for the year by 0.25%.



#### Performance vs CAI Large Capitalization Style (Gross)



# **Annualized Five Year Risk vs Return**

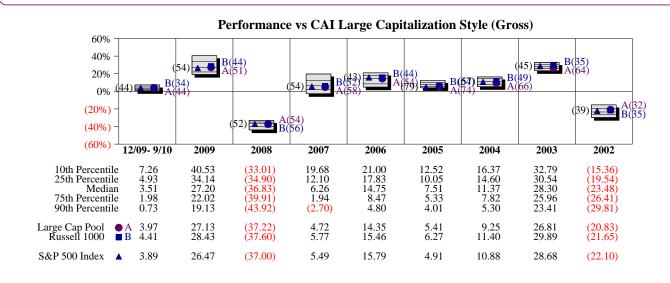


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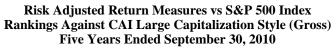
# LARGE CAP POOL RETURN ANALYSIS SUMMARY

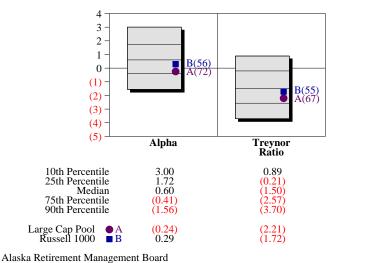
#### **Return Analysis**

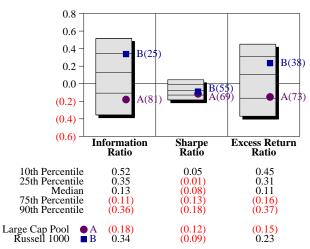
The graphs below analyze the manager's return on both a risk-adjusted and unadjusted basis. The first chart illustrates the manager's ranking over different periods versus the appropriate style group. The second chart shows the historical quarterly and cumulative manager returns versus the appropriate market benchmark. The last two charts illustrate the manager's ranking relative to their style using various risk-adjusted return measures.







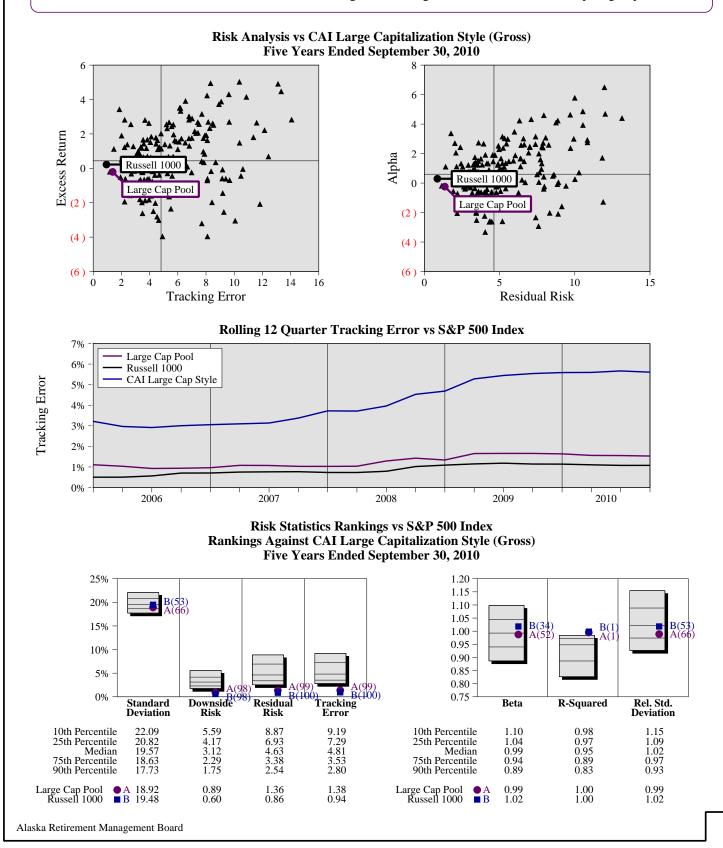




# LARGE CAP POOL RISK ANALYSIS SUMMARY

#### **Risk Analysis**

The graphs below analyze the risk or variation of a manager's return pattern. The first scatter chart illustrates the relationship, called Excess Return Ratio, between excess return and tracking error relative to the benchmark. The second scatter chart displays the relationship, sometimes called Information Ratio, between alpha (market-risk or "beta" adjusted return) and residual risk (non-market or "unsystematic" risk). The third chart shows tracking error patterns versus the benchmark over time. The last two charts show the ranking of the manager's risk statistics versus the peer group.

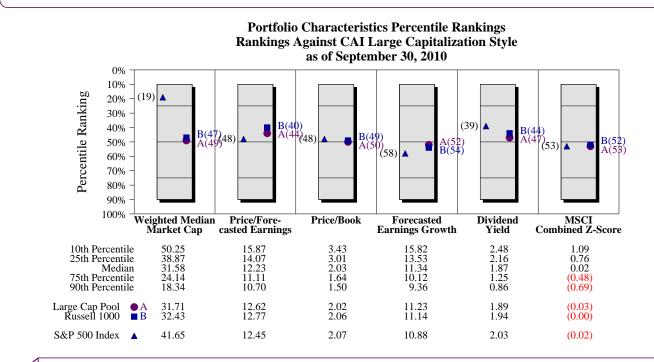


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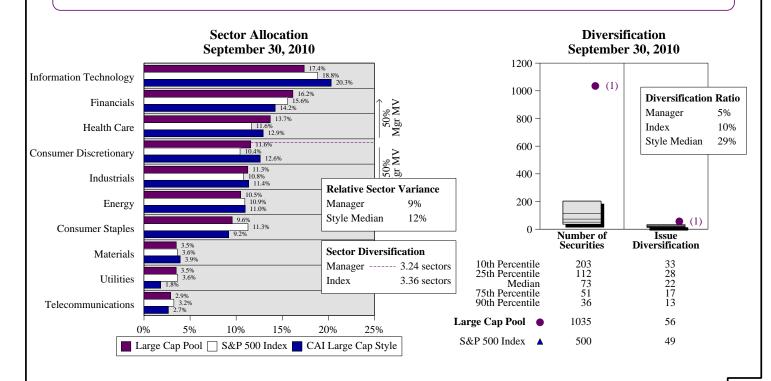
# LARGE CAP POOL EQUITY CHARACTERISTICS ANALYSIS SUMMARY

# **Portfolio Characteristics**

This graph compares the manager's portfolio characteristics with the range of characteristics for the portfolios which make up the manager's style group. This analysis illustrates whether the manager's current holdings are consistent with other managers employing the same style.



#### Sector Weights



# BARROW, HANLEY PERIOD ENDED SEPTEMBER 30, 2010

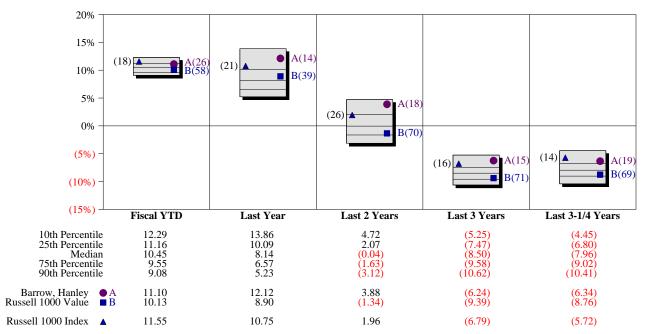
#### **Investment Philosophy**

Barrow Hanley uses a bottom-up stock selection process to identify securities having low price multiples and dividend yield greater than the market with prospects for above average profitability.

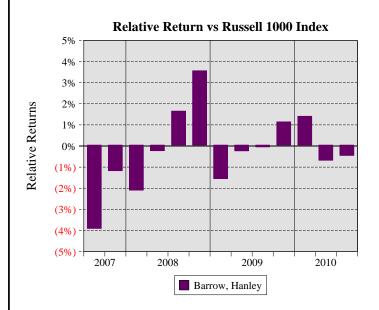
#### **Quarterly Summary and Highlights**

- Barrow, Hanley's portfolio posted a 11.10% return for the quarter placing it in the 26 percentile of the CAI Large Cap Value Style group for the quarter and in the 14 percentile for the last year.
- Barrow, Hanley's portfolio underperformed the Russell 1000 Index by 0.45% for the quarter and outperformed the Russell 1000 Index for the year by 1.36%.

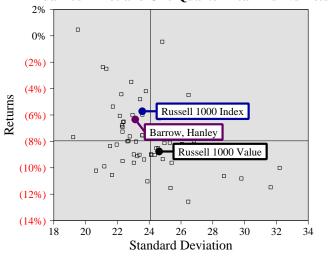
Quarterly Asset Growth	
Beginning Market Value	\$108,769,331
Net New Investment	\$0
Investment Gains/(Losses)	\$12,077,389
Ending Market Value	\$120,846,720
Percent Cash: 1.4%	



# Performance vs CAI Large Cap Value Style (Gross)



CAI Large Cap Value Style (Gross) Annualized Three and One-Quarter Year Risk vs Return

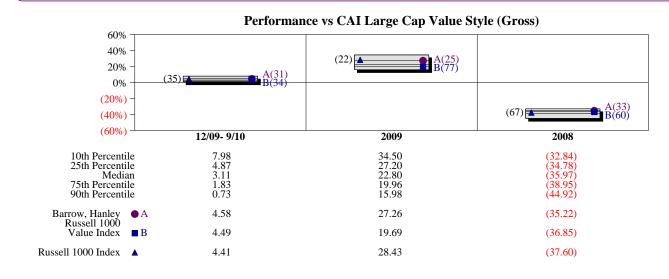


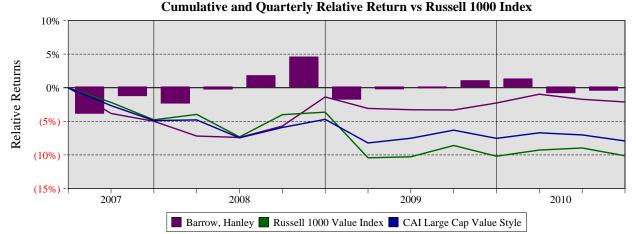
Alaska Retirement Management Board

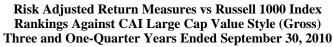
# BARROW, HANLEY RETURN ANALYSIS SUMMARY

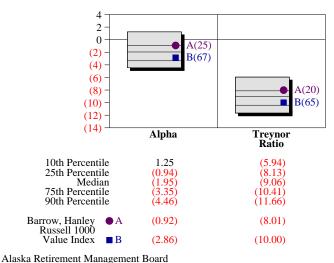
#### **Return Analysis**

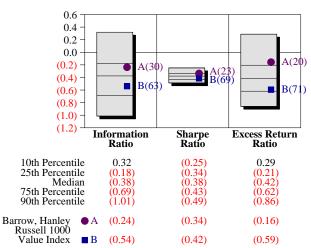
The graphs below analyze the manager's return on both a risk-adjusted and unadjusted basis. The first chart illustrates the manager's ranking over different periods versus the appropriate style group. The second chart shows the historical quarterly and cumulative manager returns versus the appropriate market benchmark. The last two charts illustrate the manager's ranking relative to their style using various risk-adjusted return measures.









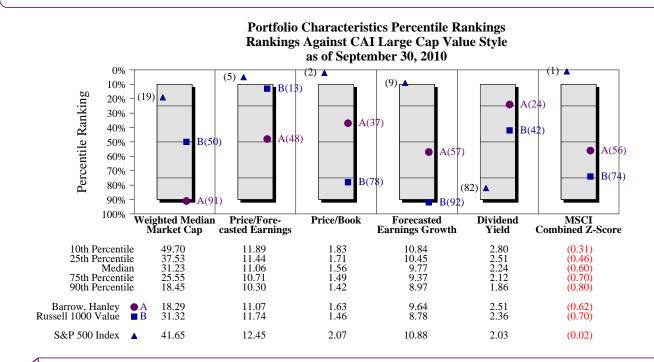


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## BARROW, HANLEY EQUITY CHARACTERISTICS ANALYSIS SUMMARY

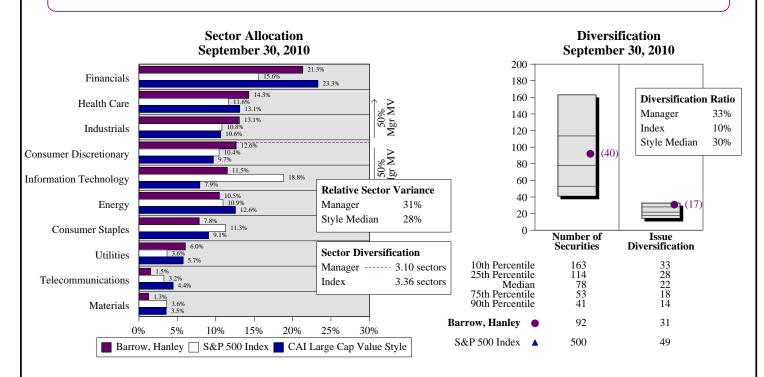
# **Portfolio Characteristics**

This graph compares the manager's portfolio characteristics with the range of characteristics for the portfolios which make up the manager's style group. This analysis illustrates whether the manager's current holdings are consistent with other managers employing the same style.



# Sector Weights

The graph below contrasts the manager's sector weights with those of the benchmark and median sector weights across the members of the peer group. The magnitude of sector weight differences from the index and the manager's sector diversification are also shown. Diversification by number and concentration of holdings are also compared to the benchmark and peer group. Issue Diversification represents by count, and Diversification Ratio by percent, the number of holdings that comprise half of the portfolio's market value.



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## LAZARD ASSET MANAGEMENT PERIOD ENDED SEPTEMBER 30, 2010

#### **Investment Philosophy**

Lazard's investment philosophy is based on the creation of value through bottom-up stock selection which focuses on companies that are financially productive yet inexpensively priced.

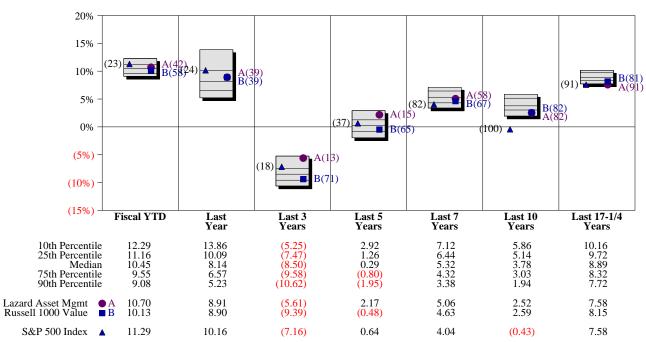
#### **Quarterly Summary and Highlights**

- Lazard Asset Mgmt's portfolio posted a 10.70% return for the quarter placing it in the 42 percentile of the CAI Large Cap Value Style group for the quarter and in the 39 percentile for the last year.
- Lazard Asset Mgmt's portfolio underperformed the S&P 500 Index by 0.59% for the quarter and underperformed the S&P 500 Index for the year by 1.25%.

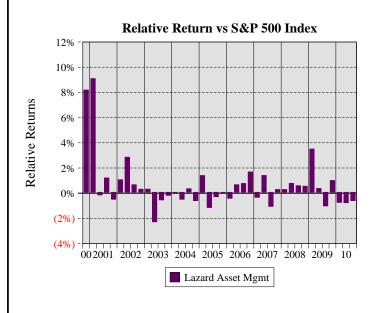
Quarterly Asset Growth	
Beginning Market Value	\$271,958,758
Net New Investment	\$0
Investment Gains/(Losses)	\$29,100,000
Ending Market Value	\$301,058,758
Percent Cash: 5.5%	

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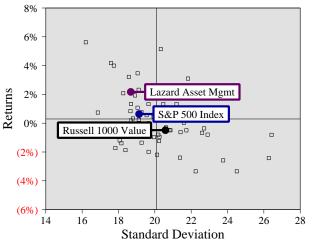
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# Performance vs CAI Large Cap Value Style (Gross)



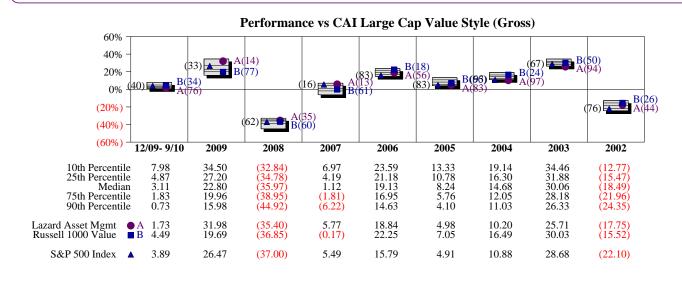
#### CAI Large Cap Value Style (Gross) Annualized Five Year Risk vs Return

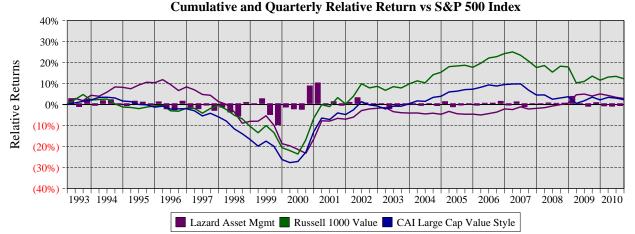


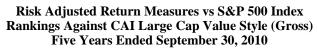
# LAZARD ASSET MANAGEMENT RETURN ANALYSIS SUMMARY

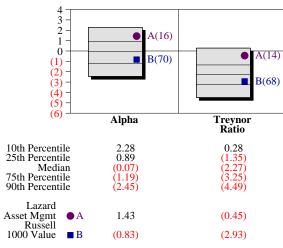
# **Return Analysis**

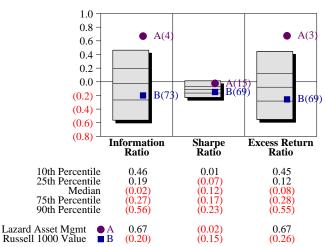
The graphs below analyze the manager's return on both a risk-adjusted and unadjusted basis. The first chart illustrates the manager's ranking over different periods versus the appropriate style group. The second chart shows the historical quarterly and cumulative manager returns versus the appropriate market benchmark. The last two charts illustrate the manager's ranking relative to their style using various risk-adjusted return measures.







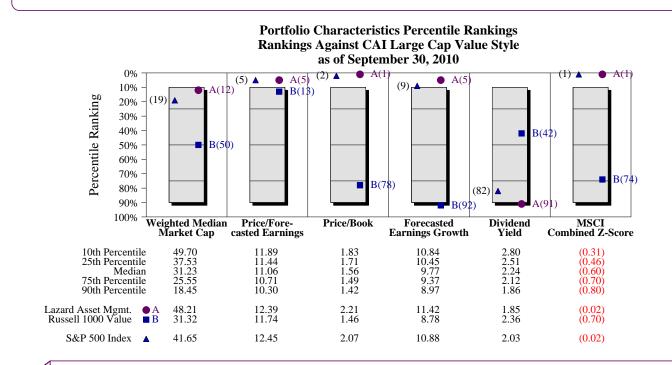




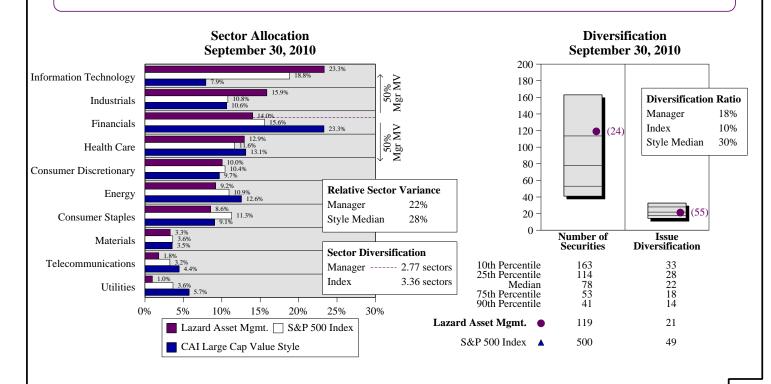
# LAZARD ASSET MGMT. EQUITY CHARACTERISTICS ANALYSIS SUMMARY

# **Portfolio Characteristics**

This graph compares the manager's portfolio characteristics with the range of characteristics for the portfolios which make up the manager's style group. This analysis illustrates whether the manager's current holdings are consistent with other managers employing the same style.



# Sector Weights



#### MCKINLEY CAPITAL MANAGEMENT, INC. PERIOD ENDED SEPTEMBER 30, 2010

#### **Investment Philosophy**

McKinley Capital's investment philospohy is based on the belief that excess market returns can be achieved through the construction and active management of a diversified, fundamentally sound portfolio of inefficiently priced common stocks whose earnings growth rates are accelerating above market expectations.

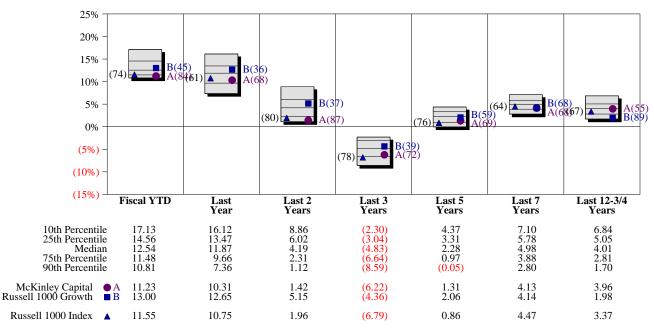
#### **Quarterly Summary and Highlights**

- McKinley Capital's portfolio posted a 11.23% return for the quarter placing it in the 84 percentile of the CAI Large Cap Growth Style group for the quarter and in the 68 percentile for the last year.
- McKinley Capital's portfolio underperformed the Russell 1000 Index by 0.32% for the quarter and underperformed the Russell 1000 Index for the year by 0.45%.

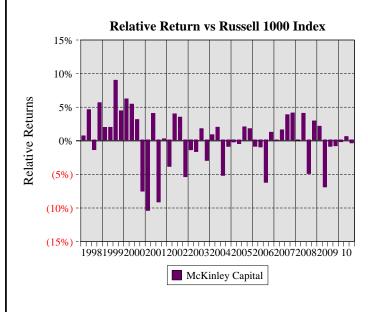
# **Quarterly Asset Growth**

Beginning Market Value	\$311,202,760
Net New Investment	\$0
Investment Gains/(Losses)	\$34,952,139
Ending Market Value	\$346,154,899

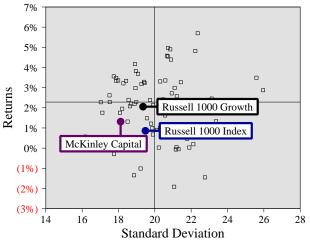
Percent Cash: 0.7%



# Performance vs CAI Large Cap Growth Style (Gross)



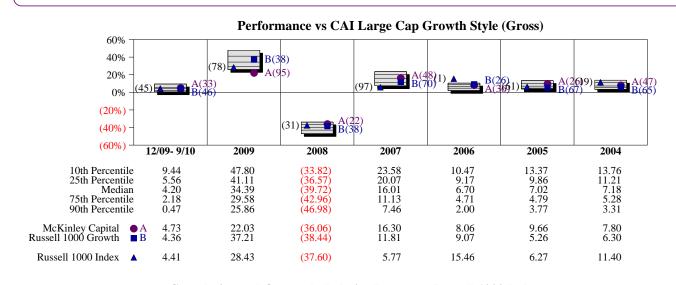
#### CAI Large Cap Growth Style (Gross) Annualized Five Year Risk vs Return



# MCKINLEY CAPITAL RETURN ANALYSIS SUMMARY

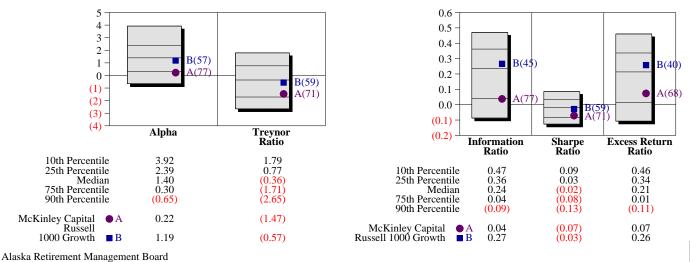
#### **Return Analysis**

The graphs below analyze the manager's return on both a risk-adjusted and unadjusted basis. The first chart illustrates the manager's ranking over different periods versus the appropriate style group. The second chart shows the historical quarterly and cumulative manager returns versus the appropriate market benchmark. The last two charts illustrate the manager's ranking relative to their style using various risk-adjusted return measures.





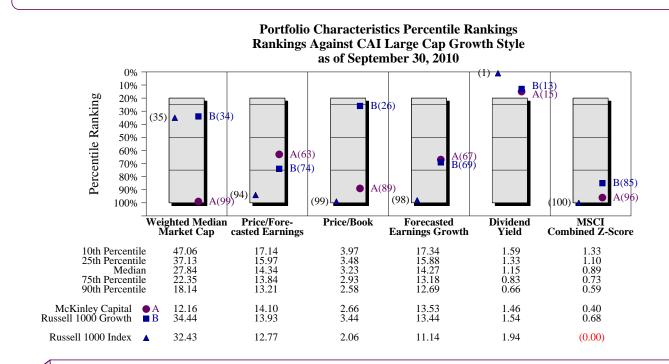




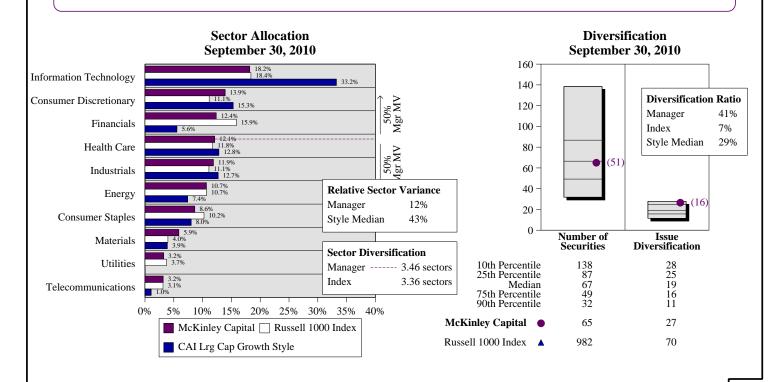
## MCKINLEY CAPITAL EQUITY CHARACTERISTICS ANALYSIS SUMMARY

# **Portfolio Characteristics**

This graph compares the manager's portfolio characteristics with the range of characteristics for the portfolios which make up the manager's style group. This analysis illustrates whether the manager's current holdings are consistent with other managers employing the same style.



# Sector Weights



# QUANTITATIVE MGMT ASSOC **PERIOD ENDED SEPTEMBER 30, 2010**

#### **Investment Philosophy**

Quantitative Management believes that cognitive biases cause investors to occasionally misprice stocks. By investing in well diversified portfolios using quantitative stock selection, risk control and low cost trading techniques, the firm seeks to exploit these mispricings and outperform the selected index over a full market cycle.

Performance vs CAI Large Cap Value Style (Gross)

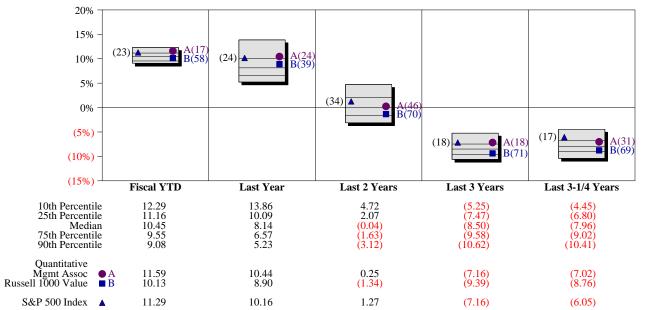
#### **Quarterly Summary and Highlights**

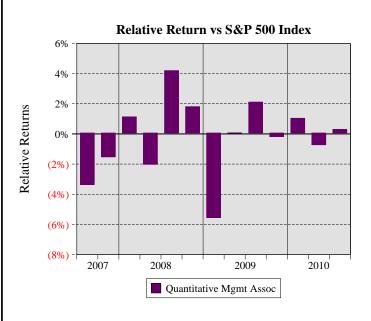
- Quantitative Mgmt Assoc's portfolio posted a 11.59% return for the quarter placing it in the 17 percentile of the CAI Large Cap Value Style group for the quarter and in the 24 percentile for the last year.
- Quantitative Mgmt Assoc's portfolio outperformed the ٠ S&P 500 Index by 0.30% for the quarter and outperformed the S&P 500 Index for the year by 0.28%.

# **Quarterly Asset Growth**

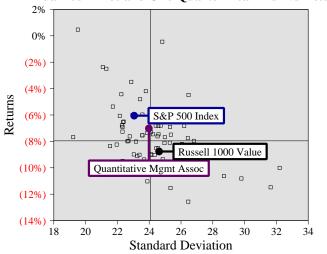
Beginning Market Value	\$105,728,804
Net New Investment	\$-8
Investment Gains/(Losses)	\$12,253,925
Ending Market Value	\$117,982,721

Percent Cash: 1.8%





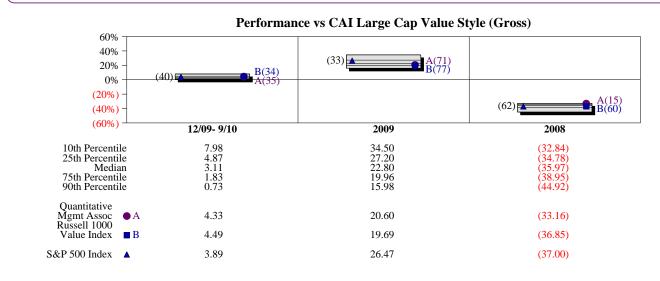
#### CAI Large Cap Value Style (Gross) Annualized Three and One-Quarter Year Risk vs Return

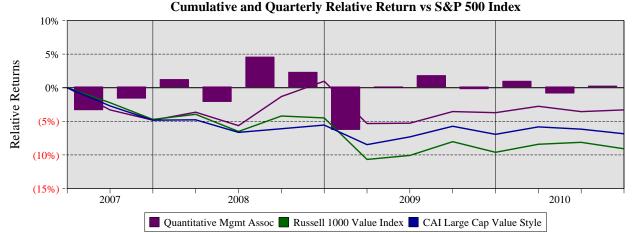


# QUANTITATIVE MGMT ASSOC RETURN ANALYSIS SUMMARY

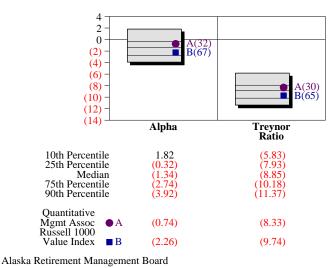
#### **Return Analysis**

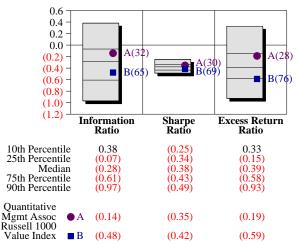
The graphs below analyze the manager's return on both a risk-adjusted and unadjusted basis. The first chart illustrates the manager's ranking over different periods versus the appropriate style group. The second chart shows the historical quarterly and cumulative manager returns versus the appropriate market benchmark. The last two charts illustrate the manager's ranking relative to their style using various risk-adjusted return measures.





#### Risk Adjusted Return Measures vs S&P 500 Index Rankings Against CAI Large Cap Value Style (Gross) Three and One-Quarter Years Ended September 30, 2010



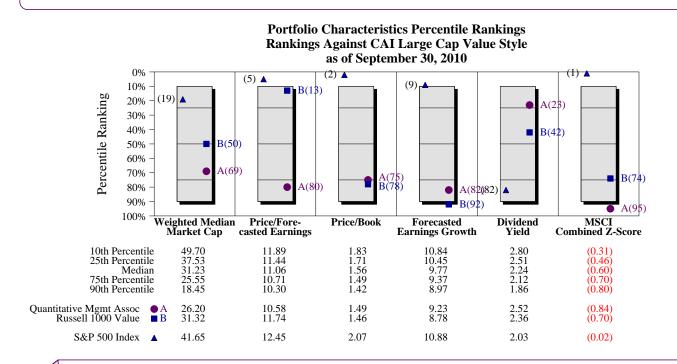


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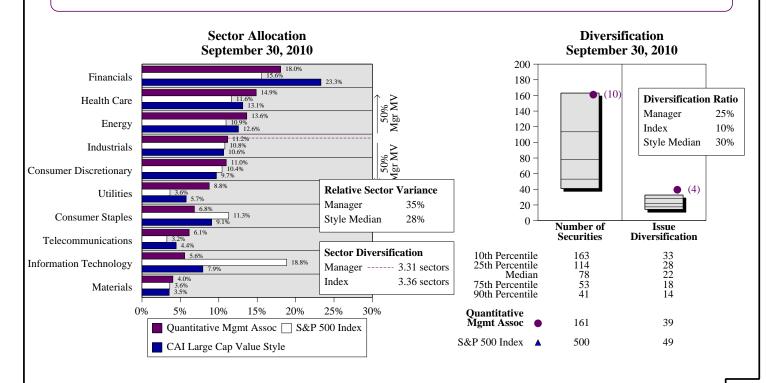
# QUANTITATIVE MGMT ASSOC EQUITY CHARACTERISTICS ANALYSIS SUMMARY

# **Portfolio Characteristics**

This graph compares the manager's portfolio characteristics with the range of characteristics for the portfolios which make up the manager's style group. This analysis illustrates whether the manager's current holdings are consistent with other managers employing the same style.



#### Sector Weights



#### RCM PERIOD ENDED SEPTEMBER 30, 2010

#### **Investment Philosophy**

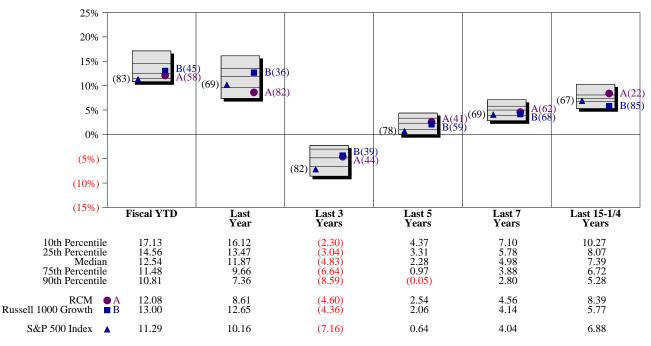
RCM believes that the rigorous fundamental research of securities combined with a disciplined valuation methodology will enable them to outperform benchmarks while maintaining a below average risk profile.

#### **Quarterly Summary and Highlights**

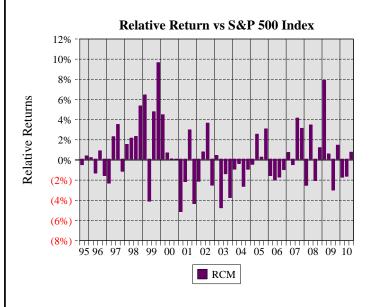
- RCM's portfolio posted a 12.08% return for the quarter placing it in the 58 percentile of the CAI Large Cap Growth Style group for the quarter and in the 82 percentile for the last year.
- RCM's portfolio outperformed the S&P 500 Index by 0.78% for the quarter and underperformed the S&P 500 Index for the year by 1.55%.

<b>Quarterly Asset Growth</b>	
Beginning Market Value	\$338,558,787
Net New Investment	\$0
Investment Gains/(Losses)	\$40,886,409
Ending Market Value	\$379,445,196

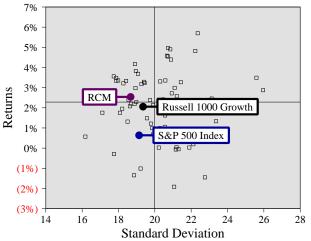
Percent Cash: 1.9%



# Performance vs CAI Large Cap Growth Style (Gross)



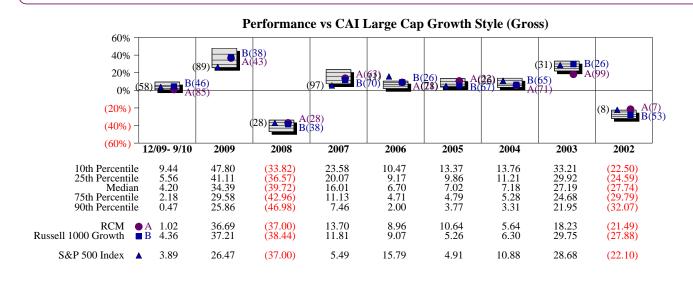
#### CAI Large Cap Growth Style (Gross) Annualized Five Year Risk vs Return

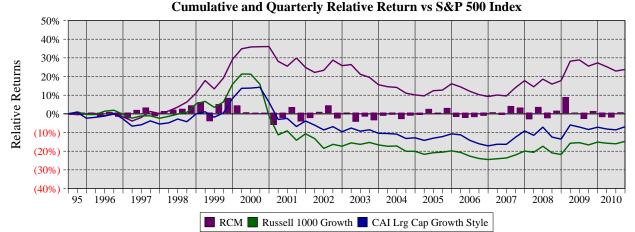


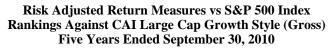
#### RCM RETURN ANALYSIS SUMMARY

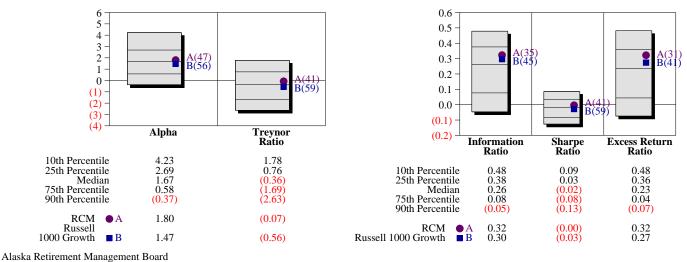
#### **Return Analysis**

The graphs below analyze the manager's return on both a risk-adjusted and unadjusted basis. The first chart illustrates the manager's ranking over different periods versus the appropriate style group. The second chart shows the historical quarterly and cumulative manager returns versus the appropriate market benchmark. The last two charts illustrate the manager's ranking relative to their style using various risk-adjusted return measures.





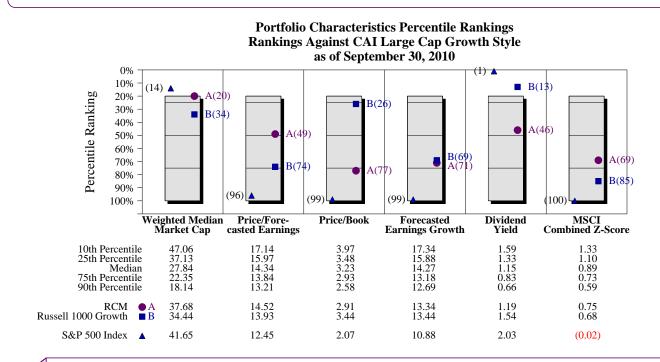




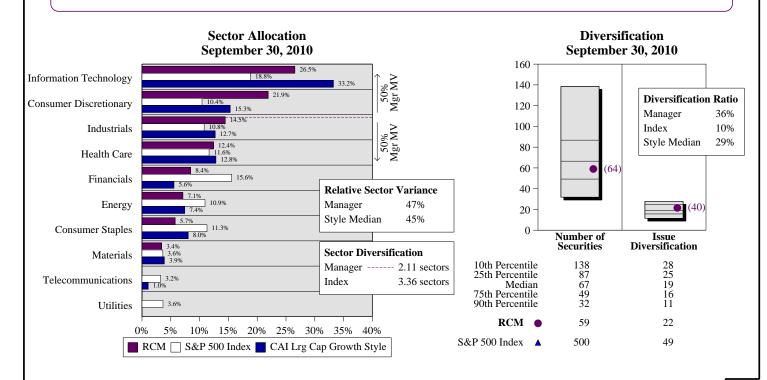
#### RCM EQUITY CHARACTERISTICS ANALYSIS SUMMARY

# **Portfolio Characteristics**

This graph compares the manager's portfolio characteristics with the range of characteristics for the portfolios which make up the manager's style group. This analysis illustrates whether the manager's current holdings are consistent with other managers employing the same style.



# Sector Weights



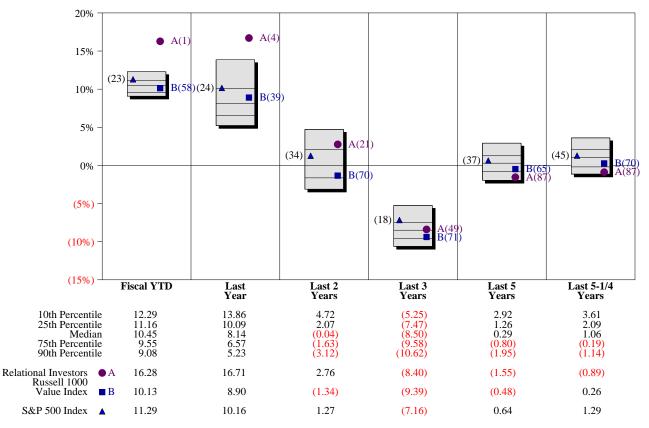
# **RELATIONAL INVESTORS PERIOD ENDED SEPTEMBER 30, 2010**

#### **Quarterly Summary and Highlights**

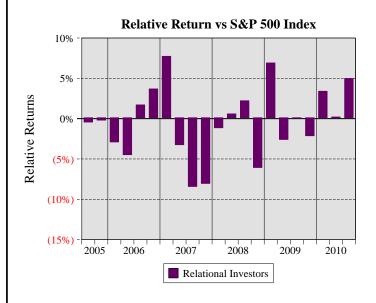
- Relational Investors's portfolio posted a 16.28% return for the quarter placing it in the 1 percentile of the CAI Large Cap Value Style group for the quarter and in the 4 percentile for the last year.
- Relational Investors's portfolio outperformed the S&P 500 Index by 4.98% for the quarter and outperformed the S&P 500 Index for the year by 6.54%.

# **Quarterly Asset Growth**

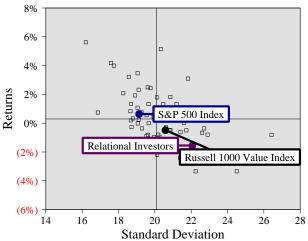
Beginning Market Value	\$239,379,038
Net New Investment	\$4,916,948
Investment Gains/(Losses)	\$39,354,647
Ending Market Value	\$283,650,633



# Performance vs CAI Large Cap Value Style (Gross)



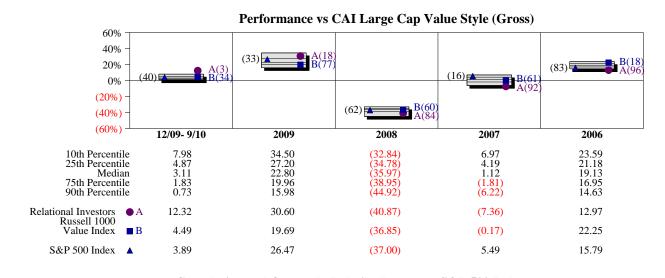
#### CAI Large Cap Value Style (Gross) Annualized Five Year Risk vs Return

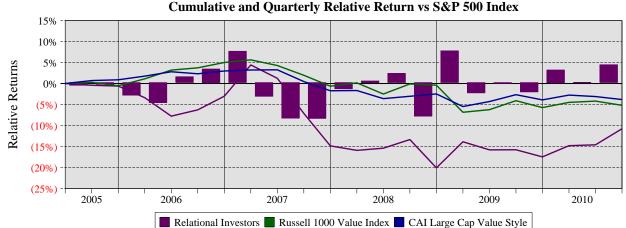


# **RELATIONAL INVESTORS RETURN ANALYSIS SUMMARY**

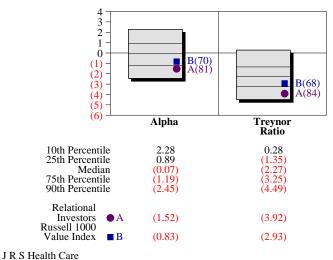
#### **Return Analysis**

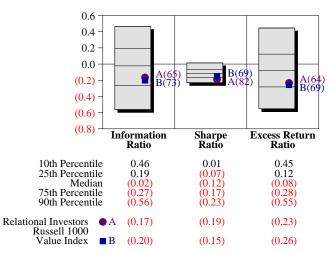
The graphs below analyze the manager's return on both a risk-adjusted and unadjusted basis. The first chart illustrates the manager's ranking over different periods versus the appropriate style group. The second chart shows the historical quarterly and cumulative manager returns versus the appropriate market benchmark. The last two charts illustrate the manager's ranking relative to their style using various risk-adjusted return measures.





**Risk Adjusted Return Measures vs S&P 500 Index** Rankings Against CAI Large Cap Value Style (Gross) Five Years Ended September 30, 2010

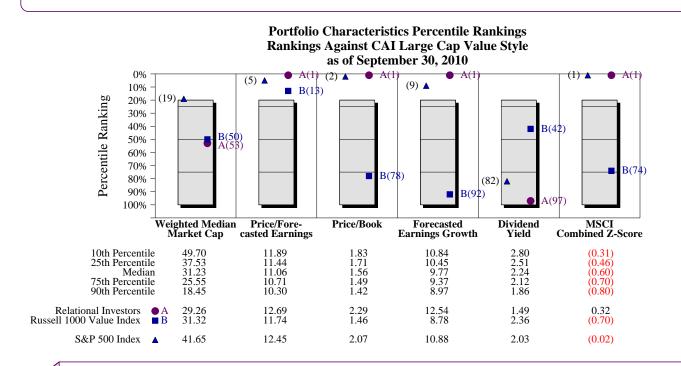




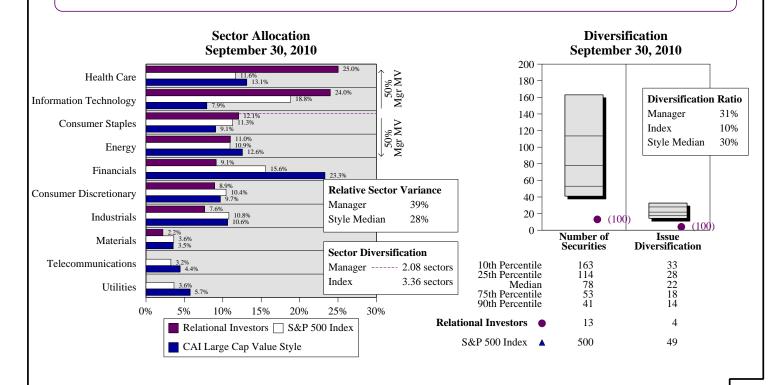
## RELATIONAL INVESTORS EQUITY CHARACTERISTICS ANALYSIS SUMMARY

# **Portfolio Characteristics**

This graph compares the manager's portfolio characteristics with the range of characteristics for the portfolios which make up the manager's style group. This analysis illustrates whether the manager's current holdings are consistent with other managers employing the same style.



# Sector Weights



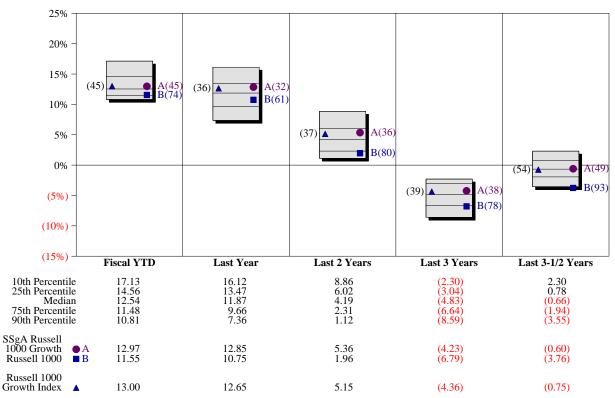
# SSGA RUSSELL 1000 GROWTH PERIOD ENDED SEPTEMBER 30, 2010

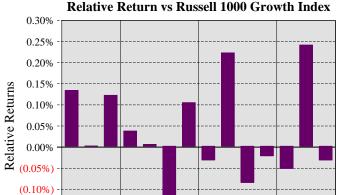
#### **Quarterly Summary and Highlights**

- SSgA Russell 1000 Growth's portfolio posted a 12.97% return for the quarter placing it in the 45 percentile of the CAI Large Cap Growth Style group for the quarter and in the 32 percentile for the last year.
- SSgA Russell 1000 Growth's portfolio underperformed the Russell 1000 Growth Index by 0.03% for the quarter and outperformed the Russell 1000 Growth Index for the year by 0.20%.

#### **Quarterly Asset Growth**

Beginning Market Value	\$399,360,376
Net New Investment	\$0
Investment Gains/(Losses)	\$51,806,177
Ending Market Value	\$451,166,553





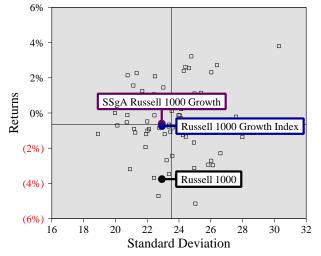
2008

2009

SSgA Russell 1000 Growth

2010

CAI Large Cap Growth Style (Gross) Annualized Three and One-Half Year Risk vs Return



# Performance vs CAI Large Cap Growth Style (Gross)

2007

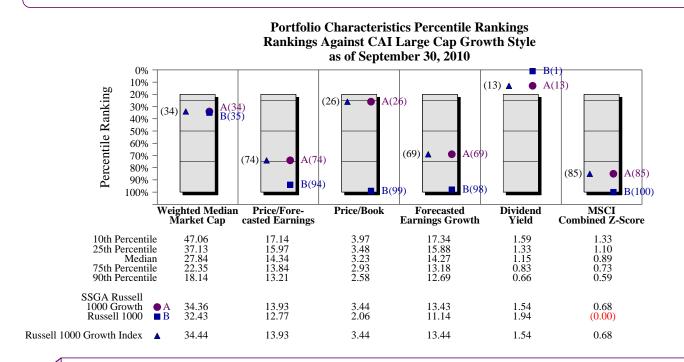
(0.15%)

(0.20%) -

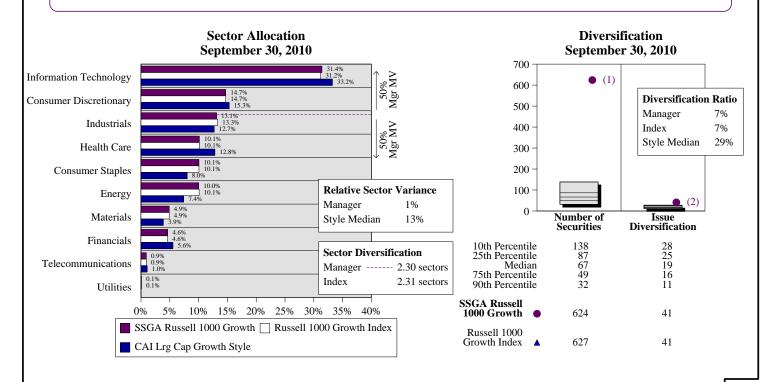
## SSGA RUSSELL 1000 GROWTH EQUITY CHARACTERISTICS ANALYSIS SUMMARY

# **Portfolio Characteristics**

This graph compares the manager's portfolio characteristics with the range of characteristics for the portfolios which make up the manager's style group. This analysis illustrates whether the manager's current holdings are consistent with other managers employing the same style.



# Sector Weights



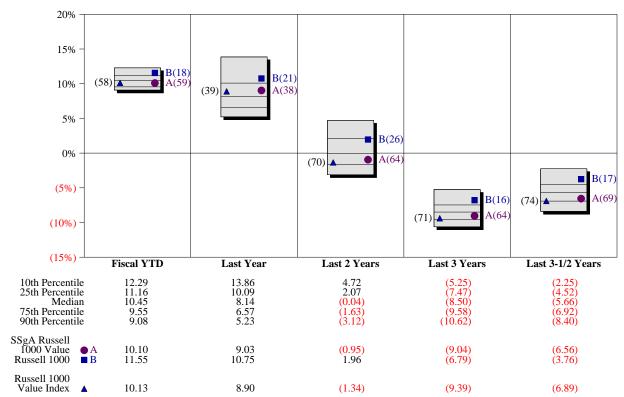
# SSGA RUSSELL 1000 VALUE PERIOD ENDED SEPTEMBER 30, 2010

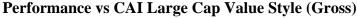
#### **Quarterly Summary and Highlights**

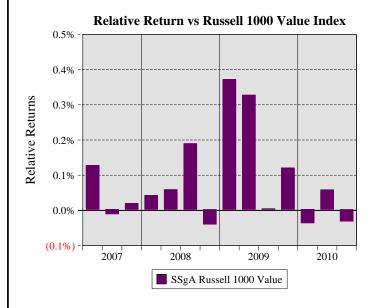
- SSgA Russell 1000 Value's portfolio posted a 10.10% return for the quarter placing it in the 59 percentile of the CAI Large Cap Value Style group for the quarter and in the 38 percentile for the last year.
- SSgA Russell 1000 Value's portfolio underperformed the Russell 1000 Value Index by 0.03% for the quarter and outperformed the Russell 1000 Value Index for the year by 0.13%.

#### **Quarterly Asset Growth**

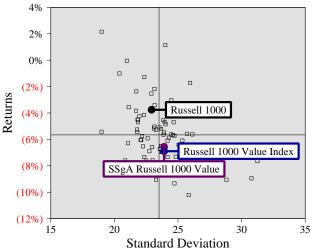
Beginning Market Value	\$945,804,913
Net New Investment	\$102,835
Investment Gains/(Losses)	\$95,525,902
Ending Market Value	\$1,041,433,650







CAI Large Cap Value Style (Gross) Annualized Three and One-Half Year Risk vs Return

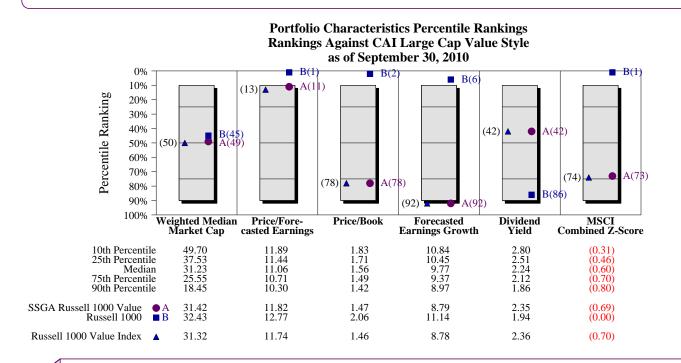


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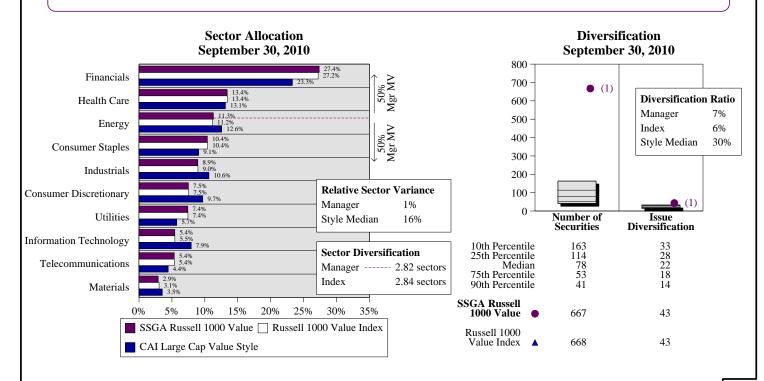
#### SSGA RUSSELL 1000 VALUE EQUITY CHARACTERISTICS ANALYSIS SUMMARY

# **Portfolio Characteristics**

This graph compares the manager's portfolio characteristics with the range of characteristics for the portfolios which make up the manager's style group. This analysis illustrates whether the manager's current holdings are consistent with other managers employing the same style.



# Sector Weights



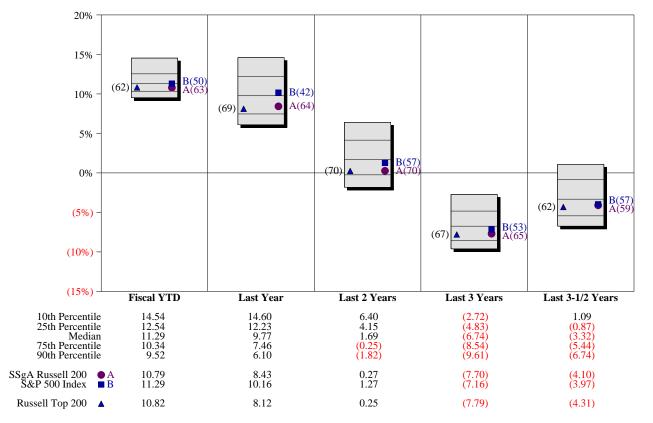
# SSGA RUSSELL 200 PERIOD ENDED SEPTEMBER 30, 2010

#### **Quarterly Summary and Highlights**

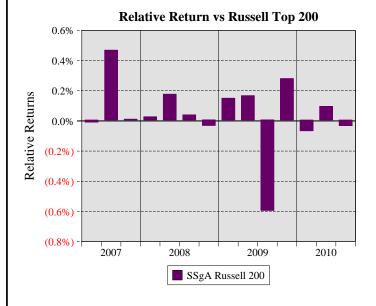
- SSgA Russell 200's portfolio posted a 10.79% return for the quarter placing it in the 63 percentile of the CAI Large Capitalization Style group for the quarter and in the 64 percentile for the last year.
- SSgA Russell 200's portfolio underperformed the Russell Top 200 by 0.03% for the quarter and outperformed the Russell Top 200 for the year by 0.31%.

# **Quarterly Asset Growth**

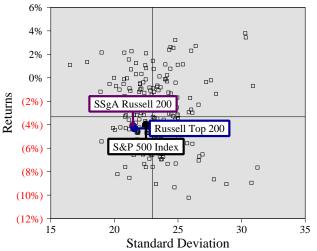
Beginning Market Value	\$297,004,950
Net New Investment	\$56
Investment Gains/(Losses)	\$32,054,370
Ending Market Value	\$329,059,376



# Performance vs CAI Large Capitalization Style (Gross)



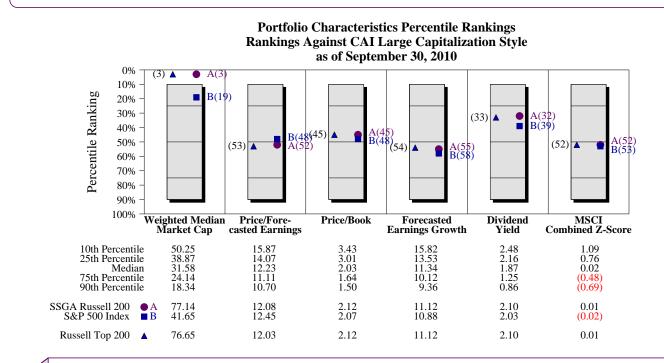
CAI Large Capitalization Style (Gross) Annualized Three and One-Half Year Risk vs Return



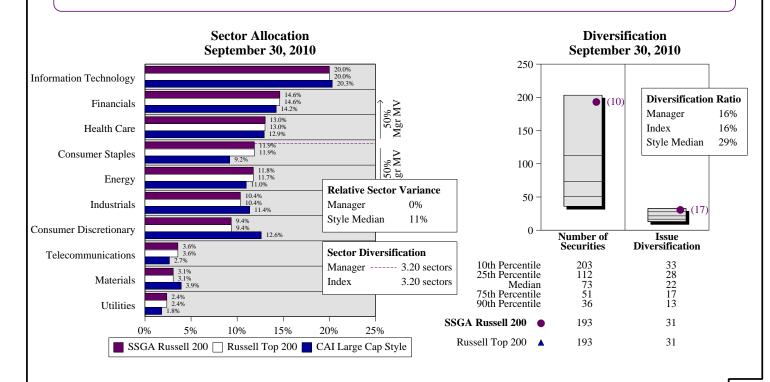
## SSGA RUSSELL 200 EQUITY CHARACTERISTICS ANALYSIS SUMMARY

# **Portfolio Characteristics**

This graph compares the manager's portfolio characteristics with the range of characteristics for the portfolios which make up the manager's style group. This analysis illustrates whether the manager's current holdings are consistent with other managers employing the same style.



# Sector Weights



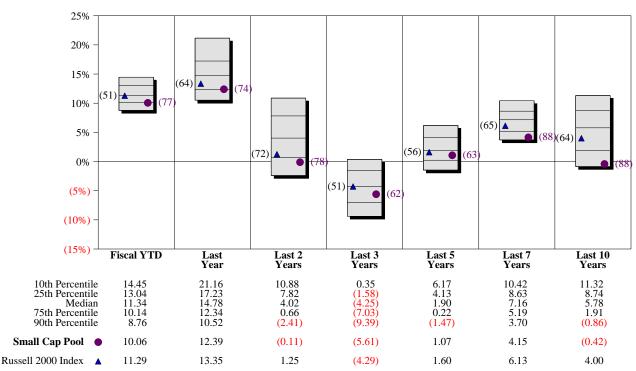
# SMALL CAP EQUITY POOL PERIOD ENDED SEPTEMBER 30, 2010

#### **Investment Philosophy**

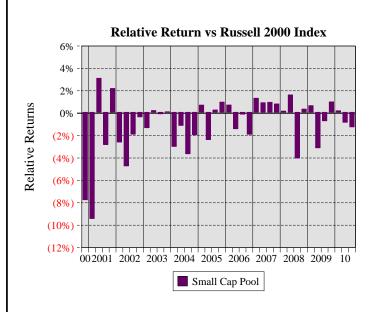
The State of Alaska Small Capitalization Equity Pool is evenly comprised of small cap value and small cap growth managers to provide broad market exposure within the small cap arena. The performance benchmark for the small cap equity pool is the Russell 2000 Index.

#### **Quarterly Summary and Highlights**

- Small Cap Pool's portfolio posted a 10.06% return for the quarter placing it in the 77 percentile of the CAI Small Capitalization Style group for the quarter and in the 74 percentile for the last year.
- Small Cap Pool's portfolio underperformed the Russell 2000 Index by 1.23% for the quarter and underperformed the Russell 2000 Index for the year by 0.95%.

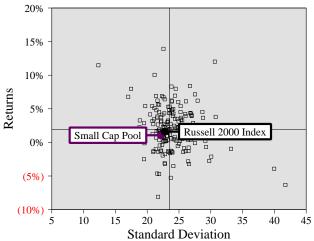


# Performance vs CAI Small Capitalization Style (Gross)



Alaska Retirement Management Board

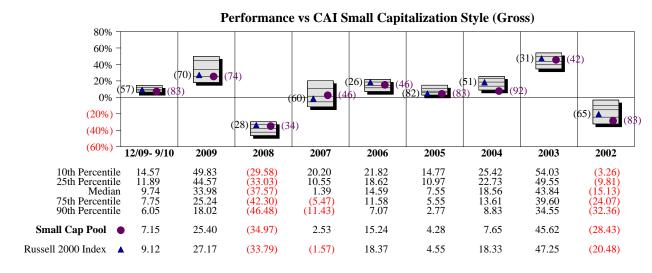
#### CAI Small Capitalization Style (Gross) Annualized Five Year Risk vs Return

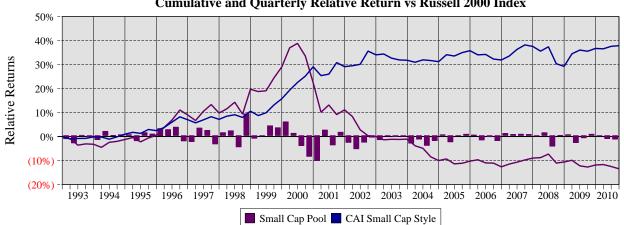


# **SMALL CAP POOL RETURN ANALYSIS SUMMARY**

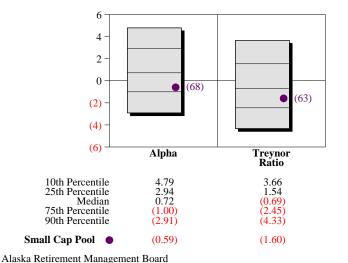
#### **Return Analysis**

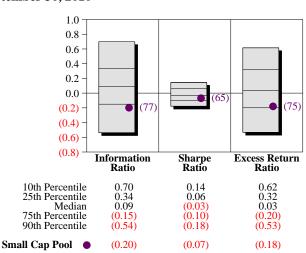
The graphs below analyze the manager's return on both a risk-adjusted and unadjusted basis. The first chart illustrates the manager's ranking over different periods versus the appropriate style group. The second chart shows the historical quarterly and cumulative manager returns versus the appropriate market benchmark. The last two charts illustrate the manager's ranking relative to their style using various risk-adjusted return measures.









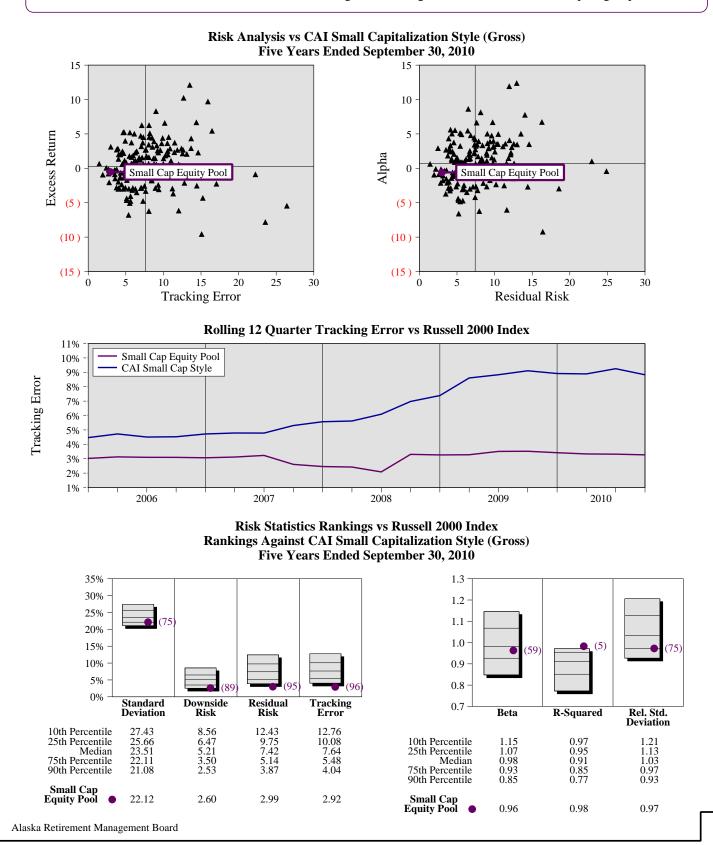


Cumulative and Quarterly Relative Return vs Russell 2000 Index

# SMALL CAP EQUITY POOL RISK ANALYSIS SUMMARY

#### **Risk Analysis**

The graphs below analyze the risk or variation of a manager's return pattern. The first scatter chart illustrates the relationship, called Excess Return Ratio, between excess return and tracking error relative to the benchmark. The second scatter chart displays the relationship, sometimes called Information Ratio, between alpha (market-risk or "beta" adjusted return) and residual risk (non-market or "unsystematic" risk). The third chart shows tracking error patterns versus the benchmark over time. The last two charts show the ranking of the manager's risk statistics versus the peer group.

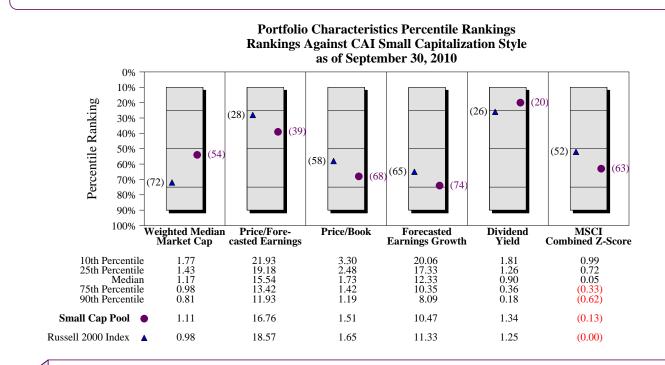


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## SMALL CAP POOL EQUITY CHARACTERISTICS ANALYSIS SUMMARY

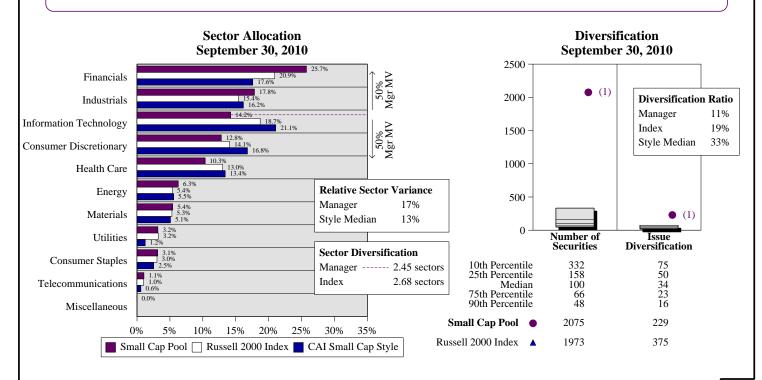
## **Portfolio Characteristics**

This graph compares the manager's portfolio characteristics with the range of characteristics for the portfolios which make up the manager's style group. This analysis illustrates whether the manager's current holdings are consistent with other managers employing the same style.



## Sector Weights

The graph below contrasts the manager's sector weights with those of the benchmark and median sector weights across the members of the peer group. The magnitude of sector weight differences from the index and the manager's sector diversification are also shown. Diversification by number and concentration of holdings are also compared to the benchmark and peer group. Issue Diversification represents by count, and Diversification Ratio by percent, the number of holdings that comprise half of the portfolio's market value.



## JENNISON ASSOCIATES PERIOD ENDED SEPTEMBER 30, 2010

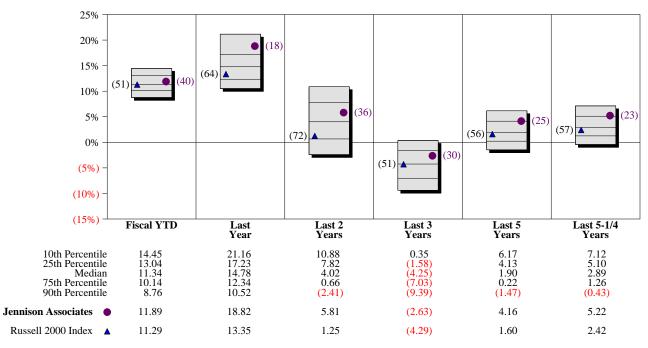
#### **Investment Philosophy**

Jennison's US Small Cap Equity is a blended small cap portfolio that holds both growth and value stocks that the team believes have above-average earnings potential and are available at reasonable prices.

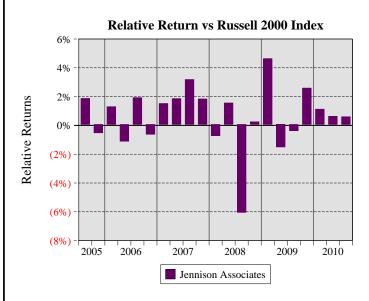
## **Quarterly Summary and Highlights**

- Jennison Associates's portfolio posted a 11.89% return for the quarter placing it in the 40 percentile of the CAI Small Capitalization Style group for the quarter and in the 18 percentile for the last year.
- Jennison Associates's portfolio outperformed the Russell 2000 Index by 0.60% for the quarter and outperformed the Russell 2000 Index for the year by 5.48%.

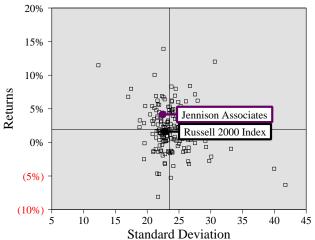
Beginning Market Value	\$115,106,018
Net New Investment	\$0
Investment Gains/(Losses)	\$13,684,517
Ending Market Value	\$128,790,535







#### CAI Small Capitalization Style (Gross) Annualized Five Year Risk vs Return

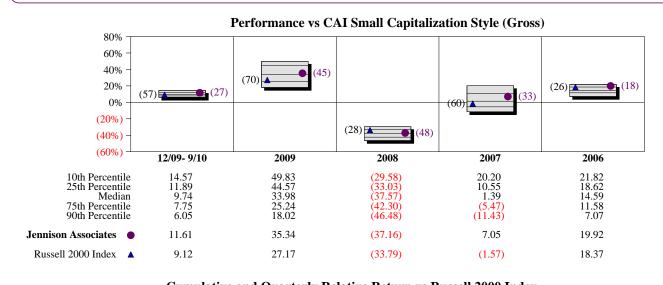


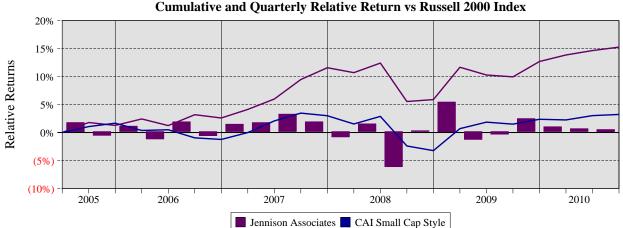
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## JENNISON ASSOCIATES RETURN ANALYSIS SUMMARY

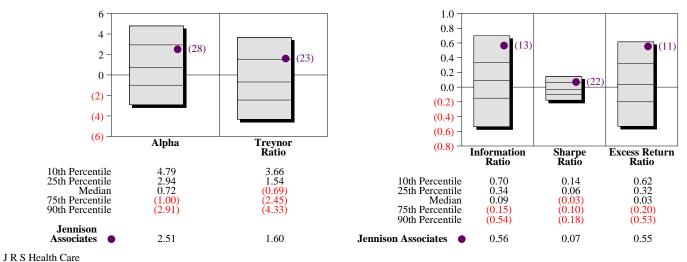
#### **Return Analysis**

The graphs below analyze the manager's return on both a risk-adjusted and unadjusted basis. The first chart illustrates the manager's ranking over different periods versus the appropriate style group. The second chart shows the historical quarterly and cumulative manager returns versus the appropriate market benchmark. The last two charts illustrate the manager's ranking relative to their style using various risk-adjusted return measures.







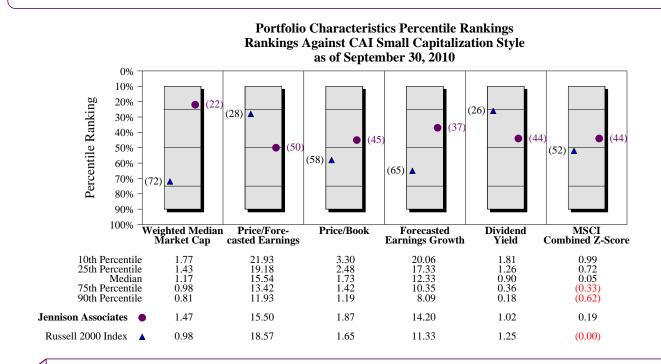


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#### JENNISON ASSOCIATES EQUITY CHARACTERISTICS ANALYSIS SUMMARY

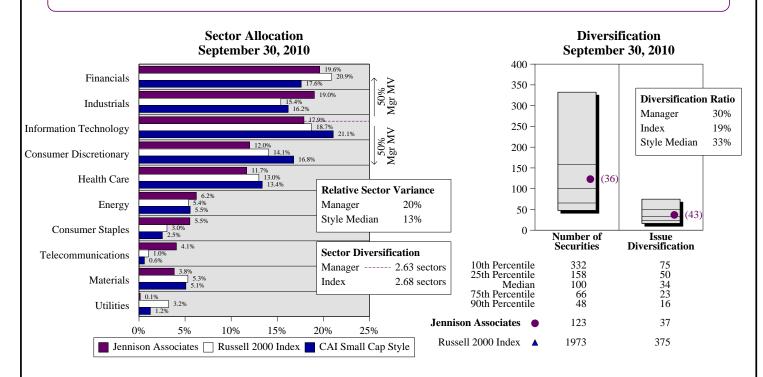
## **Portfolio Characteristics**

This graph compares the manager's portfolio characteristics with the range of characteristics for the portfolios which make up the manager's style group. This analysis illustrates whether the manager's current holdings are consistent with other managers employing the same style.



## Sector Weights

The graph below contrasts the manager's sector weights with those of the benchmark and median sector weights across the members of the peer group. The magnitude of sector weight differences from the index and the manager's sector diversification are also shown. Diversification by number and concentration of holdings are also compared to the benchmark and peer group. Issue Diversification represents by count, and Diversification Ratio by percent, the number of holdings that comprise half of the portfolio's market value.



## LORD, ABBETT PERIOD ENDED SEPTEMBER 30, 2010

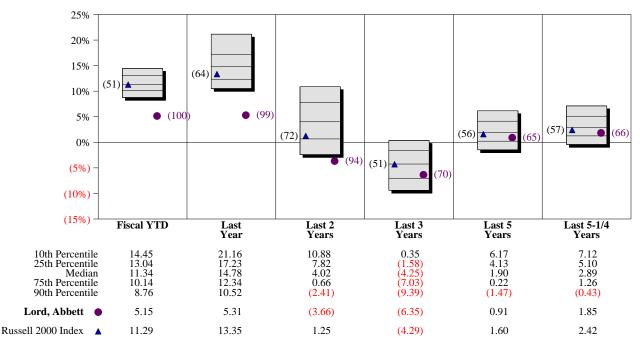
#### **Investment Philosophy**

Lord, Abbett utilizes a disciplined investment process that employs fundamental research in seeking to identify companies whose growth generates superior returns with acceptable levels of volatility.

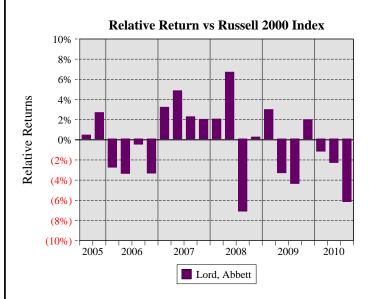
## **Quarterly Summary and Highlights**

- Lord, Abbett's portfolio posted a 5.15% return for the quarter placing it in the 100 percentile of the CAI Small Capitalization Style group for the quarter and in the 99 percentile for the last year.
- Lord, Abbett's portfolio underperformed the Russell 2000 Index by 6.14% for the quarter and underperformed the Russell 2000 Index for the year by 8.03%.

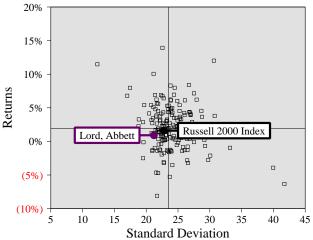
Beginning Market Value	\$136,504,718
Net New Investment	\$0
Investment Gains/(Losses)	\$7,030,814
Ending Market Value	\$143,535,532



## Performance vs CAI Small Capitalization Style (Gross)



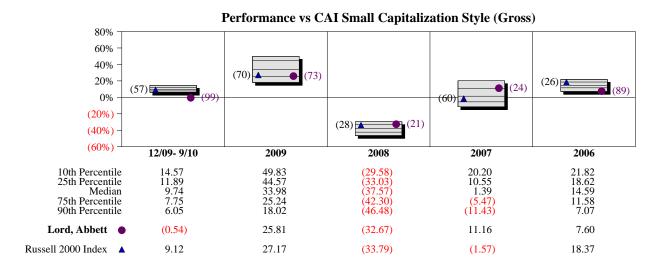
#### CAI Small Capitalization Style (Gross) Annualized Five Year Risk vs Return

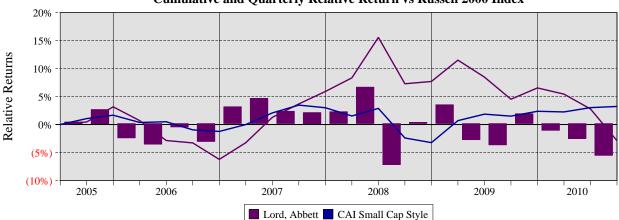


## LORD, ABBETT RETURN ANALYSIS SUMMARY

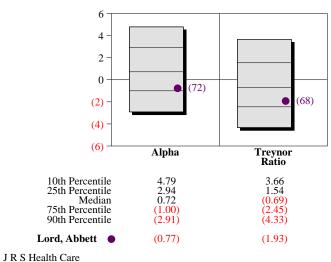
#### **Return Analysis**

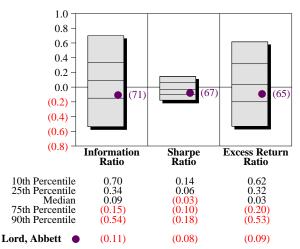
The graphs below analyze the manager's return on both a risk-adjusted and unadjusted basis. The first chart illustrates the manager's ranking over different periods versus the appropriate style group. The second chart shows the historical quarterly and cumulative manager returns versus the appropriate market benchmark. The last two charts illustrate the manager's ranking relative to their style using various risk-adjusted return measures.









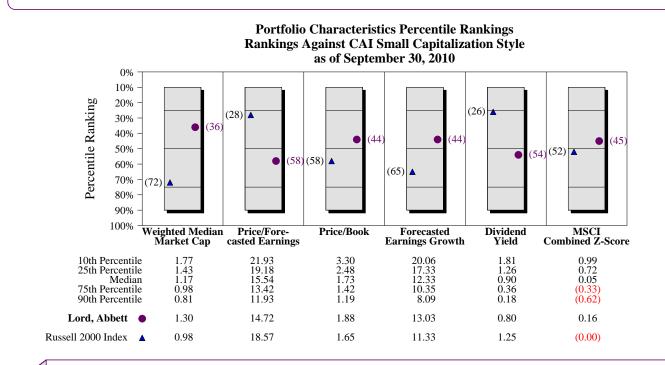


Cumulative and Quarterly Relative Return vs Russell 2000 Index

## LORD, ABBETT EQUITY CHARACTERISTICS ANALYSIS SUMMARY

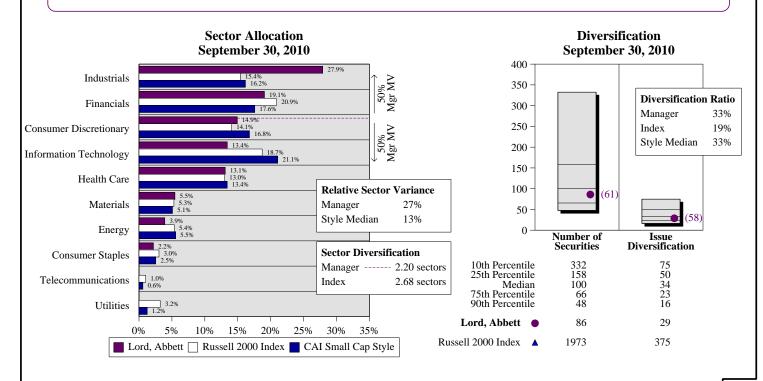
## **Portfolio Characteristics**

This graph compares the manager's portfolio characteristics with the range of characteristics for the portfolios which make up the manager's style group. This analysis illustrates whether the manager's current holdings are consistent with other managers employing the same style.



#### Sector Weights

The graph below contrasts the manager's sector weights with those of the benchmark and median sector weights across the members of the peer group. The magnitude of sector weight differences from the index and the manager's sector diversification are also shown. Diversification by number and concentration of holdings are also compared to the benchmark and peer group. Issue Diversification represents by count, and Diversification Ratio by percent, the number of holdings that comprise half of the portfolio's market value.



## LUTHER KING PERIOD ENDED SEPTEMBER 30, 2010

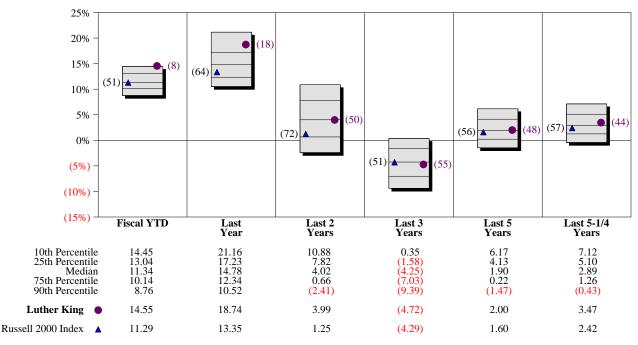
#### **Investment Philosophy**

Luther King's philosophy is based upon the belief that companies which generate a high and/or improving return on invested capital, can provide superior rates of return to shareholders over long periods of time.

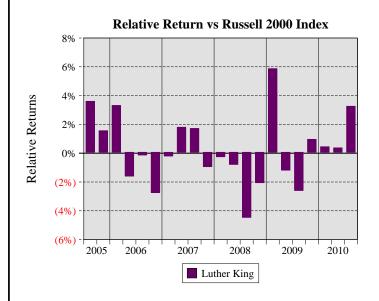
#### **Quarterly Summary and Highlights**

- Luther King's portfolio posted a 14.55% return for the quarter placing it in the 8 percentile of the CAI Small Capitalization Style group for the quarter and in the 18 percentile for the last year.
- Luther King's portfolio outperformed the Russell 2000 Index by 3.26% for the quarter and outperformed the Russell 2000 Index for the year by 5.39%.

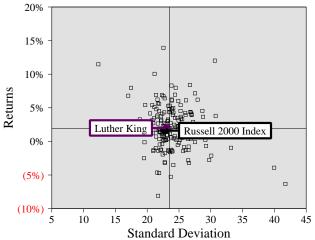
Beginning Market Value	\$86,116,940
Net New Investment	\$0
Investment Gains/(Losses)	\$12,532,528
Ending Market Value	\$98,649,468



## Performance vs CAI Small Capitalization Style (Gross)



#### CAI Small Capitalization Style (Gross) Annualized Five Year Risk vs Return

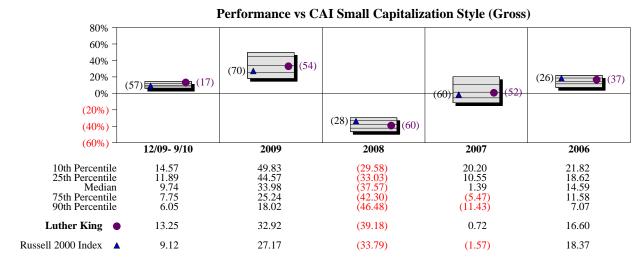


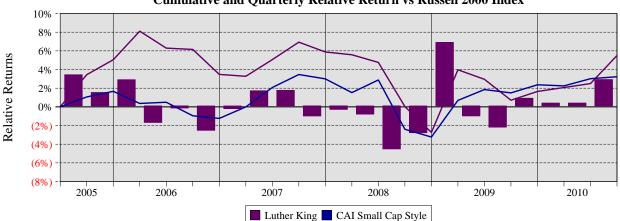
Alaska Retirement Management Board

## LUTHER KING RETURN ANALYSIS SUMMARY

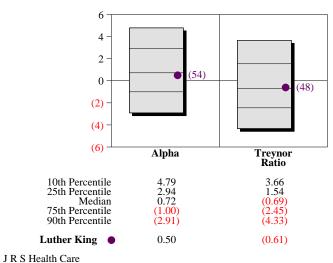
#### **Return Analysis**

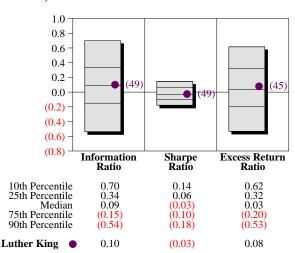
The graphs below analyze the manager's return on both a risk-adjusted and unadjusted basis. The first chart illustrates the manager's ranking over different periods versus the appropriate style group. The second chart shows the historical quarterly and cumulative manager returns versus the appropriate market benchmark. The last two charts illustrate the manager's ranking relative to their style using various risk-adjusted return measures.









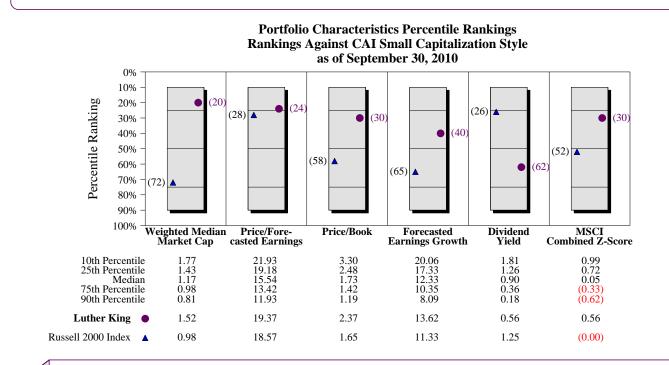


Cumulative and Quarterly Relative Return vs Russell 2000 Index

## LUTHER KING EQUITY CHARACTERISTICS ANALYSIS SUMMARY

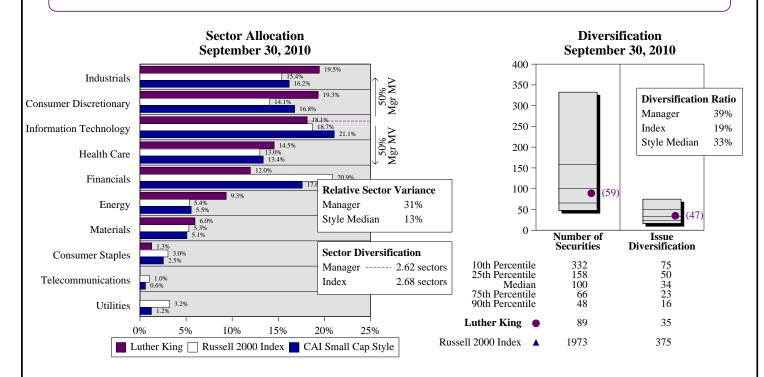
## **Portfolio Characteristics**

This graph compares the manager's portfolio characteristics with the range of characteristics for the portfolios which make up the manager's style group. This analysis illustrates whether the manager's current holdings are consistent with other managers employing the same style.



#### Sector Weights

The graph below contrasts the manager's sector weights with those of the benchmark and median sector weights across the members of the peer group. The magnitude of sector weight differences from the index and the manager's sector diversification are also shown. Diversification by number and concentration of holdings are also compared to the benchmark and peer group. Issue Diversification represents by count, and Diversification Ratio by percent, the number of holdings that comprise half of the portfolio's market value.



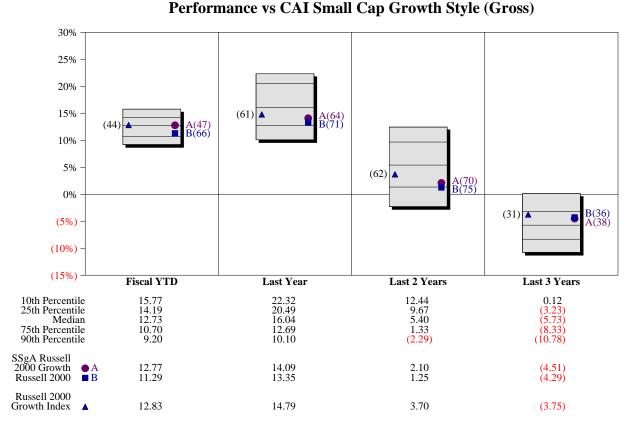
## SSGA RUSSELL 2000 GROWTH PERIOD ENDED SEPTEMBER 30, 2010

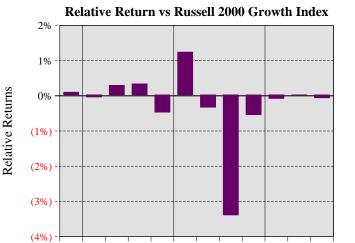
#### **Quarterly Summary and Highlights**

- SSgA Russell 2000 Growth's portfolio posted a 12.77% return for the quarter placing it in the 47 percentile of the CAI Small Cap Growth Style group for the quarter and in the 64 percentile for the last year.
- SSgA Russell 2000 Growth's portfolio underperformed the Russell 2000 Growth Index by 0.06% for the quarter and underperformed the Russell 2000 Growth Index for the year by 0.70%.

## **Quarterly Asset Growth**

Beginning Market Value	\$77,563,375
Net New Investment	\$0
Investment Gains/(Losses)	\$9,907,482
Ending Market Value	\$87,470,857



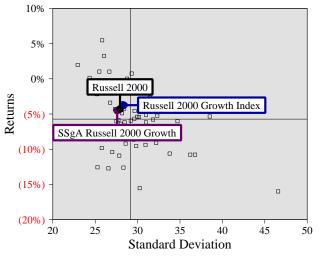


2009

SSgA Russell 2000 Growth

2010

CAI Small Cap Growth Style (Gross) Annualized Three Year Risk vs Return



ning Market Value

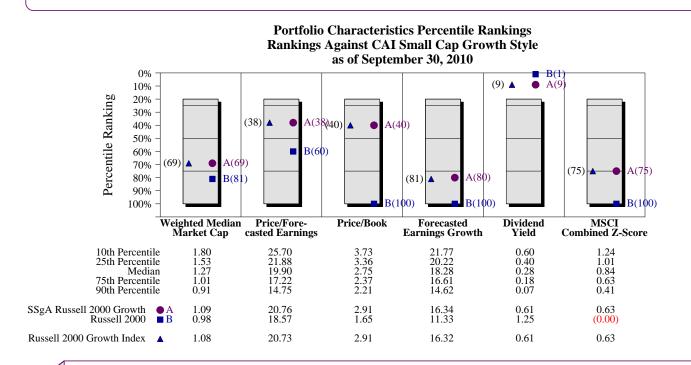
2007

2008

## SSGA RUSSELL 2000 GROWTH EQUITY CHARACTERISTICS ANALYSIS SUMMARY

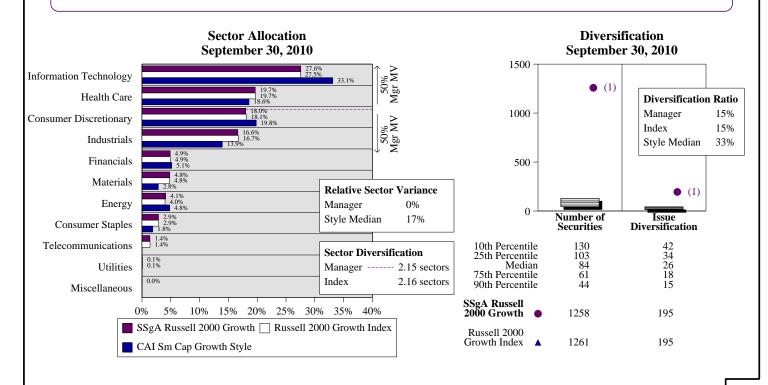
## **Portfolio Characteristics**

This graph compares the manager's portfolio characteristics with the range of characteristics for the portfolios which make up the manager's style group. This analysis illustrates whether the manager's current holdings are consistent with other managers employing the same style.



## Sector Weights

The graph below contrasts the manager's sector weights with those of the benchmark and median sector weights across the members of the peer group. The magnitude of sector weight differences from the index and the manager's sector diversification are also shown. Diversification by number and concentration of holdings are also compared to the benchmark and peer group. Issue Diversification represents by count, and Diversification Ratio by percent, the number of holdings that comprise half of the portfolio's market value.



#### SSGA RUSSELL 2000 VALUE PERIOD ENDED SEPTEMBER 30, 2010

#### **Investment Philosophy**

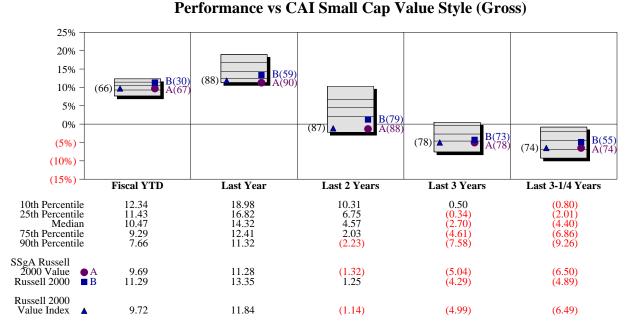
State Street's philosophy is to manage every index portfolio in a manner that ensures the following three objectives: to gain broad-based equity exposure; to attain predictable variance around a given benchmark; and to gain this exposure at the lowest possible cost.

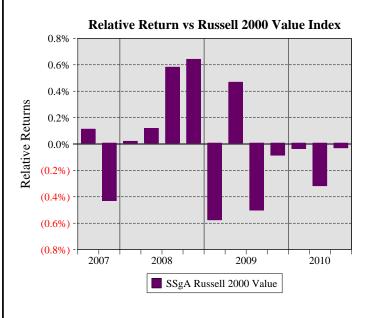
#### **Quarterly Summary and Highlights**

- SSgA Russell 2000 Value's portfolio posted a 9.69% return for the quarter placing it in the 67 percentile of the CAI Small Cap Value Style group for the quarter and in the 90 percentile for the last year.
- SSgA Russell 2000 Value's portfolio underperformed the Russell 2000 Value Index by 0.03% for the quarter and underperformed the Russell 2000 Value Index for the year by 0.55%.

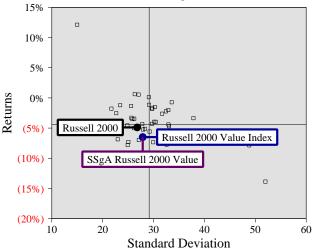
#### **Quarterly Asset Growth**

Beginning Market Value	\$370,651,635
Net New Investment	\$34,960
Investment Gains/(Losses)	\$35,922,164
Ending Market Value	\$406,608,759





CAI Small Cap Value Style (Gross) Annualized Three and One-Quarter Year Risk vs Return

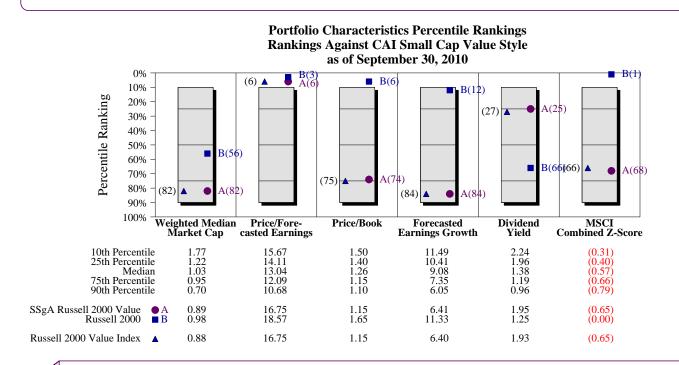


Value Index for the year

## SSGA RUSSELL 2000 VALUE EQUITY CHARACTERISTICS ANALYSIS SUMMARY

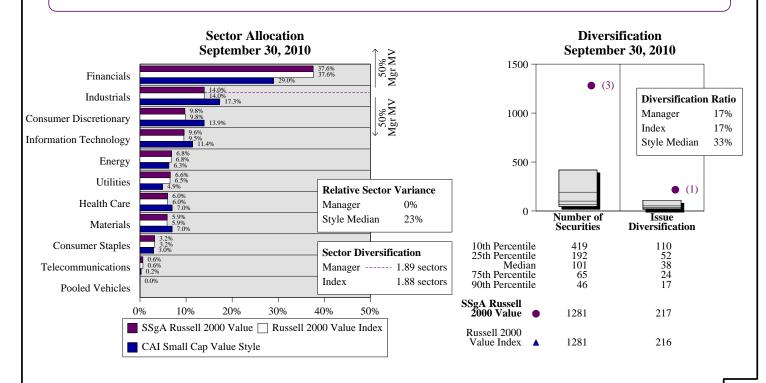
## **Portfolio Characteristics**

This graph compares the manager's portfolio characteristics with the range of characteristics for the portfolios which make up the manager's style group. This analysis illustrates whether the manager's current holdings are consistent with other managers employing the same style.



## Sector Weights

The graph below contrasts the manager's sector weights with those of the benchmark and median sector weights across the members of the peer group. The magnitude of sector weight differences from the index and the manager's sector diversification are also shown. Diversification by number and concentration of holdings are also compared to the benchmark and peer group. Issue Diversification represents by count, and Diversification Ratio by percent, the number of holdings that comprise half of the portfolio's market value.



**Convertible Bonds** 

#### ADVENT CAPITAL PERIOD ENDED SEPTEMBER 30, 2010

#### **Investment Philosophy**

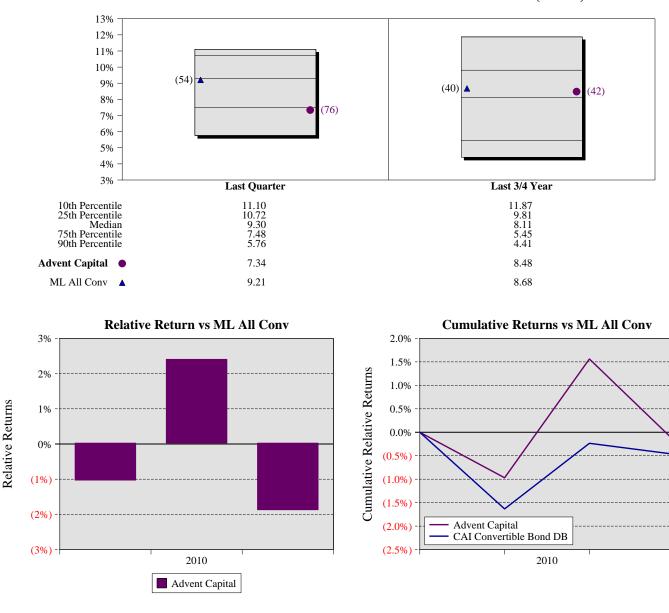
Advent position themselves to be a "Best in Class" Investment Grade Convertible manager by offering a synergistic strategy that provides a risk-adjusted return. They use their research driven approach to invest in a portfolio of attractive investment grade convertible securities with positive asymmetry. Advent's investment philosophy in capital preservation through downside protection has enabled them to build a diversified platform, including a specialty in investment grade convertibles, which are inherently stable and mitigate business risk.

## **Quarterly Summary and Highlights**

- Advent Capital's portfolio posted a 7.34% return for the quarter placing it in the 76 percentile of the CAI Convertible Bonds Database group for the quarter and in the 42 percentile for the last three-quarter year.
- Advent Capital's portfolio underperformed the ML All Conv by 1.87% for the quarter and underperformed the ML All Conv for the three-quarter year by 0.19%.

#### **Quarterly Asset Growth**

Beginning Market Value	\$52,835,525
Net New Investment	\$15,000,000
Investment Gains/(Losses)	\$4,342,324
Ending Market Value	\$72,177,850



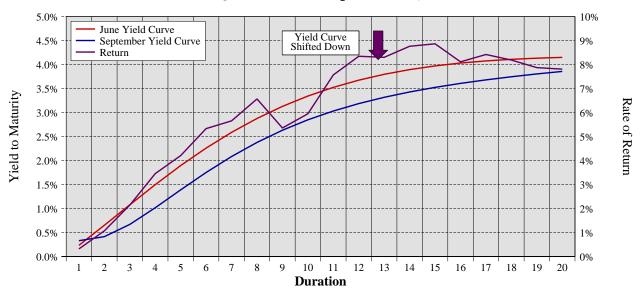
#### Performance vs CAI Convertible Bonds Database (Gross)

Alaska Retirement Management Board

Fixed-Income

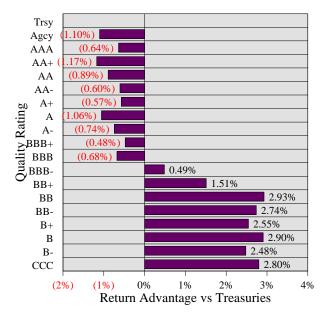
#### **Factors Influencing Bond Returns**

The charts below are designed to give you an overview of the factors that influenced bond market returns for the quarter. The first chart shows the shift in the Treasury yield curve and the resulting returns by duration. The second chart shows the average return premium (relative to Treasuries) for bonds with different quality ratings. The final chart shows the average return premium of the different sectors relative to Treasuries. These sector premiums are calculated after differences in quality and term structure have been accounted for across the sectors. They are typically explained by differences in convexity, sector specific supply and demand considerations, or other factors that influence the perceived risk of the sector.

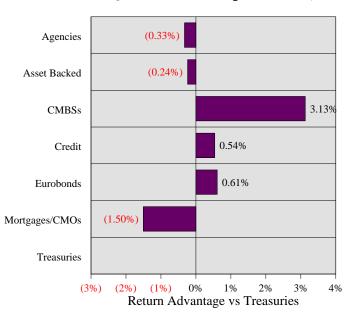


#### Yield Curve Change and Rate of Return One Quarter Ended September 30, 2010

#### Duration Adjusted Return Premium to Quality One Quarter Ended September 30, 2010



#### Quality and Duration Adjusted Return Premium by Sector One Quarter Ended September 30, 2010

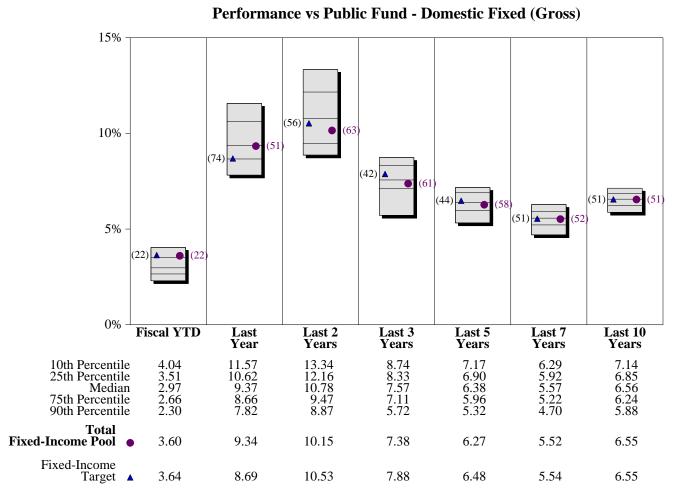


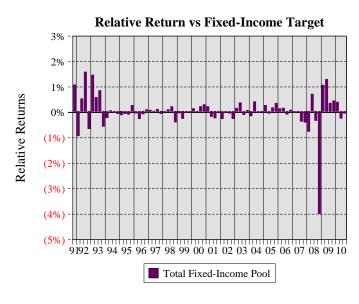
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#### TOTAL FIXED-INCOME PERIOD ENDED SEPTEMBER 30, 2010

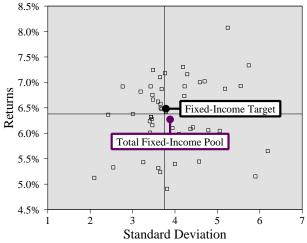
#### **Quarterly Summary and Highlights**

- Total Fixed-Income Pool's portfolio posted a 3.60% return for the quarter placing it in the 22 percentile of the Public Fund Domestic Fixed group for the quarter and in the 51 percentile for the last year.
- Total Fixed-Income Pool's portfolio underperformed the Fixed-Income Target by 0.04% for the quarter and outperformed the Fixed-Income Target for the year by 0.65%.





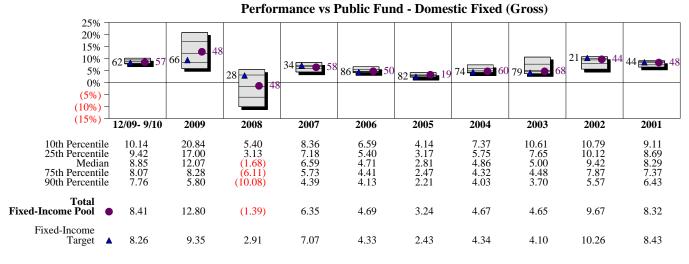
#### Public Fund - Domestic Fixed (Gross) Annualized Five Year Risk vs Return

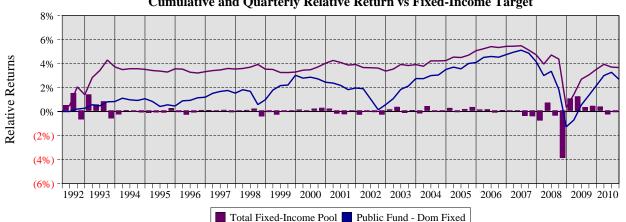


## TOTAL FIXED-INCOME POOL **RETURN ANALYSIS SUMMARY**

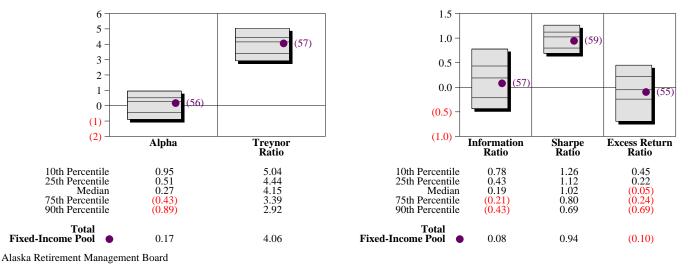
## **Return Analysis**

The graphs below analyze the manager's return on both a risk-adjusted and unadjusted basis. The first chart illustrates the manager's ranking over different periods versus the appropriate style group. The second chart shows the historical quarterly and cumulative manager returns versus the appropriate market benchmark. The last two charts illustrate the manager's ranking relative to their style using various risk-adjusted return measures.







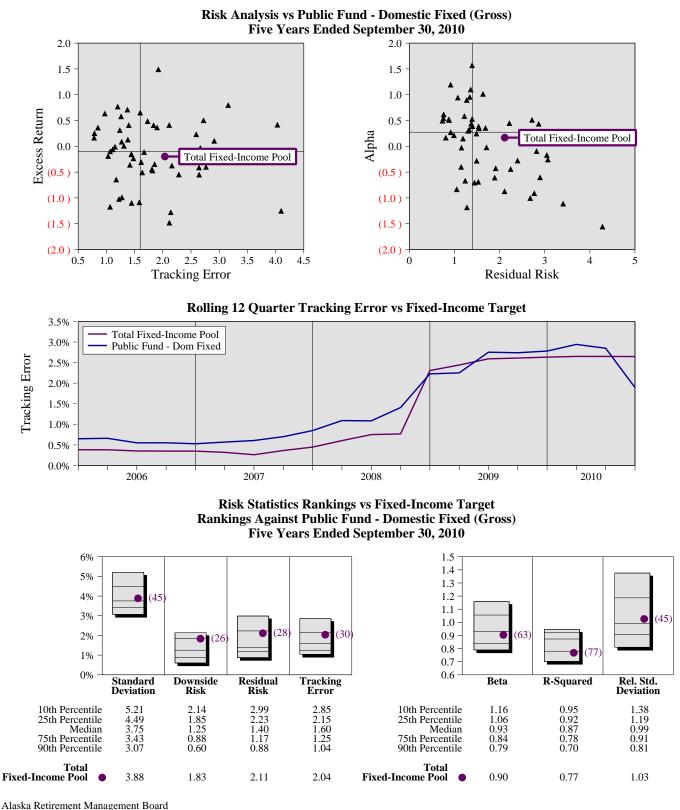


Cumulative and Quarterly Relative Return vs Fixed-Income Target

#### TOTAL FIXED-INCOME POOL RISK ANALYSIS SUMMARY

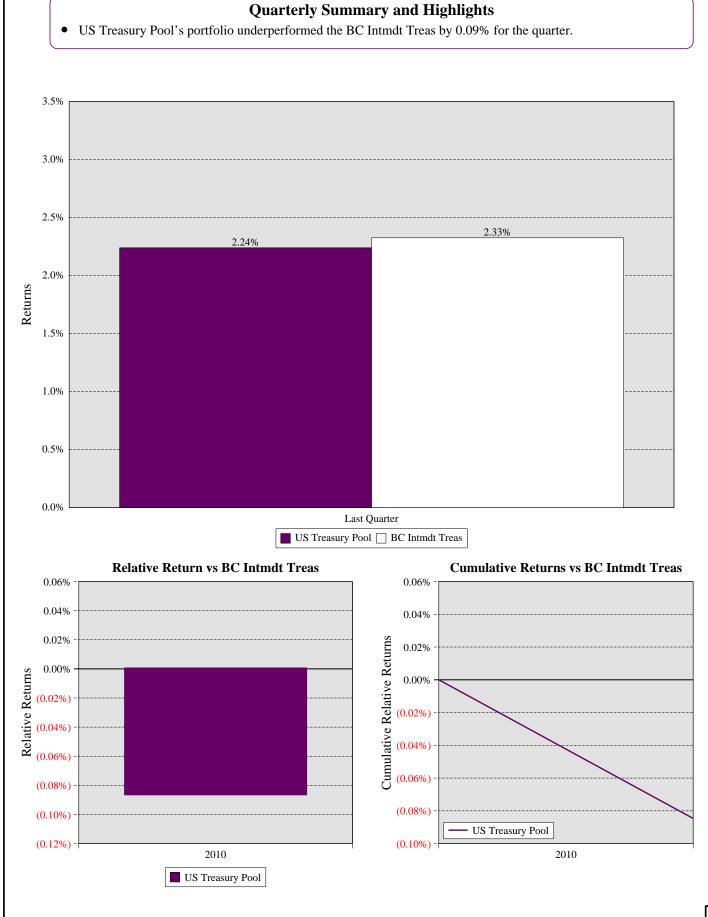
#### **Risk Analysis**

The graphs below analyze the risk or variation of a manager's return pattern. The first scatter chart illustrates the relationship, called Excess Return Ratio, between excess return and tracking error relative to the benchmark. The second scatter chart displays the relationship, sometimes called Information Ratio, between alpha (market-risk or "beta" adjusted return) and residual risk (non-market or "unsystematic" risk). The third chart shows tracking error patterns versus the benchmark over time. The last two charts show the ranking of the manager's risk statistics versus the peer group.



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## US TREASURY POOL PERIOD ENDED SEPTEMBER 30, 2010

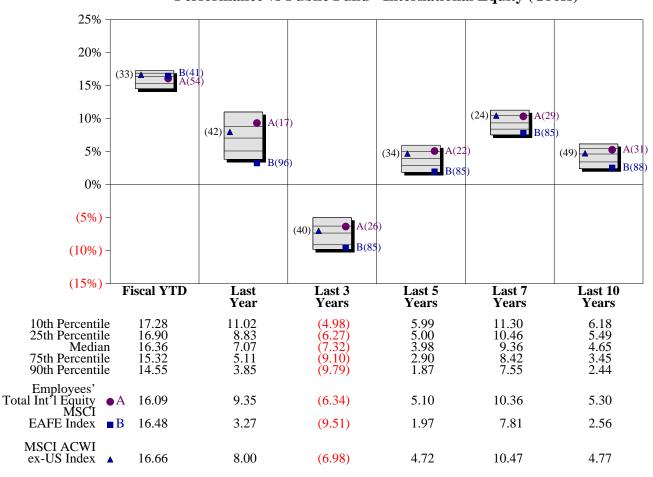


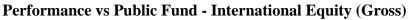
International Equity

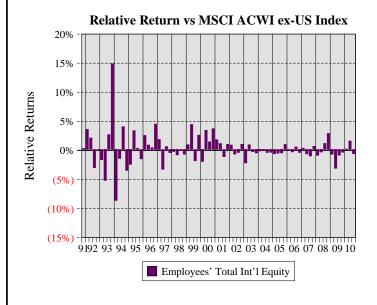
## TOTAL INTERNATIONAL EQUITY PERIOD ENDED SEPTEMBER 30, 2010

#### **Quarterly Summary and Highlights**

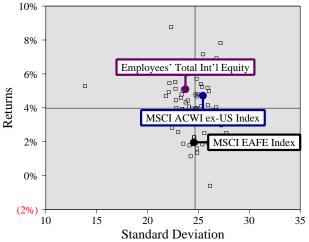
- Employees' Total Int'l Equity's portfolio posted a 16.09% return for the quarter placing it in the 54 percentile of the Public Fund International Equity group for the quarter and in the 17 percentile for the last year.
- Employees' Total Int'l Equity's portfolio underperformed the MSCI ACWI ex-US Index by 0.57% for the quarter and outperformed the MSCI ACWI ex-US Index for the year by 1.35%.







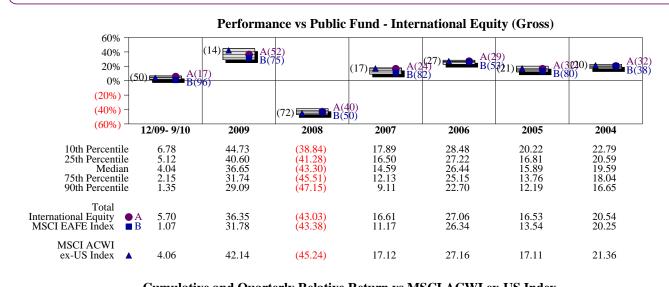
#### Public Fund - International Equity (Gross) Annualized Five Year Risk vs Return

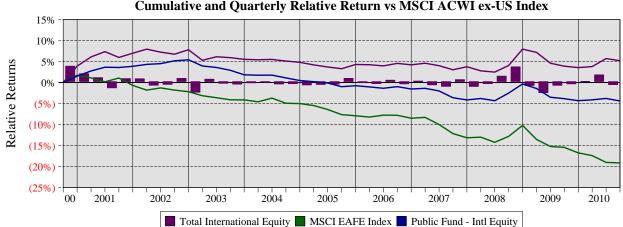


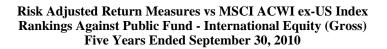
## TOTAL INTERNATIONAL EQUITY RETURN ANALYSIS SUMMARY

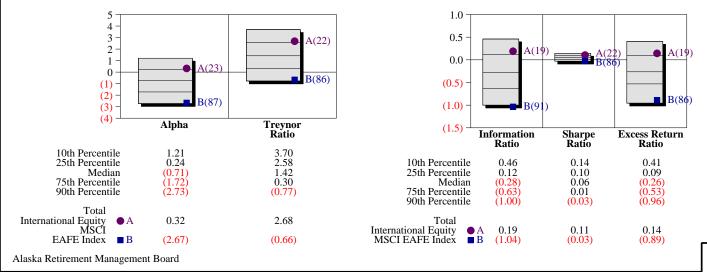
#### **Return Analysis**

The graphs below analyze the manager's return on both a risk-adjusted and unadjusted basis. The first chart illustrates the manager's ranking over different periods versus the appropriate style group. The second chart shows the historical quarterly and cumulative manager returns versus the appropriate market benchmark. The last two charts illustrate the manager's ranking relative to their style using various risk-adjusted return measures.





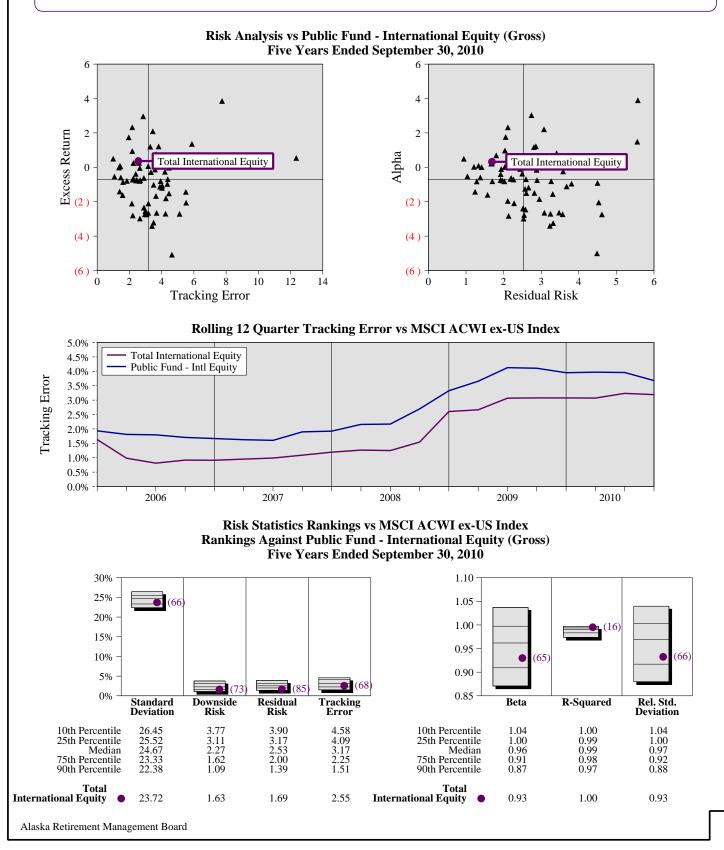




#### TOTAL INTERNATIONAL EQUITY RISK ANALYSIS SUMMARY

#### **Risk Analysis**

The graphs below analyze the risk or variation of a manager's return pattern. The first scatter chart illustrates the relationship, called Excess Return Ratio, between excess return and tracking error relative to the benchmark. The second scatter chart displays the relationship, sometimes called Information Ratio, between alpha (market-risk or "beta" adjusted return) and residual risk (non-market or "unsystematic" risk). The third chart shows tracking error patterns versus the benchmark over time. The last two charts show the ranking of the manager's risk statistics versus the peer group.



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#### INTERNATIONAL EQUITY (EX EMERGING MARKETS) PERIOD ENDED SEPTEMBER 30, 2010

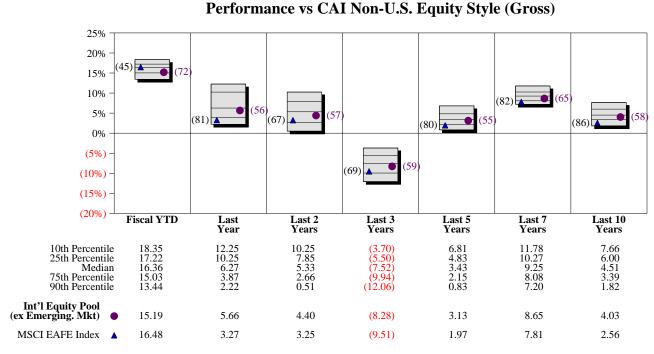
#### **Investment Philosophy**

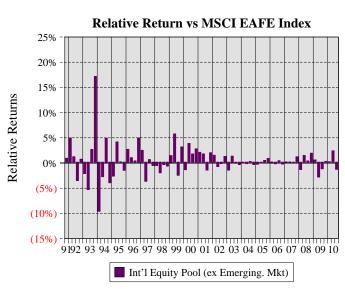
Non-U.S. Equity Style managers invest their assets only in non-U.S. equity securities. This style group excludes regional and index funds.

#### **Quarterly Summary and Highlights**

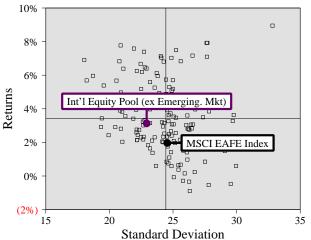
- Int'l Equity Pool (ex Emerging. Mkt)'s portfolio posted a 15.19% return for the quarter placing it in the 72 percentile of the CAI Non-U.S. Equity Style group for the quarter and in the 56 percentile for the last year.
- Int'l Equity Pool (ex Emerging. Mkt)'s portfolio underperformed the MSCI EAFE Index by 1.28% for the quarter and outperformed the MSCI EAFE Index for the year by 2.39%.

Beginning Market Value	\$1,260,768,755
Net New Investment	\$1,367,618
Investment Gains/(Losses)	\$188,432,450
Ending Market Value	\$1,450,568,823





#### CAI Non-U.S. Equity Style (Gross) Annualized Five Year Risk vs Return

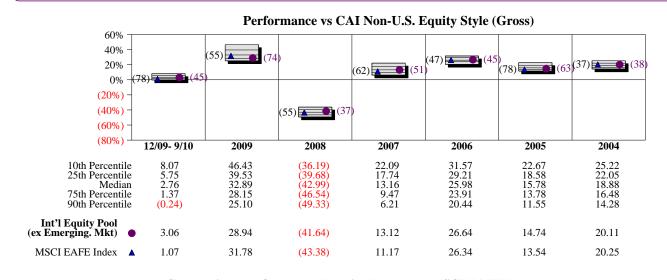


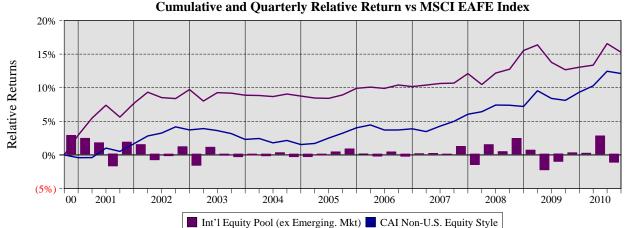
Alaska Retirement Management Board

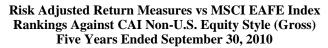
#### INT'L EQUITY POOL (EX EMERGING. MKT) RETURN ANALYSIS SUMMARY

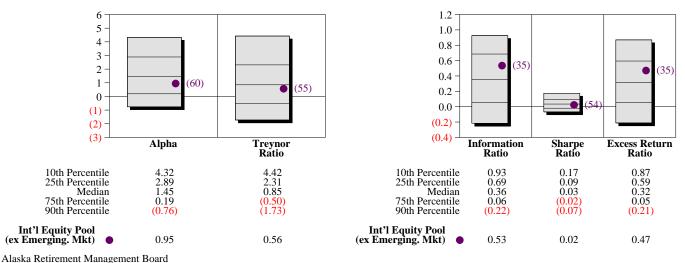
## **Return Analysis**

The graphs below analyze the manager's return on both a risk-adjusted and unadjusted basis. The first chart illustrates the manager's ranking over different periods versus the appropriate style group. The second chart shows the historical quarterly and cumulative manager returns versus the appropriate market benchmark. The last two charts illustrate the manager's ranking relative to their style using various risk-adjusted return measures.









## **BRANDES INVESTMENT PARTNERS PERIOD ENDED SEPTEMBER 30, 2010**

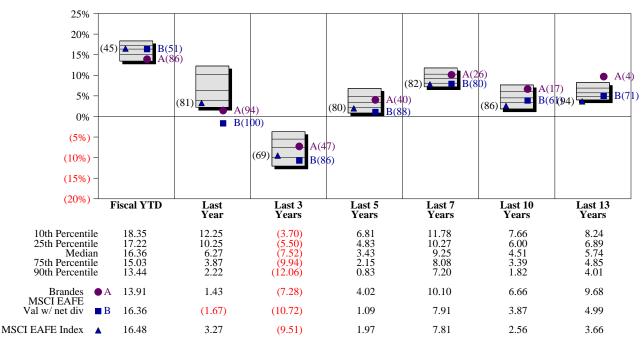
#### **Investment Philosophy**

Brandes employs a bottom-up approach to building international equity portfolios. The firm utilizes fundamental research to select undervalued companies in the developed and emerging markets.

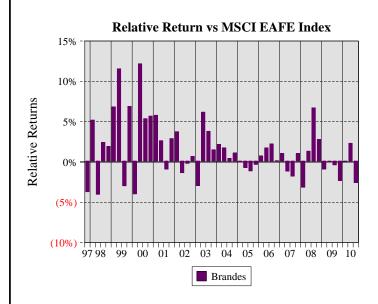
#### **Quarterly Summary and Highlights**

- Brandes's portfolio posted a 13.91% return for the quarter placing it in the 86 percentile of the CAI Non-U.S. Equity Style group for the quarter and in the 94 percentile for the last year.
- Brandes's portfolio underperformed the MSCI EAFE Index by 2.57% for the quarter and underperformed the MSCI EAFE Index for the year by 1.84%.

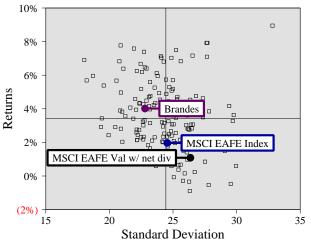
Beginning Market Value	\$735,763,157
Net New Investment	\$34,178
Investment Gains/(Losses)	\$102,320,823
Ending Market Value	\$838,118,159



## Performance vs CAI Non-U.S. Equity Style (Gross)



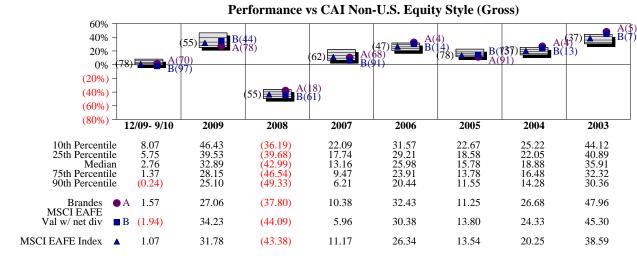
#### CAI Non-U.S. Equity Style (Gross) Annualized Five Year Risk vs Return

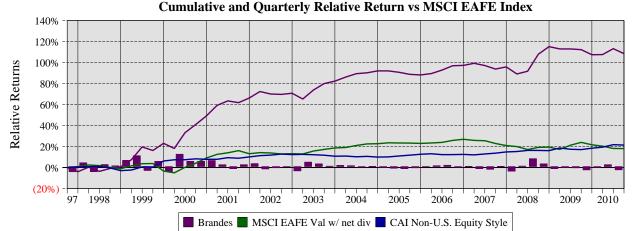


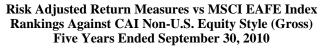
#### BRANDES RETURN ANALYSIS SUMMARY

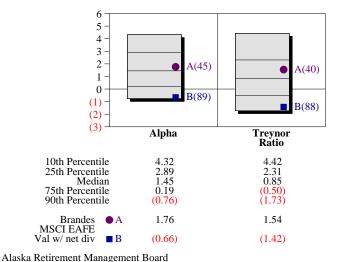
#### **Return Analysis**

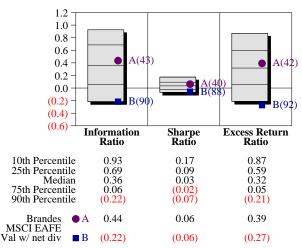
The graphs below analyze the manager's return on both a risk-adjusted and unadjusted basis. The first chart illustrates the manager's ranking over different periods versus the appropriate style group. The second chart shows the historical quarterly and cumulative manager returns versus the appropriate market benchmark. The last two charts illustrate the manager's ranking relative to their style using various risk-adjusted return measures.











## CAPITAL GUARDIAN PERIOD ENDED SEPTEMBER 30, 2010

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#### **Investment Philosophy**

Capital Guardian Trust Company runs their Non-U.S. Equity portfolio with a bottom-up, research driven approach. The firm conducts extensive fundamental research and uses a system of multiple managers to manage individual segments of the portfolios. High-conviction investments and portfolio diversity are the result of each manager and analyst being responsible for investing a portion of the portfolio in his or her highest conviction ideas.

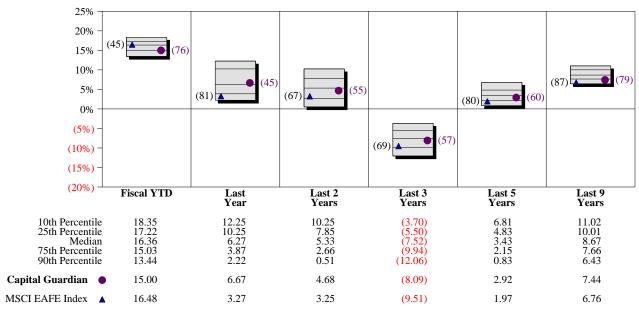
Performance vs CAI Non-U.S. Equity Style (Gross)

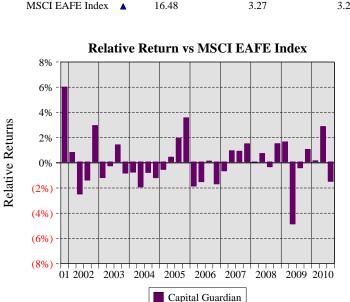
#### **Quarterly Summary and Highlights**

- Capital Guardian's portfolio posted a 15.00% return for the quarter placing it in the 76 percentile of the CAI Non-U.S. Equity Style group for the quarter and in the 45 percentile for the last year.
- Capital Guardian's portfolio underperformed the MSCI EAFE Index by 1.48% for the quarter and outperformed the MSCI EAFE Index for the year by 3.40%.

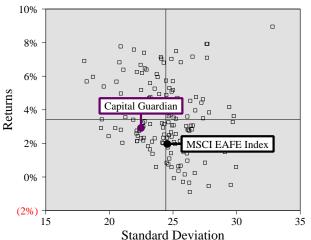
#### **Quarterly Asset Growth**

Beginning Market Value	\$494,014,424
Net New Investment	\$0
Investment Gains/(Losses)	\$74,079,947
Ending Market Value	\$568,094,371





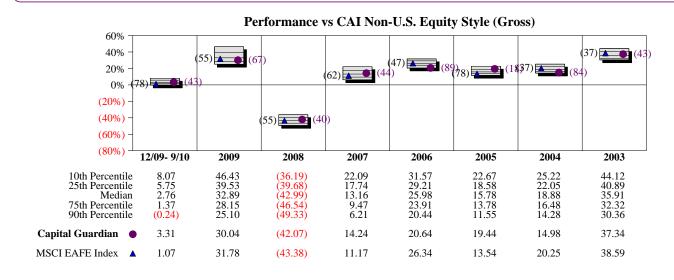
#### CAI Non-U.S. Equity Style (Gross) Annualized Five Year Risk vs Return

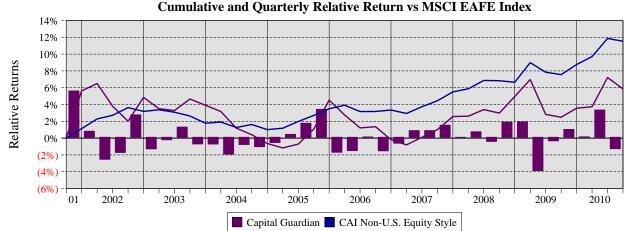


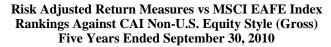
## CAPITAL GUARDIAN RETURN ANALYSIS SUMMARY

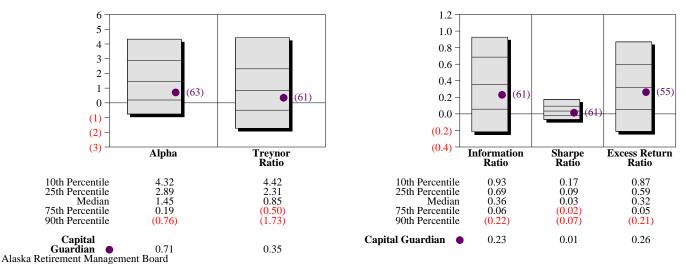
#### **Return Analysis**

The graphs below analyze the manager's return on both a risk-adjusted and unadjusted basis. The first chart illustrates the manager's ranking over different periods versus the appropriate style group. The second chart shows the historical quarterly and cumulative manager returns versus the appropriate market benchmark. The last two charts illustrate the manager's ranking relative to their style using various risk-adjusted return measures.









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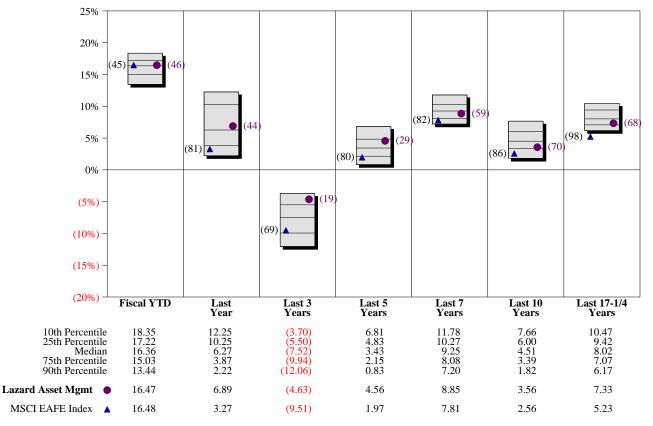
## LAZARD ASSET MANAGEMENT PERIOD ENDED SEPTEMBER 30, 2010

## **Quarterly Summary and Highlights**

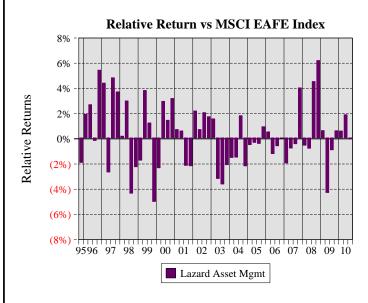
- Lazard Asset Mgmt's portfolio posted a 16.47% return for the quarter placing it in the 46 percentile of the CAI Non-U.S. Equity Style group for the quarter and in the 44 percentile for the last year.
- Lazard Asset Mgmt's portfolio underperformed the MSCI EAFE Index by 0.01% for the quarter and outperformed the MSCI EAFE Index for the year by 3.62%.

#### **Quarterly Asset Growth**

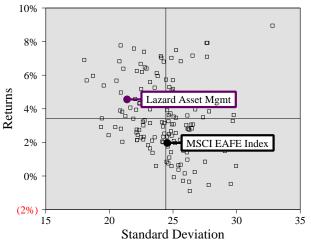
Beginning Market Value	\$283,776,726
Net New Investment	\$90,000,000
Investment Gains/(Losses)	\$46,679,879
Ending Market Value	\$420,456,605



## Performance vs CAI Non-U.S. Equity Style (Gross)



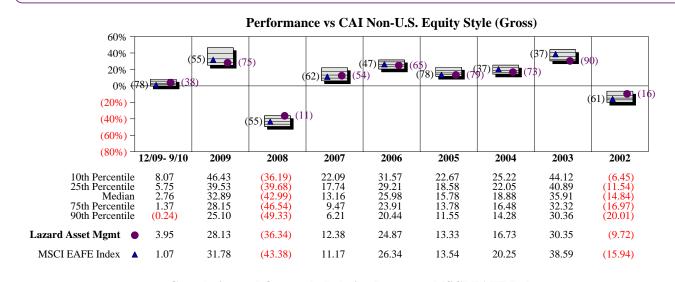
#### CAI Non-U.S. Equity Style (Gross) Annualized Five Year Risk vs Return

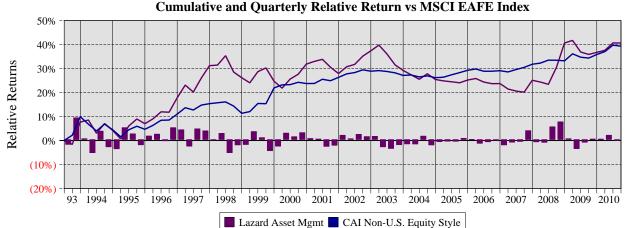


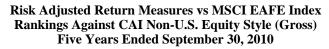
## LAZARD ASSET MANAGEMENT RETURN ANALYSIS SUMMARY

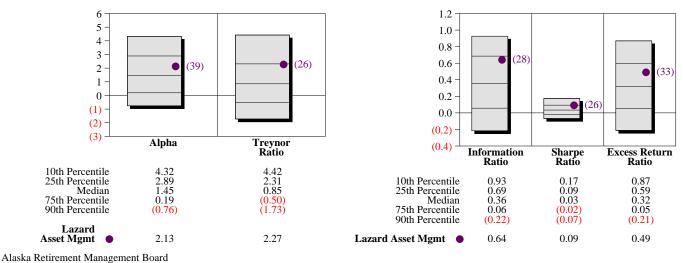
## **Return Analysis**

The graphs below analyze the manager's return on both a risk-adjusted and unadjusted basis. The first chart illustrates the manager's ranking over different periods versus the appropriate style group. The second chart shows the historical quarterly and cumulative manager returns versus the appropriate market benchmark. The last two charts illustrate the manager's ranking relative to their style using various risk-adjusted return measures.









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## MCKINLEY CAPITAL PERIOD ENDED SEPTEMBER 30, 2010

#### **Investment Philosophy**

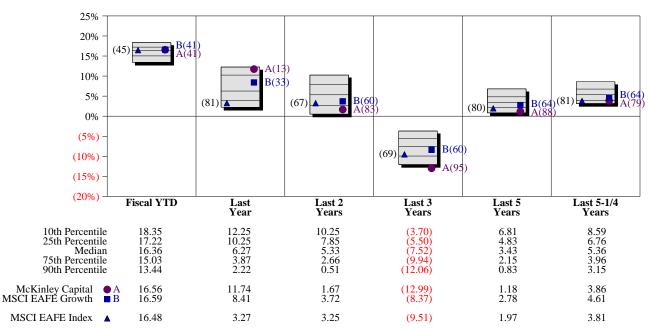
McKinley Capital believes that excess market returns can be achieved through the construction and active management of a diversified portfolio of inefficiently priced common stocks whose earnings growth rates are accelerating above market expectations.

#### **Quarterly Summary and Highlights**

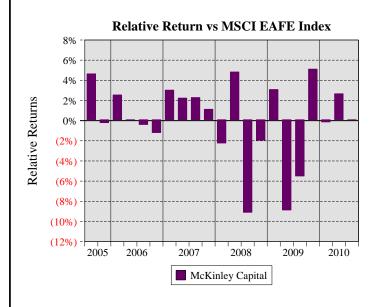
- McKinley Capital's portfolio posted a 16.56% return for the quarter placing it in the 41 percentile of the CAI Non-U.S. Equity Style group for the quarter and in the 13 percentile for the last year.
- McKinley Capital's portfolio outperformed the MSCI EAFE Index by 0.08% for the quarter and outperformed the MSCI EAFE Index for the year by 8.47%.

## Quarterly Asset Growth

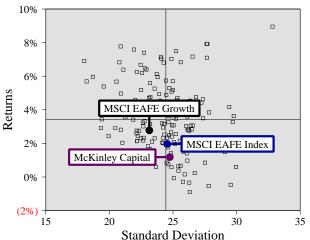
Beginning Market Value	\$283,850,416
Net New Investment	\$0
Investment Gains/(Losses)	\$47,007,507
Ending Market Value	\$330,857,923



#### Performance vs CAI Non-U.S. Equity Style (Gross)



#### CAI Non-U.S. Equity Style (Gross) Annualized Five Year Risk vs Return

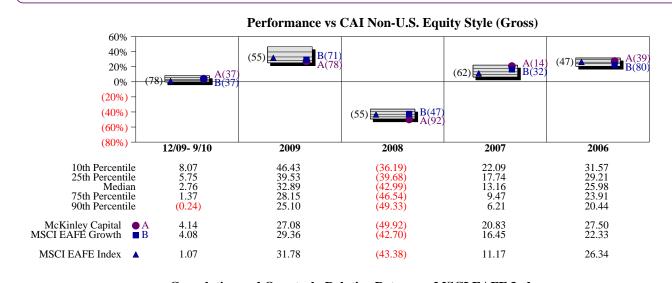


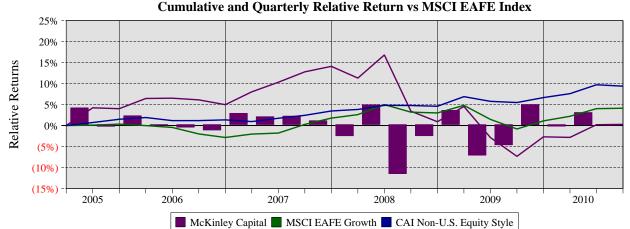
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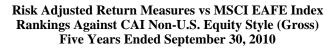
## MCKINLEY CAPITAL RETURN ANALYSIS SUMMARY

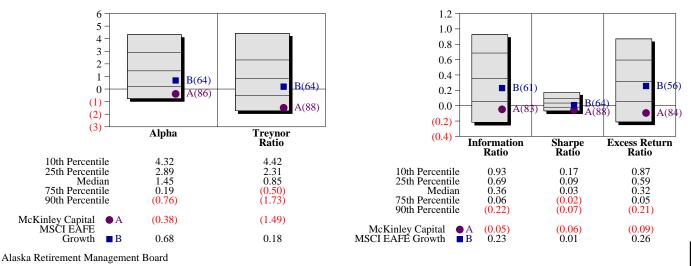
#### **Return Analysis**

The graphs below analyze the manager's return on both a risk-adjusted and unadjusted basis. The first chart illustrates the manager's ranking over different periods versus the appropriate style group. The second chart shows the historical quarterly and cumulative manager returns versus the appropriate market benchmark. The last two charts illustrate the manager's ranking relative to their style using various risk-adjusted return measures.









### SSGA INTL ACWI EX US PERIOD ENDED SEPTEMBER 30, 2010

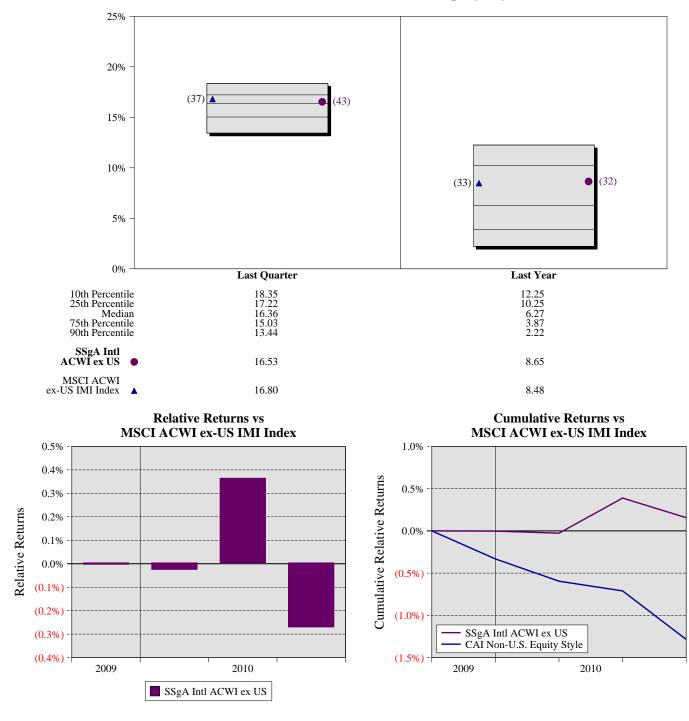
### **Quarterly Summary and Highlights**

- SSgA Intl ACWI ex US's portfolio posted a 16.53% return for the quarter placing it in the 43 percentile of the CAI Non-U.S. Equity Style group for the quarter and in the 32 percentile for the last year.
- SSgA Intl ACWI ex US's portfolio underperformed the MSCI ACWI ex-US IMI Index by 0.27% for the quarter and outperformed the MSCI ACWI ex-US IMI Index for the year by 0.17%.

### **Quarterly Asset Growth**

Beginning Market Value	\$239,109,997
Net New Investment	\$0
Investment Gains/(Losses)	\$39,531,435
Ending Market Value	\$278,641,431

### Performance vs CAI Non-U.S. Equity Style (Gross)



Emerging Markets Managers

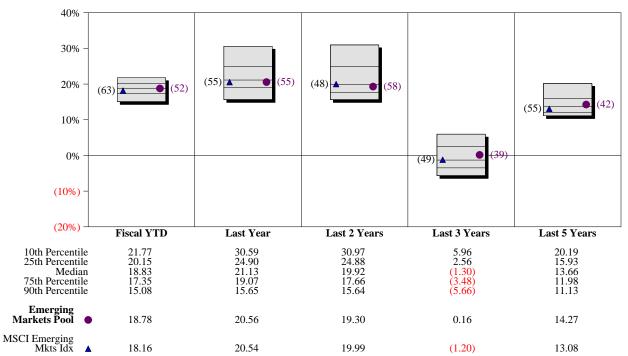
### EMERGING MARKET POOL PERIOD ENDED SEPTEMBER 30, 2010

### **Investment Philosophy**

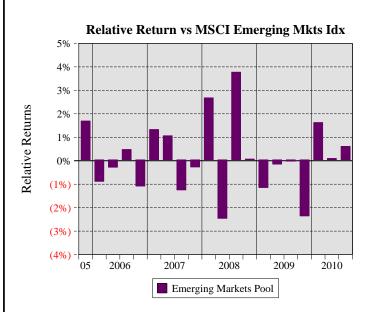
The International Emerging Market Equity Database consists of all separate account international equity products that concentrate on newly emerging second and third world countries in the regions of the Far East, Africa, Europe, and South America.

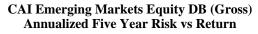
### **Quarterly Summary and Highlights**

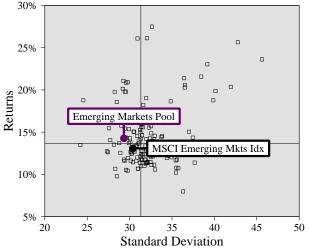
- Emerging Markets Pool's portfolio posted a 18.78% return for the quarter placing it in the 52 percentile of the CAI Emerging Markets Equity DB group for the quarter and in the 55 percentile for the last year.
- Emerging Markets Pool's portfolio outperformed the MSCI Emerging Mkts Idx by 0.61% for the quarter and outperformed the MSCI Emerging Mkts Idx for the year by 0.02%.



## Performance vs CAI Emerging Markets Equity DB (Gross)





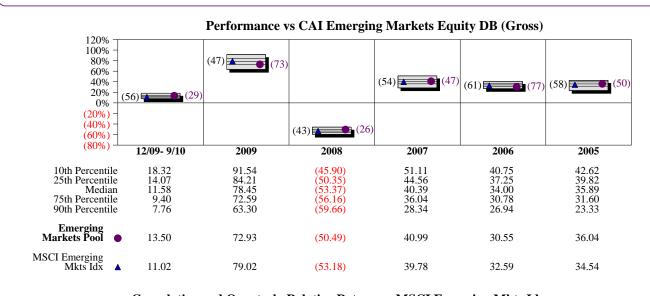


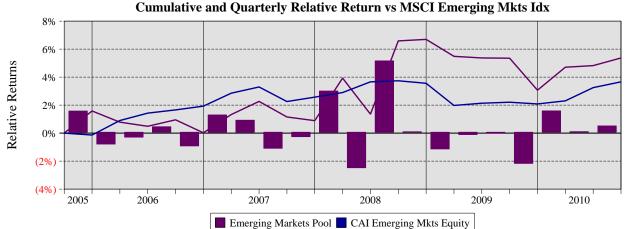
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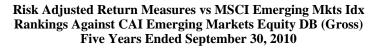
### EMERGING MARKETS POOL RETURN ANALYSIS SUMMARY

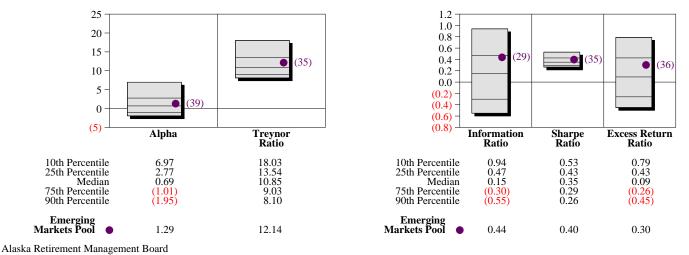
### **Return Analysis**

The graphs below analyze the manager's return on both a risk-adjusted and unadjusted basis. The first chart illustrates the manager's ranking over different periods versus the appropriate style group. The second chart shows the historical quarterly and cumulative manager returns versus the appropriate market benchmark. The last two charts illustrate the manager's ranking relative to their style using various risk-adjusted return measures.









### CAPITAL GUARDIAN TRUST COMPANY PERIOD ENDED SEPTEMBER 30, 2010

### **Investment Philosophy**

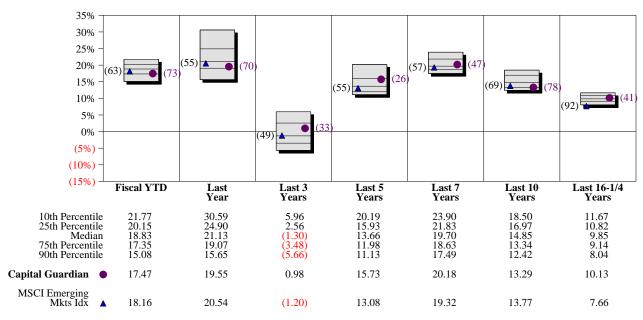
Capital utilizes a multiple portfolio manager system, which enables several key decision-makers to work on each account by dividing the portfolio into smaller segments. Each manager is free to make his or her own decisions as to individual security, country, and industry selection, timing and percentage to be invested for that portion of the assets.

### **Quarterly Summary and Highlights**

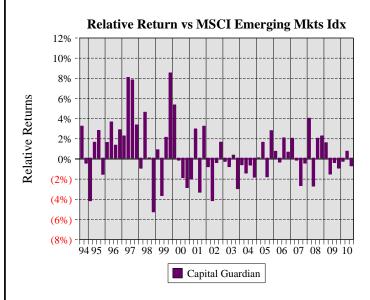
- Capital Guardian's portfolio posted a 17.47% return for the quarter placing it in the 73 percentile of the CAI Emerging Markets Equity DB group for the quarter and in the 70 percentile for the last year.
- Capital Guardian's portfolio underperformed the MSCI Emerging Mkts Idx by 0.69% for the quarter and underperformed the MSCI Emerging Mkts Idx for the year by 0.99%.

### **Quarterly Asset Growth**

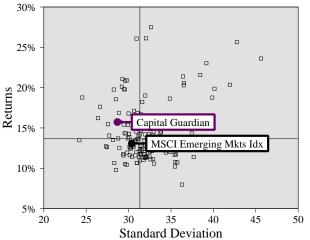
Beginning Market Value	\$361,343,012
Net New Investment	\$0
Investment Gains/(Losses)	\$63,112,802
Ending Market Value	\$424,455,813



### Performance vs CAI Emerging Markets Equity DB (Gross)



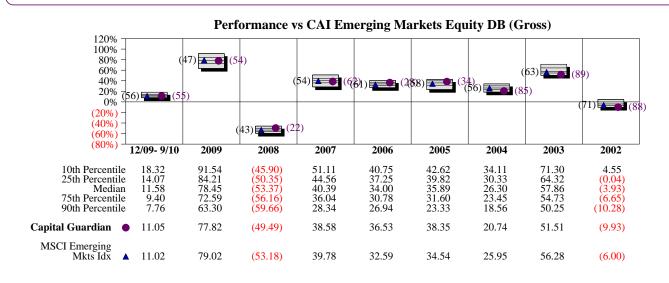
### CAI Emerging Markets Equity DB (Gross) Annualized Five Year Risk vs Return

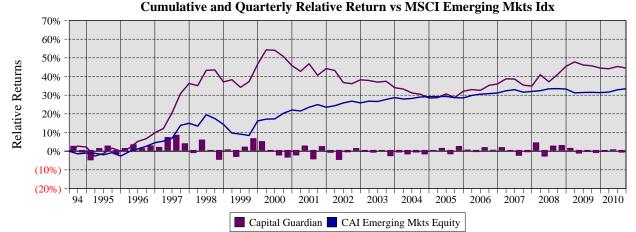


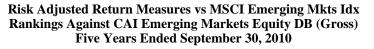
### CAPITAL GUARDIAN TRUST COMPANY RETURN ANALYSIS SUMMARY

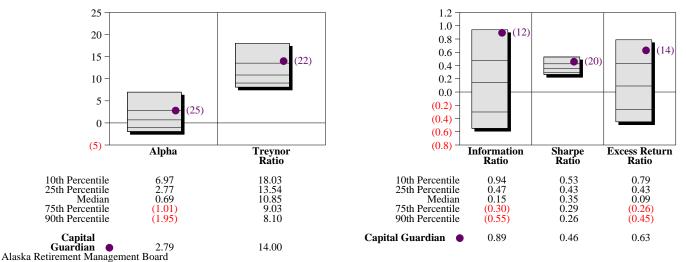
### **Return Analysis**

The graphs below analyze the manager's return on both a risk-adjusted and unadjusted basis. The first chart illustrates the manager's ranking over different periods versus the appropriate style group. The second chart shows the historical quarterly and cumulative manager returns versus the appropriate market benchmark. The last two charts illustrate the manager's ranking relative to their style using various risk-adjusted return measures.









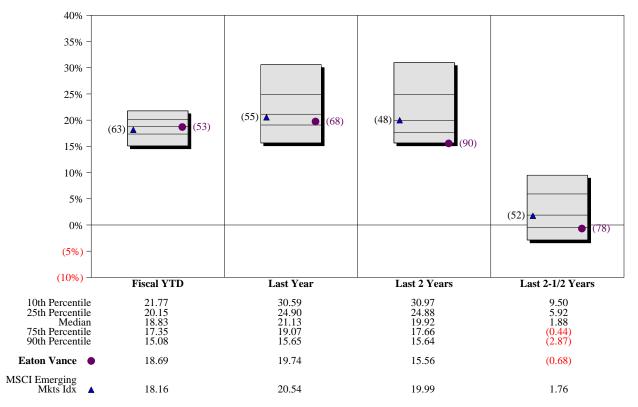
### EATON VANCE **PERIOD ENDED SEPTEMBER 30, 2010**

### **Quarterly Summary and Highlights**

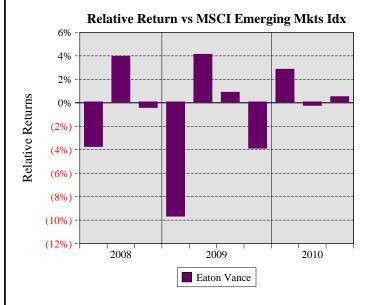
- Eaton Vance's portfolio posted a 18.69% return for the quarter placing it in the 53 percentile of the CAI Emerging Markets Equity DB group for the quarter and in the 68 percentile for the last year.
- Eaton Vance's portfolio outperformed the MSCI ٠ Emerging Mkts Idx by 0.53% for the quarter and underperformed the MSCI Emerging Mkts Idx for the year by 0.81%.

### **Quarterly Asset Growth**

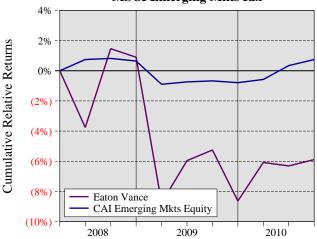
Beginning Market Value	\$177,695,929
Net New Investment	\$0
Investment Gains/(Losses)	\$33,212,883
Ending Market Value	\$210,908,811



### Performance vs CAI Emerging Markets Equity DB (Gross)



### **Cumulative Returns vs MSCI Emerging Mkts Idx**



### LAZARD EMERGING PERIOD ENDED SEPTEMBER 30, 2010

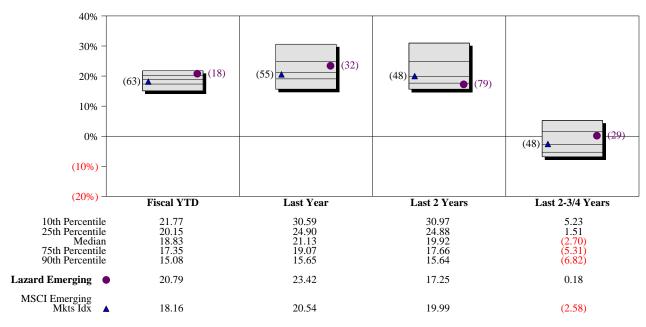
### **Investment Philosophy**

Lazard employs a bottom-up stock selection process focusing on companies which are financially productive yet inexpensively priced.

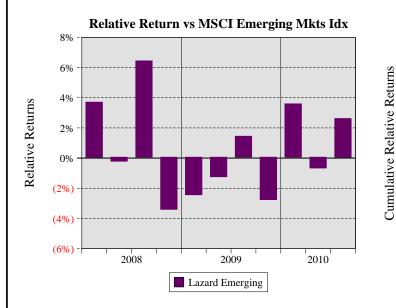
### **Quarterly Summary and Highlights**

- Lazard Emerging's portfolio posted a 20.79% return for the quarter placing it in the 18 percentile of the CAI Emerging Markets Equity DB group for the quarter and in the 32 percentile for the last year.
- Lazard Emerging's portfolio outperformed the MSCI Emerging Mkts Idx by 2.63% for the quarter and outperformed the MSCI Emerging Mkts Idx for the year by 2.87%.

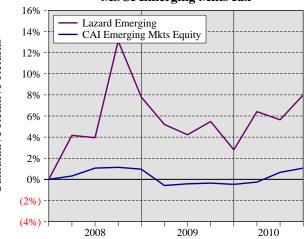
Beginning Market Value	\$240,354,943
Net New Investment	\$0
Investment Gains/(Losses)	\$49,964,235
Ending Market Value	\$290,319,178



### Performance vs CAI Emerging Markets Equity DB (Gross)



### Cumulative Returns vs MSCI Emerging Mkts Idx



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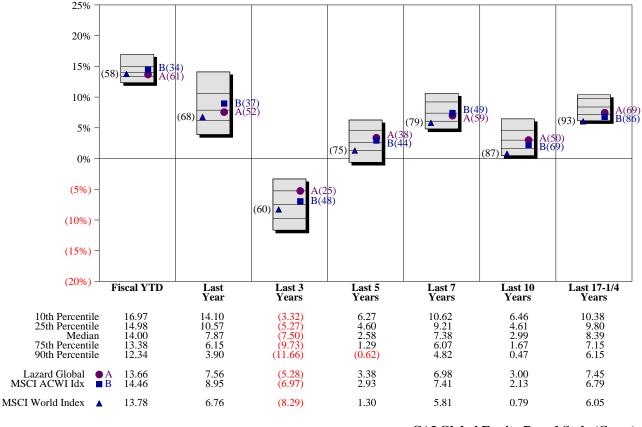
Global Equity Manager

### LAZARD ASSET MANAGEMENT PERIOD ENDED SEPTEMBER 30, 2010

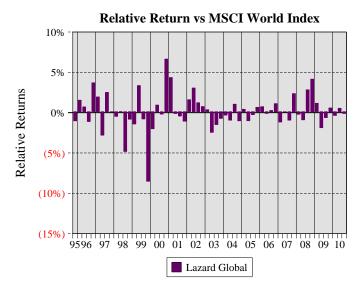
### **Quarterly Summary and Highlights**

- Lazard Global's portfolio posted a 13.66% return for the quarter placing it in the 61 percentile of the CAI Global Equity Broad Style group for the quarter and in the 52 percentile for the last year.
- Lazard Global's portfolio underperformed the MSCI World Index by 0.11% for the quarter and outperformed the MSCI World Index for the year by 0.80%.

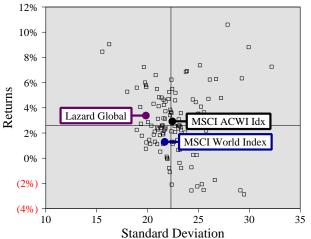
## Quarterly Asset GrowthBeginning Market Value\$555,735,484Net New Investment\$90,000,000Investment Gains/(Losses)\$75,779,879Ending Market Value\$721,515,363



### Performance vs CAI Global Equity Broad Style (Gross)



### CAI Global Equity Broad Style (Gross) Annualized Five Year Risk vs Return



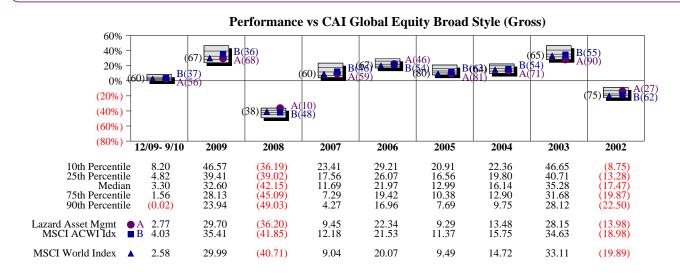
### Alaska Retirement Management Board

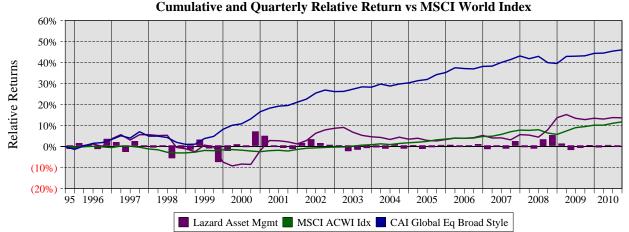
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### LAZARD ASSET MANAGEMENT RETURN ANALYSIS SUMMARY

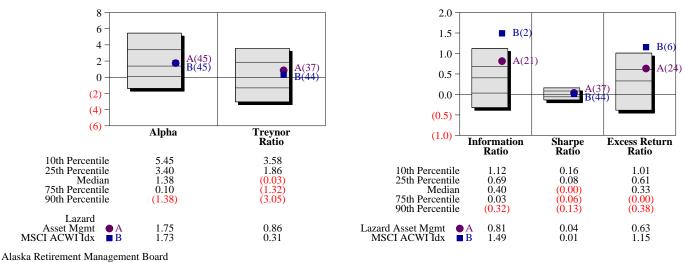
### **Return Analysis**

The graphs below analyze the manager's return on both a risk-adjusted and unadjusted basis. The first chart illustrates the manager's ranking over different periods versus the appropriate style group. The second chart shows the historical quarterly and cumulative manager returns versus the appropriate market benchmark. The last two charts illustrate the manager's ranking relative to their style using various risk-adjusted return measures.









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International Fixed-Income

### MONDRIAN INVESTMENT PARTNERS PERIOD ENDED SEPTEMBER 30, 2010

### **Investment Philosophy**

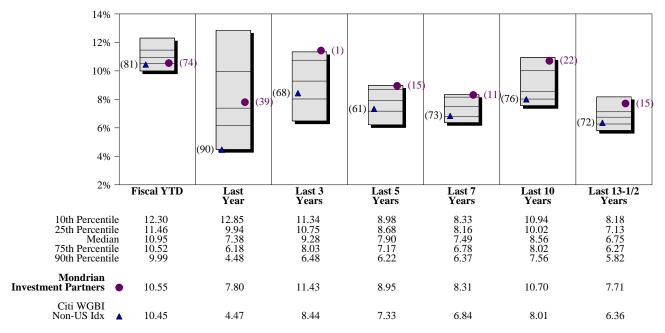
Mondrian Investment Partners attempts to add value through purchasing the sovereign and supranational debt of countries with strong fundamentals and little, if any, default experience.

### **Quarterly Summary and Highlights**

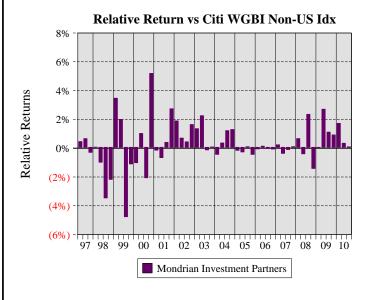
- Mondrian Investment Partners's portfolio posted a 10.55% return for the quarter placing it in the 74 percentile of the CAI Non-U.S. Fixed-Inc Style group for the quarter and in the 39 percentile for the last year.
- Mondrian Investment Partners's portfolio outperformed the Citi WGBI Non-US Idx by 0.10% for the quarter and outperformed the Citi WGBI Non-US Idx for the year by 3.33%.

### Quarterly Asset Growth

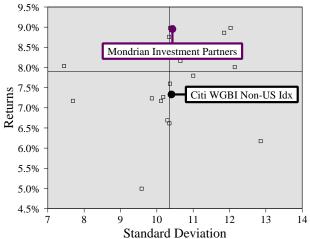
Beginning Market Value	\$199,964,997
Net New Investment	\$30,000,000
Investment Gains/(Losses)	\$22,138,827
Ending Market Value	\$252,103,824



### Performance vs CAI Non-U.S. Fixed-Inc Style (Gross)



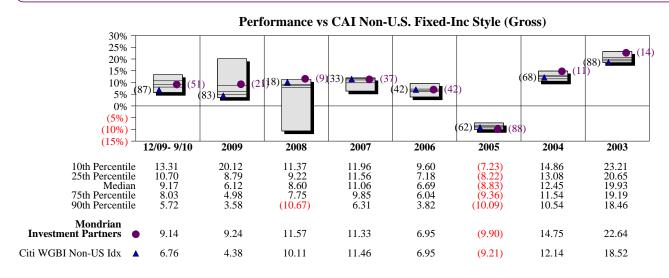
### CAI Non-U.S. Fixed-Inc Style (Gross) Annualized Five Year Risk vs Return



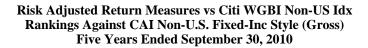
### MONDRIAN INVESTMENT PARTNERS **RETURN ANALYSIS SUMMARY**

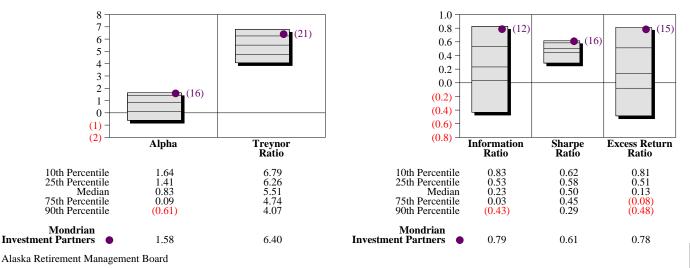
### **Return Analysis**

The graphs below analyze the manager's return on both a risk-adjusted and unadjusted basis. The first chart illustrates the manager's ranking over different periods versus the appropriate style group. The second chart shows the historical quarterly and cumulative manager returns versus the appropriate market benchmark. The last two charts illustrate the manager's ranking relative to their style using various risk-adjusted return measures.









### Cumulative and Quarterly Relative Return vs Citi WGBI Non-US Idx

### LAZARD EMERGING PERIOD ENDED SEPTEMBER 30, 2010

### **Investment Philosophy**

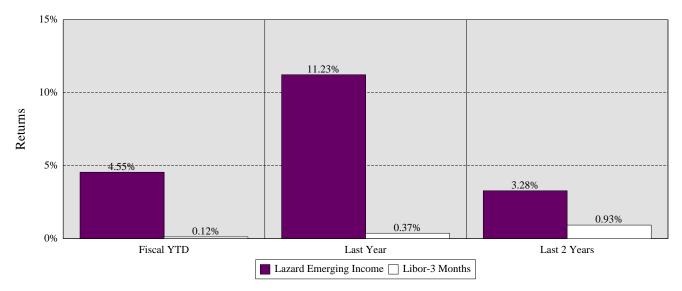
Lazard's Emerging Markets - Local Currency Debt strategy invests in short and intermediate-term fixed income securities from emerging market countries world-wide. These securities are denominated in the local currency and have short durations.

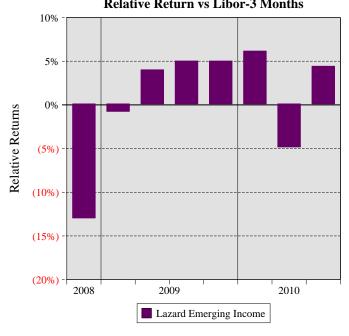
### **Quarterly Summary and Highlights**

- Lazard Emerging Income's portfolio posted a 4.55% return for the quarter placing it in the 100 percentile of the CAI Non-U.S. Fixed-Inc Style group for the quarter and in the 18 percentile for the last year.
- Lazard Emerging Income's portfolio outperformed the ٠ Libor-3 Months by 4.43% for the quarter and outperformed the Libor-3 Months for the year by 10.86%.

### **Quarterly Asset Growth**

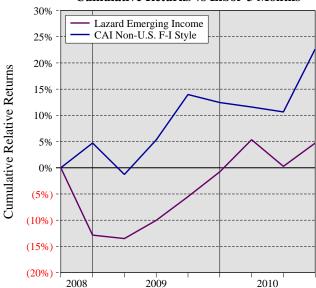
Beginning Market Value	\$87,327,312
Net New Investment	\$0
Investment Gains/(Losses)	\$3,974,243
Ending Market Value	\$91,301,555





**Relative Return vs Libor-3 Months** 

### **Cumulative Returns vs Libor-3 Months**



Alaska Retirement Management Board

**Real Estate** 

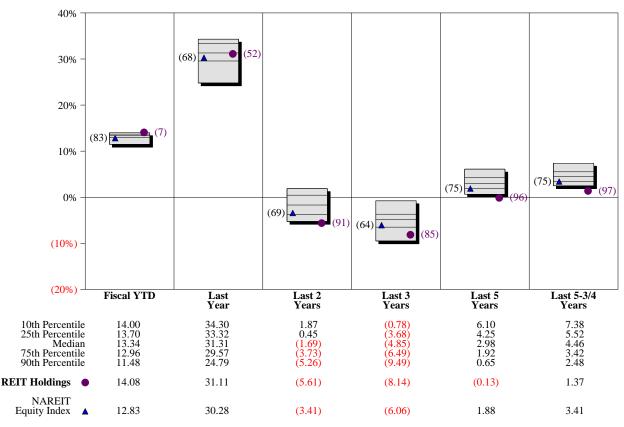
### **REIT HOLDINGS PERIOD ENDED SEPTEMBER 30, 2010**

### **Quarterly Summary and Highlights**

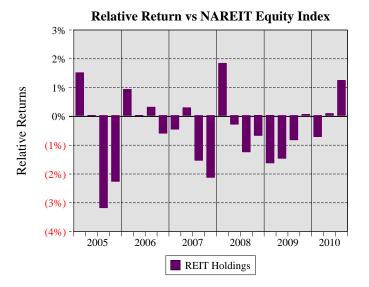
- REIT Holdings's portfolio posted a 14.08% return for the quarter placing it in the 7 percentile of the CAI Real Estate-REIT DB group for the quarter and in the 52 percentile for the last year.
- REIT Holdings's portfolio outperformed the NAREIT Equity Index by 1.25% for the quarter and outperformed the NAREIT Equity Index for the year by 0.83%.

### **Quarterly Asset Growth**

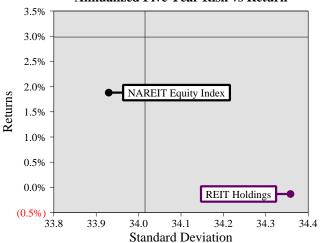
Beginning Market Value	\$52,262,376
Net New Investment	\$50,000,000
Investment Gains/(Losses)	\$8,713,597
Ending Market Value	\$110,975,973



### Performance vs CAI Real Estate-REIT DB (Gross)



### CAI Real Estate-REIT DB (Gross) Annualized Five Year Risk vs Return

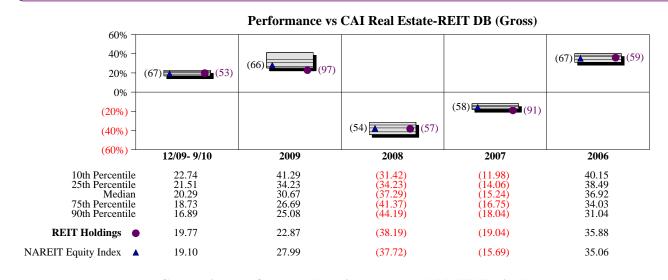


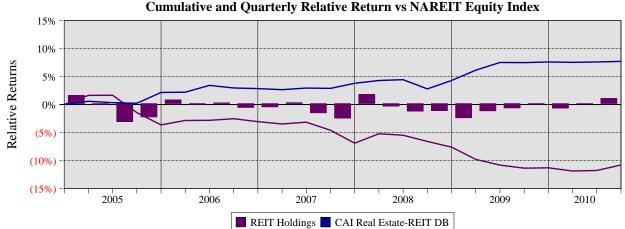
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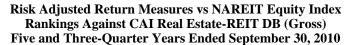
### REIT HOLDINGS RETURN ANALYSIS SUMMARY

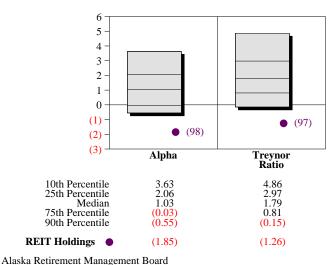
### **Return Analysis**

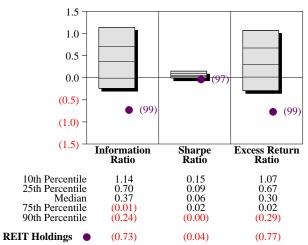
The graphs below analyze the manager's return on both a risk-adjusted and unadjusted basis. The first chart illustrates the manager's ranking over different periods versus the appropriate style group. The second chart shows the historical quarterly and cumulative manager returns versus the appropriate market benchmark. The last two charts illustrate the manager's ranking relative to their style using various risk-adjusted return measures.











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### ALASKA RETIREMENT MANAGEMENT BOARD TOP 10 PORTFOLIO HOLDINGS CHARACTERISTICS REIT HOLDINGS AS OF SEPTEMBER 30, 2010

10 Largest Holdings								
Stock	Sector	Ending Market Value	Percent of Portfolio	Qtrly Return	Market Capital	Price/ Forecasted Earnings Ratio	-	Forecasted Growth in Earnings
Simon Property Group	Financials	\$10,136,575	9.2%	16.59%	27.15	41.22	2.59%	2.00%
Vornado Realty Trust	Financials	\$5,864,535	5.3%	18.98%	15.56	150.05	3.04%	5.50%
Equity Residential	Financials	\$5,054,312	4.6%	16.63%	13.46	103.41	2.84%	5.00%
Public Storage	Financials	\$4,668,594	4.2%	12.09%	16.48	36.48	3.30%	35.00%
Boston Properties	Financials	\$4,340,527	3.9%	18.11%	11.56	52.28	2.41%	3.00%
Hcp Inc	Financials	\$3,974,711	3.6%	13.71%	10.58	31.84	5.17%	(2.21)%
Host Hotels & Resorts Inc	Financials	\$3,814,727	3.5%	8.76%	9.14	(362.00)	0.28%	(30.29)%
Avalonbay Communities	Financials	\$3,251,138	2.9%	13.50%	8.62	63.37	3.44%	14.60%
Ventas	Financials	\$3,042,114	2.8%	12.17%	8.09	32.43	4.15%	3.00%
Kimco Rlty Corp	Financials	\$2,385,023	2.2%	17.99%	6.39	56.25	4.06%	1.50%

10 Best Performers								
Stock	Sector	Ending Market Value	Percent of Portfolio	Qtrly Return	Market Capital	Price/ Forecasted Earnings Ratio		Forecasted Growth in Earnings
Douglas Emmett Inc	Financials	\$595,515	0.5%	25.27%	2.14	(72.96)	2.28%	5.50%
Post Properties	Financials	\$507,586	0.5%	24.69%	1.36	(66.48)	2.87%	(26.39)%
Lexington Realty Trust	Financials	\$358,072	0.3%	22.90%	0.96	(29.83)	5.59%	(78.68)%
Getty Rlty Corp New	Financials	\$220,274	0.2%	22.43%	0.79	15.51	7.16%	(0.25)%
Sun Communities Inc	Financials	\$217,970	0.2%	22.13%	0.58	(279.09)	8.21%	(49.32)%
Taubman Centers	Financials	\$902,906	0.8%	20.67%	2.43	43.31	3.72%	3.00%
Senior Hsg Pptys Tr Sh Ben Int	Financials	\$1,115,545	1.0%	19.94%	2.99	21.96	6.13%	11.70%
Highwoods Properties	Financials	\$869,222	0.8%	19.88%	2.32	(649.40)	5.24%	-
Prologis	Financials	\$2,101,081	1.9%	19.83%	5.61	(39.27)	5.09%	36.00%
National Retail Properties I	Financials	\$782,177	0.7%	19.77%	2.09	26.71	6.05%	(6.95)%

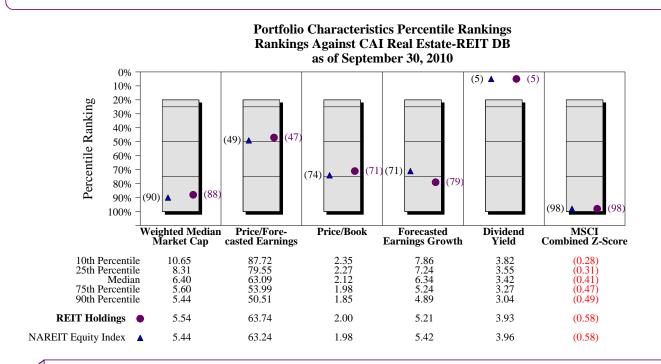
10 Worst Performers								
Stock	Sector	Ending Market Value	Percent of Portfolio	Qtrly Return	Market Capital	Price/ Forecasted Earnings Ratio		Forecasted Growth in Earnings
Sunstone Hotel Invs Inc New	Financials	\$357,902	0.3%	(7.17)%	0.89	(50.39)	0.00%	0.00%
Strategic Hotels & Resorts I	Financials	\$257,834	0.2%	(3.21)%	0.60	(3.66)	0.00%	5.00%
Investors Real Estate Tr Sh Ben Int	Financials	\$232,461	0.2%	(2.99)%	0.63	119.71	8.19%	(18.77)%
Potlatch Corp	Financials	\$505,240	0.5%	(1.73)%	1.36	22.97	6.00%	2.50%
Corporate Office Pptys Tr Sh Ben Int	Financials	\$821,939	0.7%	0.56%	2.20	38.46	4.42%	4.00%
Pennsylvania Rl Estate Invt Sh Ben I	Financials	\$245,265	0.2%	1.02%	0.64	(8.41)	5.06%	1.00%
Ps Business Pks Inc Calif	Financials	\$386,939	0.4%	2.41%	1.39	28.43	3.11%	28.65%
Piedmont Office Realty Tr In Com Cl	Financials	\$447,032	0.4%	2.94%	1.01	27.41	6.66%	-
duPont Fabros Technology Inc	Financials	\$554,306	0.5%	3.49%	1.44	23.73	1.91%	11.50%
Plum Creek Timber Co Inc	Financials	\$2,166,361	2.0%	4.23%	5.75	22.63	4.76%	2.50%

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### REIT HOLDINGS EQUITY CHARACTERISTICS ANALYSIS SUMMARY

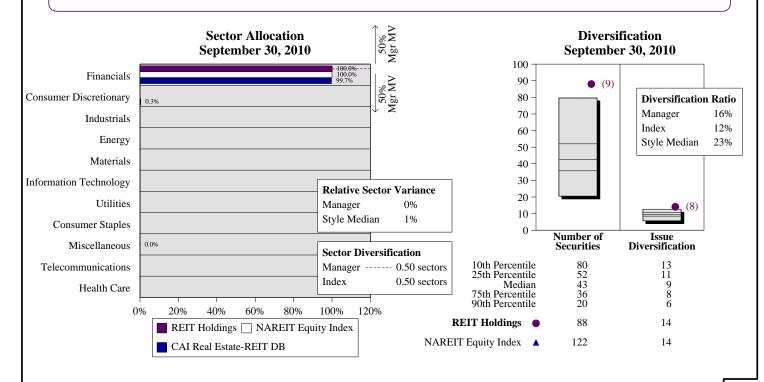
### **Portfolio Characteristics**

This graph compares the manager's portfolio characteristics with the range of characteristics for the portfolios which make up the manager's style group. This analysis illustrates whether the manager's current holdings are consistent with other managers employing the same style.



### Sector Weights

The graph below contrasts the manager's sector weights with those of the benchmark and median sector weights across the members of the peer group. The magnitude of sector weight differences from the index and the manager's sector diversification are also shown. Diversification by number and concentration of holdings are also compared to the benchmark and peer group. Issue Diversification represents by count, and Diversification Ratio by percent, the number of holdings that comprise half of the portfolio's market value.



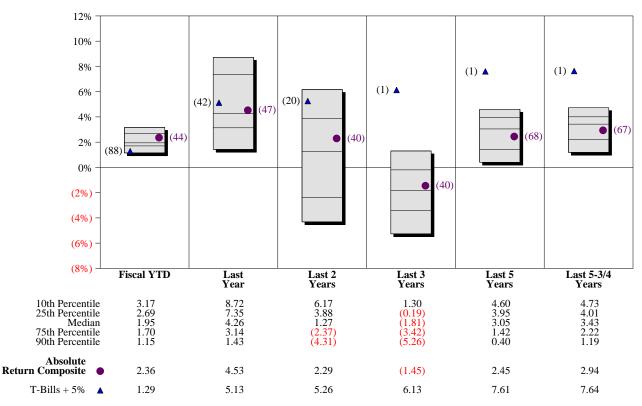
### ABSOLUTE RETURN COMPOSITE PERIOD ENDED SEPTEMBER 30, 2010

### **Investment Philosophy**

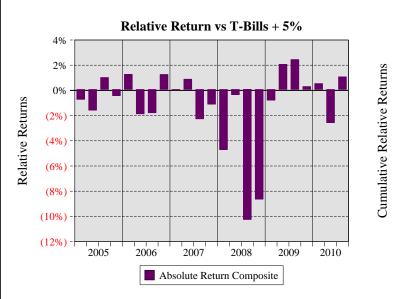
The manager returns below are current through the periods shown.

### **Quarterly Summary and Highlights**

- Absolute Return Composite's portfolio posted a 2.36% return for the quarter placing it in the 44 percentile of the Absolute Return Hedge FoFs Style group for the quarter and in the 47 percentile for the last year.
- Absolute Return Composite's portfolio outperformed the T-Bills + 5% by 1.07% for the quarter and underperformed the T-Bills + 5% for the year by 0.60%.



### Performance vs Absolute Return Hedge FoFs Style (Net)



# Cumulative Returns vs T-Bills + 5%

2007

2008

2009

2010

Absolute Rtn FoFs

2006

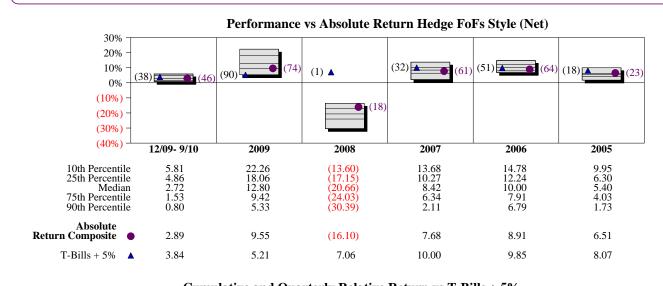
(40%) -

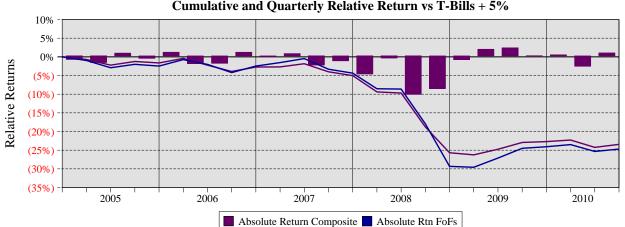
2005

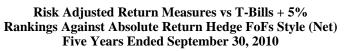
### ABSOLUTE RETURN COMPOSITE RETURN ANALYSIS SUMMARY

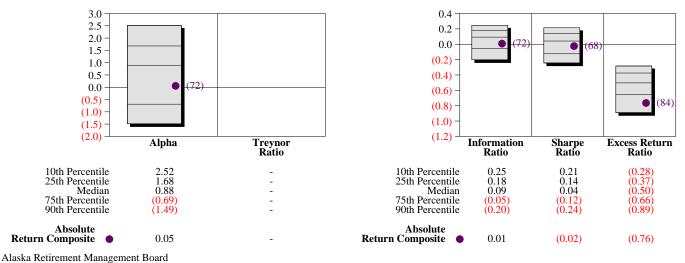
### **Return Analysis**

The graphs below analyze the manager's return on both a risk-adjusted and unadjusted basis. The first chart illustrates the manager's ranking over different periods versus the appropriate style group. The second chart shows the historical quarterly and cumulative manager returns versus the appropriate market benchmark. The last two charts illustrate the manager's ranking relative to their style using various risk-adjusted return measures.









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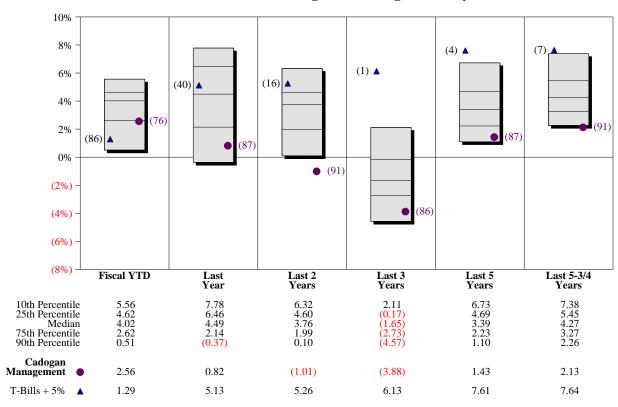
### CADOGAN MANAGEMENT PERIOD ENDED SEPTEMBER 30, 2010

### **Investment Philosophy**

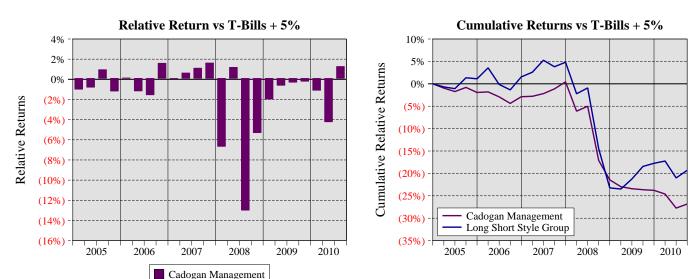
The manager returns below are current through periods shown.

### **Quarterly Summary and Highlights**

- Cadogan Management's portfolio posted a 2.56% return for the quarter placing it in the 76 percentile of the Long Short Hedge FoF Style group for the quarter and in the 87 percentile for the last year.
- Cadogan Management's portfolio outperformed the T-Bills + 5% by 1.28% for the quarter and underperformed the T-Bills + 5% for the year by 4.31%.



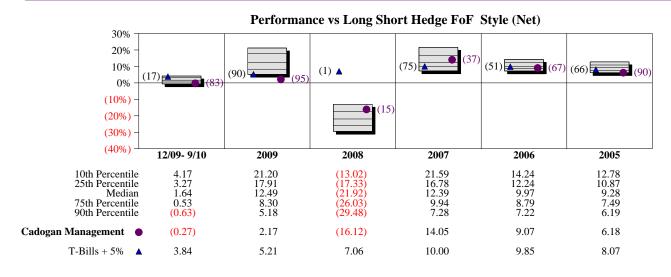
### Performance vs Long Short Hedge FoF Style (Net)

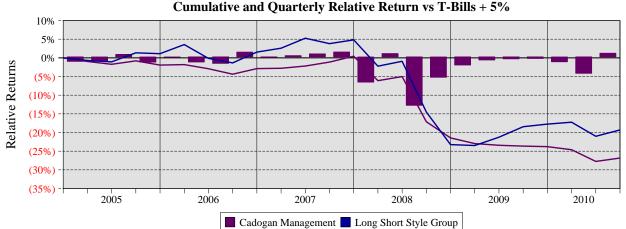


### CADOGAN MANAGEMENT RETURN ANALYSIS SUMMARY

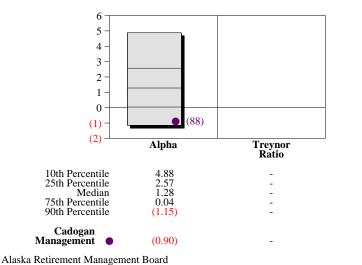
### **Return Analysis**

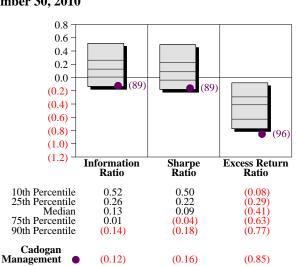
The graphs below analyze the manager's return on both a risk-adjusted and unadjusted basis. The first chart illustrates the manager's ranking over different periods versus the appropriate style group. The second chart shows the historical quarterly and cumulative manager returns versus the appropriate market benchmark. The last two charts illustrate the manager's ranking relative to their style using various risk-adjusted return measures.











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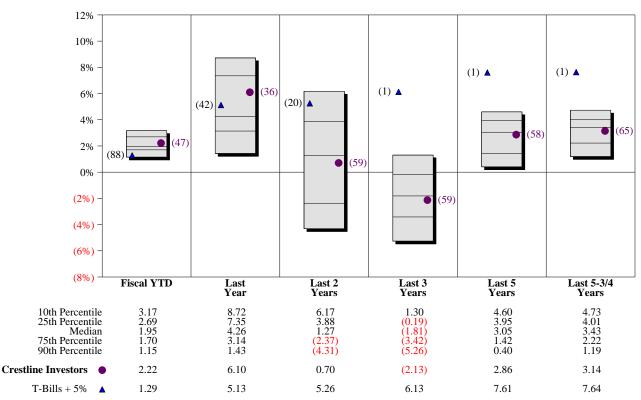
### CRESTLINE INVESTORS PERIOD ENDED SEPTEMBER 30, 2010

### **Investment Philosophy**

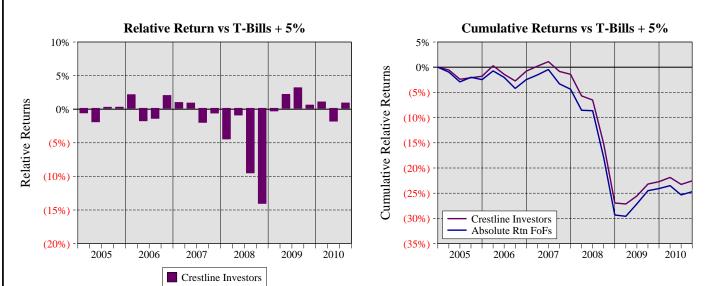
The manager returns below are current through the periods shown.

### **Quarterly Summary and Highlights**

- Crestline Investors's portfolio posted a 2.22% return for the quarter placing it in the 47 percentile of the Absolute Return Hedge FoFs Style group for the quarter and in the 36 percentile for the last year.
- Crestline Investors's portfolio outperformed the T-Bills + 5% by 0.93% for the quarter and outperformed the T-Bills + 5% for the year by 0.97%.



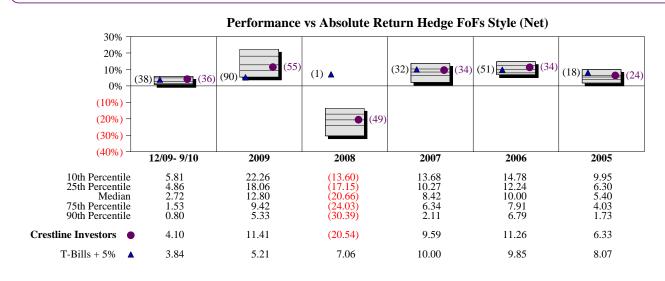
### Performance vs Absolute Return Hedge FoFs Style (Net)

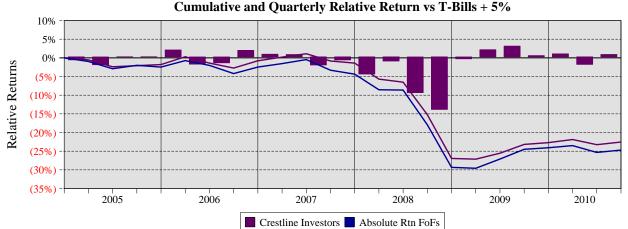


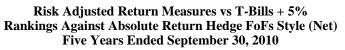
### CRESTLINE INVESTORS RETURN ANALYSIS SUMMARY

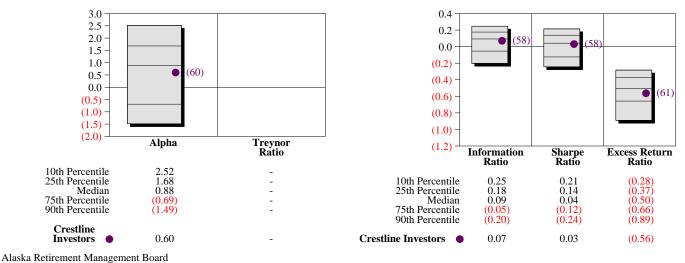
### **Return Analysis**

The graphs below analyze the manager's return on both a risk-adjusted and unadjusted basis. The first chart illustrates the manager's ranking over different periods versus the appropriate style group. The second chart shows the historical quarterly and cumulative manager returns versus the appropriate market benchmark. The last two charts illustrate the manager's ranking relative to their style using various risk-adjusted return measures.









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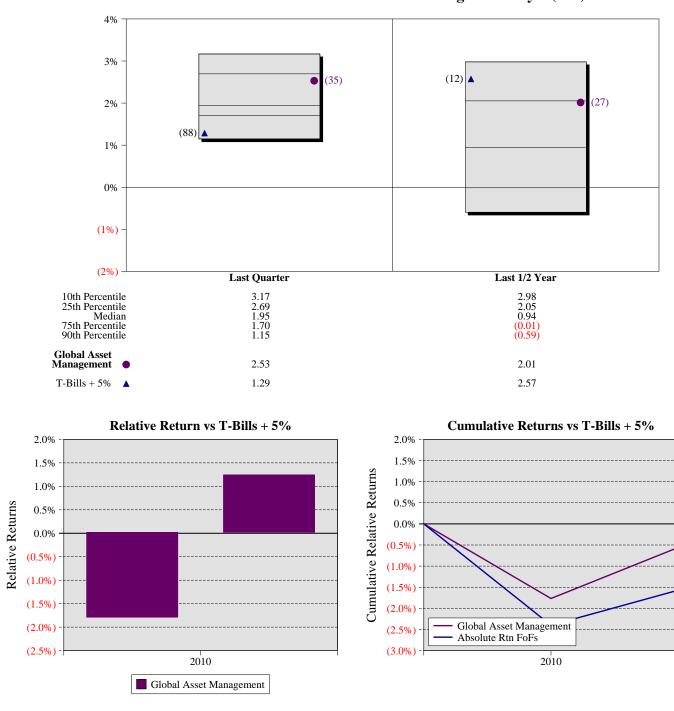
### GLOBAL ASSET MANAGEMENT PERIOD ENDED SEPTEMBER 30, 2010

### **Investment Philosophy**

The manager returns below are current through periods shown.

### **Quarterly Summary and Highlights**

- Global Asset Management's portfolio posted a 2.53% return for the quarter placing it in the 35 percentile of the Absolute Return Hedge FoFs Style group for the quarter and in the 27 percentile for the last one-half year.
- Global Asset Management's portfolio outperformed the T-Bills + 5% by 1.25% for the quarter and underperformed the T-Bills + 5% for the one-half year by 0.56%.



### Performance vs Absolute Return Hedge FoFs Style (Net)

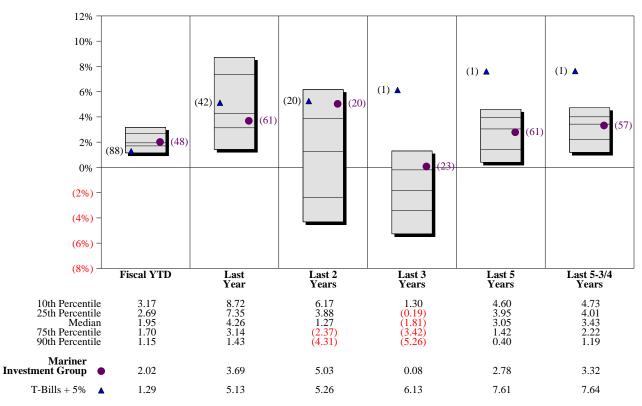
### MARINER INVESTMENT GROUP PERIOD ENDED SEPTEMBER 30, 2010

### **Investment Philosophy**

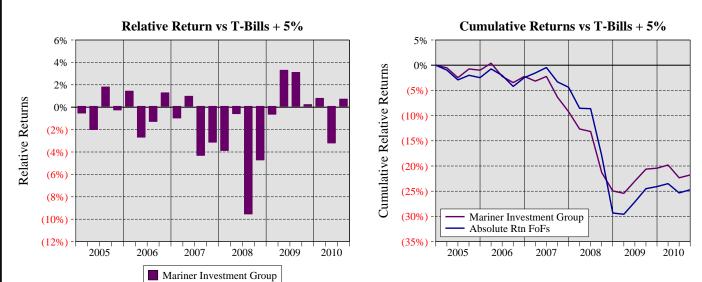
The manager returns below are current through periods shown.

### **Quarterly Summary and Highlights**

- Mariner Investment Group's portfolio posted a 2.02% return for the quarter placing it in the 48 percentile of the Absolute Return Hedge FoFs Style group for the quarter and in the 61 percentile for the last year.
- Mariner Investment Group's portfolio outperformed the T-Bills + 5% by 0.73% for the quarter and underperformed the T-Bills + 5% for the year by 1.44%.



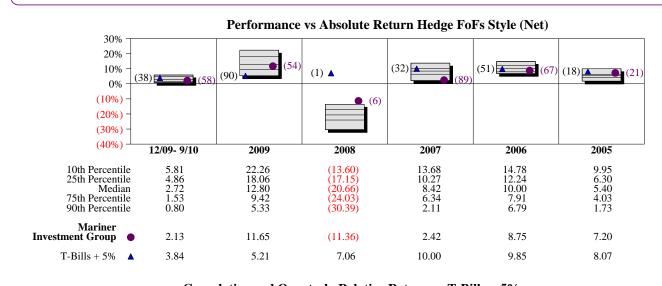
### Performance vs Absolute Return Hedge FoFs Style (Net)

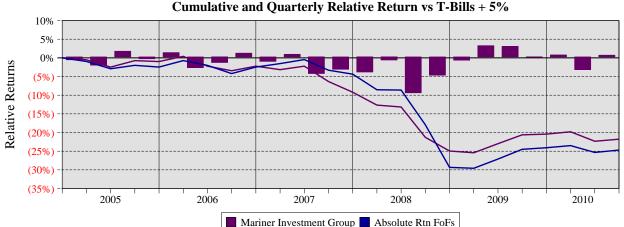


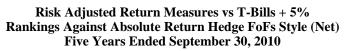
### MARINER INVESTMENT GROUP RETURN ANALYSIS SUMMARY

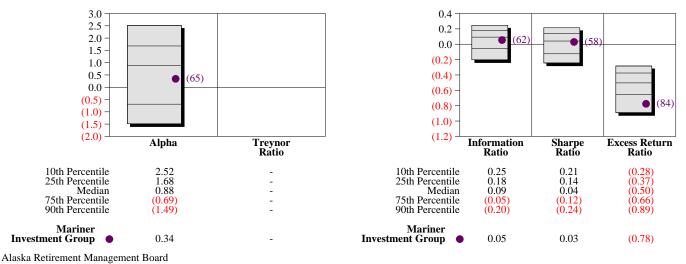
### **Return Analysis**

The graphs below analyze the manager's return on both a risk-adjusted and unadjusted basis. The first chart illustrates the manager's ranking over different periods versus the appropriate style group. The second chart shows the historical quarterly and cumulative manager returns versus the appropriate market benchmark. The last two charts illustrate the manager's ranking relative to their style using various risk-adjusted return measures.









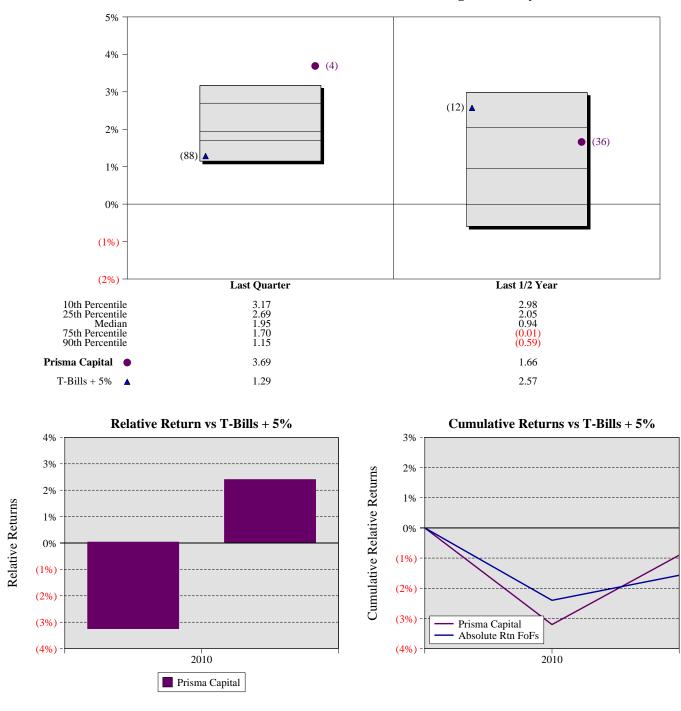
### PRISMA CAPITAL PERIOD ENDED SEPTEMBER 30, 2010

### **Investment Philosophy**

The manager returns below are current through periods shown.

### **Quarterly Summary and Highlights**

- Prisma Capital's portfolio posted a 3.69% return for the quarter placing it in the 4 percentile of the Absolute Return Hedge FoFs Style group for the quarter and in the 36 percentile for the last one-half year.
- Prisma Capital's portfolio outperformed the T-Bills + 5% by 2.41% for the quarter and underperformed the T-Bills + 5% for the one-half year by 0.91%.



### Performance vs Absolute Return Hedge FoFs Style (Net)

High Yield

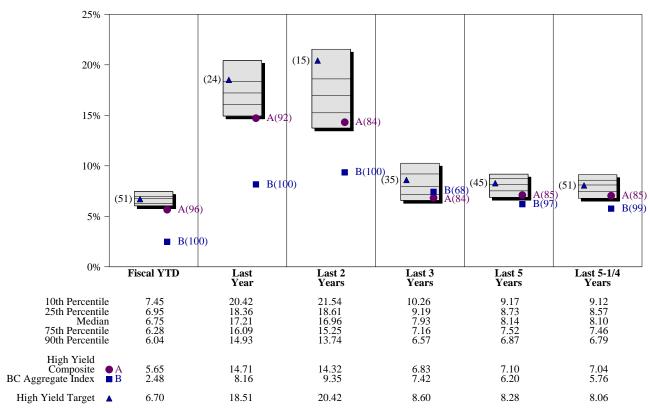
### **HIGH YIELD COMPOSITE PERIOD ENDED SEPTEMBER 30, 2010**

### **Quarterly Summary and Highlights**

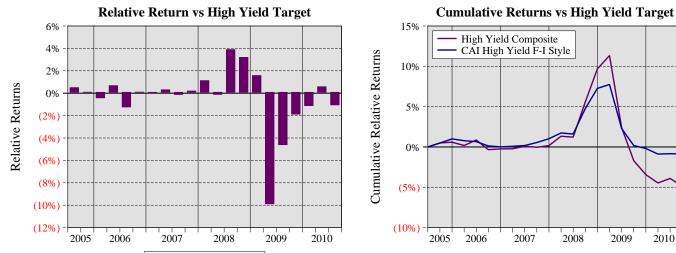
- High Yield Composite's portfolio posted a 5.65% return • for the quarter placing it in the 96 percentile of the CAI High Yield Fixed-Inc Style group for the quarter and in the 92 percentile for the last year.
- High Yield Composite's portfolio underperformed the ٠ High Yield Target by 1.05% for the quarter and underperformed the High Yield Target for the year by 3.80%.

### **Quarterly Asset Growth**

Beginning Market Value	\$328,415,848
Net New Investment	\$-30,000,000
Investment Gains/(Losses)	\$18,157,992
Ending Market Value	\$316,573,840



### Performance vs CAI High Yield Fixed-Inc Style (Gross)



High Yield Composite

2009

2010

### MACKAY SHIELDS PERIOD ENDED SEPTEMBER 30, 2010

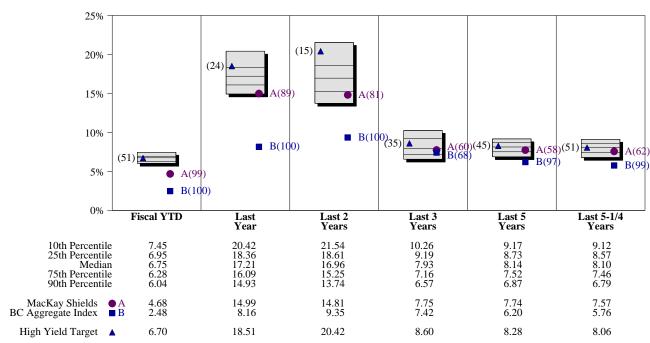
### **Investment Philosophy**

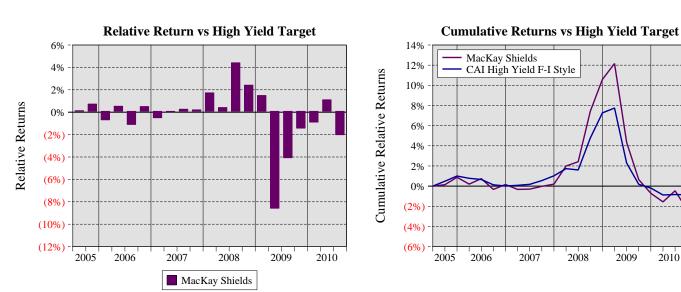
Target: ML Hi Yield Master II from 12/31/06; ML Hi Yield Cash Pay prior to 12/31/06.

### **Quarterly Summary and Highlights**

- MacKay Shields's portfolio posted a 4.68% return for the quarter placing it in the 99 percentile of the CAI High Yield Fixed-Inc Style group for the quarter and in the 89 percentile for the last year.
- MacKay Shields's portfolio underperformed the High Yield Target by 2.02% for the quarter and underperformed the High Yield Target for the year by 3.52%.

<b>Quarterly Asset Growth</b>				
Beginning Market Value	\$169,276,259			
Net New Investment	\$0			
Investment Gains/(Losses)	\$7,927,939			
Ending Market Value	\$177,204,197			





### Performance vs CAI High Yield Fixed-Inc Style (Gross)

### Alaska Retirement Management Board

### **ROGGE GLOBAL PARTNERS PERIOD ENDED SEPTEMBER 30, 2010**

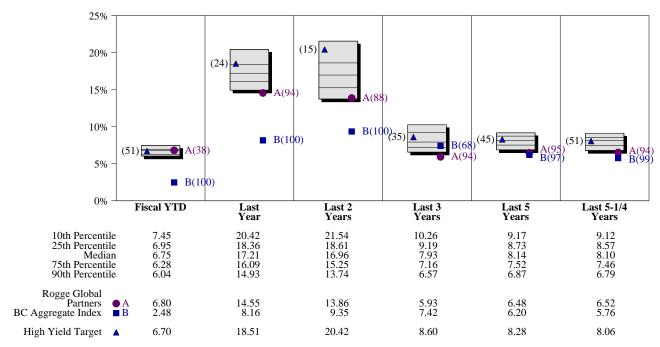
### **Investment Philosophy**

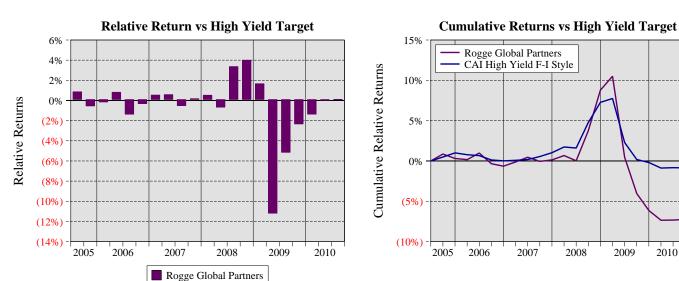
Target: ML Hi Yield Master II from 12/31/06; ML Hi Yield Cash Pay prior to 12/31/06.

### **Quarterly Summary and Highlights**

- Rogge Global Partners's portfolio posted a 6.80% return for the quarter placing it in the 38 percentile of the CAI High Yield Fixed-Inc Style group for the quarter and in the 94 percentile for the last year.
- Rogge Global Partners's portfolio outperformed the High Yield Target by 0.10% for the quarter and underperformed the High Yield Target for the year by 3.96%.

<b>Quarterly Asset Growth</b>	
Beginning Market Value	\$159,139,589
Net New Investment	\$-30,000,000
Investment Gains/(Losses)	\$10,230,054
Ending Market Value	\$139,369,643





### Performance vs CAI High Yield Fixed-Inc Style (Gross)

Other

#### **Investment Manager Returns**

The table below details the rates of return for the Sponsor's investment managers over various time periods ended September 30, 2010. Negative returns are shown in red, positive returns in black. Returns for one year or greater are annualized. The first set of returns for each asset class represents the composite returns for all the fund's accounts for that asset class.

	Last Quarter	Last Year	Last 3 Years	Last 5 Years	Last 7 Years
UBS Agrivest(2)	0.74%	3.67%	8.17%	9.35%	-
UBS Agrivest Comp (w Water)	0.73%	4.00%	8.39%	9.48%	-
Hancock Agricultural(2)	1.11%	7.77%	10.19%	9.19%	-
Hancock Composite (w Water)	1.11%	8.47%	10.01%	9.08%	-
TCW Energy(1)	(6.98%)	(4.49%)	(1.31%)	5.86%	-
Timberland Investment	(0.58%)	(6.78%)	-	-	_
Hancock Timber	2.06%	0.05%	-	-	-
NCREIF Timberland Index	0.99%	(2.89%)	5.09%	9.85%	10.15%
rivate Equity(1)	0.81%	15.88%	(2.33%)	8.90%	12.52%

#### Returns for Periods Ended September 30, 2010

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Callan Research/Education



CALLAN INVESTMENTS INSTITUTE

THIRD QUARTER 2010

# RESEARCH AND UPCOMING PROGRAMS

Below is a list of recent Callan Institute research and upcoming programs. The Institute's research and educational programs keep clients updated on the latest trends in the investment industry and help clients learn through carefully structured workshops and lectures. For more information, please contact your Callan Consultant or Gina Falsetto at 415.974.5060 or institute@callan.com.

### **White Papers**

#### Lifetime Retirement Income Solutions

Lori Lucas, CFA

Fixed Income Benchmark Review: Year-Ended March 31, 2010 Anna West

The Next DC Frontier: An Outcomes-Based Approach to DC Plan Design Lori Lucas, CFA

The Recovery Across All Asset Classes Reprinted with permission from PREA Quarterly, Spring 2010 Jay Kloepfer

## **Publications**

DC Observer and Callan DC Index<sup>™</sup> – 2nd Quarter 2010
Hedge Fund Monitor – 2nd Quarter 2010
Capital Market Review – 3rd Quarter 2010
Quarterly Performance Data – 3rd Quarter 2010
Private Markets Trends – Summer 2010

# **Surveys**

2010 Alternatives Survey - coming soon!
2010 DC Trends Survey - January 2010
How Investment Managers Survived the Market Collapse - October 2009
2009 Investment Management Fee Survey - September 2009



CALLAN INVESTMENTS INSTITUTE

THIRD QUARTER 2010

# RESEARCH AND UPCOMING PROGRAMS

### (continued)

## **Event Summaries and Presentations**

- Summary: 2010 Regional Breakfast Workshop June 2010 "The Risk Locker - Strategies to Diffuse Risk"
- Presentation: 2010 Regional Breakfast Workshop June 2010 "The Risk Locker - Strategies to Diffuse Risk"
- Summary: The 30th Annual National Conference February 2010 Featuring: The Capital Markets Panel, T.R. Reid, Warren Hellman, Laura D'Andrea Tyson and workshops on DC, alternatives and inflation

# **Upcoming Educational Programs**

#### The 31st Annual National Conference

January 31 - February 2, 2011 in San Francisco Speakers include: Henry M. Paulson, Fareed Zakaria, Joshua Cooper Ramo, and Dan Ariely Workshops on: defined contribution, portfolio structure, and real assets

Details will be sent to you via email and U.S. Mail in October.

If you have any questions regarding these programs, please contact Ray Combs at 415.974.5060 or institute@callan.com.

101 California Street, Suite 3500, San Francisco, California 94111, 415.974.5060, www.callan.com

The Callan Investments Institute, the educational division of Callan Associates Inc., has been a leading educational forum for the pensions and investments industry since 1980. The Institute offers continuing education on key issues confronting plan sponsors and investment managers.



# THE CENTER FOR INVESTMENT TRAINING ("CALLAN COLLEGE")

THIRD QUARTER 2010

# EDUCATIONAL SESSIONS

# **An Introduction to Investments**

#### April and October in San Francisco

This two-day session is designed for individuals who have less than two years' experience with institutional asset management oversight and/or support responsibilities. It will familiarize fund sponsor trustees and staff with basic investment theory, terminology, and practices. Participants in the introductory session will gain a basic understanding of the different types of institutional funds, including a description of their objectives and investment program structures.

# **Advanced Investment Topics**

#### July in Chicago

This program is designed for individuals who have more than two years' experience and provides attendees with a complete and thorough overview of prudent investment practices for both trusteedirected and participant-directed funds. This session is beneficial to anyone involved in the investment management process, including: trustees and staff members of public, endowment & foundation, corporate, and Taft-Hartley retirement funds; representatives of family trusts; and investment management professionals.

# **Session on Real Estate**

#### 2011 Dates TBD

Callan Associates will share its expertise through an educational program designed to advance the participants' knowledge, understanding and comfort with real estate investing. Callan's real estate specialists have extensive knowledge and experience and will provide insights relating to institutional demand, product availability, program design, implementation, regulatory outlook, trends and best practices.



# THE CENTER FOR INVESTMENT TRAINING ("CALLAN COLLEGE")

THIRD QUARTER 2010

# EDUCATIONAL SESSIONS

(continued)

# **Customized Sessions**

A unique feature of the "Callan College" is its ability to educate on a specialized level through its customized sessions. Whether you are a plan sponsor or you provide services to institutional taxexempt plans, we are equipped to tailor the curriculum to meet the training and educational needs of your organization and bring the program to your venue. Instruction can be tailored to be basic or advanced.

For more information on the "Callan College," please contact Kathleen Cunnie, Manager, at 415.274.3029 or college@callan.com.

The Center for Investment Training ("Callan College") provides relevant and practical educational opportunities to all professionals engaged in the investment decision making process. This educational forum offers basic-to-intermediate level instruction on all components of the investment management process

101 California Street, Suite 3500, San Francisco, California 94111, 415.974.5060, www.callan.com

Disclosures

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Callan Associates takes its fiduciary and disclosure responsibilities to clients very seriously. The list below is compiled and updated quarterly because we believe our fund sponsor clients should have a clear understanding of the investment management organizations that do business with our firm. As of 09/30/10, Callan provided educational, consulting, software, database, or reporting services to this list of managers through one or more of the following business units: Institutional Consulting Group, Independent Adviser Group, Fund Sponsor Consulting, the Callan Investments Institute and the "Callan College." Per strict policy these manager relationships do not affect the outcome or process by which any of Callan's services are conducted.

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Manager Name	Educational Services	Consulting Services
1607 Capital Partners, LLC		Y
Aberdeen Asset Management		Y
Acadian Asset Management, Inc.	Y	
AllianceBernstein	Y	
Allianz Global Investors Capital		Y
American Century Investment Management	Y	
Analytic Investors	Y	
AQR Capital Management	Y	
Artio Global Management (fka, Julius Baer)	Y	Y
Atalanta Sosnoff Capital, LLC	Y	
Atlanta Capital Management Co., L.L.C.	Y	Y
Aviva Investors North America	Y	
XA Rosenberg Investment Management	Y	
Babson Capital Management LLC	Y	
Baillie Gifford International LLC	Ý	
Baird Advisors	Ý	Y
Bank of America		Ý
Bamk of Ireland Asset Management	Y	·
Baring Asset Management	Ý	
Barrow, Hanley, Mewhinney & Strauss, Inc.		Y
Batterymarch Financial Management, Inc.	Y	
BlackRock		Y
Boston Company Asset Management, LLC (The)	Y	Ý
BNY Mellon Asset Management	Ý	·
Brandes Investment Partners, L.P.	Ý	Y
Brandywine Global Investment Management, LLC	Ý	·
Brown Brothers Harriman & Company	Ý	
Cadence Capital Management	Ý	
Calamos Advisors	Ý	
Capital Group Companies (The)	Y	
CastleArk Management, LLC		Y
Causeway Capital Management	Y	
Chartwell Investment Partners	Ý	
ClearBridge Advisors	Y	
Colony Realty	Ý	
Columbia Management Investment Advisors. LLC	Y	Y
Columbus Circle Investors	Y	Y
Cramer Rosenthal McGlvnn. LLC	Y	1
Crestline Investors		Y
Davis Advisors	Y	
Davis Advisors DB Advisors	Y	Y
DDJ Capital Management	Y	
DE Shaw Investment Management, L.L.C.	Ý	
	I V	V
Delaware Investments DePrince, Race & Zollo, Inc.		Y
Diamond Hill Investments	Y	Ť
DSM Capital Partners		Y
Eagle Asset Management, Inc.		Y
EARNEST Partners, LLC	Y	T
		Y
Eaton Vance Management	Y	Y
Intrust Capital Inc.	Y	
Epoch Investment Partners	•	N N
avez Sarofim & Company	Y	Y
Federated Investors		Y

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Manager Name	Educational Services	Consulting Services
Fiduciary Asset Management Company (FAMCO)	Y	
First Eagle Investment Management	Y	
Franklin Templeton	Y	Y
Fred Alger Management Co., Inc.	Y	Y
GAM (USA) Inc.	Y	
GE Asset Management	Y	Y
GLG Partners Corp.	Y	
Goldman Sachs Asset Management	Y	Y
Grand-Jean Capital Management		Y
Grantham, Mavo, Van Otterloo & Co., LLC	Y	
Great Lakes Advisors, Inc.		Y
Guggenheim Partners	Y	
Harris Associates	Y	
Harris Investment Management, Inc.	Y	
Hartford Investment Management Co.	Y	Y
Henderson Global Investors	Y	
Hennessy Funds	Y	
Hermes Investment Management (North Amrica) Ltd.	Y	
HSBC Investments (USA) Inc.		Y
Income Research & Management	Y	
NG Investment Management	Ý	Y
INVESCO	Y	Y
Institutional Capital LLC	Y	
Janus Capital Group (fka Janus Capital Management, LLC)	Y	Y
Jensen Investment Management		Ý
J.P. Morgan Asset Management	Y	
Knightsbridge Asset Management, LLC		Y
Lazard Asset Management	Y	Ý
Lee Munder Capital Group	Ý	Ý
Liquid Realty	Ý	
Login Circle		Y
Loomis, Savles & Company, L.P.	Y	Ý
Lord Abbett & Company	Ý	
Los Angeles Capital Management	Ý	
LSV Asset Management	Ý	
MacKay Shields LLC	Y	V
Madison Square Investors	Ý	
Madison Square investors Marvin & Palmer Associates. I nc.	V	
Marvin & Famer Associates, File.	Ý	
Mawel investment Management (fka, Franklin Portfolio Assoc.)	Ý	
Mellon Transition Management & BNY Mellon Beta Management	Ý	
Metropolitan Life Insurance Company		V
Metropolitan West Capital Management, LLC		Y
MEC Global Investment Management (U.S.) LLC	V	
MFS Investment Management	Ý	Y
Moody Aldrich Partners	Ý	I
Noody Algerta Partners Nondrian Investment Partners Limited	Ý	Y
Vondrian Investment Partners Limited	Ý	Y
	Y	Y Y
Morgan Stanley Investment Management	T	ř
Newton Capital Management	Y	N/
Neuberger Berman, LLC (fka, Lehman Brothers)	Ý	Y
Nomura Asset Management U.S.A., Inc.	Y	
Northern Lights Capital Group	Y	Y

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Manager Name	Educational Services	Consulting Services
Northern Trust Value Investors		Y
Nuveen Investments Institutional Services Group LLC	Y	Y
DFI Institutional Asset Management	Y	
Did Mutual Asset Management	Y	Y
Oppenheimer Capital	Y	
Opus Capital Management	Y	
Pacific Investment Management Company	Y	
Palisades Investment Partners, LLC		Y
anAgora Asset Management	Y	
eregrine Capital Management, Inc.		Y
erkins Investment Management	Y	
ermal Group Inc.	Y	
hiladelphia International Advisors. LP	Y	
PineBridge Investments (formerly AIG)		
lioneer Investment Management, Inc.	Y	
NC Capital Advisors (fka Allegiant Asset Momt)	Ý	Y
rincipal Global Investors	Ý	Ý
risma Capital		Y
rudential Investment Management, Inc.	Y	Ý
utnam Investments, LLC	Y	
vramis Global Advisors	Ý	
REC global Asset Management	Y	
	Ý	Y
	Ť	r Y
Rice Hall James & Associates, LLC		
Robeco Investment Management	Y	Y
Rothschild Asset Management, Inc.	Y	Ý
REEF	Y	N N
Schroder Investment Management North America Inc.	Y	Ý
Scottish Widows Investment Partnership	Y	
SEI Investments		Y
Smith Group Asset Management	Y	Y
Standard Life Investments	Y	
Standish (fka. Standish Mellon Asset Management)	Y	
State Street Global Advisors	Y	
Sterne Agee Asset Management		Y
tone Harbor Investment Partners, L.P.		Y
Stratton Management		Y
Systematic Financial Management	Y	
. Rowe Price Associates, Inc.	Y	Y
aplin, Canida & Habacht	Y	
CW Asset Management Company	Y	
D Asset Management (USA)	Y	
hrivent Financial for Lutherans		Y
hompson, Siegel & Walmsley LLC	Y	
IAA-CREF		Y
owle & Co.	Y	
IBP Asset Management LLC	Ý	
IBS	Ý	Y
Jnion Bank of California		Ý
/ictory Capital Management Inc.	Υ	Ý
ontobel Asset Management	Y	
Vaddell & Reed Asset Management Group	T Y	
VEDGE Capital Management		Y
Vellington Management Company, LLP	Y	T

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Manager Name	Educational Services	Consulting Services
Wells Capital Management	Y	
West Gate Horizons Advisors, LLC		Y
Western Asset Management Company	Y	
William Blair & Co., Inc.	Y	Y
Zephyr Management	Y	

Callan Associates Inc. Investment Measurement Service Quarterly Review

> State of Alaska SBS Fund September 30, 2010

The following report was prepared by Callan Associates Inc. ("CAI") using information from sources that include the following: fund trustee(s); fund custodian(s); investment manager(s); CAI computer software; CAI investment manager and fund sponsor database; third party data vendors; and other outside sources as directed by the client. CAI assumes no responsibility for the accuracy or completeness of the information provided, or methodologies employed, by any information providers external to CAI. Reasonable care has been taken to assure the accuracy of the CAI database and computer software. In preparing the following report, CAI has not reviewed the risks of individual security holdings or the compliance/non-compliance of individual security holdings with investment policies and guidelines of a fund sponsor, nor has it assumed any responsibility to do so. Copyright 2010 by Callan Associates Inc.

#### SBS Fund

Fund AllocationDefined Contribution Asset AllocationDefined Contribution Asset AllocationDefined Contribution Asset AllocationInvestment Option Performance	$\begin{array}{ccc} \dots & 3\\ \dots & 4\\ \dots & 5\end{array}$
Alaska Balanced Fund         Fund Guidelines         Actual vs Target Allocation         Historical Asset Allocation         Performance	10 11
Long Term Balanced Fund Fund Guidelines Actual vs Target Allocation Performance	17
Target 2010 Fund         Fund Guidelines         Actual vs Target Allocation         Schedule of Target Allocation Changes         Performance	22 23
Target 2010 Trust         Schedule of Target Allocation Changes         Actual vs Target Allocation         Schedule of Target Allocation Changes         Performance	27 28
Target 2015 Trust         Fund Guidelines         Actual vs Target Allocation         Schedule of Target Allocation Changes         Performance	32 33
Target 2020 Trust         Fund Guidelines         Actual vs Target Allocation         Schedule of Target Allocation Changes         Performance	38
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Target 2030 Trust         Fund Guidelines         Actual vs Target Allocation         Schedule of Target Allocation Changes         Performance	47 48

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State Street S&P Fund
Russell 3000 Index Fund
World Equity ex US Index Fd
Long US Treasury Bond Index
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SSgA Treasury Money Market Fd
BlackRock Govt/Credit Bond Fund
Intermediate Bond Fund
Brandes International Equity Fund
SSgA Global Balanced Fund
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Callan Research/Education
Disclosures

SBS Fund

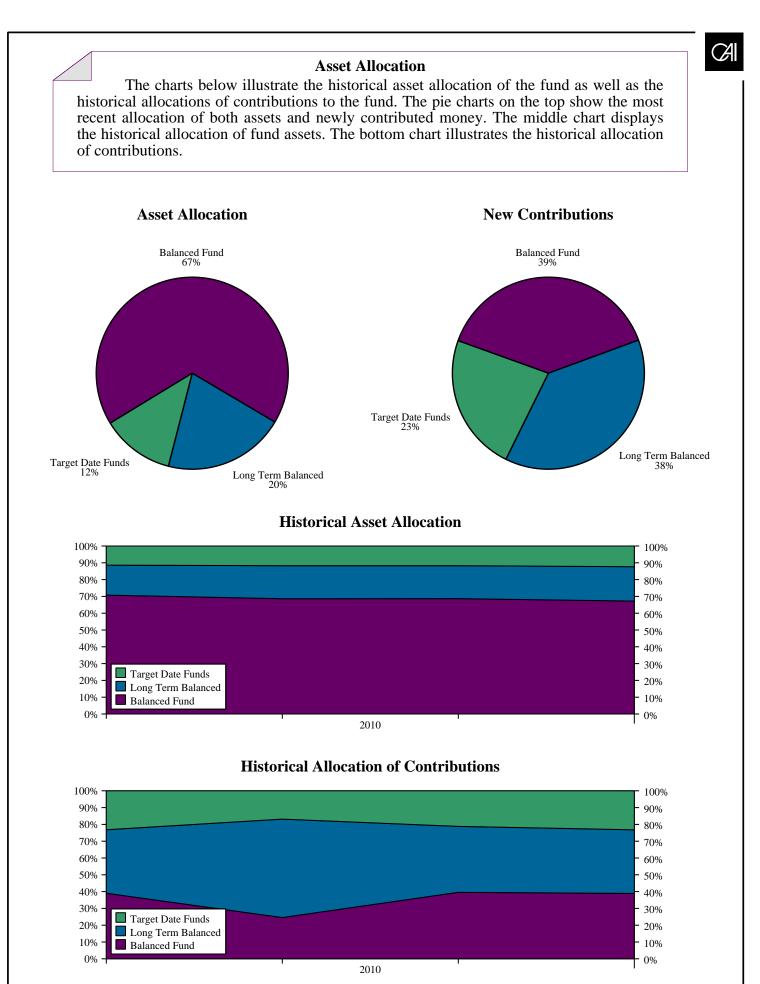
#### **Investment Fund Balances**

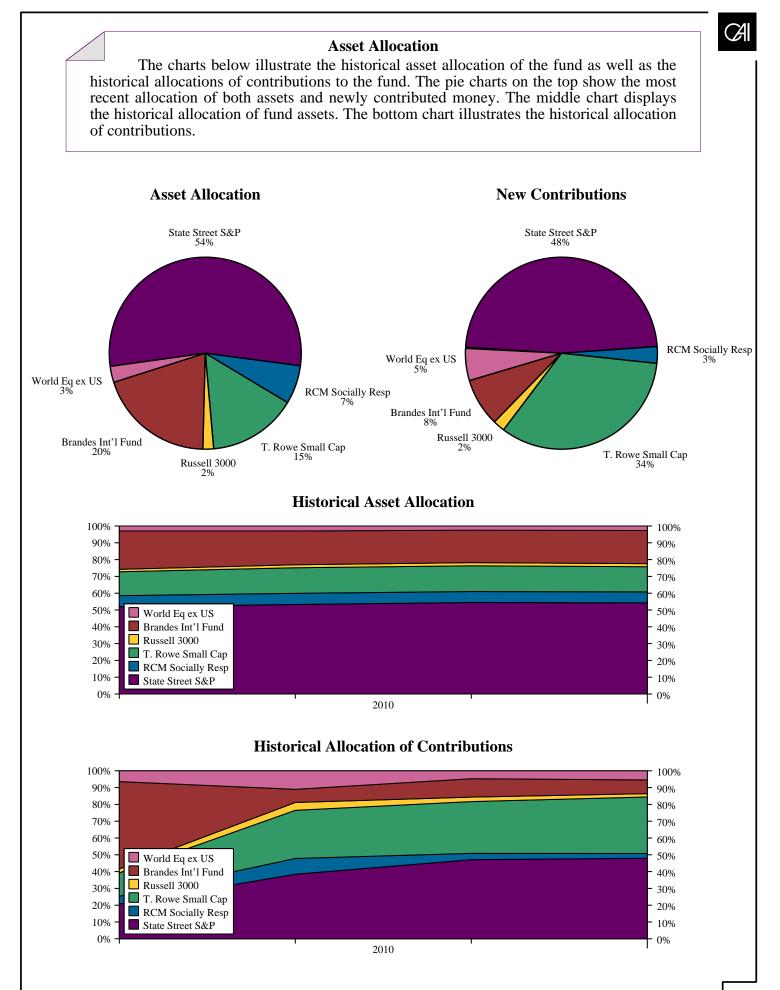
The table below compares the fund's investment fund balances as of September 30, 2010 with that of June 30, 2010. The change in asset distribution is broken down into the dollar change due to Net New Investment and the dollar change due to Investment Return.

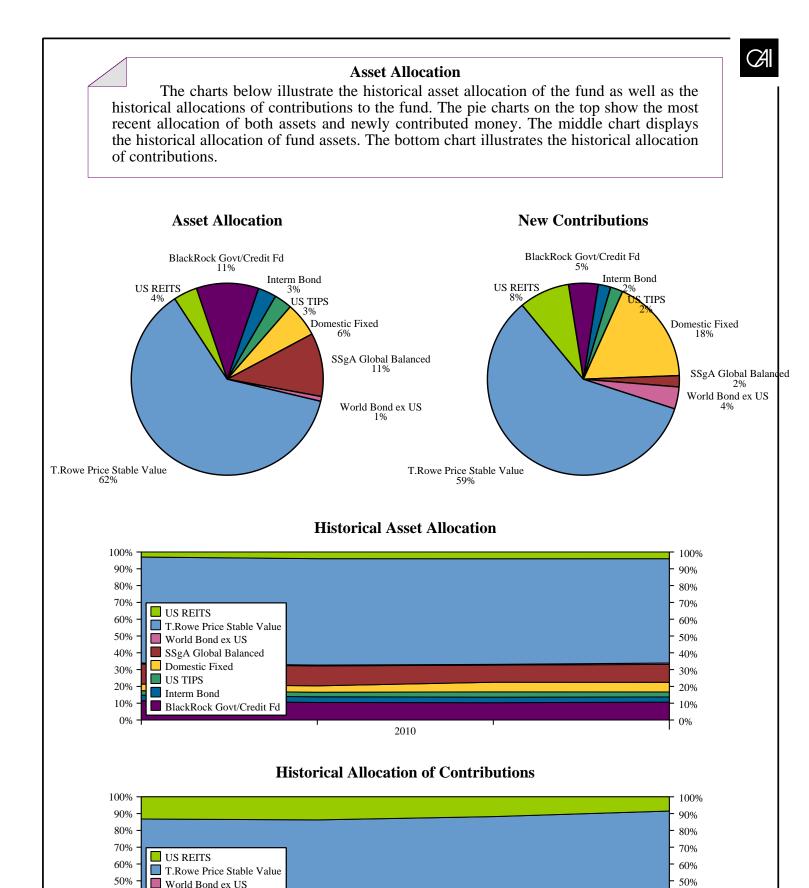
Asset Distribution Across Investment Funds							
	September 30, 2010				June 30, 2010		
	Market Value	Percent	Net New Inv.	Inv. Return	Market Value	Percent	
Balanced/Target Funds							
Alaska Balanced Fund	1,045,553,934	43.47%	(8,810,719)	59,015,126	995,349,527	44.36%	
Long Term Balanced Fund	318,440,688	13.24%	8,894,266	25,406,259	284,140,163	12.66%	
Target 2010 Fund	29,050,392	1.21%	(1,005,147)	130,422	29,925,117	1.33%	
Target 2010 Trust	4,723,561	0.20%	268,599	420,816	4,034,146	0.18%	
Target 2015 Trust	82,552,871	3.43%	302,613	6,826,694	75,423,564	3.36%	
Target 2020 Trust	30,652,947	1.27%	410,126	2,886,840	27,355,981	1.22%	
Target 2025 Trust	14,544,258	0.60%	660,525	1,779,044	12,104,689	0.54%	
Target 2030 Trust	4,605,391	0.19%	431,543	817,663	3,356,185	0.15%	
Target 2035 Trust	5,718,603	0.24%	362,391	946,330	4,409,882	0.20%	
Target 2040 Trust	6,200,659	0.26%	428,360	1,262,121	4,510,178	0.20%	
Target 2045 Trust	5,487,547	0.23%	606,637	1,287,504	3,593,406	0.16%	
Target 2050 Trust	5,861,258	0.24%	508,570	1,436,450	3,916,238	0.17%	
Target 2055 Trust	2,333,152	0.24%	546,928	504,089	1,282,135	0.06%	
-	2,000,102	011070	0.0,720	201,007	1,202,100	0.0070	
Domestic Equity Funds	005 470 414	0 5 40/	(A, C, C, C, D, 1, C)	01 055 701	100.000 (40	0.420/	
State Street S&P	205,473,414	8.54%	(4,665,016)	21,055,781	189,082,649	8.43%	
RCM Socially Responsible	24,643,566	1.02%	(678,909)	2,614,281	22,708,193	1.01%	
Russell 3000 Index	6,945,295	0.29%	(328,458)	721,706	6,552,046	0.29%	
T. Rowe Price Small Cap	56,771,783	2.36%	(3,059,768)	6,637,366	53,194,185	2.37%	
International Equity Funds							
Brandes Int'l Fund	74,715,126	3.11%	(1,338,454)	8,988,217	67,065,363	2.99%	
World Eq Ex-US Index	10,142,062	0.42%	103,289	1,393,116	8,645,657	0.39%	
Fixed-Income Funds							
BlackRock Govt/Credit Fd	50,177,088	2.09%	2,587,923	1,541,377	46,047,789	2.05%	
Intermediate Bond Fund	14,390,907	0.60%	(620,095)	296,643	14,714,359	0.66%	
Long US Treasury Bond	13,156,911	0.55%	930,744	489,700	11,736,467	0.52%	
USTIPS	14,029,737	0.58%	(376,456)	322,462	14,083,731	0.63%	
World Gov't Bond Ex-US	3,922,680	0.16%	1,560,995	323,666	2,038,019	0.09%	
Global Balanced Funds							
SSgA Global Balanced	50,189,843	2.09%	(136,485)	4,739,301	45,587,027	2.03%	
<b>Real Estate Funds</b>							
US REITS	18,779,054	0.78%	(1,280,601)	2,108,676	17,950,979	0.80%	
Short Term Funds							
T. Rowe Price Stable Value	292,402,732	12.16%	8,577,533	2,646,111	281,179,088	12.53%	
SSgA Inst Trsry MM	13,926,080	0.58%	(5,486)	1,146	13,930,421	0.62%	
Total Fund	\$2,405,391,539	100.0%	\$4,875,449	\$156,598,905	\$2,243,917,184	100.0%	

#### **Asset Distribution Across Investment Funds**

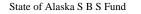
**C**A







2010



40%

30%

20%

10%

0%

SSgA Global Balanced

BlackRock Govt/Credit Fd

Domestic Fixed

Interm Bond

US TIPS

40%

30%

20%

10%

0%

#### **Investment Manager Returns**

The table below details the rates of return for the Sponsor's investment managers over various time periods ended September 30, 2010. Negative returns are shown in red, positive returns in black. Returns for one year or greater are annualized. The first set of returns for each asset class represents the composite returns for all the fund's accounts for that asset class.

	Last	Last	Last 2	Last 3	Last 5
Alaska Balanced Fund	Quarter	<u>Year</u>	Years	<u>Years</u>	<u>Years</u>
	5.91%	8.74%	7.51%	2.75%	4.79%
Benchmark	6.02%	9.01%	7.42%	2.80%	4.73%
Long Term Balanced Fund	<b>8.44%</b>	<b>9.19%</b>	<b>5.80%</b>	( <b>0.78%</b> )	<b>3.51%</b>
Benchmark	8.56%	9.51%	5.76%	(0.67%)	3.52%
Target 2010 Fund	<b>0.44%</b>	<b>1.33%</b>	<b>1.49%</b>	<b>0.93%</b>	<b>3.16%</b>
Benchmark	0.45%	1.23%	1.18%	0.48%	2.76%
Target 2010 Trust Benchmark	<b>7.64%</b> 7.89%	<b>8.46%</b> 8.69%	-	-	-
<b>Target 2015 Trust</b>	<b>8.72%</b>	<b>8.54%</b>	<b>7.21%</b>	<b>1.96%</b>	<b>4.87%</b>
Benchmark	8.90%	8.40%	6.87%	1.51%	4.56%
<b>Farget 2020 Trust</b>	9.50%	<b>9.24%</b>	<b>4.23%</b>	( <b>3.03%</b> )	<b>3.00%</b>
Benchmark	9.76%	9.52%	4.14%	(3.23%)	2.91%
<b>Farget 2025 Trust</b>	<b>10.26%</b>	<b>9.82%</b>	<b>2.91%</b>	(5.17%)	-
Benchmark	10.51%	10.12%	2.82%	(5.33%)	
Farget 2030 Trust Benchmark	<b>10.83%</b> 11.06%	<b>9.45%</b> 9.62%	-	-	-
Target 2035 Trust Benchmark	<b>11.29%</b> 11.55%	<b>9.46%</b> 9.61%	-	-	-
Target 2040 Trust Benchmark	<b>11.28%</b> 11.55%	<b>9.47%</b> 9.61%	-	:	-
Farget 2045 Trust Benchmark	<b>11.35%</b> 11.55%	<b>9.56%</b> 9.61%	-	:	-
Farget 2050 Trust Benchmark	<b>11.41%</b> 11.55%	<b>9.52%</b> 9.61%	-	:	-
Farget 2055 Trust Benchmark	<b>11.37%</b> 11.55%	<b>9.47%</b> 9.61%	:	:	-
State Street S&P 500 Fund	<b>11.31%</b>	<b>10.19%</b>	<b>1.41%</b>	<b>(7.06%)</b>	<b>0.72%</b>
Standard & Poor's 500	11.29%	10.16%	1.27%	(7.16%)	0.64%
Russell 3000 Index Fd	<b>11.54%</b>	<b>11.01%</b>	<b>2.10%</b>	(6.59%)	-
Russell 3000 Index	11.53%	10.96%	1.90%		0.92%
World Eq ex-US Index MSCI ACWI x US (Net Div)	<b>16.54%</b> 16.58%	<b>7.00%</b> 7.56%	<b>7.72%</b> 6.72%	(7.42%)	4.26%
Long US Treasury Bond Index	<b>5.11%</b>	<b>12.66%</b>	<b>10.53%</b>	-	-
BC Long Treas	5.21%	12.74%	10.93%	10.76%	7.77%
US Treasry Infl Prtcd Sec	<b>2.46%</b>	<b>8.72%</b>	<b>7.13%</b>	-	-
BC US TIPS Index	2.48%	8.89%	7.27%	6.91%	5.49%
World Gov't Bond ex-US Indx	<b>10.40%</b>	<b>4.41%</b>	<b>9.39%</b>	-	-
Citi Non-US Gvt Bd Idx	10.45%	4.47%	10.11%	8.44%	7.33%
U <b>S Real Estate Invmnt Trust</b> Wilshire REIT US Select REIT Index	<b>13.11%</b> 13.35% 13.22%	<b>27.62%</b> 30.12% 30.14%	( <b>3.70%</b> ) (4.05%)	(6.94%)	1.39%
SSgA Instl Trsry MM	<b>0.01%</b>	<b>0.02%</b>	<b>0.06%</b>	-	-
Citigroup 3 month T-Bills	0.04%	0.12%	0.25%	1.01%	2.48%

#### **Returns for Periods Ended September 30, 2010**

Å

#### **Investment Manager Returns**

The table below details the rates of return for the Sponsor's investment managers over various time periods ended September 30, 2010. Negative returns are shown in red, positive returns in black. Returns for one year or greater are annualized. The first set of returns for each asset class represents the composite returns for all the fund's accounts for that asset class.

<b>Returns for Periods Ended September 30, 2010</b>					
	Last Quarter	Last Year	Last 2 Years	Last 3 Years	Last 5 Years
BlackRock Govt/Credit Fund*	3.25%	8.42%	9.62%	7.20%	5.99%
BC Govt/Credit Bd	3.28%	8.73%	10.09%	7.46%	6.15%
Intermediate Bond Fund	2.09%	5.94%	6.15%	-	-
BC Gov Inter	2.13%	6.19%	6.22%	6.65%	5.87%
Brandes Int'l Fund	13.56%	-	-	-	-
MSCI EAFE Index	16.48%	3.27%	3.25%	(9.51%)	1.97%
SSgA Global Balanced	10.42%	8.57%	-	-	-
Custom Benchmark**	10.39%	8.42%	-	-	-
RCM Socially Responsible***	11.85%	8.37%	-	-	-
S&P 500 Index	11.29%	10.16%	1.27%	(7.16%)	0.64%
T. Rowe Price Small-Cap Trust	13.02%	18.27%	9.39%	(0.49%)	3.89%
Russell 2000 Index	11.29%	13.35%	1.25%	(4.29%)	1.60%
T. Rowe Price Stable Value Fund	0.96%	4.02%	3.95%	4.18%	4.34%
3-month Treasury Bill	0.03%	0.13%	0.26%	1.13%	2.61%
GIC Master Index, 3 Years	0.91%	3.88%	4.27%	4.43%	4.24%

\*BlackRock Govt/Credit Fund was initially funded on August 28, 2007. Prior returns represent the manager's returns for the index fund.

\*\*Custom Benchmark is 60% MSCI ACWI Index, 30% BarCap US Agg Bond Index, and 10% Citigroup World Gov't Bond ex-US Idx. \*\*\*Returns are preliminary 7 State of Alaska S B S Fund

Alaska Balanced Fund

#### STATE OF ALASKA SBS FUND



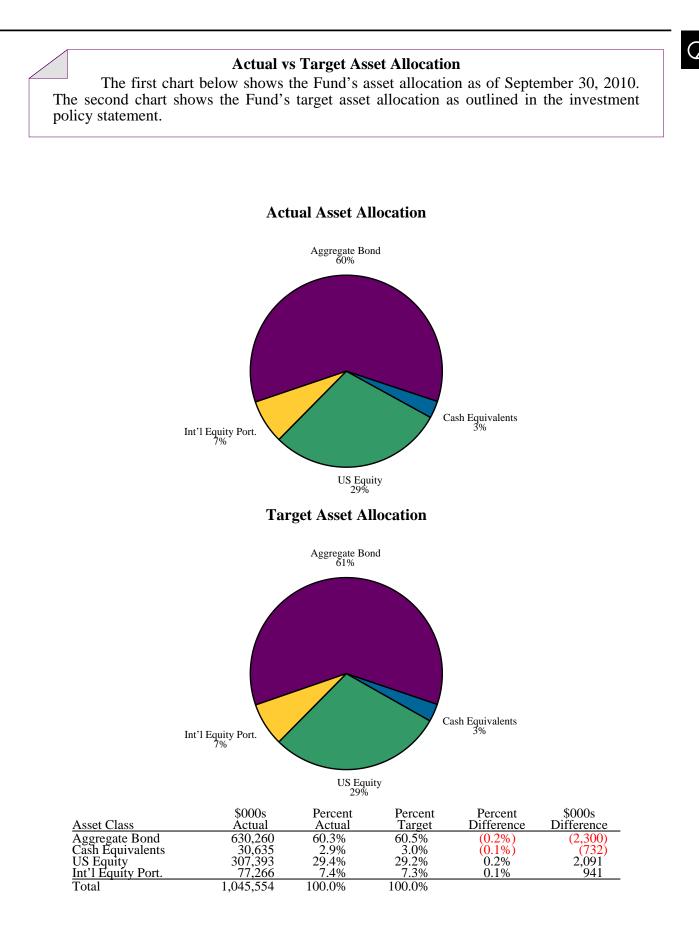
## Balanced Fund

Asset Allocation

	Strategic	Actual
Cash Money Market Portfolio	2.00%	2.93%
Fixed-Income Aggregate Bond	63.00%	60.28%
<u>Equity</u> US Equity International Portfolio	28.00% 7.00%	29.40% 7.39%

#### **Objectives**

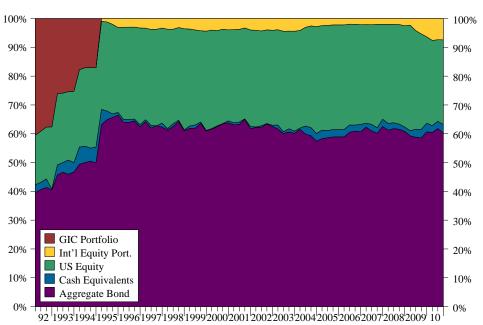
To provide a balanced and diversified mix of stocks, bonds and money market instruments for investors with a low to average risk tolerance.



\* Current Quarter Target = 60.5% BC Aggregate Index, 29.2% Russell 3000 Index, 7.3% MSCI EAFE Index and 3.0% 3-month Treasury Bill.

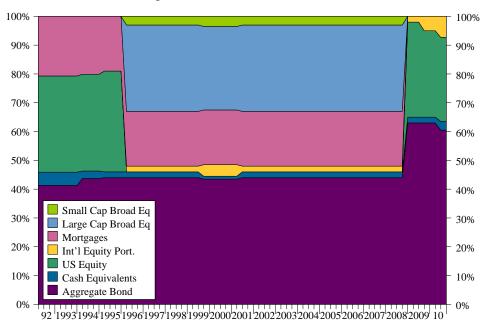
#### Actual vs Target Historical Asset Allocation

The Historical asset allocation for a fund is by far the largest factor explaining its performance. The charts below show the fund's historical actual asset allocation, and the fund's historical target asset allocation.





#### Target Historical Asset Allocation



\* Current Quarter Target = 60.5% BC Aggregate Index, 29.2% Russell 3000 Index, 7.3% MSCI EAFE Index and 3.0% 3-month Treasury Bill.

State of Alaska S B S - Alaska Balanced Fund

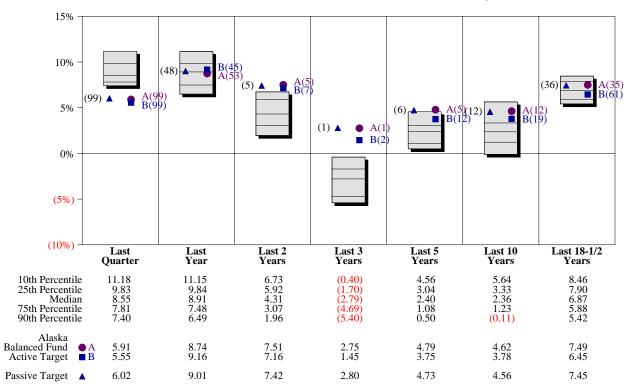
#### ALASKA BALANCED FUND PERIOD ENDED SEPTEMBER 30, 2010

#### **Investment Philosophy**

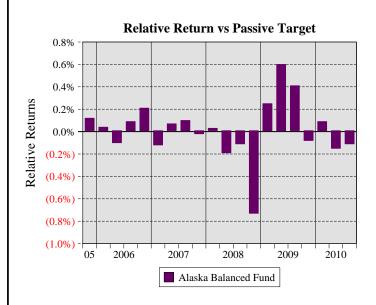
Domestic Balanced Style mutual funds diversify their investments among common stocks, bonds, preferred stocks and money market securities within the U.S.

#### **Quarterly Summary and Highlights**

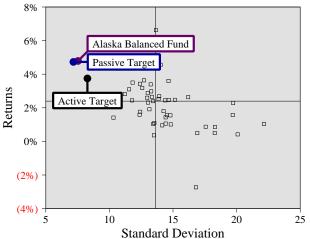
- Alaska Balanced Fund's portfolio posted a 5.91% return for the quarter placing it in the 99 percentile of the CAI MF Domestic Balanced Style group for the quarter and in the 53 percentile for the last year.
- Alaska Balanced Fund's portfolio underperformed the Passive Target by 0.11% for the quarter and underperformed the Passive Target for the year by 0.27%.



Performance vs CAI MF - Domestic Balanced Style (Net)



#### CAI MF - Domestic Balanced Style (Net) Annualized Five Year Risk vs Return

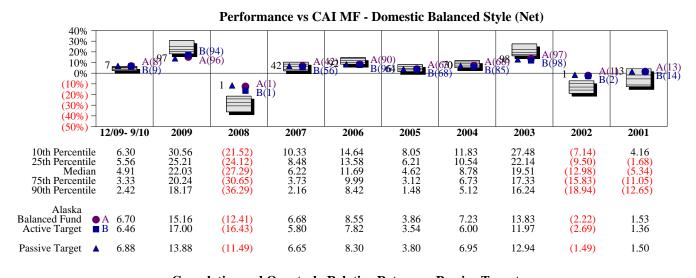


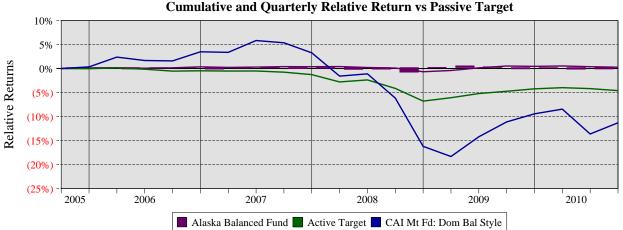
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#### ALASKA BALANCED FUND RETURN ANALYSIS SUMMARY

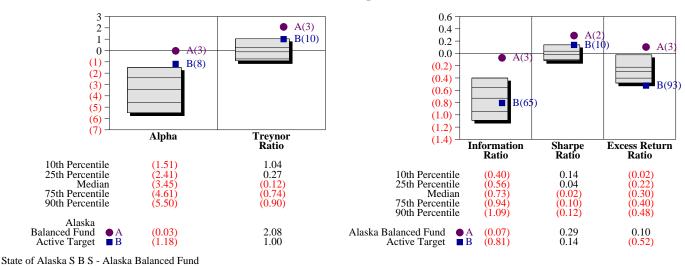
#### **Return Analysis**

The graphs below analyze the manager's return on both a risk-adjusted and unadjusted basis. The first chart illustrates the manager's ranking over different periods versus the appropriate style group. The second chart shows the historical quarterly and cumulative manager returns versus the appropriate market benchmark. The last two charts illustrate the manager's ranking relative to their style using various risk-adjusted return measures.

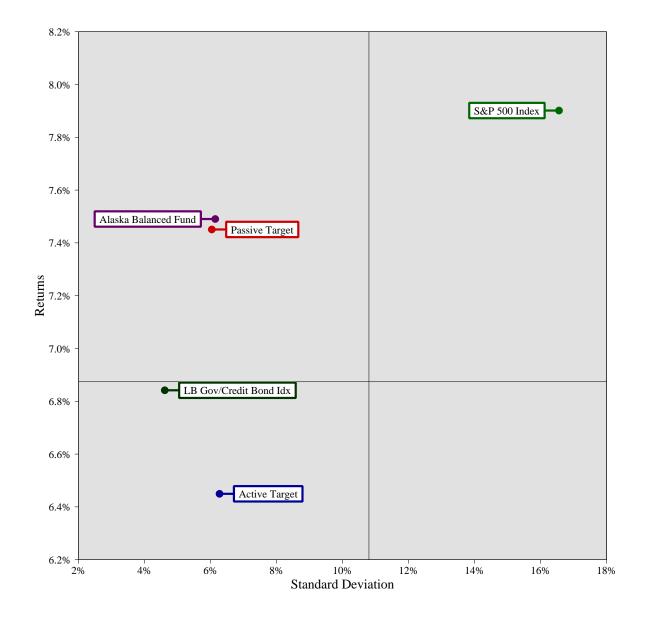




#### Risk Adjusted Return Measures vs Passive Target Rankings Against CAI MF - Domestic Balanced Style (Net) Five Years Ended September 30, 2010



#### STATE OF ALASKA S B S - ALASKA BALANCED FUND RISK/REWARD VS CAI MF - DOMESTIC BALANCED STYLE EIGHTEEN AND ONE-HALF YEARS ENDED SEPTEMBER 30, 2010



Long Term Balanced Fund

#### STATE OF ALASKA SBS FUND



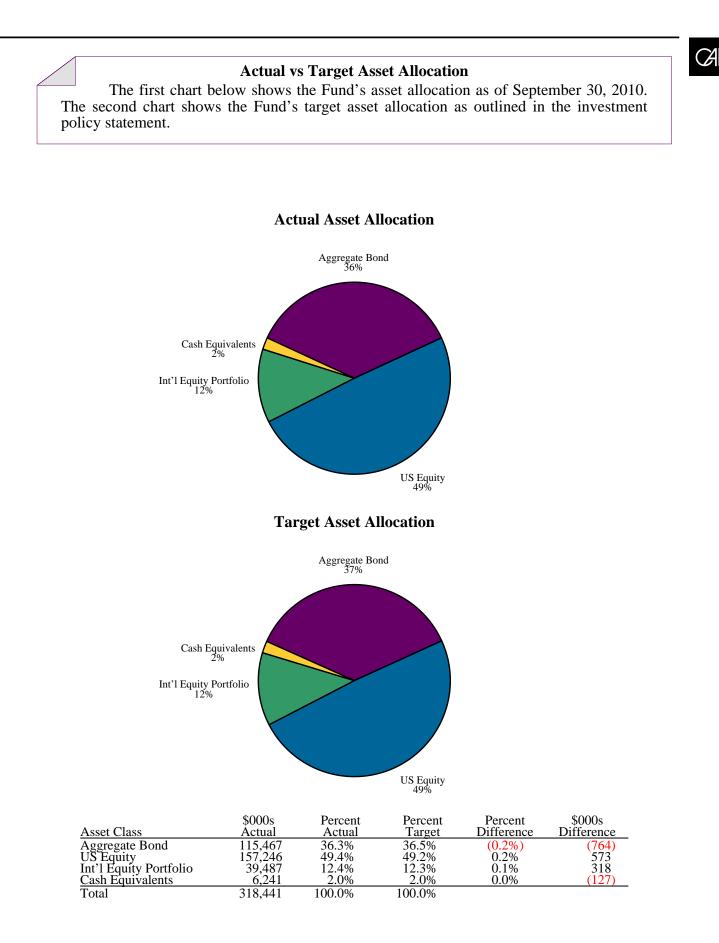
## Long-Term Balanced Fund

Asset Allocation

	Strategic	Actual
<u>Cash</u> Money Market Portfolio	1.00%	1.97%
Fixed-Income Aggregate Bond	39.00%	36.26%
<u>Equity</u> US Equity International Portfolio	48.00% 12.00%	49.38% 12.40%

#### **Objectives**

To provide a balanced and diversified mix of stocks, bonds, and money market instruments for investors with a moderate risk tolerance.



\* Current Quarter Target = 49.2% Russell 3000 Index, 36.5% BC Aggregate Index, 12.3% MSCI EAFE Index and 2.0% 3-month Treasury Bill.

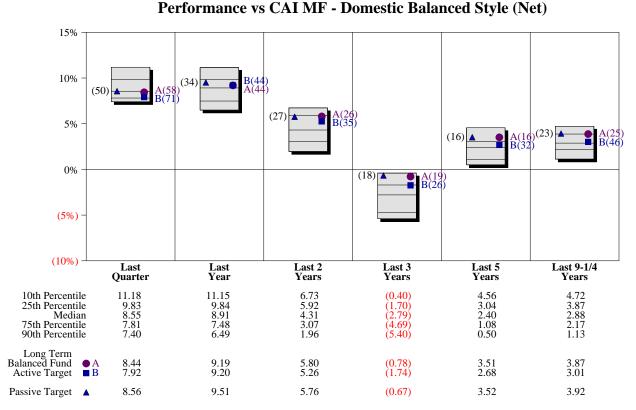
#### LONG TERM BALANCED FUND PERIOD ENDED SEPTEMBER 30, 2010

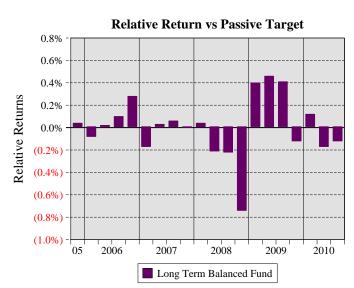
#### **Investment Philosophy**

Domestic Balanced Style mutual funds diversify their investments among common stocks, bonds, preferred stocks and money market securities within the U.S.

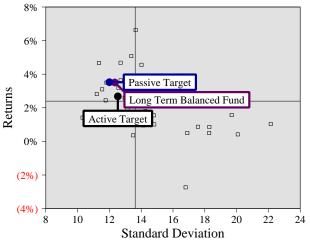
#### **Quarterly Summary and Highlights**

- Long Term Balanced Fund's portfolio posted a 8.44% return for the quarter placing it in the 58 percentile of the CAI MF Domestic Balanced Style group for the quarter and in the 44 percentile for the last year.
- Long Term Balanced Fund's portfolio underperformed the Passive Target by 0.12% for the quarter and underperformed the Passive Target for the year by 0.32%.





#### CAI MF - Domestic Balanced Style (Net) Annualized Five Year Risk vs Return

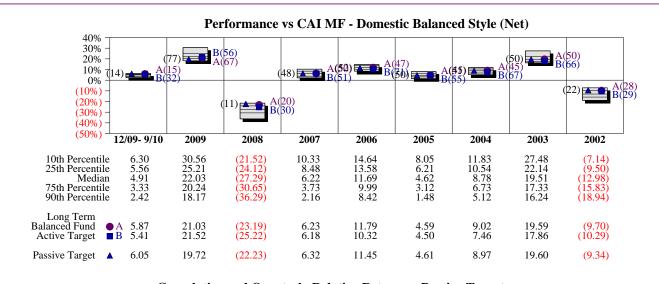


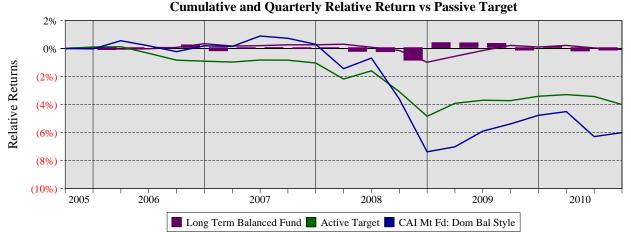
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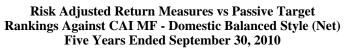
#### LONG TERM BALANCED FUND RETURN ANALYSIS SUMMARY

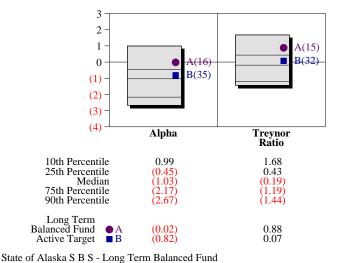
#### **Return Analysis**

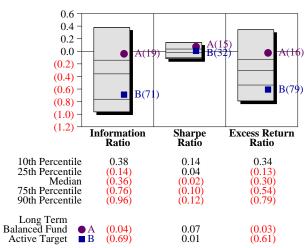
The graphs below analyze the manager's return on both a risk-adjusted and unadjusted basis. The first chart illustrates the manager's ranking over different periods versus the appropriate style group. The second chart shows the historical quarterly and cumulative manager returns versus the appropriate market benchmark. The last two charts illustrate the manager's ranking relative to their style using various risk-adjusted return measures.











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Target 2010 Fund

#### STATE OF ALASKA SBS FUND



### Target 2010 Fund

Asset Allocation

	Strategic	Actual
<u>Cash</u> Money Market Fund	92.50%	92.18%
Fixed-Income Aggregate Bond	5.00%	5.09%
<u>Equity</u> US Equity International Fund	2.50% 0.00%	2.73% 0.00%

#### **Objective**

To provide a diversified mix of stocks, bonds, and cash for long-term investors and/or investors with a moderate to high tolerance for risk. This fund is designed to gradually invest more conservatively, with an emphasis on capital preservation, as the year 2010 approaches.

#### **Actual vs Target Asset Allocation**

The first chart below shows the Fund's asset allocation as of September 30, 2010. The second chart shows the Fund's target asset allocation as outlined in the investment policy statement.

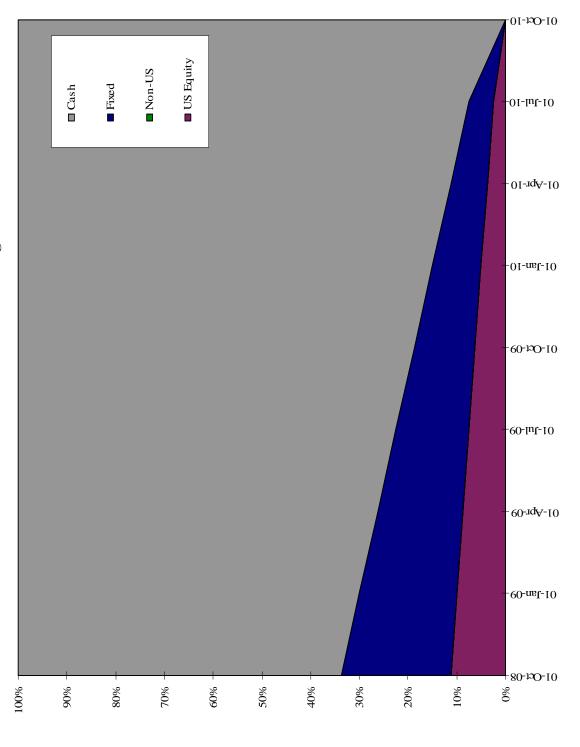


\* Current Quarter Target = 92.5% 3-month Treasury Bill, 5.0% BC Aggregate Index and 2.5% Russell 3000 Index.

State of Alaska S B S - Target 2010 Fund



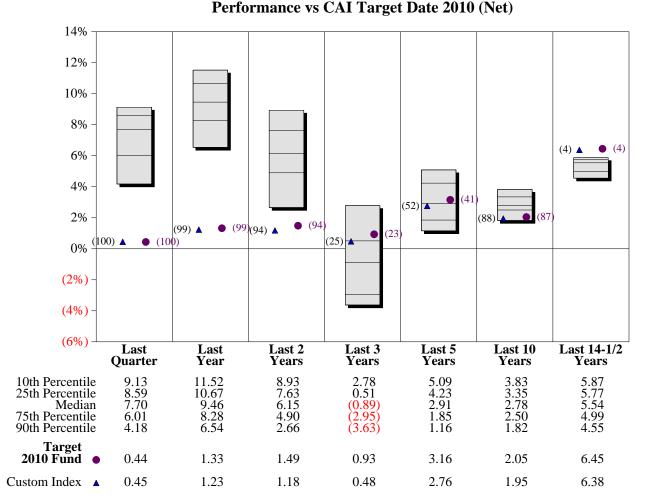
# Target 2010 Fund Schedule of Benchmark Allocation Changes

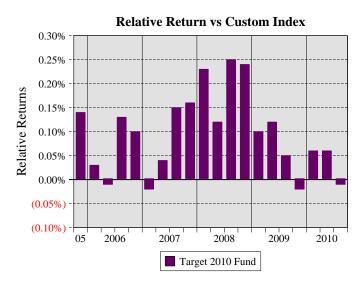


# TARGET 2010 FUND PERIOD ENDED SEPTEMBER 30, 2010

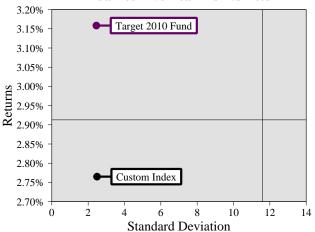
#### **Quarterly Summary and Highlights**

- Target 2010 Fund's portfolio posted a 0.44% return for the quarter placing it in the 100 percentile of the CAI Target Date 2010 group for the quarter and in the 99 percentile for the last year.
- Target 2010 Fund's portfolio underperformed the Custom Index by 0.01% for the quarter and outperformed the Custom Index for the year by 0.09%.





#### CAI Target Date 2010 (Net) Annualized Five Year Risk vs Return



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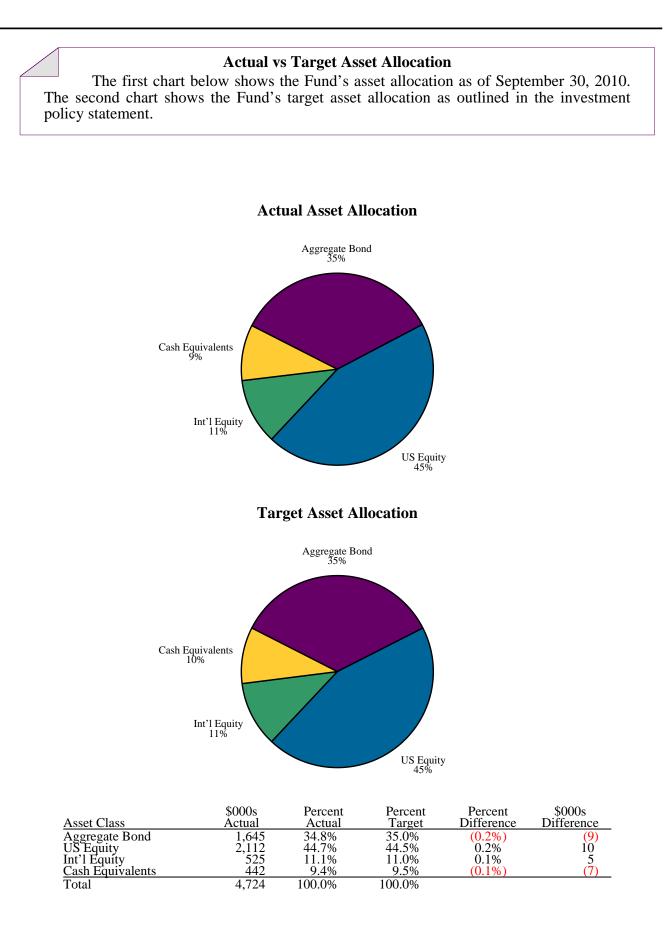
# Target 2010 Trust

Asset Allocation

	Strategic	Actual
Cash Money Market Fund	9.50%	9.36%
Fixed-Income Aggregate Bond	35.00%	34.82%
<u>Equity</u> US Equity International Fund	44.50% 11.00%	44.71% 11.11%

# **Objective**

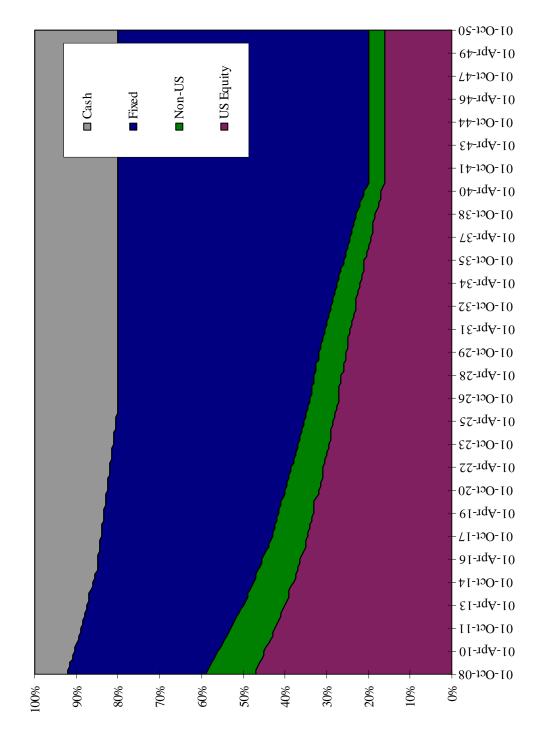
To provide a diversified mix of stocks, bonds, and cash for long-term investors and/or investors with a moderate to high tolerance for risk. This fund is designed to gradually invest more conservatively, with an emphasis on capital preservation, as the year 2010 approaches.



\* Current Quarter Target = 44.5% Russell 3000 Index, 35.0% BC Aggregate Index, 11.0% MSCI EAFE Index and 9.5% 3-month Treasury Bill.



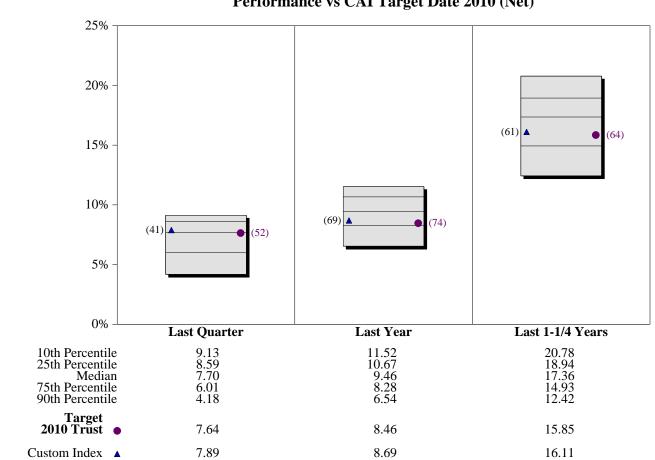
# Target 2010 Trust Schedule of Benchmark Allocation Changes

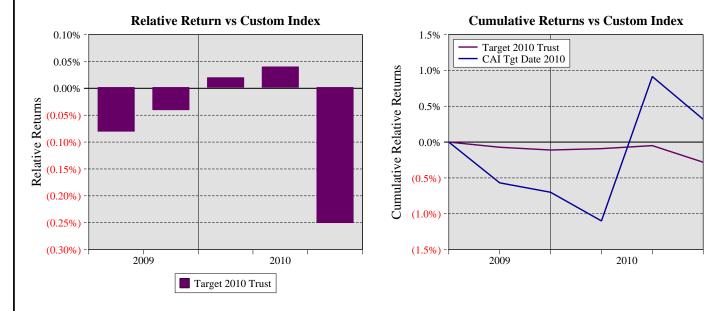


# TARGET 2010 TRUST PERIOD ENDED SEPTEMBER 30, 2010

#### **Quarterly Summary and Highlights**

- Target 2010 Trust's portfolio posted a 7.64% return for the quarter placing it in the 52 percentile of the CAI Target Date 2010 group for the quarter and in the 74 percentile for the last year.
- Target 2010 Trust's portfolio underperformed the Custom Index by 0.25% for the quarter and underperformed the Custom Index for the year by 0.23%.





# Performance vs CAI Target Date 2010 (Net)

Target 2015 Trust



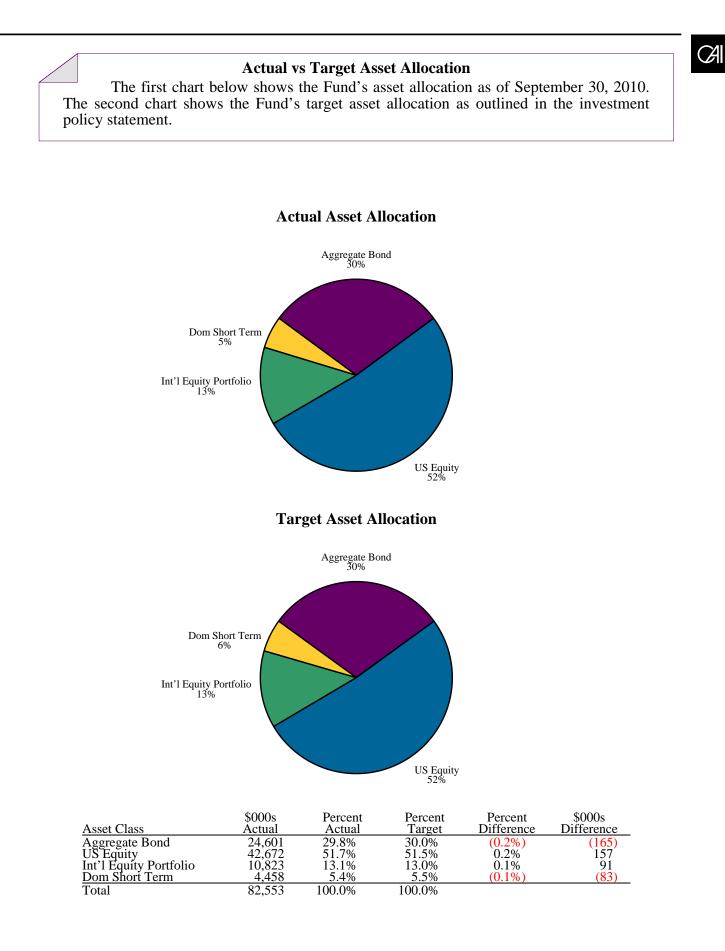
# Target 2015 Trust

Asset Allocation

	Strategic	Actual
Cash Money Market Fund	5.50%	5.41%
Fixed-Income Aggregate Bond	30.00%	29.80%
<u>Equity</u> US Equity International Fund	51.50% 13.00%	51.69% 13.11%

# **Objective**

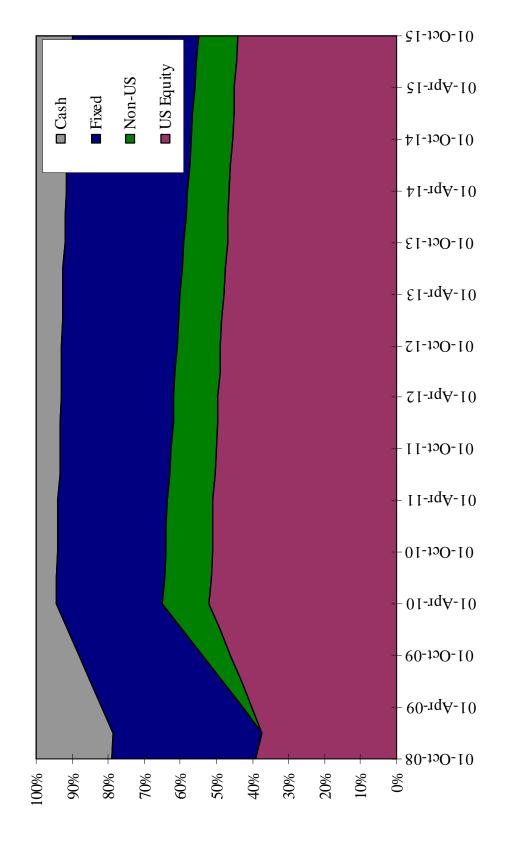
To provide a diversified mix of stocks, bonds, and cash for long-term investors with a higher tolerance for risk. This fund is designed to gradually invest more conservatively, with an emphasis on capital preservation, as the year 2015 approaches.



\* Current Quarter Target = 51.5% Russell 3000 Index, 30.0% BC Aggregate Index, 13.0% MSCI EAFE Index and 5.5% 3-month Treasury Bill.



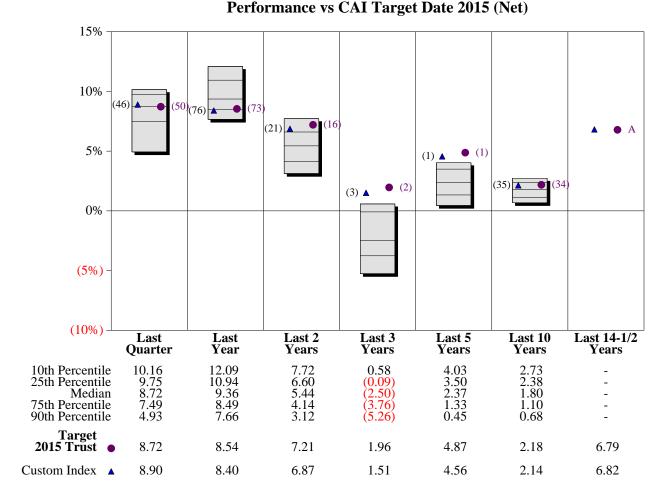


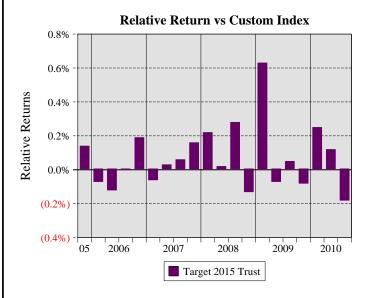


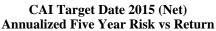
# **TARGET 2015 TRUST PERIOD ENDED SEPTEMBER 30, 2010**

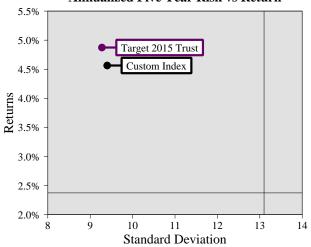
### **Quarterly Summary and Highlights**

- Target 2015 Trust's portfolio posted a 8.72% return for the quarter placing it in the 50 percentile of the CAI • Target Date 2015 group for the quarter and in the 73 percentile for the last year.
- Target 2015 Trust's portfolio underperformed the Custom Index by 0.18% for the quarter and outperformed . the Custom Index for the year by 0.14%.









Target 2020 Trust



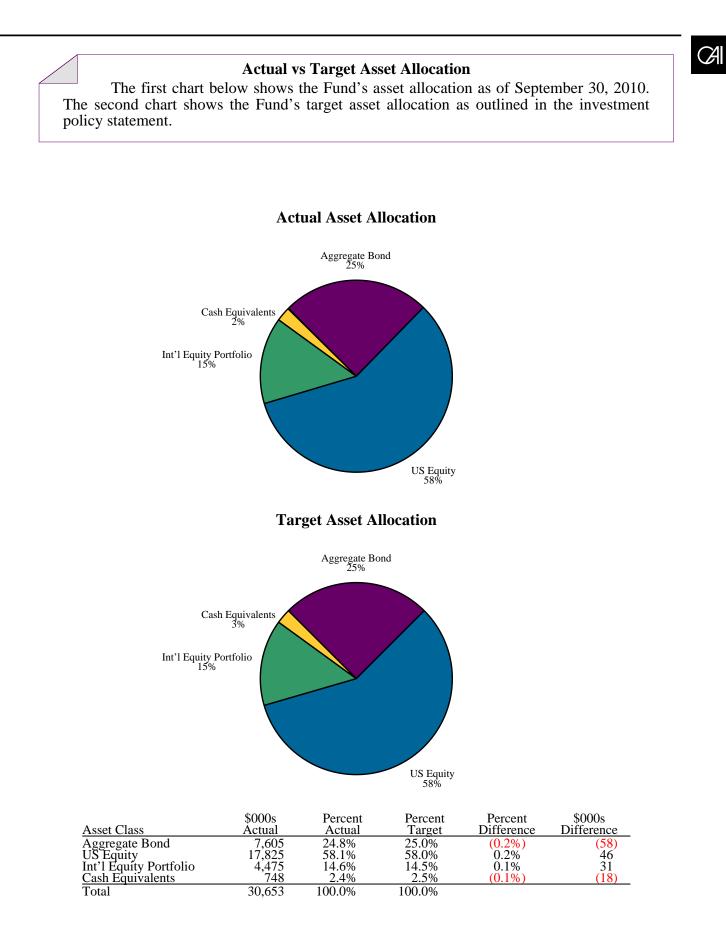
# Target 2020 Trust

Asset Allocation

	<u>Strategic</u>	Actual
Cash Money Market Fund	2.50%	2.45%
Fixed-Income Aggregate Bond	25.00%	24.81%
<u>Equity</u> US Equity International Fund	58.00% 14.50%	58.15% 14.60%

# **Objective**

To provide a diversified mix of stocks, bonds, and cash for long-term investors with a higher tolerance for risk. The fund is designed to gradually invest more conservatively, with an emphasis on capital preservation, as the year 2020 approaches.



\* Current Quarter Target = 58.0% Russell 3000 Index, 25.0% BC Aggregate Index, 14.5% MSCI EAFE Index and 2.5% 3-month Treasury Bill.



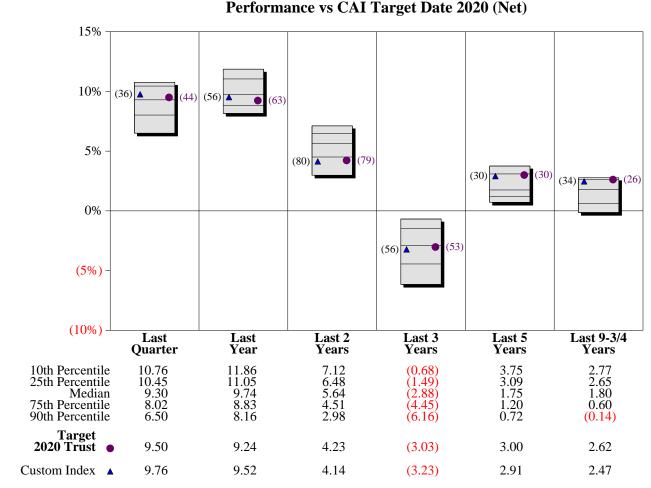


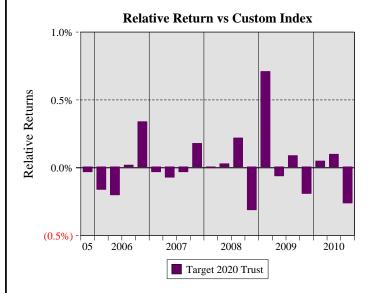


# TARGET 2020 TRUST PERIOD ENDED SEPTEMBER 30, 2010

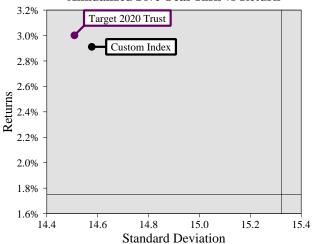
### **Quarterly Summary and Highlights**

- Target 2020 Trust's portfolio posted a 9.50% return for the quarter placing it in the 44 percentile of the CAI Target Date 2020 group for the quarter and in the 63 percentile for the last year.
- Target 2020 Trust's portfolio underperformed the Custom Index by 0.26% for the quarter and underperformed the Custom Index for the year by 0.29%.





#### CAI Target Date 2020 (Net) Annualized Five Year Risk vs Return



State of Alaska S B S - Target 2020 Trust

Target 2025 Trust



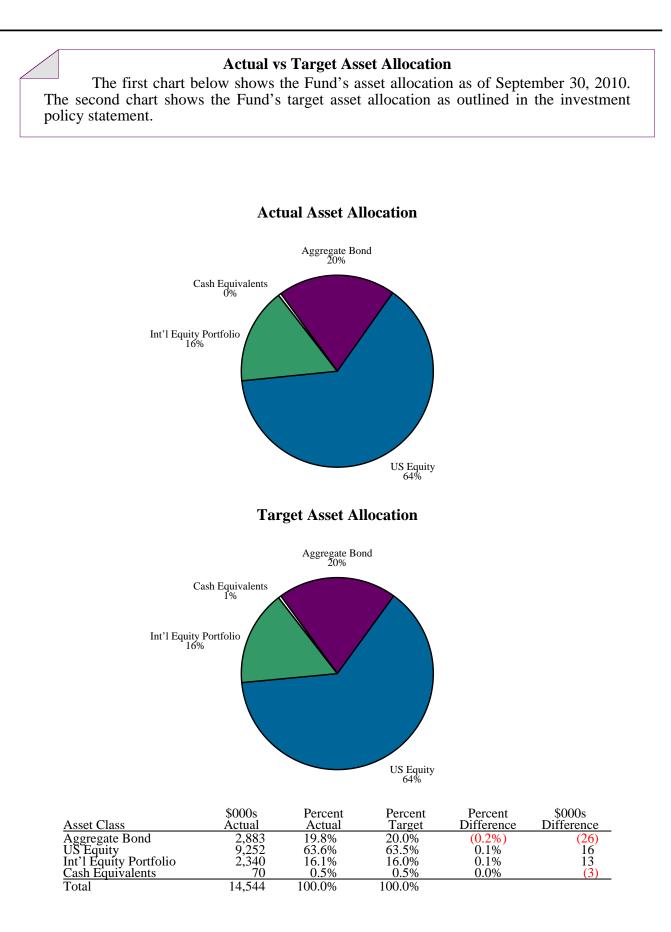
# Target 2025 Trust

Asset Allocation

	Strategic	Actual
Cash Money Market Fund	0.50%	0.48%
Fixed-Income Aggregate Bond	20.00%	19.82%
<u>Equity</u> US Equity International Fund	63.50% 16.00%	63.61% 16.09%

### **Objective**

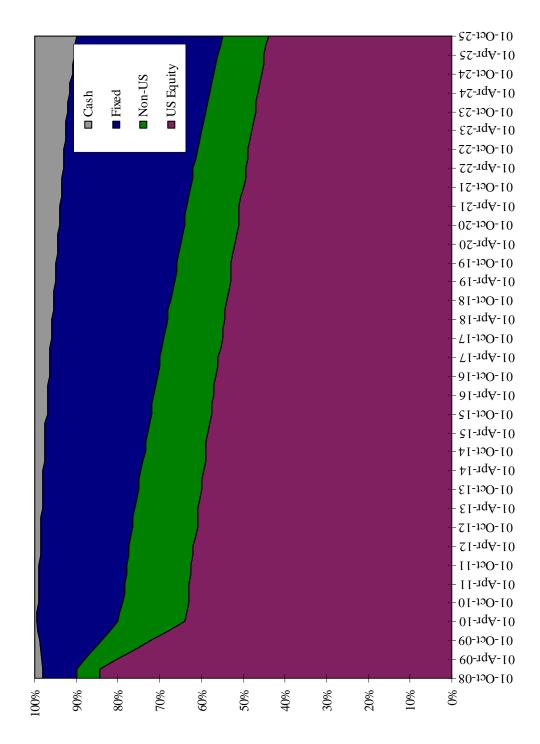
To provide a diversified mix of stocks, bonds, and cash for long-term investors with higher tolerance for risk. The fund is designed to gradually invest more conservatively, with an emphasis on capital preservation, as the year 2025 approaches.



\* Current Quarter Target = 63.5% Russell 3000 Index, 20.0% BC Aggregate Index, 16.0% MSCI EAFE Index and 0.5% 3-month Treasury Bill.



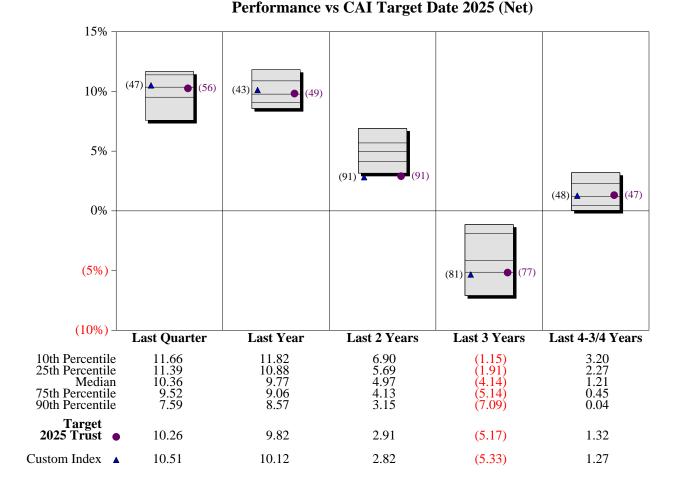
# Target 2025 Trust Schedule of Benchmark Allocation Changes

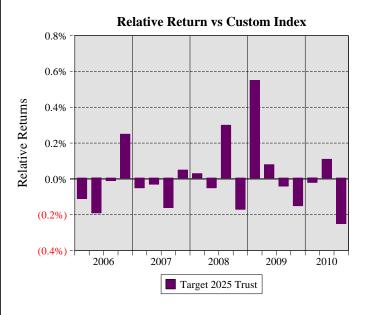


# TARGET 2025 TRUST PERIOD ENDED SEPTEMBER 30, 2010

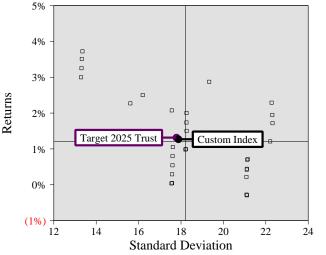
### **Quarterly Summary and Highlights**

- Target 2025 Trust's portfolio posted a 10.26% return for the quarter placing it in the 56 percentile of the CAI Target Date 2025 group for the quarter and in the 49 percentile for the last year.
- Target 2025 Trust's portfolio underperformed the Custom Index by 0.25% for the quarter and underperformed the Custom Index for the year by 0.30%.





CAI Target Date 2025 (Net) Annualized Four and Three-Quarter Year Risk vs Return



Target 2030 Trust



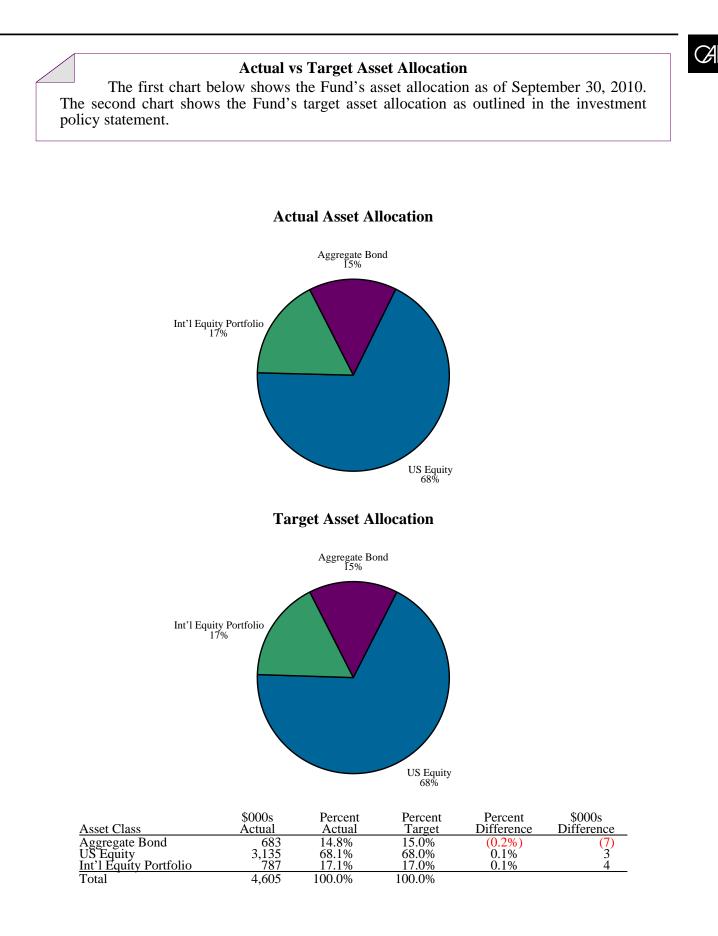
# Target 2030 Trust

# Asset Allocation

	Strategic	Actual
Cash Money Market Fund	0.00%	0.00%
<u>Fixed-Income</u> Aggregate Bond	15.00%	14.84%
<u>Equity</u> US Equity International Fund	68.00% 17.00%	68.07% 17.09%

# **Objective**

To provide a diversified mix of stocks, bonds, and cash for long-term investors with higher tolerance for risk. The trust is designed to gradually invest more conservatively, as the year 2030 approaches.

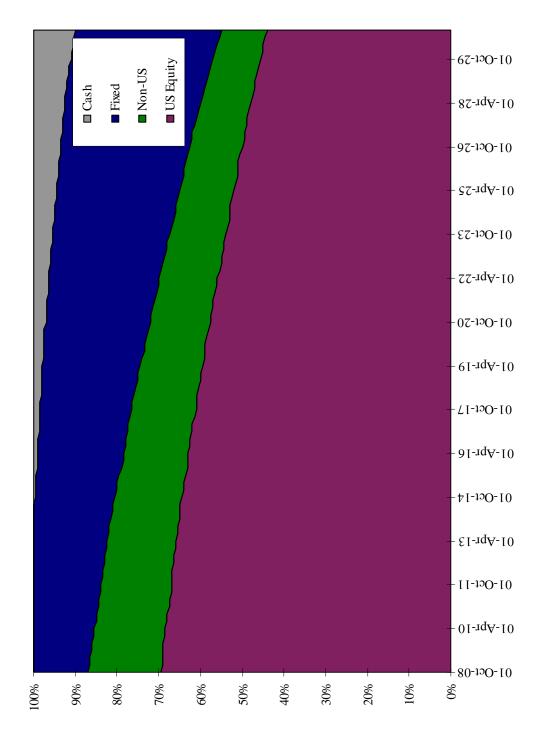


\* Current Quarter Target = 68.0% Russell 3000 Index, 17.0% MSCI EAFE Index and 15.0% BC Aggregate Index.

State of Alaska S B S Fund - Target 2030 Trust



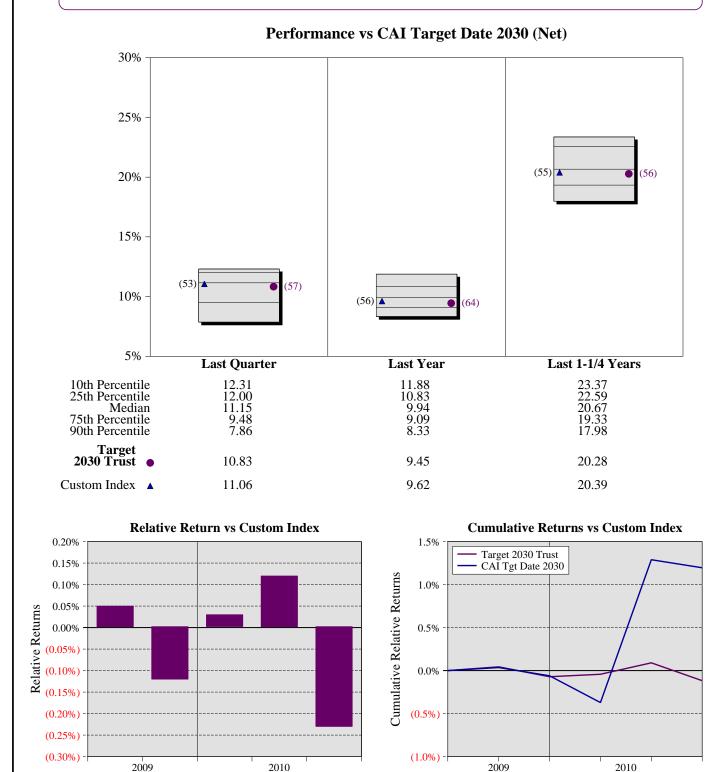
# Target 2030 Trust Schedule of Benchmark Allocation Changes



# TARGET 2030 TRUST PERIOD ENDED SEPTEMBER 30, 2010

### **Quarterly Summary and Highlights**

- Target 2030 Trust's portfolio posted a 10.83% return for the quarter placing it in the 57 percentile of the CAI Target Date 2030 group for the quarter and in the 64 percentile for the last year.
- Target 2030 Trust's portfolio underperformed the Custom Index by 0.23% for the quarter and underperformed the Custom Index for the year by 0.18%.



State of Alaska S B S Fund - Target 2030 Trust

Target 2030 Trust



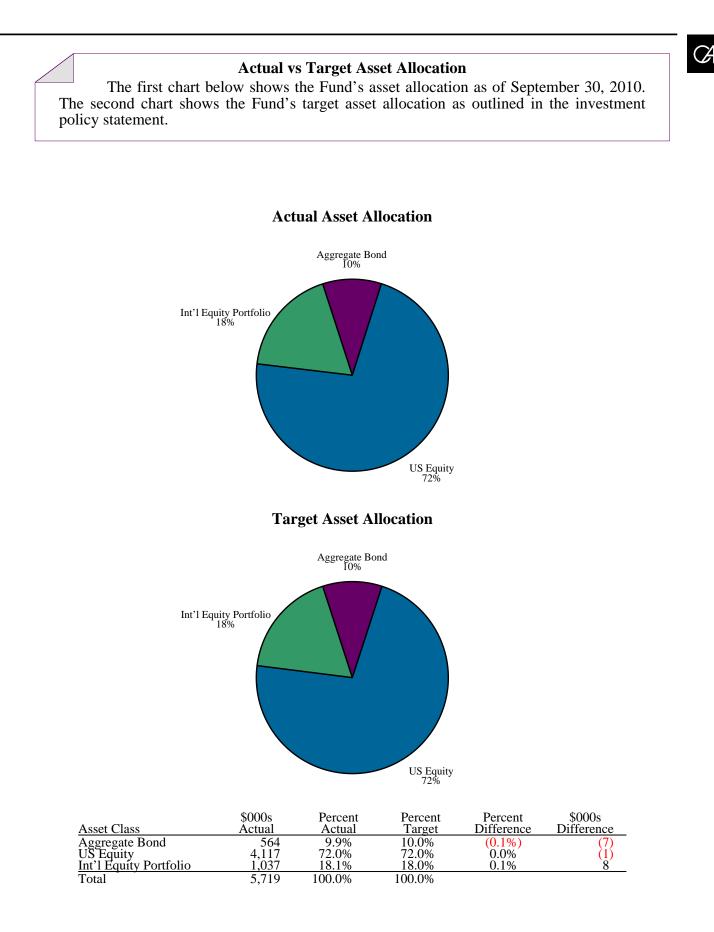
# Target 2035 Trust

Asset Allocation

	Strategic	Actual
<u>Cash</u> Money Market Fund	0.00%	0.00%
Fixed-Income Aggregate Bond	10.00%	9.87%
<u>Equity</u> US Equity International Fund	72.00% 18.00%	71.99% 18.14%

# **Objective**

To provide a diversified mix of stocks, bonds, and cash for long-term investors with higher tolerance for risk. The trust is designed to gradually invest more conservatively, as the year 2035 approaches.

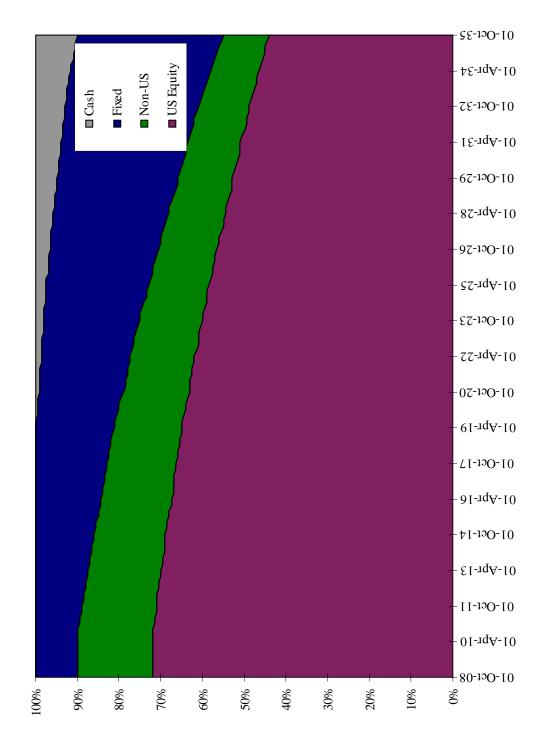


\* Current Quarter Target = 72.0% Russell 3000 Index, 18.0% MSCI EAFE Index and 10.0% BC Aggregate Index.

State of Alaska S B S Fund - Target 2035 Trust



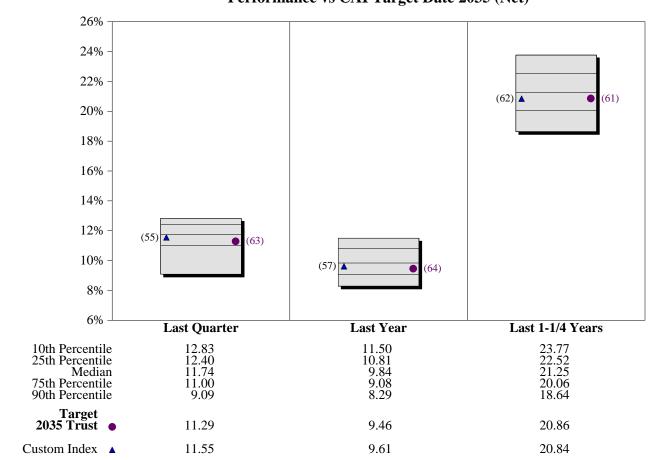
# Target 2035 Trust Schedule of Benchmark Allocation Changes

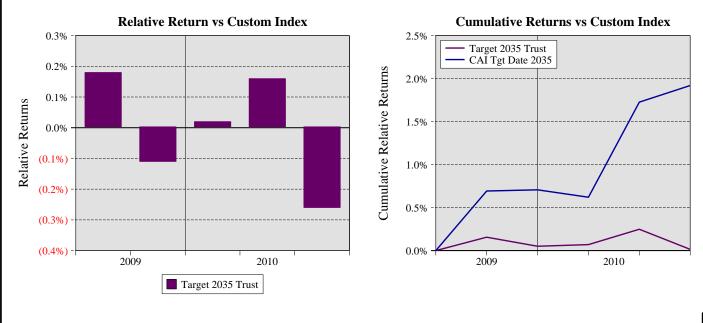


# TARGET 2035 TRUST PERIOD ENDED SEPTEMBER 30, 2010

### **Quarterly Summary and Highlights**

- Target 2035 Trust's portfolio posted a 11.29% return for the quarter placing it in the 63 percentile of the CAI Target Date 2035 group for the quarter and in the 64 percentile for the last year.
- Target 2035 Trust's portfolio underperformed the Custom Index by 0.26% for the quarter and underperformed the Custom Index for the year by 0.15%.





# Performance vs CAI Target Date 2035 (Net)

Target 2040 Trust



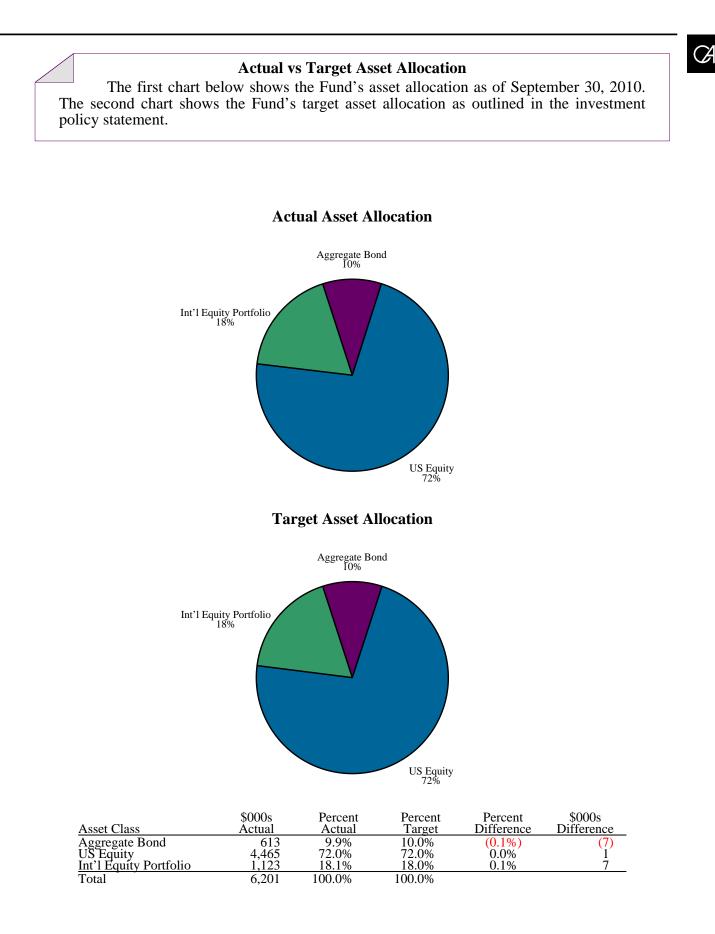
# Target 2040 Trust

Asset Allocation

	Strategic	Actual
Cash Money Market Fund	0.00%	0.00%
Fixed-Income Aggregate Bond	10.00%	9.88%
<u>Equity</u> US Equity	72.00%	72.01%
International Fund	18.00%	18.11%

# **Objective**

To provide a diversified mix of stocks, bonds, and cash for long-term investors with higher tolerance for risk. The trust is designed to gradually invest more conservatively, as the year 2040 approaches.

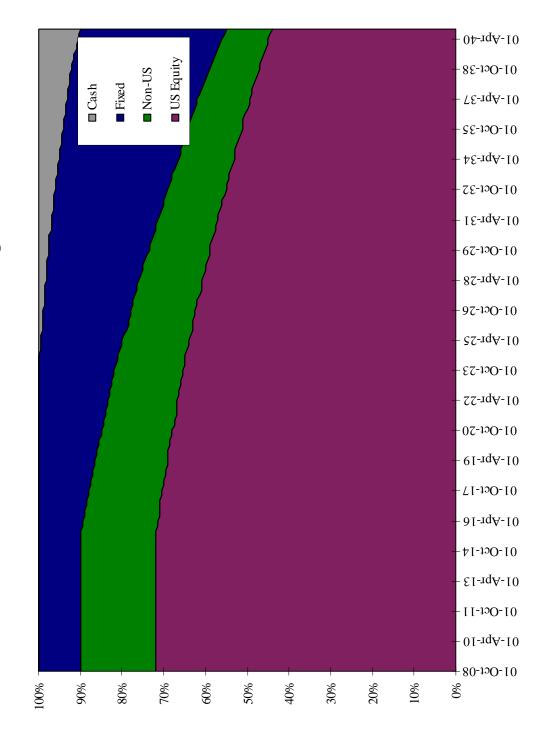


\* Current Quarter Target = 72.0% Russell 3000 Index, 18.0% MSCI EAFE Index and 10.0% BC Aggregate Index.

State of Alaska S B S Fund - Target 2040 Trust



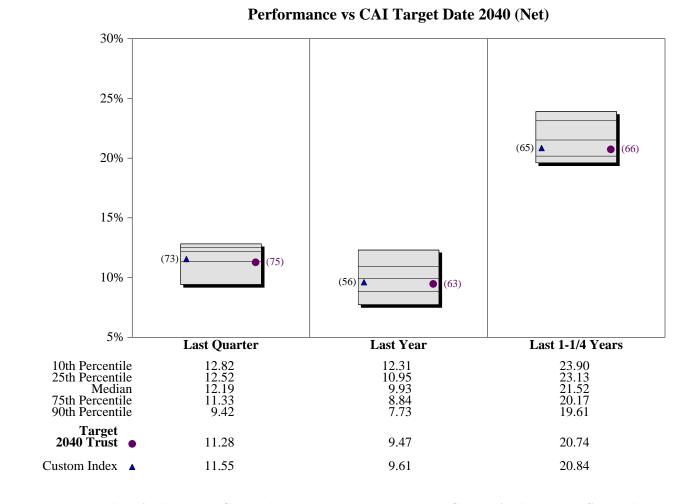
# Target 2040 Trust Schedule of Benchmark Allocation Changes

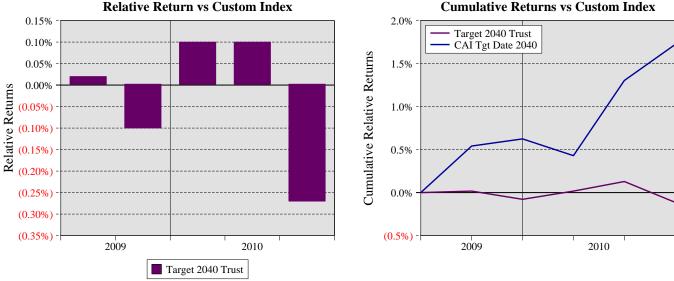


### TARGET 2040 TRUST PERIOD ENDED SEPTEMBER 30, 2010

### **Quarterly Summary and Highlights**

- Target 2040 Trust's portfolio posted a 11.28% return for the quarter placing it in the 75 percentile of the CAI Target Date 2040 group for the quarter and in the 63 percentile for the last year.
- Target 2040 Trust's portfolio underperformed the Custom Index by 0.27% for the quarter and underperformed the Custom Index for the year by 0.14%.





Target 2045 Trust

### STATE OF ALASKA SBS FUND



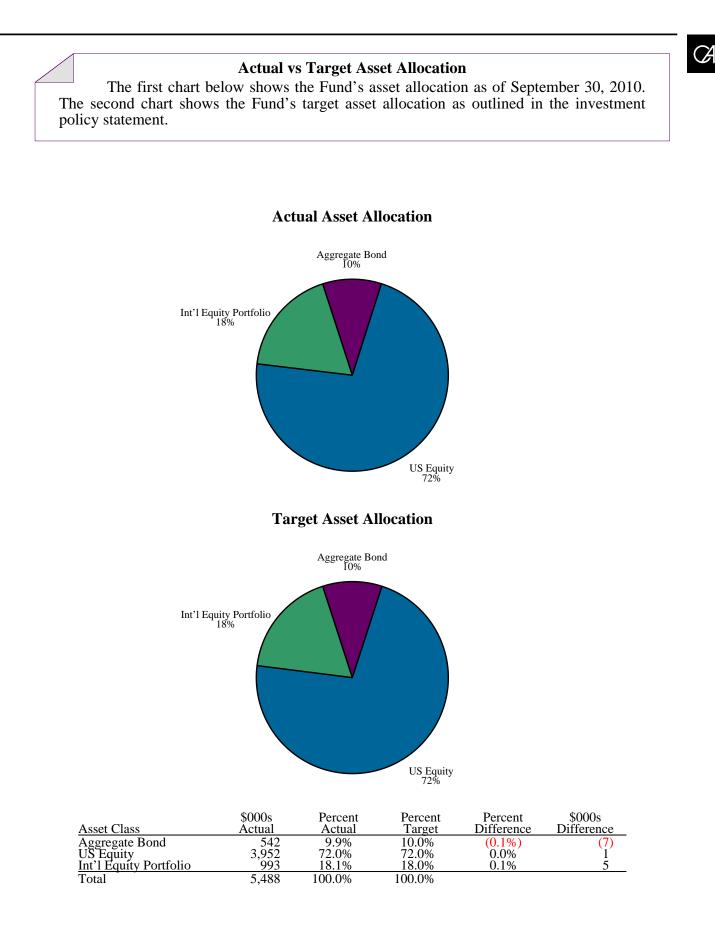
# Target 2045 Trust

Asset Allocation

	Strategic	Actual
Cash Money Market Fund	0.00%	0.00%
Fixed-Income Aggregate Bond	10.00%	9.88%
<u>Equity</u> US Equity International Fund	72.00% 18.00%	72.02% 18.10%

## **Objective**

To provide a diversified mix of stocks, bonds, and cash for long-term investors with higher tolerance for risk. The trust is designed to gradually invest more conservatively, as the year 2045 approaches.

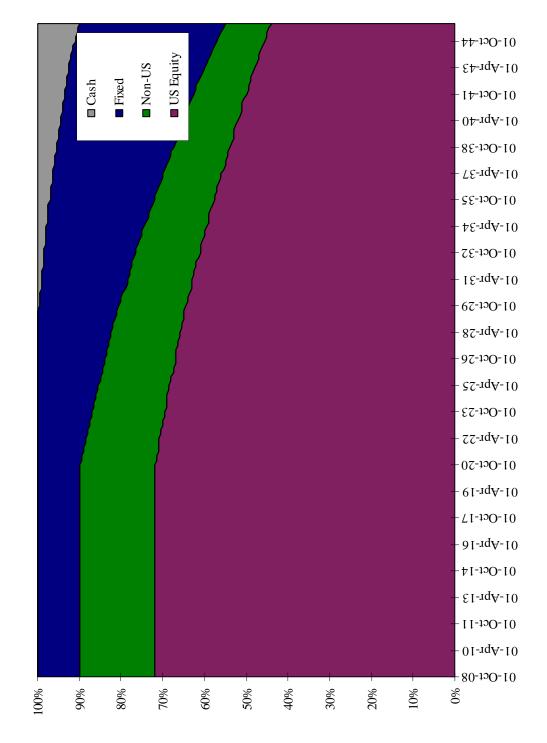


\* Current Quarter Target = 72.0% Russell 3000 Index, 18.0% MSCI EAFE Index and 10.0% BC Aggregate Index.

State of Alaska S B S Fund - Target 2045 Trust



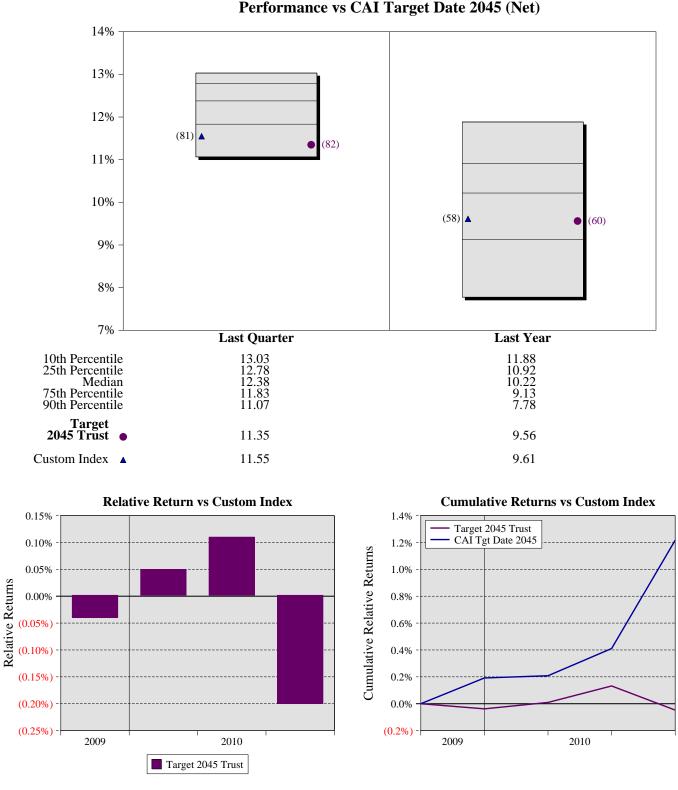
# Target 2045 Trust Schedule of Benchmark Allocation Changes



### **TARGET 2045 TRUST PERIOD ENDED SEPTEMBER 30, 2010**

### **Quarterly Summary and Highlights**

- Target 2045 Trust's portfolio posted a 11.35% return for the quarter placing it in the 82 percentile of the CAI Target Date 2045 group for the quarter and in the 60 percentile for the last year.
- Target 2045 Trust's portfolio underperformed the Custom Index by 0.20% for the quarter and underperformed . the Custom Index for the year by 0.05%.



Target 2050 Trust

### STATE OF ALASKA SBS FUND



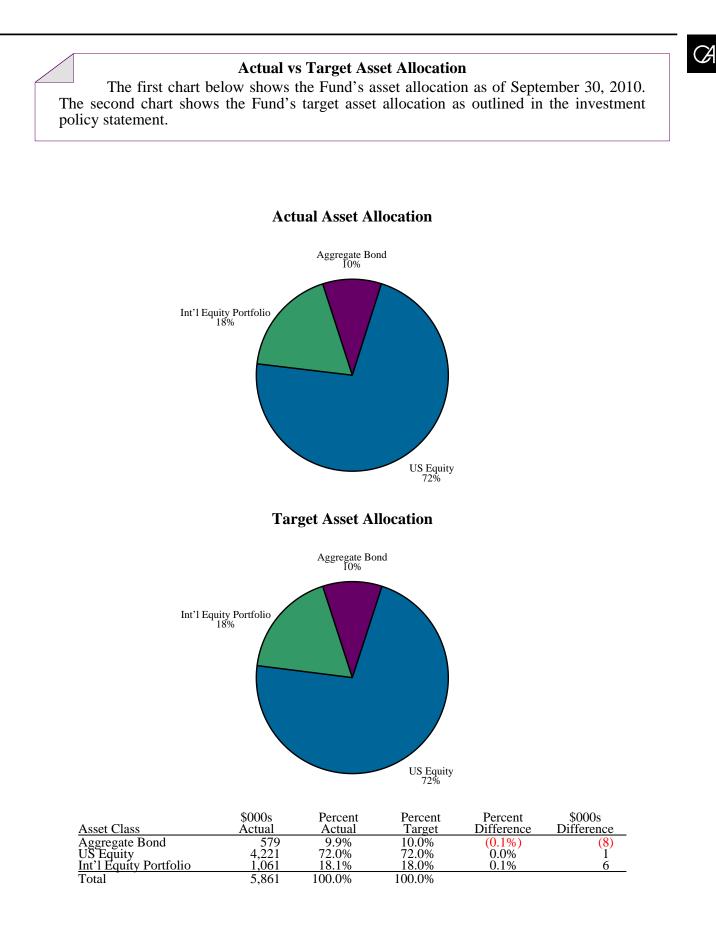
# Target 2050 Trust

Asset Allocation

	Strategic	Actual
Cash Money Market Fund	0.00%	0.00%
Fixed-Income Aggregate Bond	10.00%	9.88%
<u>Equity</u> US Equity International Fund	72.00% 18.00%	72.02% 18.11%

## **Objective**

To provide a diversified mix of stocks, bonds, and cash for long-term investors with higher tolerance for risk. The trust is designed to gradually invest more conservatively, as the year 2050 approaches.

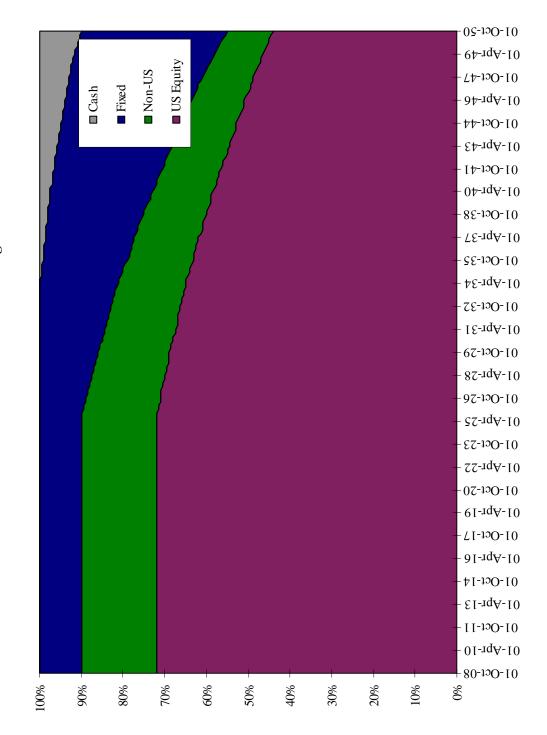


\* Current Quarter Target = 72.0% Russell 3000 Index, 18.0% MSCI EAFE Index and 10.0% BC Aggregate Index.

State of Alaska S B S Fund - Target 2050 Trust



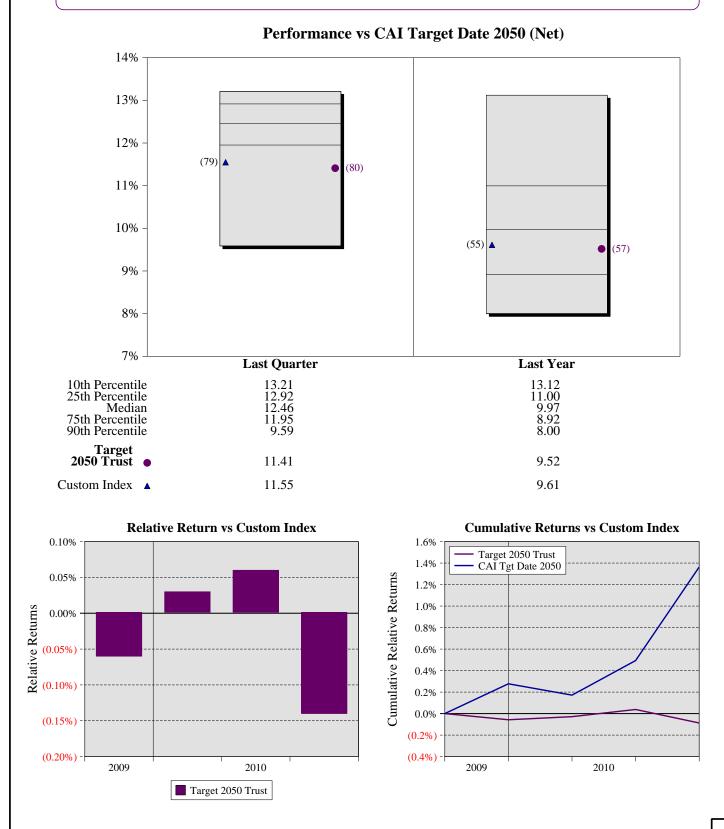
# Target 2050 Trust Schedule of Benchmark Allocation Changes



### TARGET 2050 TRUST PERIOD ENDED SEPTEMBER 30, 2010

### **Quarterly Summary and Highlights**

- Target 2050 Trust's portfolio posted a 11.41% return for the quarter placing it in the 80 percentile of the CAI Target Date 2050 group for the quarter and in the 57 percentile for the last year.
- Target 2050 Trust's portfolio underperformed the Custom Index by 0.14% for the quarter and underperformed the Custom Index for the year by 0.10%.



Target 2055 Trust

### STATE OF ALASKA SBS FUND



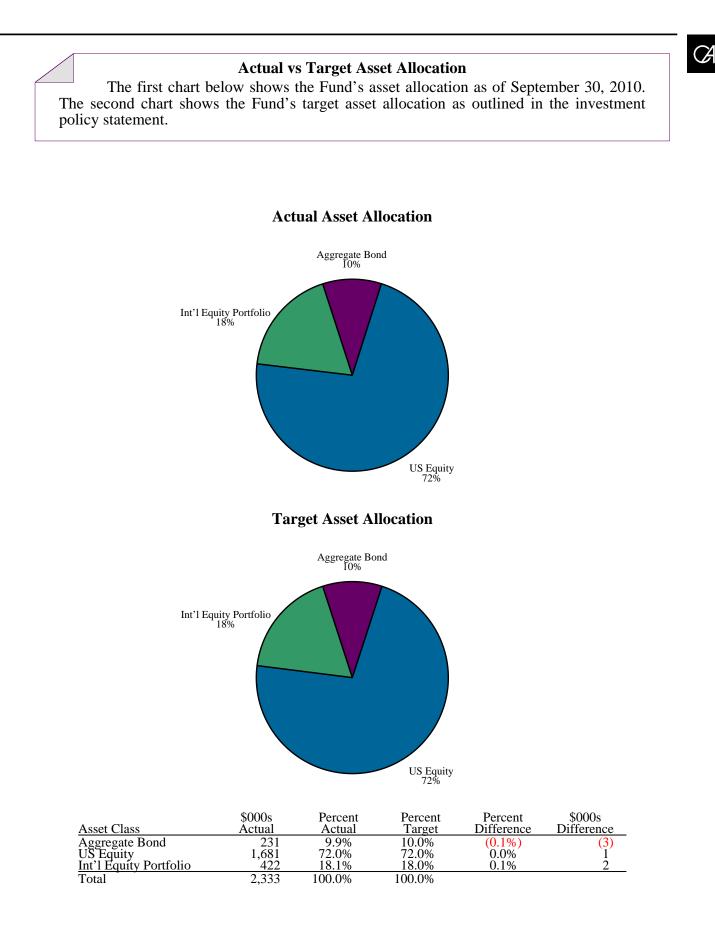
# Target 2055 Trust

Asset Allocation

	Strategic	Actual
Cash Money Market Fund	0.00%	0.00%
Fixed-Income Aggregate Bond	10.00%	9.90%
<u>Equity</u> US Equity International Fund	72.00% 18.00%	72.03% 18.08%

## **Objective**

To provide a diversified mix of stocks, bonds, and cash for long-term investors with higher tolerance for risk. The trust is designed to gradually invest more conservatively, as the year 2055 approaches.

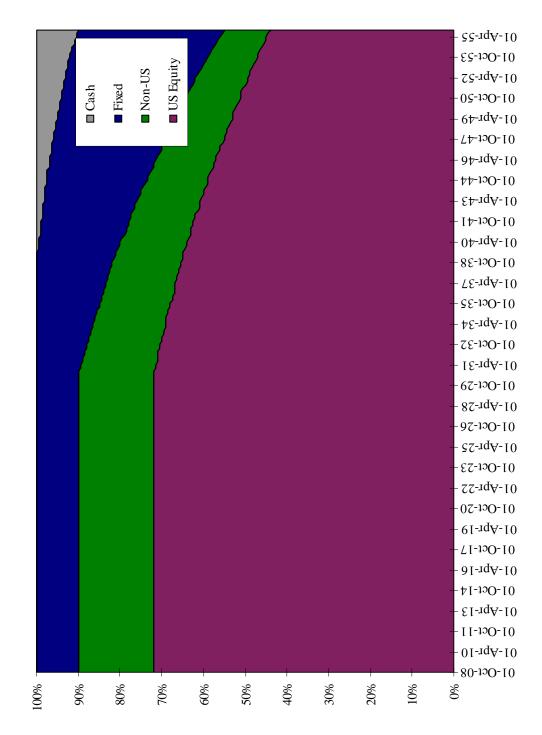


\* Current Quarter Target = 72.0% Russell 3000 Index, 18.0% MSCI EAFE Index and 10.0% BC Aggregate Index.

State of Alaska S B S Fund - Target 2055 Trust



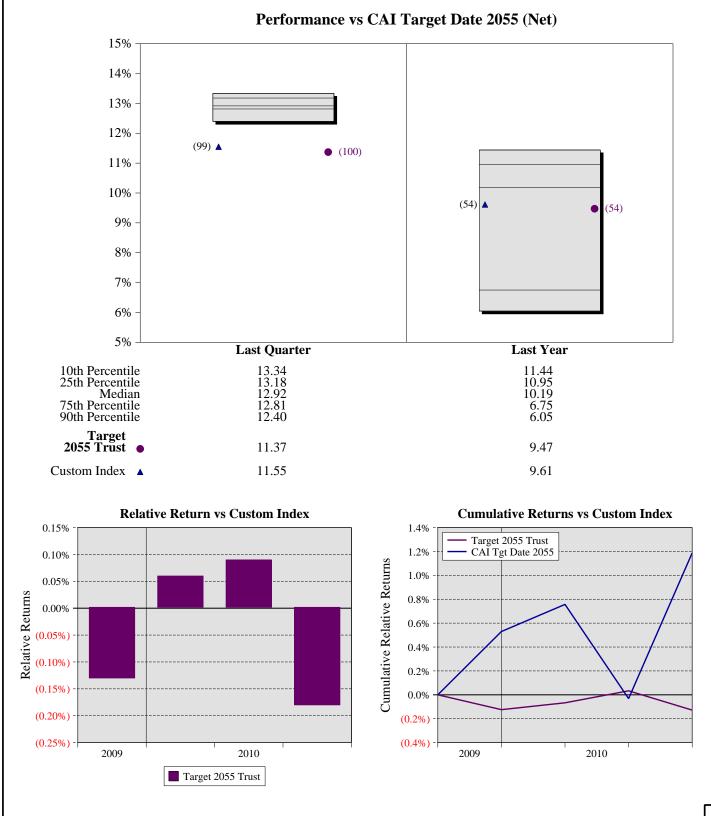
# Target 2055 Trust Schedule of Benchmark Allocation Changes



### TARGET 2055 TRUST PERIOD ENDED SEPTEMBER 30, 2010

### **Quarterly Summary and Highlights**

- Target 2055 Trust's portfolio posted a 11.37% return for the quarter placing it in the 100 percentile of the CAI Target Date 2055 group for the quarter and in the 54 percentile for the last year.
- Target 2055 Trust's portfolio underperformed the Custom Index by 0.18% for the quarter and underperformed the Custom Index for the year by 0.14%.



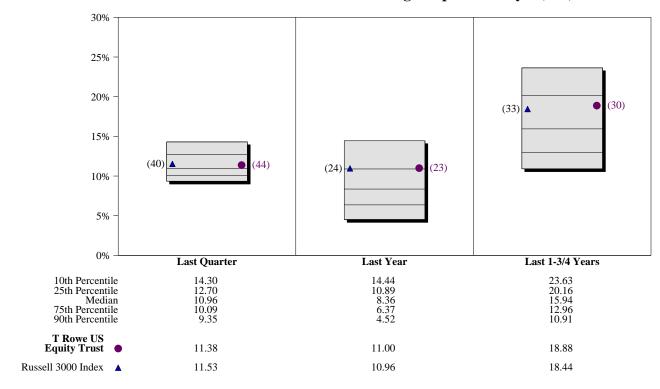
### T ROWE US EQUITY TRUST PERIOD ENDED SEPTEMBER 30, 2010

### **Investment Philosophy**

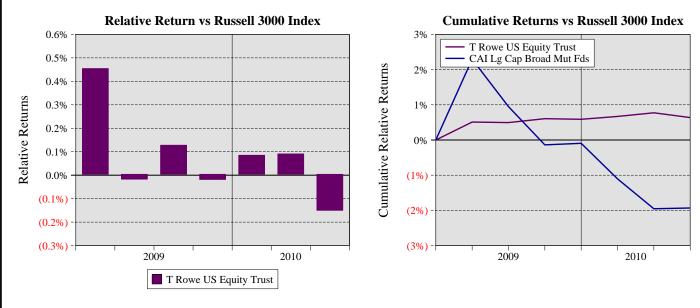
Large Capitalization managers concentrate their holdings in large market capitalization domestic equity securities regardless of style (growth, value or core) orientation.

### **Quarterly Summary and Highlights**

- T Rowe US Equity Trust's portfolio posted a 11.38% return for the quarter placing it in the 44 percentile of the CAI MF Large Cap Broad Style group for the quarter and in the 23 percentile for the last year.
- T Rowe US Equity Trust's portfolio underperformed the Russell 3000 Index by 0.15% for the quarter and outperformed the Russell 3000 Index for the year by 0.03%.



Performance vs CAI MF - Large Cap Broad Style (Net)



State of Alaska S B S - T. Rowe Price Us Equity Trust

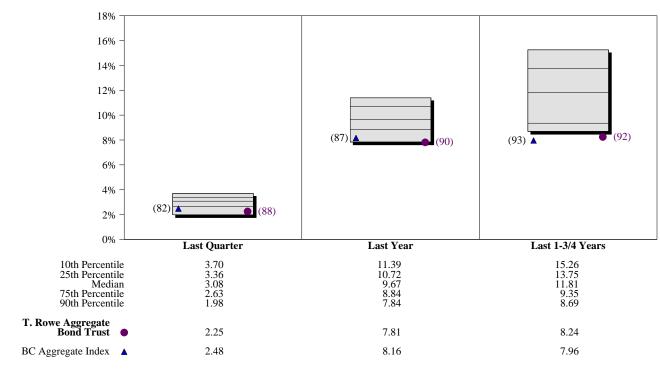
### T. ROWE AGGREGATE BOND TRUST PERIOD ENDED SEPTEMBER 30, 2010

### **Investment Philosophy**

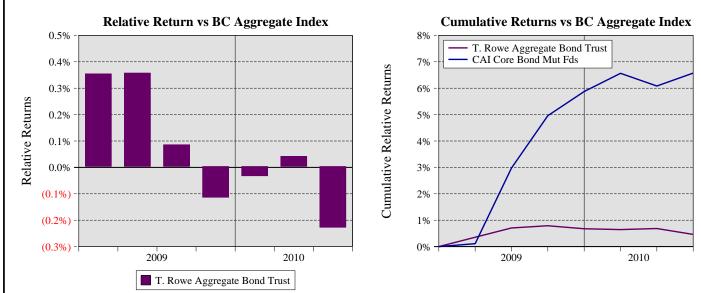
Core Bond Style mutual funds aim to achieve value added from sector and/or issue selection. Funds are constructed to approximate the investment results of the Barclays Capital Gov/Corp Index or the BC Aggregate Index with little duration variability around the index.

### **Quarterly Summary and Highlights**

- T. Rowe Aggregate Bond Trust's portfolio posted a 2.25% return for the quarter placing it in the 88 percentile of the CAI MF Core Bond Style group for the quarter and in the 90 percentile for the last year.
- T. Rowe Aggregate Bond Trust's portfolio underperformed the BC Aggregate Index by 0.23% for the quarter and underperformed the BC Aggregate Index for the year by 0.35%.







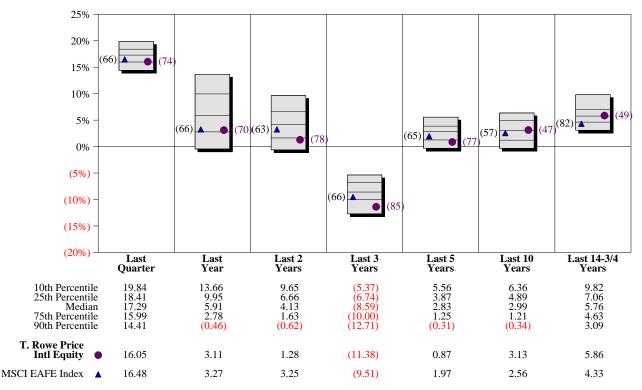
### T. ROWE PRICE INTL EQUITY PERIOD ENDED SEPTEMBER 30, 2010

### **Investment Philosophy**

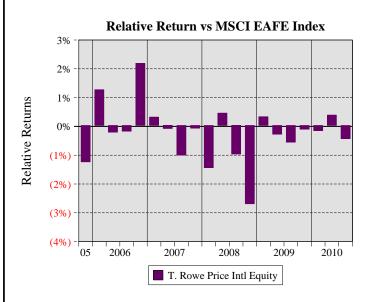
Non-U.S. Equity Style mutual funds invest in only non-U.S. equity securities. This style group excludes regional and index funds.

### **Quarterly Summary and Highlights**

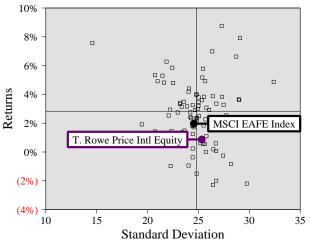
- T. Rowe Price Intl Equity's portfolio posted a 16.05% return for the quarter placing it in the 74 percentile of the CAI MF Non-US Equity Style group for the quarter and in the 70 percentile for the last year.
- T. Rowe Price Intl Equity's portfolio underperformed the MSCI EAFE Index by 0.43% for the quarter and underperformed the MSCI EAFE Index for the year by 0.16%.



Performance vs CAI MF - Non-US Equity Style (Net)



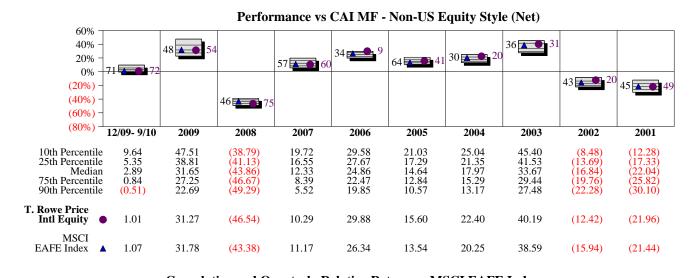
### CAI MF - Non-US Equity Style (Net) Annualized Five Year Risk vs Return



### T. ROWE PRICE INTL EQUITY RETURN ANALYSIS SUMMARY

### **Return Analysis**

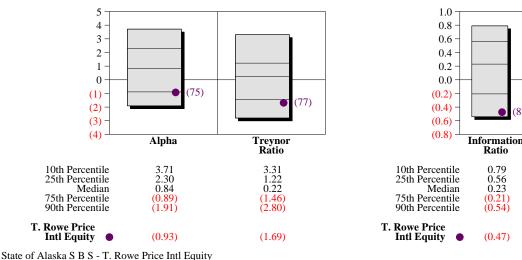
The graphs below analyze the manager's return on both a risk-adjusted and unadjusted basis. The first chart illustrates the manager's ranking over different periods versus the appropriate style group. The second chart shows the historical quarterly and cumulative manager returns versus the appropriate market benchmark. The last two charts illustrate the manager's ranking relative to their style using various risk-adjusted return measures.

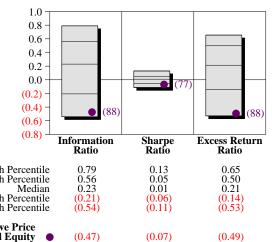




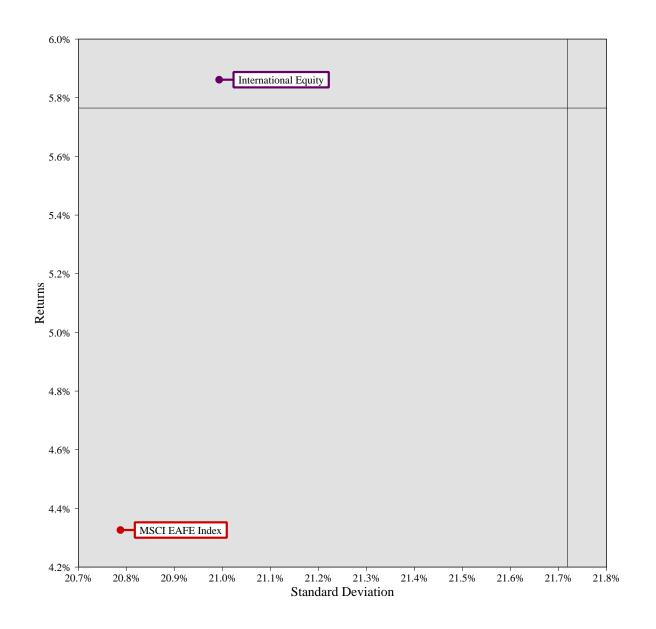
T. Rowe Price Intl Equity CAI Non-U.S. Equity MF Risk Adjusted Return Measures vs MSCI EAFE Index

Rankings Against CAI MF - Non-US Equity Style (Net) Five Years Ended September 30, 2010





### STATE OF ALASKA S B S - T. ROWE PRICE INTL EQUITY RISK/REWARD VS CAI MF - NON-US EQUITY STYLE FOURTEEN AND THREE-QUARTER YEARS ENDED SEPTEMBER 30, 2010



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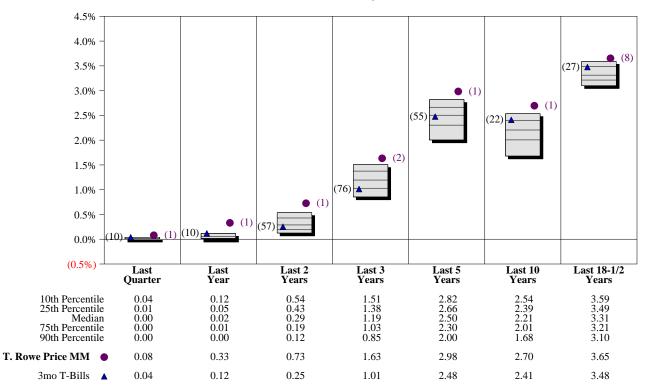
### T. ROWE PRICE MM PERIOD ENDED SEPTEMBER 30, 2010

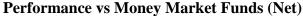
### **Investment Philosophy**

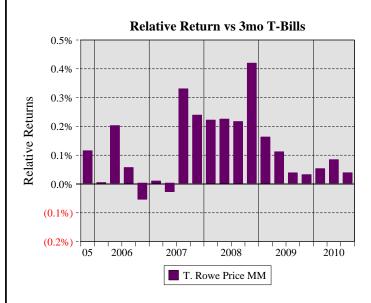
Fund invests in high quality financial instruments rated in top two grades with dollar-weighted average maturities of less than 90 days. Intend to keep a constant NAV.

### **Quarterly Summary and Highlights**

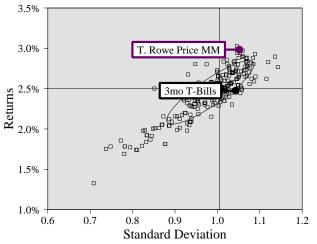
- T. Rowe Price MM's portfolio posted a 0.08% return for the quarter placing it in the 1 percentile of the Money Market Funds group for the quarter and in the 1 percentile for the last year.
- T. Rowe Price MM's portfolio outperformed the 3mo T-Bills by 0.04% for the quarter and outperformed the 3mo T-Bills for the year by 0.21%.











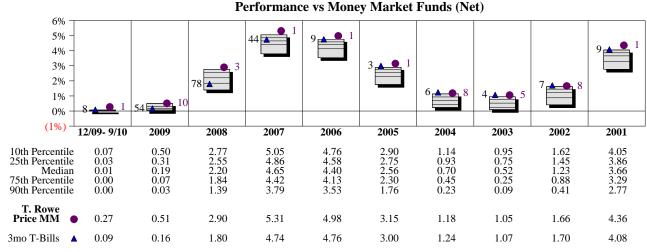
State of Alaska S B S Fund - T. Rowe Price Mm

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### T. ROWE PRICE MM RETURN ANALYSIS SUMMARY

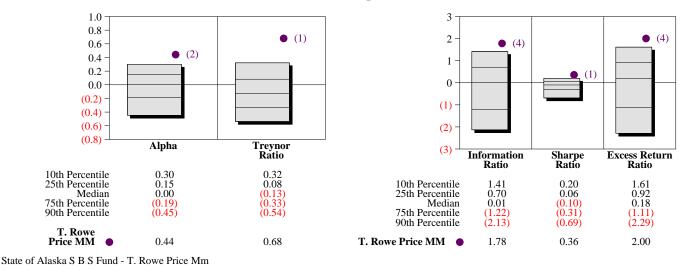
### **Return Analysis**

The graphs below analyze the manager's return on both a risk-adjusted and unadjusted basis. The first chart illustrates the manager's ranking over different periods versus the appropriate style group. The second chart shows the historical quarterly and cumulative manager returns versus the appropriate market benchmark. The last two charts illustrate the manager's ranking relative to their style using various risk-adjusted return measures.





Risk Adjusted Return Measures vs 3mo T-Bills Rankings Against Money Market Funds (Net) Five Years Ended September 30, 2010



State Street S&P Fund

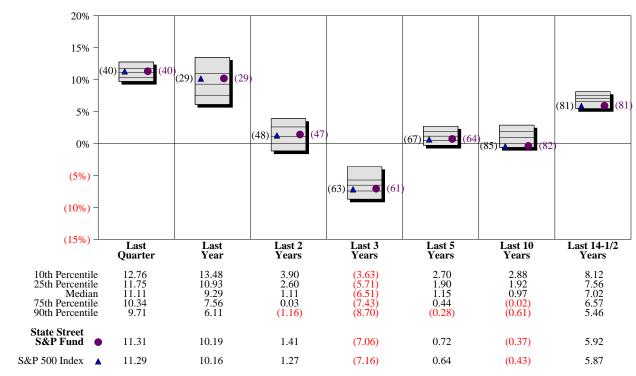
### STATE STREET S&P FUND PERIOD ENDED SEPTEMBER 30, 2010

### **Investment Philosophy**

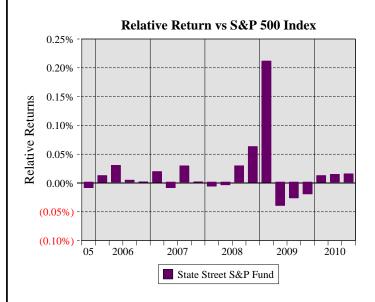
Core Equity Style managers hold portfolios with characteristics similar to that of the broader market as represented by the Standard & Poor's 500 Index. Their objective is to add value over and above the index, typically from sector or issue selection.

### **Quarterly Summary and Highlights**

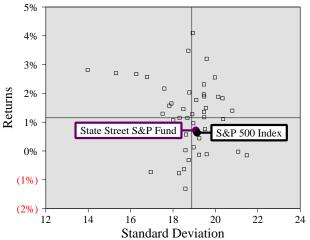
- State Street S&P Fund's portfolio posted a 11.31% return for the quarter placing it in the 40 percentile of the CAI Large Cap Core Style group for the quarter and in the 29 percentile for the last year.
- State Street S&P Fund's portfolio outperformed the S&P 500 Index by 0.02% for the quarter and outperformed the S&P 500 Index for the year by 0.03%.



### Performance vs CAI Large Cap Core Style (Gross)



### CAI Large Cap Core Style (Gross) Annualized Five Year Risk vs Return

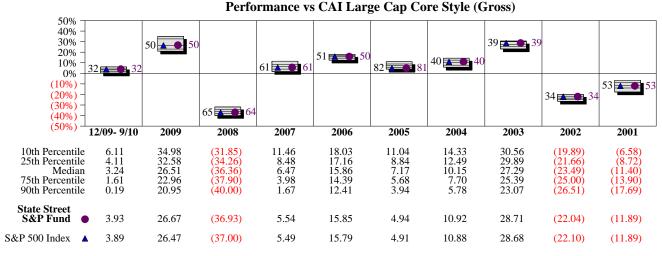


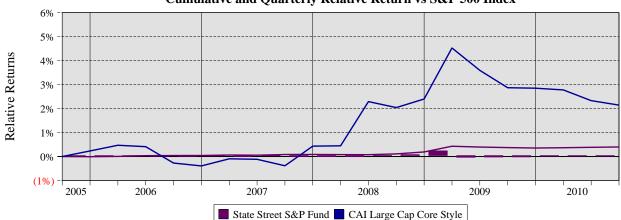
State of Alaska S B S Fund - State Street S & P Fund

### STATE STREET S&P FUND RETURN ANALYSIS SUMMARY

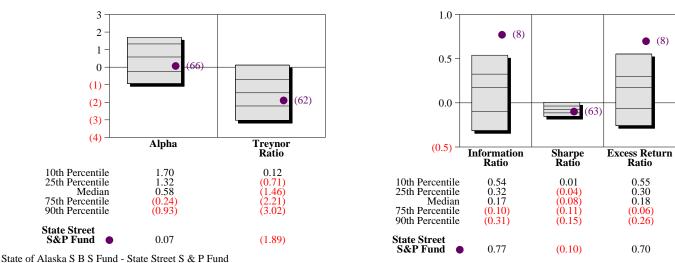
### **Return Analysis**

The graphs below analyze the manager's return on both a risk-adjusted and unadjusted basis. The first chart illustrates the manager's ranking over different periods versus the appropriate style group. The second chart shows the historical quarterly and cumulative manager returns versus the appropriate market benchmark. The last two charts illustrate the manager's ranking relative to their style using various risk-adjusted return measures.









Cumulative and Quarterly Relative Return vs S&P 500 Index

Russell 3000 Index Fund

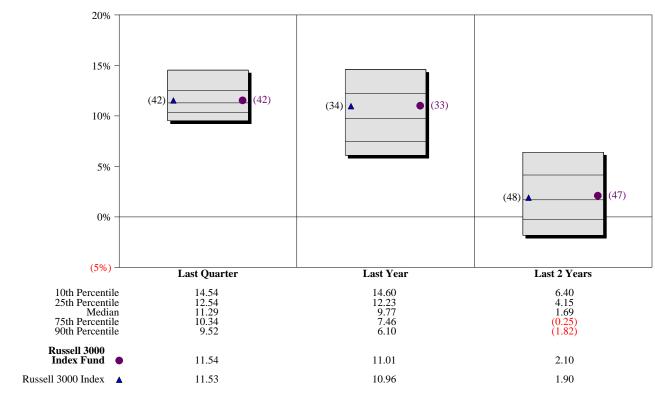
### RUSSELL 3000 INDEX FUND PERIOD ENDED SEPTEMBER 30, 2010

### **Investment Philosophy**

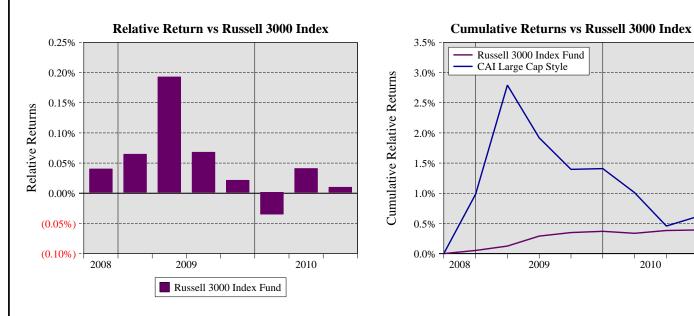
The Russell 3000 Index Strategy seeks to replicate the returns and characteristics of the Russell 3000 Index. .

### **Quarterly Summary and Highlights**

- Russell 3000 Index Fund's portfolio posted a 11.54% return for the quarter placing it in the 42 percentile of the CAI Large Capitalization Style group for the quarter and in the 33 percentile for the last year.
- Russell 3000 Index Fund's portfolio outperformed the Russell 3000 Index by 0.01% for the quarter and outperformed the Russell 3000 Index for the year by 0.05%.



## Performance vs CAI Large Capitalization Style (Gross)



World Equity ex US Index Fd

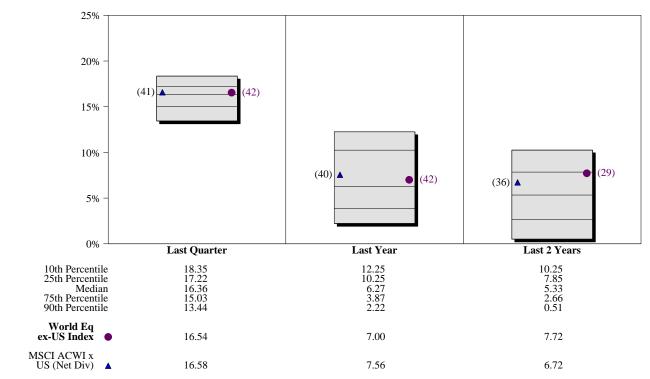
### WORLD EQ EX-US INDEX PERIOD ENDED SEPTEMBER 30, 2010

### **Investment Philosophy**

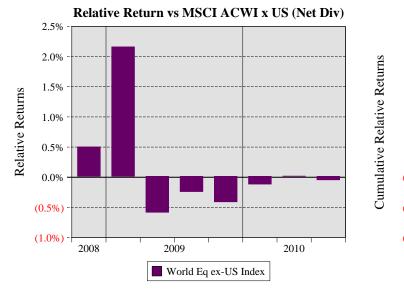
State Street's objective is to provide the most cost-effective implementation with stringent risk control and tracking requirements.

### **Quarterly Summary and Highlights**

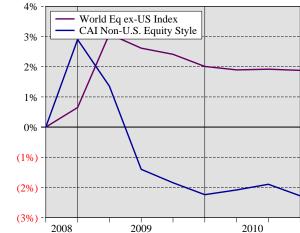
- World Eq ex-US Index's portfolio posted a 16.54% return for the quarter placing it in the 42 percentile of the CAI Non-U.S. Equity Style group for the quarter and in the 42 percentile for the last year.
- World Eq ex-US Index's portfolio underperformed the MSCI ACWI x US (Net Div) by 0.04% for the quarter and underperformed the MSCI ACWI x US (Net Div) for the year by 0.56%.



Performance vs CAI Non-U.S. Equity Style (Gross)







State of Alaska S B S Fund - World Eq Ex-Us Index

Long US Treasury Bond Index

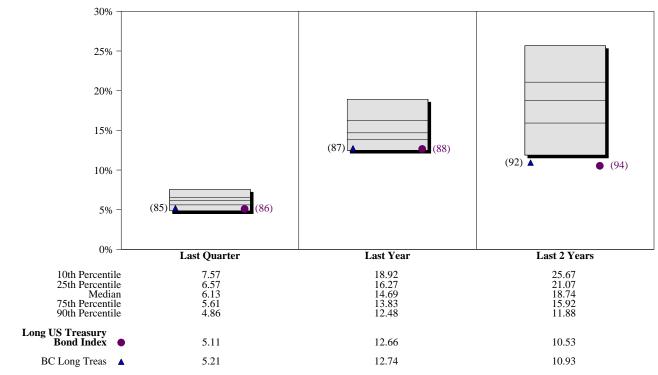
### LONG US TREASURY BOND INDEX PERIOD ENDED SEPTEMBER 30, 2010

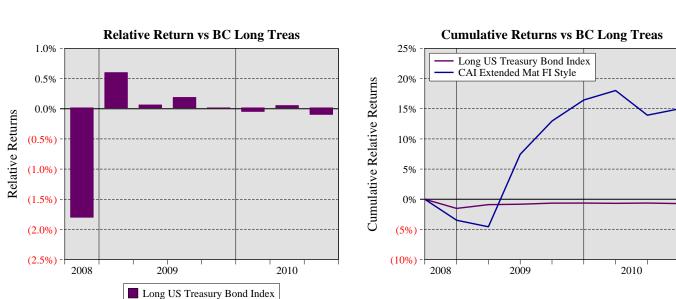
### **Investment Philosophy**

Extended Maturity Style managers construct portfolios with average durations greater than that of the BC Gov/Corp Index. Variations in bond portfolio characteristics are made to enhance performance results

### **Quarterly Summary and Highlights**

- Long US Treasury Bond Index's portfolio posted a 5.11% return for the quarter placing it in the 86 percentile of the CAI Extended Maturity Fixed-Inc Style group for the quarter and in the 88 percentile for the last year.
- Long US Treasury Bond Index's portfolio underperformed the BC Long Treas by 0.10% for the quarter and underperformed the BC Long Treas for the year by 0.08%.





Performance vs CAI Extended Maturity Fixed-Inc Style (Gross)

US Treasury Inflation Protected

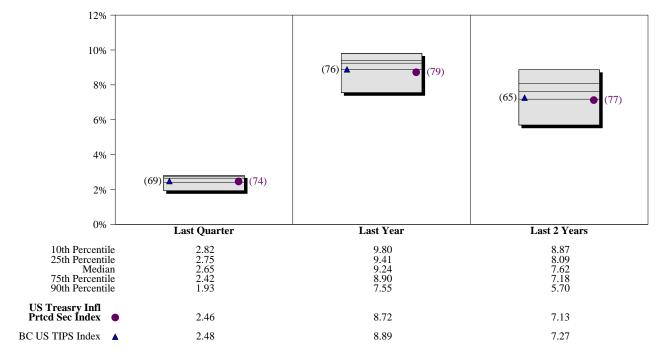
### US TREASRY INFL PRTCD SEC INDEX PERIOD ENDED SEPTEMBER 30, 2010

### **Investment Philosophy**

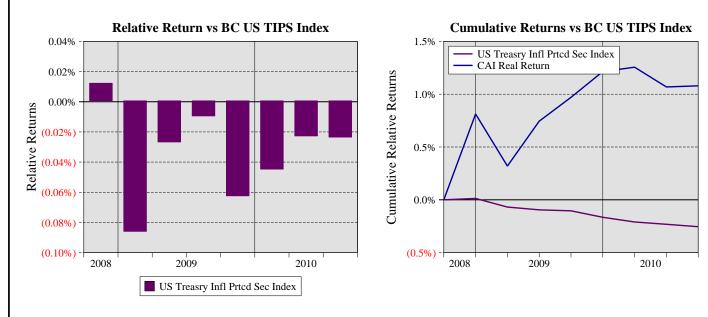
The Passive Treasury Inflation Protected Securities Strategy seeks to match the total rate of return of the BC Inflation Notes Index by investing in a portfolio of US Treasury inflation protected securities. It is managed duration neutral to the Index at all times. Overall sector and security weightings are also matched to the Index. The strategy is one of full replication, owning a market-value weight of each security in the benchmark.

### **Quarterly Summary and Highlights**

- US Treasry Infl Prtcd Sec Index's portfolio posted a 2.46% return for the quarter placing it in the 74 percentile of the CAI Real Return group for the quarter and in the 79 percentile for the last year.
- US Treasry Infl Prtcd Sec Index's portfolio underperformed the BC US TIPS Index by 0.02% for the quarter and underperformed the BC US TIPS Index for the year by 0.16%.



### Performance vs CAI Real Return (Gross)



World Gov't Bond ex US Index

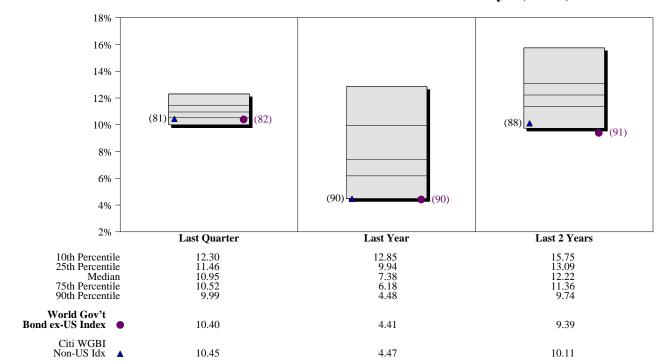
### WORLD GOV'T BOND EX-US INDEX PERIOD ENDED SEPTEMBER 30, 2010

#### **Investment Philosophy**

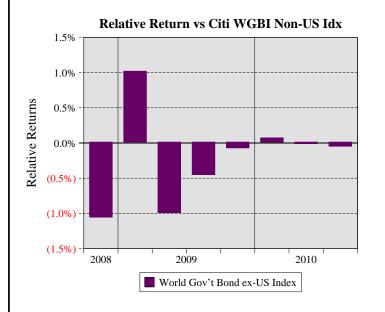
Non-U.S. Fixed-Income Style managers generally invest their assets only in non-U.S. fixed-income securities. These funds seek to take advantage of international currency and interest rate movements, bond yields, and/or international diversification.

#### **Quarterly Summary and Highlights**

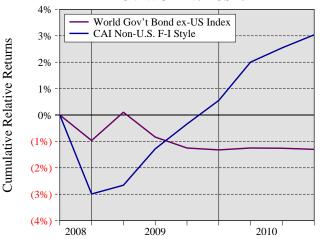
- World Gov't Bond ex-US Index's portfolio posted a 10.40% return for the quarter placing it in the 82 percentile of the CAI Non-U.S. Fixed-Inc Style group for the quarter and in the 90 percentile for the last year.
- World Gov't Bond ex-US Index's portfolio underperformed the Citi WGBI Non-US Idx by 0.05% for the quarter and underperformed the Citi WGBI Non-US Idx for the year by 0.05%.



#### Performance vs CAI Non-U.S. Fixed-Inc Style (Gross)



#### Cumulative Returns vs Citi WGBI Non-US Idx



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US Real Estate Investment Trust

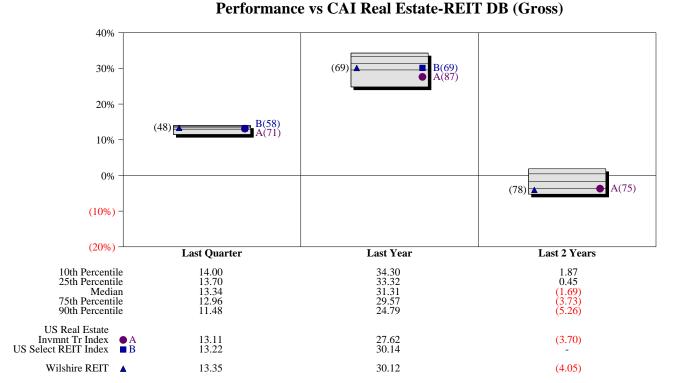
### **US REAL ESTATE INVMNT TR INDEX PERIOD ENDED SEPTEMBER 30, 2010**

#### **Investment Philosophy**

The Real Estate Investment Trust managers invest in companies that own, operate and dispose of commercial real estate properties. These companies provide high current yields and the potential for capital appreciation through increases in property values.

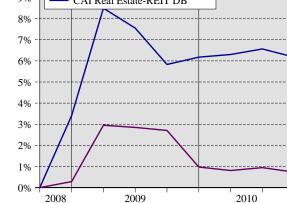
#### **Quarterly Summary and Highlights**

- US Real Estate Invmnt Tr Index's portfolio posted a 13.11% return for the quarter placing it in the 71 percentile of the CAI Real Estate-REIT DB group for the quarter and in the 87 percentile for the last year.
- US Real Estate Invmnt Tr Index's portfolio underperformed the Wilshire REIT by 0.24% for the quarter and underperformed the Wilshire REIT for the year by 2.50%.



#### **Relative Return vs Wilshire REIT Cumulative Returns vs Wilshire REIT** 10% 2.5% 2.0% 9% CAI Real Estate-REIT DB Cumulative Relative Returns 1.5% 8% 7% **Relative Returns** 1.0% 0.5% 6% 0.0% 5% (0.5%)4% (1.0%)3% (1.5%)2% (2.0%)1% (2.5%) -0% 2008 2010 2009 2009 2008 US Real Estate Invmnt Tr Index

### US Real Estate Invmnt Tr Index



SSgA Treasury Money Market Fd

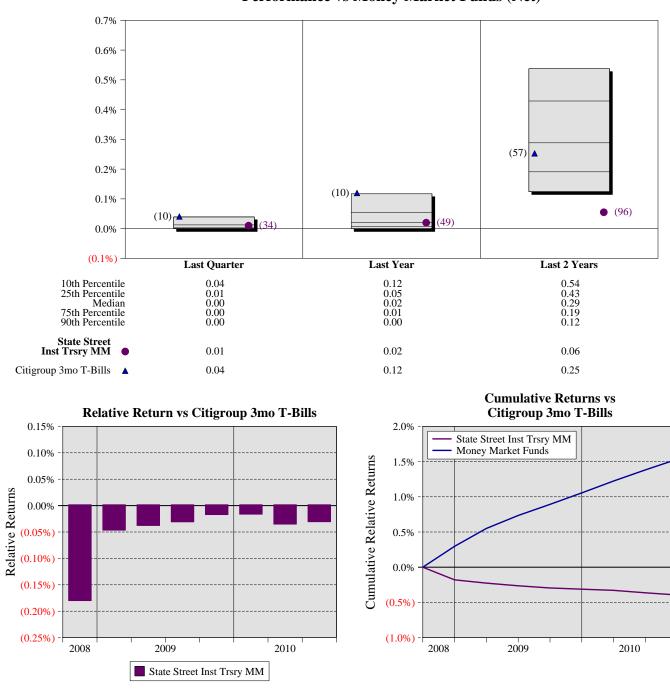
### STATE STREET INST TRSRY MM PERIOD ENDED SEPTEMBER 30, 2010

#### **Investment Philosophy**

Fund invests in high quality financial instruments rated in top two grades with dollar-weighted average maturities of less than 90 days. Intend to keep a constant NAV.

### **Quarterly Summary and Highlights**

- State Street Inst Trsry MM's portfolio posted a 0.01% return for the quarter placing it in the 34 percentile of the Money Market Funds group for the quarter and in the 49 percentile for the last year.
- State Street Inst Trsry MM's portfolio underperformed the Citigroup 3mo T-Bills by 0.03% for the quarter and underperformed the Citigroup 3mo T-Bills for the year by 0.10%.



Performance vs Money Market Funds (Net)

BlackRock Govt/Credit Bond Fund

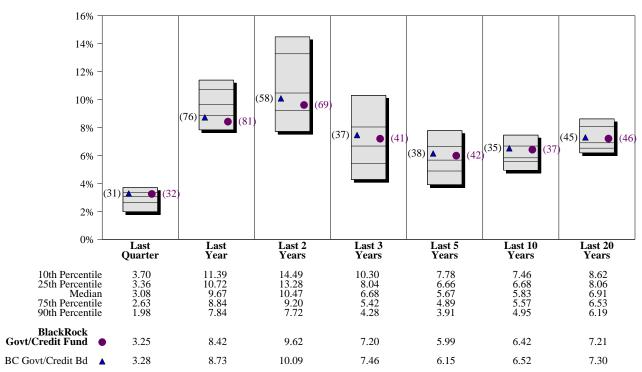
### **BLACKROCK GOVT/CREDIT FUND PERIOD ENDED SEPTEMBER 30, 2010**

#### **Investment Philosophy**

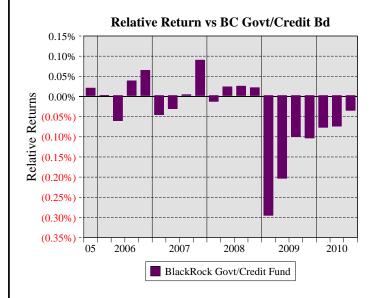
Core Bond Style mutual funds aim to achieve value added from sector and/or issue selection. Funds are constructed to approximate the investment results of the Barclays Capital Gov/Corp Index or the BC Aggregate Index with little duration variability around the index.

#### **Quarterly Summary and Highlights**

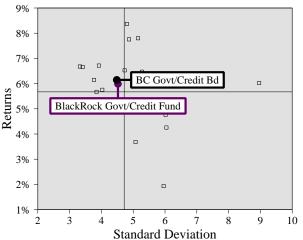
- BlackRock Govt/Credit Fund's portfolio posted a 3.25% return for the quarter placing it in the 32 percentile of the CAI MF Core Bond Style group for the quarter and in the 81 percentile for the last year.
- BlackRock Govt/Credit Fund's portfolio underperformed the BC Govt/Credit Bd by 0.03% for the quarter and underperformed the BC Govt/Credit Bd for the year by 0.31%.



### Performance vs CAI MF - Core Bond Style (Net)



#### CAI MF - Core Bond Style (Net) Annualized Five Year Risk vs Return

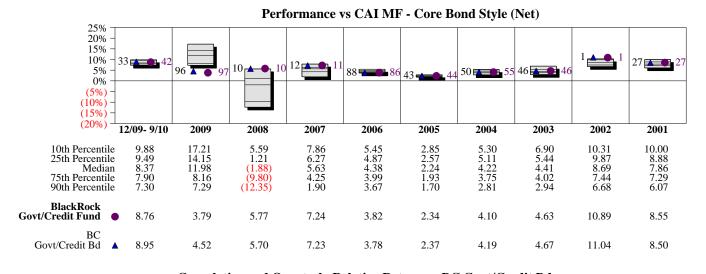


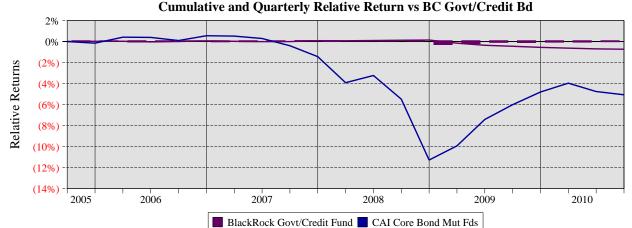
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#### BLACKROCK GOVT/CREDIT FUND RETURN ANALYSIS SUMMARY

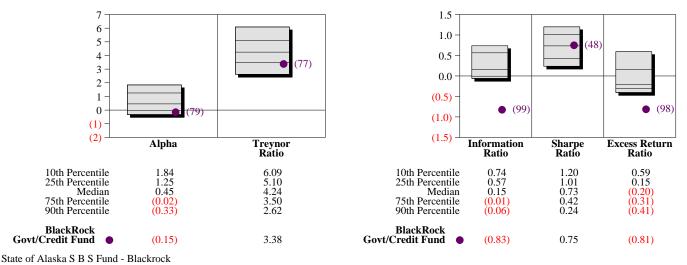
#### **Return Analysis**

The graphs below analyze the manager's return on both a risk-adjusted and unadjusted basis. The first chart illustrates the manager's ranking over different periods versus the appropriate style group. The second chart shows the historical quarterly and cumulative manager returns versus the appropriate market benchmark. The last two charts illustrate the manager's ranking relative to their style using various risk-adjusted return measures.









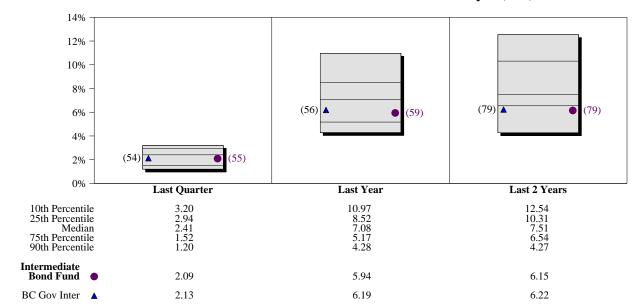
#### INTERMEDIATE BOND FUND PERIOD ENDED SEPTEMBER 30, 2010

#### **Investment Philosophy**

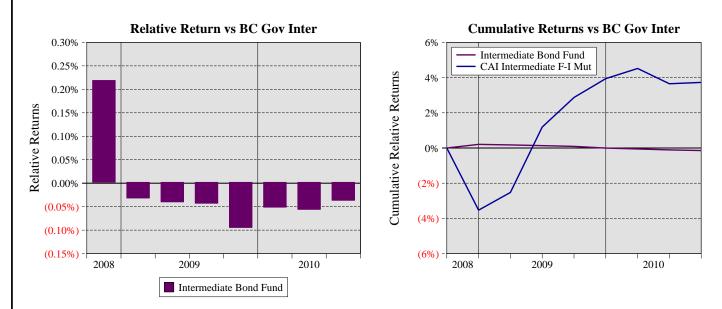
The objective of the Intermediate Government/Credit Bond Index Fund is to track the performance of its benchmark, the Barclays Capital Intermediate Government/Credit Bond Index. The fund provides institutional investors a high quality, cost-effective, index-based solution to their bond investment needs. Our proprietary databases amass a wealth of real-time data each day, providing us with an unmatched ability to efficiently execute market transactions. Additionally, we leverage our size and trading volume to minimize or eliminate transaction costs for our clients. These competitive advantages enable us to deliver superior investment performance to our clients with efficiency and consistency that is unsurpassed.

#### **Quarterly Summary and Highlights**

- Intermediate Bond Fund's portfolio posted a 2.09% return for the quarter placing it in the 55 percentile of the CAI MF Intermediate Style group for the quarter and in the 59 percentile for the last year.
- Intermediate Bond Fund's portfolio underperformed the BC Gov Inter by 0.04% for the quarter and underperformed the BC Gov Inter for the year by 0.25%.



#### Performance vs CAI MF - Intermediate Style (Net)



Brandes

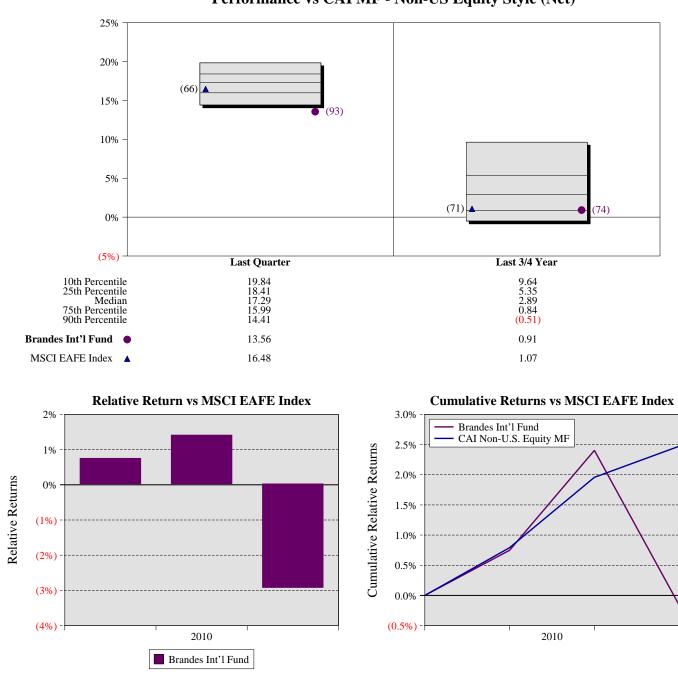
### BRANDES INT'L FUND PERIOD ENDED SEPTEMBER 30, 2010

#### **Investment Philosophy**

Non-U.S. Equity Style managers invest their assets only in non-U.S. equity securities. This style group excludes regional and index funds. Brandes Inst. Int'l Equity Fund liquidated November 2009 and funded Brandes Int'l Equity Fund Fee.

### **Quarterly Summary and Highlights**

- Brandes Int'l Fund's portfolio posted a 13.56% return for the quarter placing it in the 93 percentile of the CAI MF Non-US Equity Style group for the quarter and in the 74 percentile for the last three-quarter year.
- Brandes Int'l Fund's portfolio underperformed the MSCI EAFE Index by 2.92% for the quarter and underperformed the MSCI EAFE Index for the three-quarter year by 0.16%.



### Performance vs CAI MF - Non-US Equity Style (Net)

SSgA Global Balanced Fund

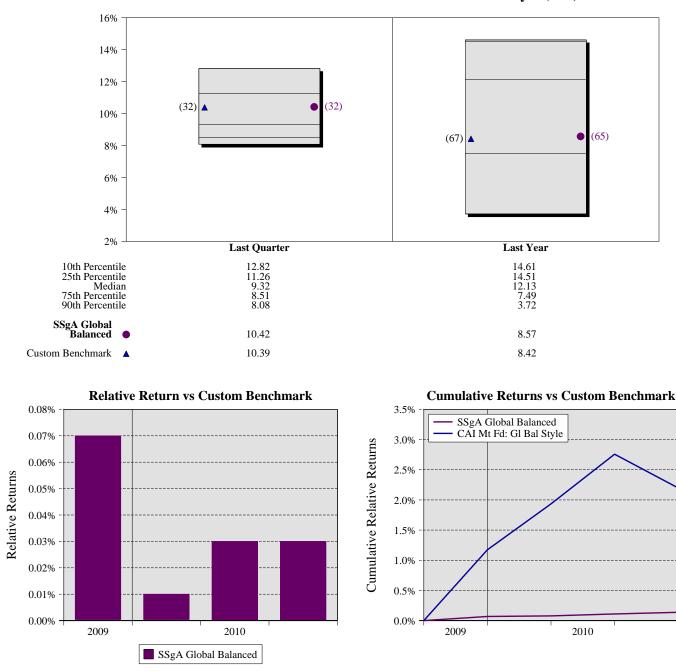
#### SSGA GLOBAL BALANCED PERIOD ENDED SEPTEMBER 30, 2010

#### **Investment Philosophy**

The Global Balanced Database consists of all mutual funds that invest in international and domestic equity and fixed-income securities. Custom Benchmark is 60% MSCI ACWI Index, 30% BarCap US Agg Bond Index, and 10% Citigroup World Gov't Bond ex-US Idx.

#### **Quarterly Summary and Highlights**

- SSgA Global Balanced's portfolio posted a 10.42% return for the quarter placing it in the 32 percentile of the CAI MF Global Balanced Style group for the quarter and in the 65 percentile for the last year.
- SSgA Global Balanced's portfolio outperformed the Custom Benchmark by 0.03% for the quarter and outperformed the Custom Benchmark for the year by 0.15%.



### Performance vs CAI MF - Global Balanced Style (Net)

RCM Socially Resp Inv Fund

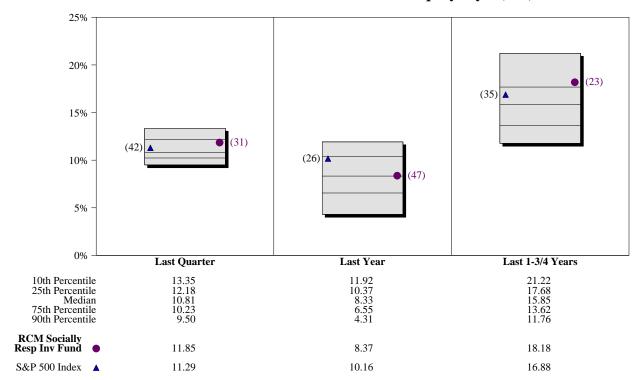
### RCM SOCIALLY RESP INV FUND PERIOD ENDED SEPTEMBER 30, 2010

#### **Investment Philosophy**

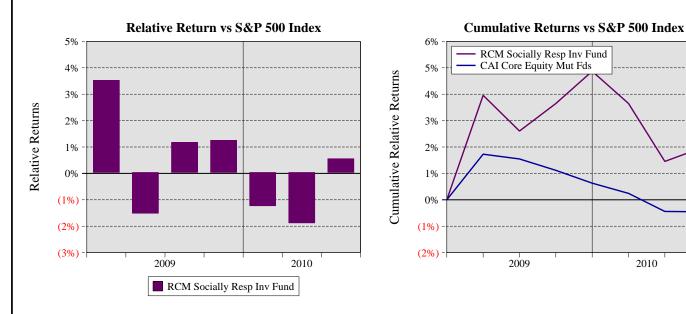
Core Equity Style mutual funds have characteristics similar to those of the broader market as represented by the Standard & Poor's Index. Their objective is to add value over and above the index, typically from sector or issue selection.

#### **Quarterly Summary and Highlights**

- RCM Socially Resp Inv Fund's portfolio posted a 11.85% return for the quarter placing it in the 31 percentile of the CAI MF Core Equity Style group for the quarter and in the 47 percentile for the last year.
- RCM Socially Resp Inv Fund's portfolio outperformed the S&P 500 Index by 0.56% for the quarter and underperformed the S&P 500 Index for the year by 1.79%.



Performance vs CAI MF - Core Equity Style (Net)



C A

T. Rowe Price

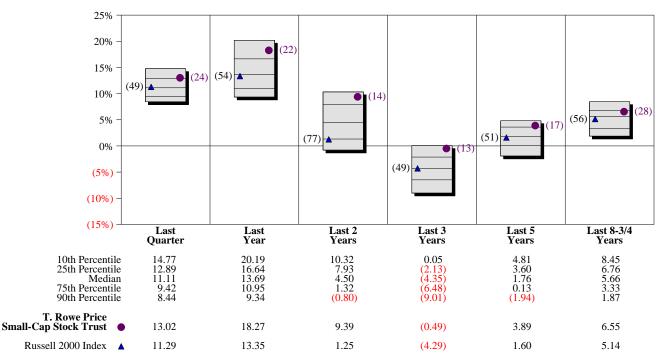
#### T. ROWE PRICE SMALL-CAP STOCK TRUST PERIOD ENDED SEPTEMBER 30, 2010

#### **Investment Philosophy**

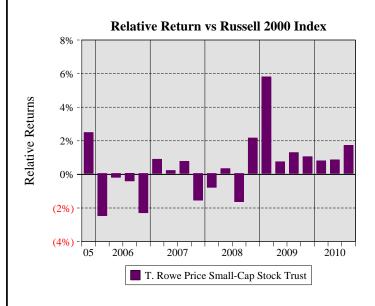
Small Cap Style mutual funds invest in companies with relatively small capitalizations of approximately \$400 million. The companies generally exhibit greater volatility than the broader market, and dividend yields below the broader market.

### **Quarterly Summary and Highlights**

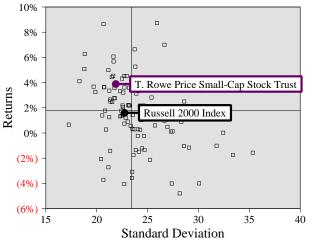
- T. Rowe Price Small-Cap Stock Trust's portfolio posted a 13.02% return for the quarter placing it in the 24 percentile of the CAI MF Small Cap Broad Style group for the quarter and in the 22 percentile for the last year.
- T. Rowe Price Small-Cap Stock Trust's portfolio outperformed the Russell 2000 Index by 1.73% for the quarter and outperformed the Russell 2000 Index for the year by 4.92%.



### Performance vs CAI MF - Small Cap Broad Style (Net)



#### CAI MF - Small Cap Broad Style (Net) Annualized Five Year Risk vs Return

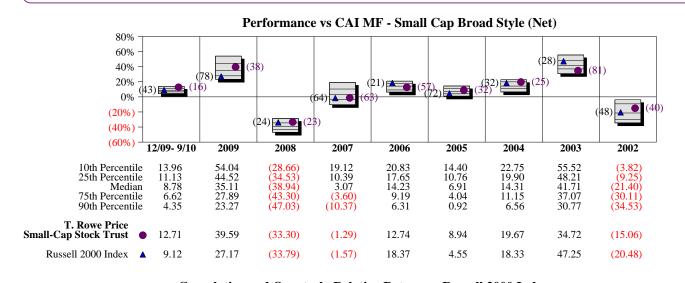


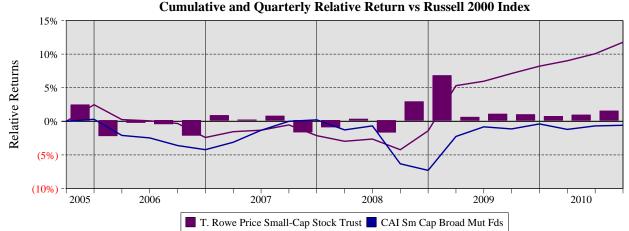
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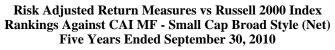
### T. ROWE PRICE SMALL-CAP STOCK TRUST RETURN ANALYSIS SUMMARY

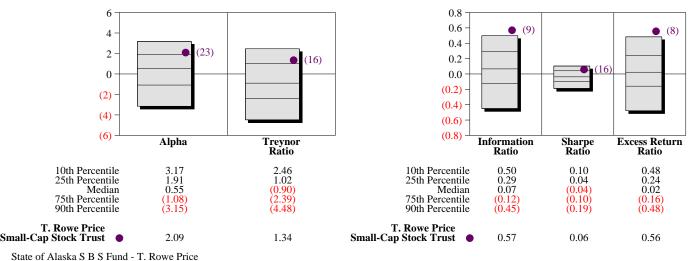
#### **Return Analysis**

The graphs below analyze the manager's return on both a risk-adjusted and unadjusted basis. The first chart illustrates the manager's ranking over different periods versus the appropriate style group. The second chart shows the historical quarterly and cumulative manager returns versus the appropriate market benchmark. The last two charts illustrate the manager's ranking relative to their style using various risk-adjusted return measures.









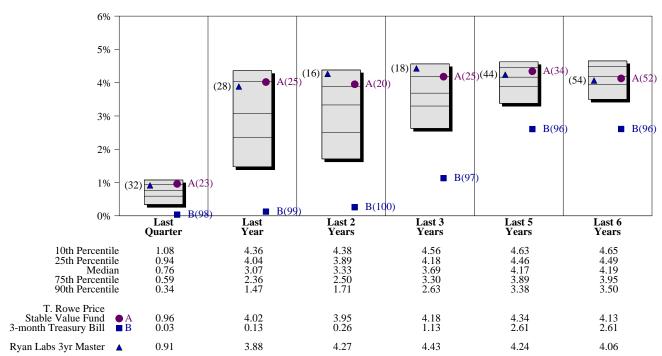
### T. ROWE PRICE STABLE VALUE FUND PERIOD ENDED SEPTEMBER 30, 2010

#### **Investment Philosophy**

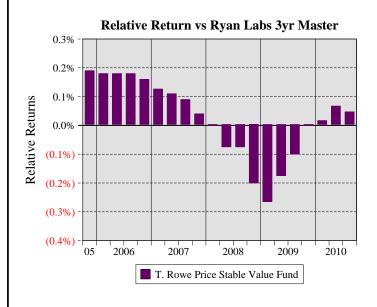
The Stable Value database group is comprised of funds that invest primarily in Guaranteed Investment Contracts (GICs) and Synthetic Investment Contracts (SICs) to provide principal protection, stable book value and a guaranteed rate of return over a contractually specified time period. Common benchmarks for the universe include, but not limited to, the are the Ryan Labs GIC Master indices and the Hueler Stable Value Index.

### **Quarterly Summary and Highlights**

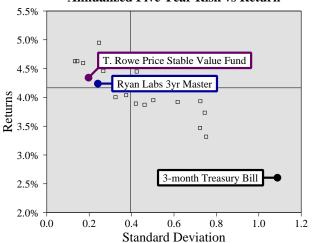
- T. Rowe Price Stable Value Fund's portfolio posted a 0.96% return for the quarter placing it in the 23 percentile of the CAI Stable Value Database group for the quarter and in the 25 percentile for the last year.
- T. Rowe Price Stable Value Fund's portfolio outperformed the Ryan Labs 3yr Master by 0.05% for the quarter and outperformed the Ryan Labs 3yr Master for the year by 0.14%.



### Performance vs CAI Stable Value Database (Gross)



#### CAI Stable Value Database (Gross) Annualized Five Year Risk vs Return

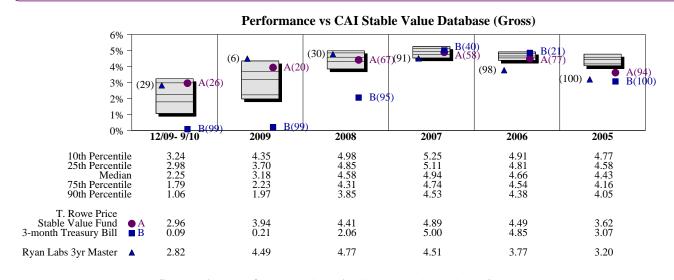


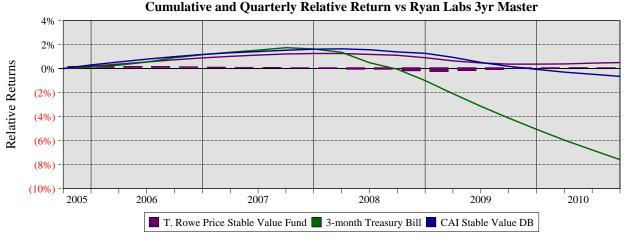
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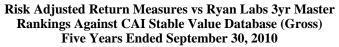
#### T. ROWE PRICE STABLE VALUE FUND RETURN ANALYSIS SUMMARY

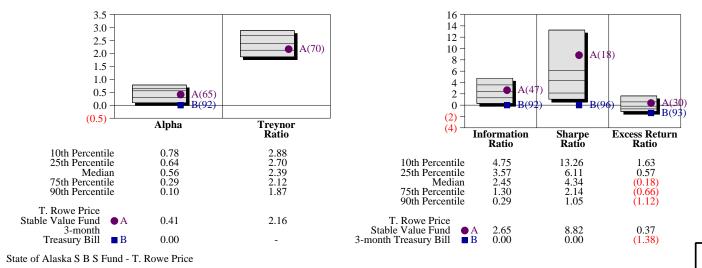
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CALLAN INVESTMENTS INSTITUTE

THIRD QUARTER 2010

# RESEARCH AND UPCOMING PROGRAMS

Below is a list of recent Callan Institute research and upcoming programs. The Institute's research and educational programs keep clients updated on the latest trends in the investment industry and help clients learn through carefully structured workshops and lectures. For more information, please contact your Callan Consultant or Gina Falsetto at 415.974.5060 or institute@callan.com.

### **White Papers**

#### Lifetime Retirement Income Solutions

Lori Lucas, CFA

Fixed Income Benchmark Review: Year-Ended March 31, 2010 Anna West

The Next DC Frontier: An Outcomes-Based Approach to DC Plan Design Lori Lucas, CFA

The Recovery Across All Asset Classes Reprinted with permission from PREA Quarterly, Spring 2010 Jay Kloepfer

### **Publications**

DC Observer and Callan DC Index<sup>™</sup> – 2nd Quarter 2010
Hedge Fund Monitor – 2nd Quarter 2010
Capital Market Review – 3rd Quarter 2010
Quarterly Performance Data – 3rd Quarter 2010
Private Markets Trends – Summer 2010

## **Surveys**

2010 Alternatives Survey - coming soon!
2010 DC Trends Survey - January 2010
How Investment Managers Survived the Market Collapse - October 2009
2009 Investment Management Fee Survey - September 2009



CALLAN INVESTMENTS INSTITUTE

THIRD QUARTER 2010

# RESEARCH AND UPCOMING PROGRAMS

### (continued)

### **Event Summaries and Presentations**

- Summary: 2010 Regional Breakfast Workshop June 2010 "The Risk Locker - Strategies to Diffuse Risk"
- Presentation: 2010 Regional Breakfast Workshop June 2010 "The Risk Locker - Strategies to Diffuse Risk"
- Summary: The 30th Annual National Conference February 2010 Featuring: The Capital Markets Panel, T.R. Reid, Warren Hellman, Laura D'Andrea Tyson and workshops on DC, alternatives and inflation

## **Upcoming Educational Programs**

#### The 31st Annual National Conference

January 31 - February 2, 2011 in San Francisco Speakers include: Henry M. Paulson, Fareed Zakaria, Joshua Cooper Ramo, and Dan Ariely Workshops on: defined contribution, portfolio structure, and real assets

Details will be sent to you via email and U.S. Mail in October.

If you have any questions regarding these programs, please contact Ray Combs at 415.974.5060 or institute@callan.com.

101 California Street, Suite 3500, San Francisco, California 94111, 415.974.5060, www.callan.com

The Callan Investments Institute, the educational division of Callan Associates Inc., has been a leading educational forum for the pensions and investments industry since 1980. The Institute offers continuing education on key issues confronting plan sponsors and investment managers.



# THE CENTER FOR INVESTMENT TRAINING ("CALLAN COLLEGE")

THIRD QUARTER 2010

# EDUCATIONAL SESSIONS

## **An Introduction to Investments**

### April and October in San Francisco

This two-day session is designed for individuals who have less than two years' experience with institutional asset management oversight and/or support responsibilities. It will familiarize fund sponsor trustees and staff with basic investment theory, terminology, and practices. Participants in the introductory session will gain a basic understanding of the different types of institutional funds, including a description of their objectives and investment program structures.

## **Advanced Investment Topics**

### July in Chicago

This program is designed for individuals who have more than two years' experience and provides attendees with a complete and thorough overview of prudent investment practices for both trusteedirected and participant-directed funds. This session is beneficial to anyone involved in the investment management process, including: trustees and staff members of public, endowment & foundation, corporate, and Taft-Hartley retirement funds; representatives of family trusts; and investment management professionals.

## **Session on Real Estate**

### 2011 Dates TBD

Callan Associates will share its expertise through an educational program designed to advance the participants' knowledge, understanding and comfort with real estate investing. Callan's real estate specialists have extensive knowledge and experience and will provide insights relating to institutional demand, product availability, program design, implementation, regulatory outlook, trends and best practices.



# THE CENTER FOR INVESTMENT TRAINING ("CALLAN COLLEGE")

THIRD QUARTER 2010

# EDUCATIONAL SESSIONS

(continued)

## **Customized Sessions**

A unique feature of the "Callan College" is its ability to educate on a specialized level through its customized sessions. Whether you are a plan sponsor or you provide services to institutional taxexempt plans, we are equipped to tailor the curriculum to meet the training and educational needs of your organization and bring the program to your venue. Instruction can be tailored to be basic or advanced.

For more information on the "Callan College," please contact Kathleen Cunnie, Manager, at 415.274.3029 or college@callan.com.

The Center for Investment Training ("Callan College") provides relevant and practical educational opportunities to all professionals engaged in the investment decision making process. This educational forum offers basic-to-intermediate level instruction on all components of the investment management process

101 California Street, Suite 3500, San Francisco, California 94111, 415.974.5060, www.callan.com

Disclosures

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Callan Associates takes its fiduciary and disclosure responsibilities to clients very seriously. The list below is compiled and updated quarterly because we believe our fund sponsor clients should have a clear understanding of the investment management organizations that do business with our firm. As of 09/30/10, Callan provided educational, consulting, software, database, or reporting services to this list of managers through one or more of the following business units: Institutional Consulting Group, Independent Adviser Group, Fund Sponsor Consulting, the Callan Investments Institute and the "Callan College." Per strict policy these manager relationships do not affect the outcome or process by which any of Callan's services are conducted.

Fund sponsor clients may request a copy of this list at any time. Fund sponsor clients may also request specific information regarding the fees paid to Callan by the managers employed by their fund. Per company policy, information requests regarding fees are handled exclusively by Callan's Compliance Department.

Manager Name	Educational Services	Consulting Services
1607 Capital Partners, LLC		Y
Aberdeen Asset Management		Y
Acadian Asset Management, Inc.	Y	
AllianceBernstein	Y	
Allianz Global Investors Capital		Y
American Century Investment Management	Y	
Analytic Investors	Y	
AQR Capital Management	Y	
Artio Global Management (fka, Julius Baer)	Y	Y
Atalanta Sosnoff Capital, LLC	Y	
Atlanta Capital Management Co., L.L.C.	Y	Y
Aviva Investors North America	Y	
XA Rosenberg Investment Management	Y	
Babson Capital Management LLC	Y	
Baillie Gifford International LLC	Ý	
Baird Advisors	Ý	Y
Bank of America		Ý
Bamk of Ireland Asset Management	Y	·
Baring Asset Management	Ý	
Barrow, Hanley, Mewhinney & Strauss, Inc.		Y
Batterymarch Financial Management, Inc.	Y	
BlackRock		Y
Boston Company Asset Management, LLC (The)	Y	Ý
BNY Mellon Asset Management	Ý	·
Brandes Investment Partners, L.P.	Ý	Y
Brandywine Global Investment Management, LLC	Ý	·
Brown Brothers Harriman & Company	Ý	
Cadence Capital Management	Ý	
Calamos Advisors	Ý	
Capital Group Companies (The)	Ý	
CastleArk Management, LLC		Y
Causeway Capital Management	Y	·
Chartwell Investment Partners	Ý	
ClearBridge Advisors	Y	
Colony Realty	Ý	
Columbia Management Investment Advisors. LLC	Y	Y
Columbus Circle Investors	Y	Y
Cramer Rosenthal McGlvnn. LLC	Y	
Crestline Investors		Y
Davis Advisors	Y	
Davis Advisors DB Advisors	Y	Y
DDJ Capital Management	Y	
DE Shaw Investment Management, L.L.C.	Y	
	I V	V
Delaware Investments DePrince, Race & Zollo, Inc.		Y
Diamond Hill Investments	Y	Ť
DSM Capital Partners		Y
Eagle Asset Management, Inc.		Y
EARNEST Partners, LLC	Y	T
		Y
Eaton Vance Management	Y	Y
Entrust Capital Inc.	Y	
poch Investment Partners	•	
avez Sarofim & Company	Y	Y
Federated Investors		Y

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Manager Name	Educational Services	Consulting Services
Fiduciary Asset Management Company (FAMCO)	Y	
First Eagle Investment Management	Y	
Franklin Templeton	Y	Y
Fred Alger Management Co., Inc.	Y	Y
GAM (USA) Inc.	Y	
GE Asset Management	Y	Y
GLG Partners Corp.	Y	
Goldman Sachs Asset Management	Y	Y
Grand-Jean Capital Management		Y
Grantham, Mavo, Van Otterloo & Co., LLC	Y	
Great Lakes Advisors, Inc.		Y
Guggenheim Partners	Y	
Harris Associates	Y	
Harris Investment Management, Inc.	Y	
Hartford Investment Management Co.	Y	Y
Henderson Global Investors	Y	
Hennessy Funds	Y	
Hermes Investment Management (North Amrica) Ltd.	Ý	
HSBC Investments (USA) Inc.		Y
Income Research & Management	Y	
NG Investment Management	Ý	Y
INVESCO	Y	Y
Institutional Capital LLC	Y	
Janus Capital Group (fka Janus Capital Management, LLC)	Y	Y
Jensen Investment Management		Ý
J.P. Morgan Asset Management	Y	
Knightsbridge Asset Management, LLC		Y
Lazard Asset Management	Y	Ý
Lee Munder Capital Group	Ý	Ý
Liquid Realty	Ý	
Login Circle		Y
Loomis, Savles & Company, L.P.	Y	Ý
Lord Abbett & Company	Ý	
Los Angeles Capital Management	Ý	
LSV Asset Management	Ý	
MacKay Shields LLC	Y	V
Madison Square Investors	Ý	
Madison Square investors Marvin & Palmer Associates. I nc.	V	
Marvin & Famer Associates, File.	Ý	
Mawel investment Management (fka, Franklin Portfolio Assoc.)	Ý	
Mellon Transition Management & BNY Mellon Beta Management	Ý	
Metropolitan Life Insurance Company		V
Metropolitan West Capital Management, LLC		Y
MEC Global Investment Management (U.S.) LLC	V	1
MFS Investment Management	Ý	Y
Moody Aldrich Partners	Ý	I
Noody Algerta Partners Nondrian Investment Partners Limited	Ý	Y
Montag & Caldwell. Inc.	Ý	Y
	Y	Y
Morgan Stanley Investment Management	Ý V	Ŷ
Newton Capital Management	Y	N/
Neuberger Berman, LLC (fka, Lehman Brothers)	Ý	Y
Nomura Asset Management U.S.A., Inc.	Y	
Northern Lights Capital Group	Y	Y

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Manager Name	Educational Services	Consulting Services
Northern Trust Value Investors		Y
Nuveen Investments Institutional Services Group LLC	Y	Y
DFI Institutional Asset Management	Y	
Did Mutual Asset Management	Y	Y
Oppenheimer Capital	Y	
Opus Capital Management	Y	
Pacific Investment Management Company	Y	
Palisades Investment Partners, LLC		Y
anAgora Asset Management	Y	
eregrine Capital Management, Inc.		Y
Perkins Investment Management	Y	
Permal Group Inc.	Y	
hiladelphia International Advisors. LP	Y	
PineBridge Investments (formerly AIG)		
lioneer Investment Management, Inc.	Y	
NC Capital Advisors (fka Allegiant Asset Mgmt)	Ý	Y
rincipal Global Investors	Ý	Ý
risma Capital		Y
rudential Investment Management, Inc.	Y	Ý
utnam Investments, LLC	Y	
vramis Global Advisors	Ý	
BC global Asset Management	Y	
	Ý	Y
	Ť	r Y
Rice Hall James & Associates, LLC		
Robeco Investment Management	Y	Y
Rothschild Asset Management, Inc.	Y	Ý
REEF	Y	N N
Schroder Investment Management North America Inc.	Y	Ý
Scottish Widows Investment Partnership	Y	
SEI Investments		Y
Smith Group Asset Management	Y	Y
Standard Life Investments	Y	
Standish (fka, Standish Mellon Asset Management)	Y	
State Street Global Advisors	Y	
Sterne Agee Asset Management		Y
tone Harbor Investment Partners, L.P.		Y
Stratton Management		Y
Systematic Financial Management	Y	
. Rowe Price Associates, Inc.	Y	Y
aplin, Canida & Habacht	Y	
CW Asset Management Company	Y	
D Asset Management (USA)	Y	
hrivent Financial for Lutherans		Y
hompson, Siegel & Walmsley LLC	Y	
IAA-CREF		Y
owle & Co.	Y	
JBP Asset Management LLC	Ý	
IBS	Ý	Y
Jnion Bank of California		Ý
/ictory Capital Management Inc.	γ	Ý
ontobel Asset Management	Y	
Vaddell & Reed Asset Management Group	Y	
VEDGE Capital Management		Y
Vellington Management Company, LLP	Y	1

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Manager Name	Educational Services	Consulting Services
Wells Capital Management	Y	
West Gate Horizons Advisors, LLC		Y
Western Asset Management Company	Y	
William Blair & Co., Inc.	Y	Y
Zephyr Management	Y	

Callan Associates Inc. Investment Measurement Service Quarterly Review

State of Alaska Deferred Compensation Plan September 30, 2010

The following report was prepared by Callan Associates Inc. ("CAI") using information from sources that include the following: fund trustee(s); fund custodian(s); investment manager(s); CAI computer software; CAI investment manager and fund sponsor database; third party data vendors; and other outside sources as directed by the client. CAI assumes no responsibility for the accuracy or completeness of the information provided, or methodologies employed, by any information providers external to CAI. Reasonable care has been taken to assure the accuracy of the CAI database and computer software. In preparing the following report, CAI has not reviewed the risks of individual security holdings or the compliance/non-compliance of individual security holdings with investment policies and guidelines of a fund sponsor, nor has it assumed any responsibility to do so. Copyright 2010 by Callan Associates Inc.

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Govt/Credit Bond Fund Performance 12
US Treasury Inflation Protected Securities Index Performance
Long US Treasury Bond Index Performance
World Govt Bond ex-US Index Performance
S&P 500 Stock Index Fund Performance
Small Cap Stock Trust         Performance       24
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RCM Socially Responsible Investment Fund Performance
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Long Term Balanced Trust Performance
Target 2010 Trust         Performance
Target 2015 Trust         Performance
Target 2020 TrustPerformance40

Target 2025 Tra Performance	ust	2
<b>Target 2030 Tr</b> Performance	ust 	1
Target 2035 Tro Performance	ust 	5
Target 2040 Transport	ust 	3
Target 2045 Tro Performance	ust	)
Target 2050 Tro Performance	ust 	2
Target 2055 Tro Performance	ust	1
US Real Estate Trust Index		
Performance		5
Callan Research	h/Education	7
Disclosures		2

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Deferred Compensation Plan The Deferred Compensation Plan is comprised of several different Barclays Global Investors Funds (29.8 %), an RCM Socially Responsible Fund (1.6%), a T. Rowe Price Small Cap Fund (10.3%), a Brandes Instl International Equity Fund (8.1%), a T Rowe Price Long Term Balanced Fund and Target Date Funds (7.7%) the Interest Income Fund (30.7%) and SSgA Funds (11.8%).

# BlackRock

There are currently three BlackRock Funds. They are the Large-Cap Index Fund, the Intermediate Bond Fund and the Government/Credit Bond Fund.

# Capital Guardian Trust Company

In July of 2009 Capital Guardian's Global Balanced Fund was converted to the SSgA Global Balanced Fund.

# RCM Sustainable Core

The RCM Sustainable Core Fund was established during fourth quarter 2008.

# T. Rowe Price

On October 1 of 2001, T. Rowe Price Small Cap Equity Fund and on August 15, 2007 the Long-Term Balanced Trust were added and to the Deferred Compensation Plan. The Target Date Funds were added 4/30/09 and 7/22/09.

# Brandes Instl

On October 1 of 2001, Brandes Intsl International Equity Fund was added to the Deferred Compensation Plan.

# <u>New Investment Options – State Street</u>

On September 22 of 2008, seven new investment options were added: SSgA Treasury Money Mkt, US TIPS, Long US Treasury Bd, World Govt Bd ex US, Russell 3000, World Equity ex US and US Real Estate Inv Trust.

# The Interest Income Fund

The BlackRock Intermediate Aggregate portfolio replaced the Constant Duration and Structured Payout portfolios during May 2008.

The current wrap providers are: Ixis Finl; Bank of America, Pacific Life, Rabobank State Street Bank and Trust

Third quarter of 2010 performance is shown below.

	Market	Annualized GrossUnderlying Asset		
	Value	Crediting Rate	Performance	
BC Intermediate Aggregate	\$161.7 mil	4.345%	3.03%	

# **Investment Fund Balances**

The table below compares the fund's investment fund balances as of September 30, 2010 with that of June 30, 2010.

	<b>September 30, 2010</b>		<b>June 30, 2010</b>	
	Market Value	Percent	Market Value	Percent
Balanced/Target Funds				
Alaska Balanced Fund	3,988,330	0.74%	2,639,721	0.52%
Long Term Balanced Fund	30,532,731	5.65%	27,754,402	5.52%
Target 2010 Trust	1,273,455	0.24%	1,252,774	0.25%
Target 2015 Trust	1,724,965	0.32%	1,324,809	0.26%
Target 2020 Trust	1,330,084	0.25%	1,167,172	0.23%
Target 2025 Trust	861,336	0.16%	571,199	0.11%
Target 2030 Trust	434,608	0.08%	353,988	0.07%
Target 2035 Trust	505,215	0.09%	433,881	0.09%
Target 2040 Trust	300,727	0.06%	143,020	0.03%
Target 2045 Trust	104,375	0.02%	80,590	0.02%
Target 2050 Trust	102,185	0.02%	82,754	0.02%
Target 2055 Trust	690,036	0.13%	446,445	0.09%
Domestic Equity Funds				
Large Cap Equity	110,500,226	20.46%	102,094,051	20.30%
RCM Socially Responsible	8,496,760	1.57%	7,602,874	1.51%
Russell 3000 Index	2,495,699	0.46%	2,280,824	0.45%
Small Cap Equity	55,466,934	10.27%	50,612,075	10.07%
International Equity Funds				
International Equity Fd	43,534,734	8.06%	38,893,366	7.74%
World Eq Ex-US Index	3,848,000	0.71%	3,298,913	0.66%
Fixed-Income Funds				
Govt/Credit Fd	32,485,230	6.01%	30,557,501	6.08%
Intermediate Bond Fund	17,747,275	3.29%	17,320,569	3.44%
Long US Treasury Bond	2,615,912	0.48%	2,725,093	0.54%
US TIPS	6,147,786	1.14%	5,904,420	1.17%
World Gov't Bond Ex-US	1,391,214	0.26%	841,275	0.17%
Global Balanced Funds				
SSgA Global Balanced	35,811,832	6.63%	32,486,492	6.46%
Real Estate Funds				
US REITS	5,746,912	1.06%	5,353,381	1.06%
Short Term Funds				
Interest Income Fund	165,982,624	30.73%	160,997,607	32.02%
SSgA Inst Trsry MM	5,983,417	1.11%	5,585,745	1.11%
Total Fund	\$540,102,602	100.0%	\$502,804,941	100.0%

# **Asset Distribution Across Investment Funds**

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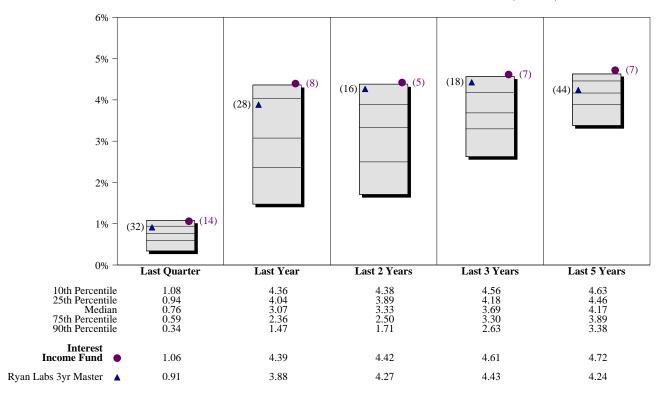
# INTEREST INCOME FUND PERIOD ENDED SEPTEMBER 30, 2010

### **Investment Philosophy**

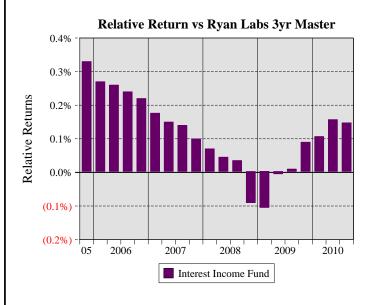
The current wrap providers are: Ixis Finl, Bank of America, Pacific Life, Rabobank and State Street Bank and Trust. Annual fees are 20 basis points.

### **Quarterly Summary and Highlights**

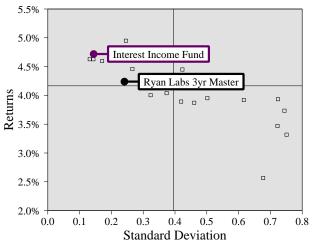
- Interest Income Fund's portfolio posted a 1.06% return for the quarter placing it in the 14 percentile of the CAI Stable Value Database group for the quarter and in the 8 percentile for the last year.
- Interest Income Fund's portfolio outperformed the Ryan Labs 3yr Master by 0.15% for the quarter and outperformed the Ryan Labs 3yr Master for the year by 0.51%.



Performance vs CAI Stable Value Database (Gross)



#### CAI Stable Value Database (Gross) Annualized Five Year Risk vs Return

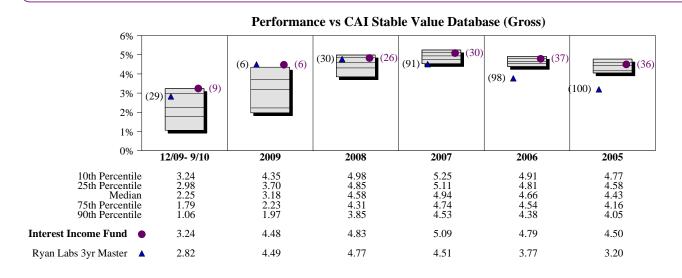


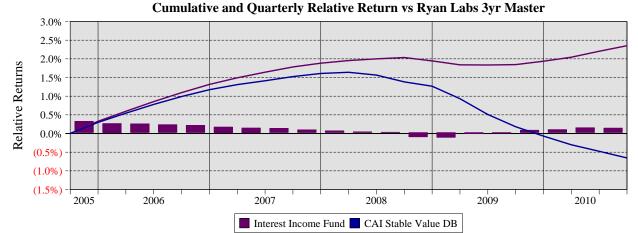
State of Alaska Deferred Compensation Plan

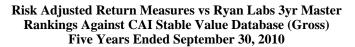
# INTEREST INCOME FUND RETURN ANALYSIS SUMMARY

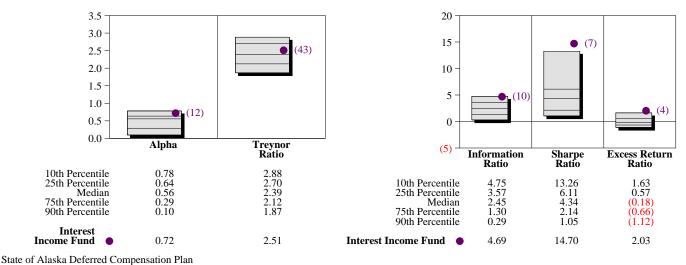
### **Return Analysis**

The graphs below analyze the manager's return on both a risk-adjusted and unadjusted basis. The first chart illustrates the manager's ranking over different periods versus the appropriate style group. The second chart shows the historical quarterly and cumulative manager returns versus the appropriate market benchmark. The last two charts illustrate the manager's ranking relative to their style using various risk-adjusted return measures.









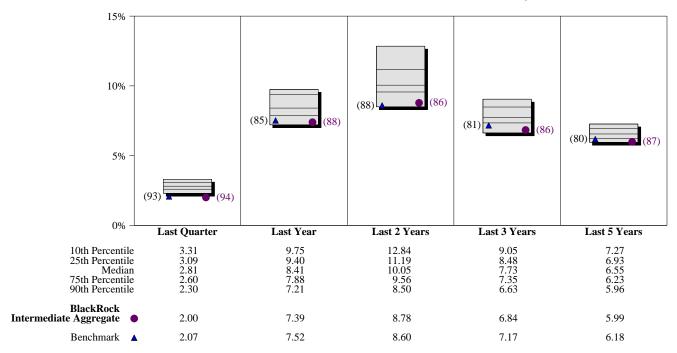
# BLACKROCK INTERMEDIATE AGGREGATE PERIOD ENDED SEPTEMBER 30, 2010

### **Investment Philosophy**

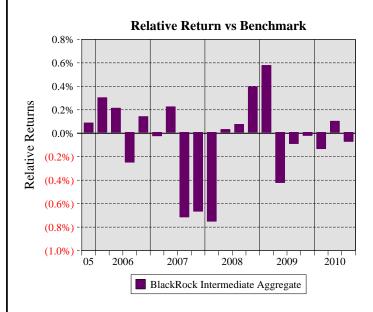
The BlackRock Intermediate Aggregate portfolio replaced the Constant Duration and Structured Payout portfolios during May 2008. Benchmark: BC Govt/Cred 1-5 Year Index through 3/31/08; thereafter BC Intermediate Aggregate Index.

### **Quarterly Summary and Highlights**

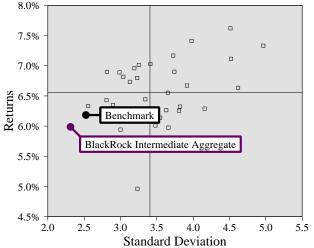
- BlackRock Intermediate Aggregate's portfolio posted a 2.00% return for the quarter placing it in the 94 percentile of the CAI Intermediate Fixed-Inc Style group for the quarter and in the 88 percentile for the last year.
- BlackRock Intermediate Aggregate's portfolio underperformed the Benchmark by 0.07% for the quarter and underperformed the Benchmark for the year by 0.13%.



### Performance vs CAI Intermediate Fixed-Inc Style (Gross)



#### CAI Intermediate Fixed-Inc Style (Gross) Annualized Five Year Risk vs Return

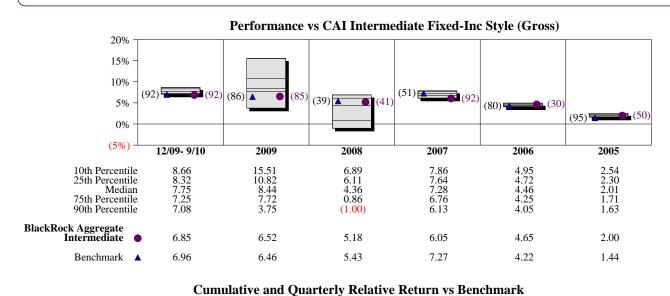


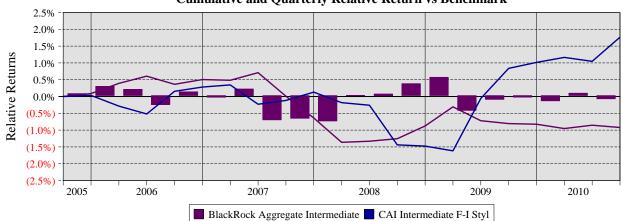
State of Alaska Deferred Compensation Plan

# BLACKROCK AGGREGATE INTERMEDIATE RETURN ANALYSIS SUMMARY

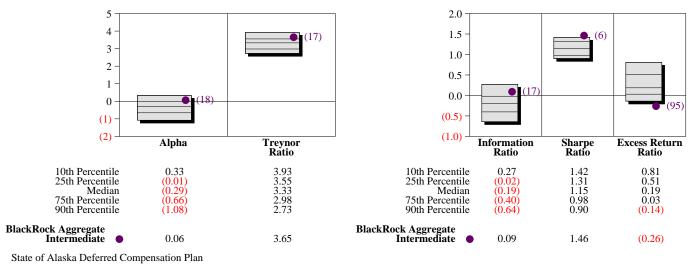
### **Return Analysis**

The graphs below analyze the manager's return on both a risk-adjusted and unadjusted basis. The first chart illustrates the manager's ranking over different periods versus the appropriate style group. The second chart shows the historical quarterly and cumulative manager returns versus the appropriate market benchmark. The last two charts illustrate the manager's ranking relative to their style using various risk-adjusted return measures.









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Intermediate Govt Bond Fund

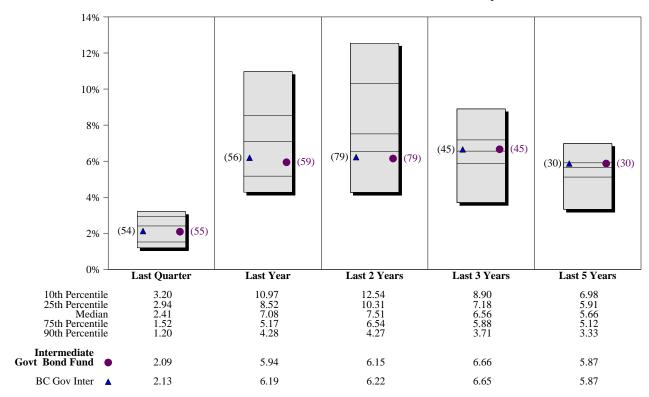
# INTERMEDIATE GOVT BOND FUND PERIOD ENDED SEPTEMBER 30, 2010

### **Investment Philosophy**

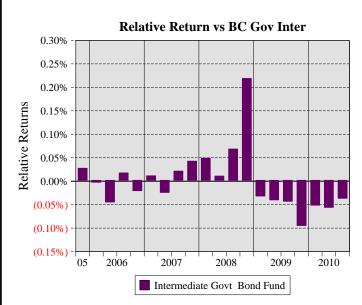
The Intermediate Govt Bond Fund is managed by BlackRock. Annual fees are 13 basis points. Passively managed.

### **Quarterly Summary and Highlights**

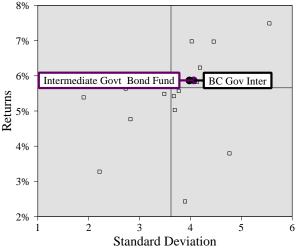
- Intermediate Govt Bond Fund's portfolio posted a 2.09% return for the quarter placing it in the 55 percentile of the CAI MF Intermediate Style group for the quarter and in the 59 percentile for the last year.
- Intermediate Govt Bond Fund's portfolio underperformed the BC Gov Inter by 0.04% for the quarter and underperformed the BC Gov Inter for the year by 0.25%.



### Performance vs CAI MF - Intermediate Style (Net)



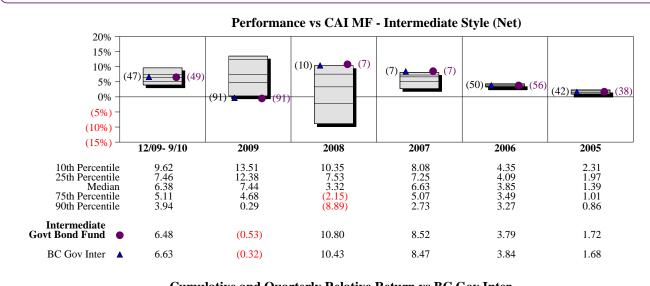
#### CAI MF - Intermediate Style (Net) Annualized Five Year Risk vs Return

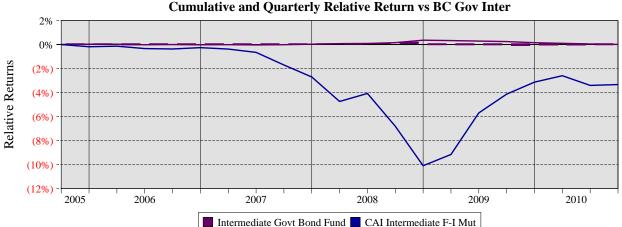


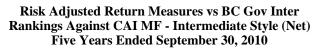
### INTERMEDIATE GOVT BOND FUND RETURN ANALYSIS SUMMARY

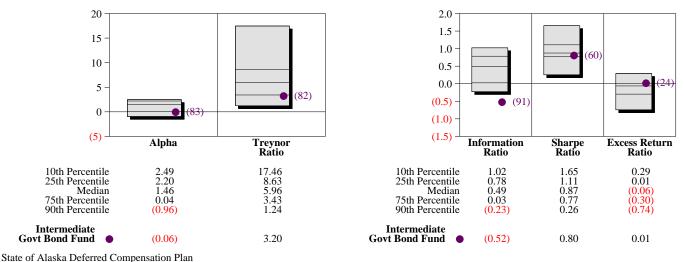
# **Return Analysis**

The graphs below analyze the manager's return on both a risk-adjusted and unadjusted basis. The first chart illustrates the manager's ranking over different periods versus the appropriate style group. The second chart shows the historical quarterly and cumulative manager returns versus the appropriate market benchmark. The last two charts illustrate the manager's ranking relative to their style using various risk-adjusted return measures.









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Govt/Credit Bond Fund

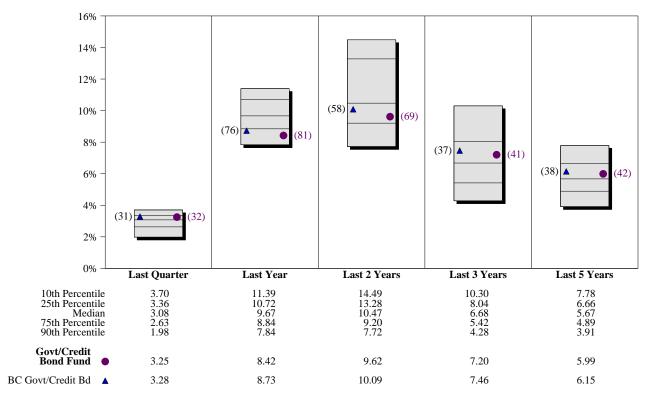
# GOVT/CREDIT BOND FUND PERIOD ENDED SEPTEMBER 30, 2010

### **Investment Philosophy**

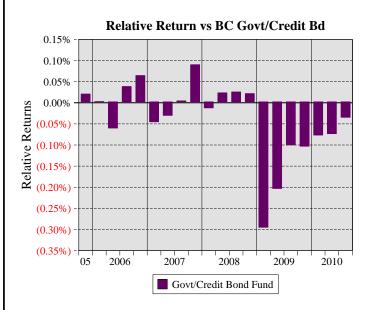
The Govt/Credit Bond Fund is managed by BlackRock. Annual fees are 13 basis points. Passively managed.

### **Quarterly Summary and Highlights**

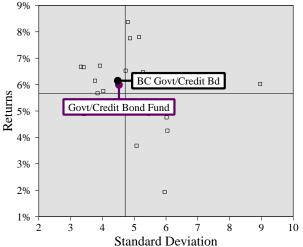
- Govt/Credit Bond Fund's portfolio posted a 3.25% return for the quarter placing it in the 32 percentile of the CAI MF Core Bond Style group for the quarter and in the 81 percentile for the last year.
- Govt/Credit Bond Fund's portfolio underperformed the BC Govt/Credit Bd by 0.03% for the quarter and underperformed the BC Govt/Credit Bd for the year by 0.31%.



# Performance vs CAI MF - Core Bond Style (Net)



#### CAI MF - Core Bond Style (Net) Annualized Five Year Risk vs Return

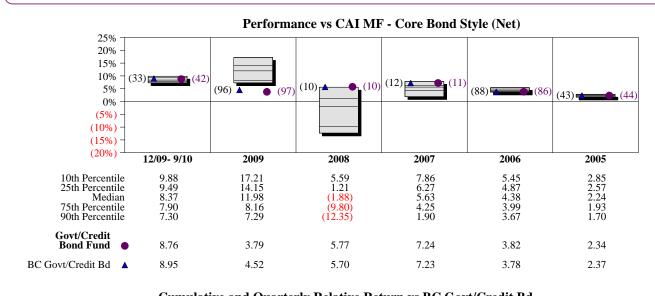


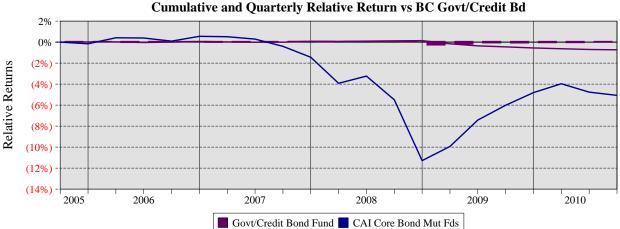
State of Alaska Deferred Compensation Plan

# GOVT/CREDIT BOND FUND RETURN ANALYSIS SUMMARY

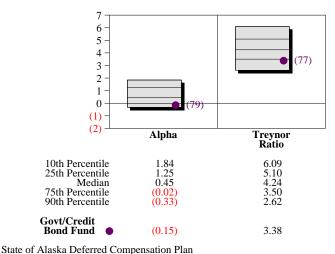
### **Return Analysis**

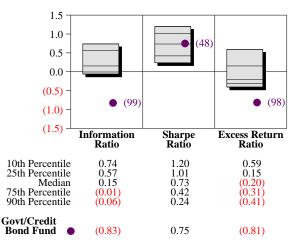
The graphs below analyze the manager's return on both a risk-adjusted and unadjusted basis. The first chart illustrates the manager's ranking over different periods versus the appropriate style group. The second chart shows the historical quarterly and cumulative manager returns versus the appropriate market benchmark. The last two charts illustrate the manager's ranking relative to their style using various risk-adjusted return measures.











(CA

US Treasury Inflation Protected

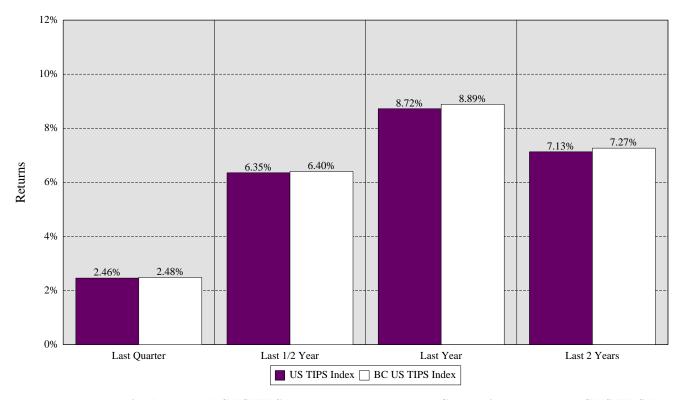
### US TIPS INDEX PERIOD ENDED SEPTEMBER 30, 2010

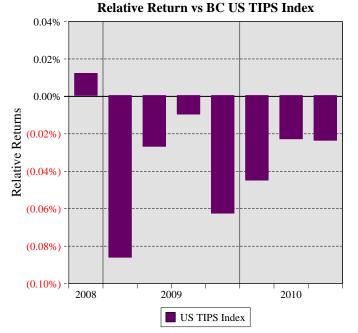


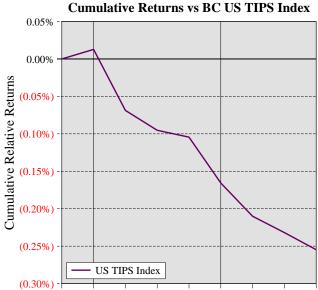
The US TIPS Fund is managed by SSgA. Annual fees are 9 basis points. Passively managed.

### **Quarterly Summary and Highlights**

• US TIPS Index's portfolio underperformed the BC US TIPS Index by 0.02% for the quarter and underperformed the BC US TIPS Index for the year by 0.16%.







2009

2008



2010

Long US Treasury Bond Index

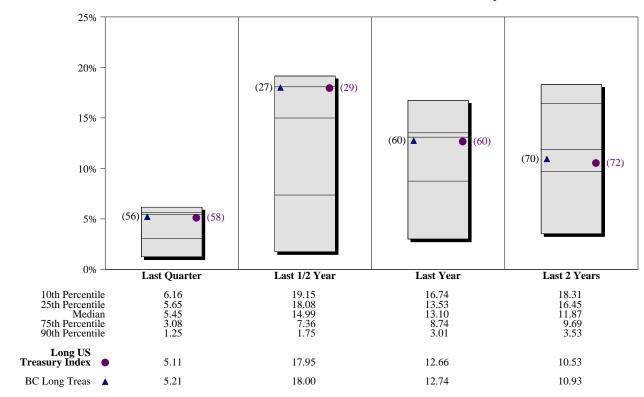
# LONG US TREASURY INDEX PERIOD ENDED SEPTEMBER 30, 2010

### **Investment Philosophy**

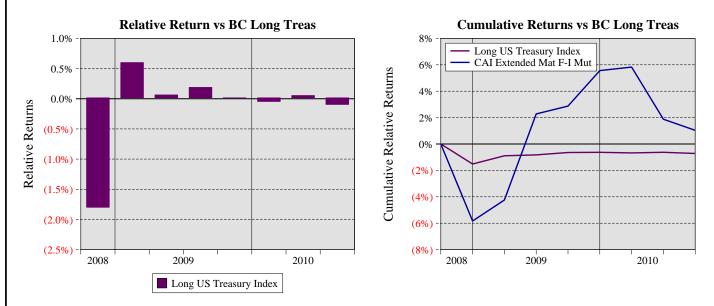
The Long US Treasury Index is managed by SSgA. Annual fees are 7 basis points. Passively managed.

### **Quarterly Summary and Highlights**

- Long US Treasury Index's portfolio posted a 5.11% return for the quarter placing it in the 58 percentile of the CAI MF Extended Maturity group for the quarter and in the 60 percentile for the last year.
- Long US Treasury Index's portfolio underperformed the BC Long Treas by 0.10% for the quarter and underperformed the BC Long Treas for the year by 0.08%.



### Performance vs CAI MF - Extended Maturity (Gross)



World Govt Bond ex-US Index

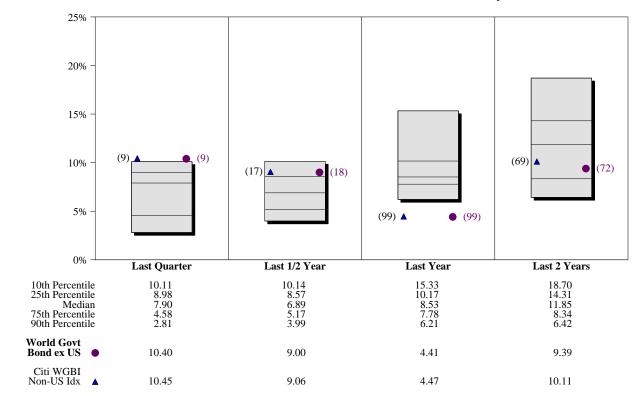
# WORLD GOVT BOND EX US PERIOD ENDED SEPTEMBER 30, 2010

### **Investment Philosophy**

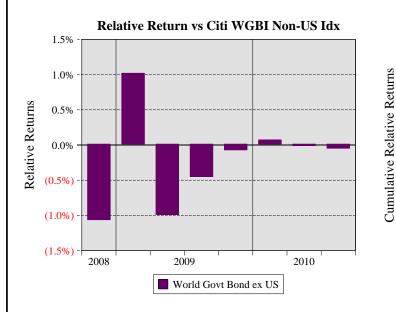
The World Govt Bond ex US Index Fund is managed by SSgA. Annual fees are 9 basis points. Passively managed.

### **Quarterly Summary and Highlights**

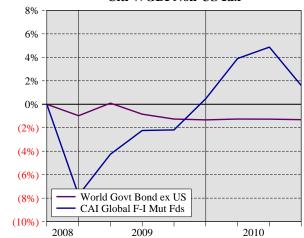
- World Govt Bond ex US's portfolio posted a 10.40% return for the quarter placing it in the 9 percentile of the CAI MF Global Fixed Income Style group for the quarter and in the 99 percentile for the last year.
- World Govt Bond ex US's portfolio underperformed the Citi WGBI Non-US Idx by 0.05% for the quarter and underperformed the Citi WGBI Non-US Idx for the year by 0.05%.



### Performance vs CAI MF - Global Fixed Income Style (Gross)



#### Cumulative Returns vs Citi WGBI Non-US Idx



# C/

S&P 500 Stock Index Fund

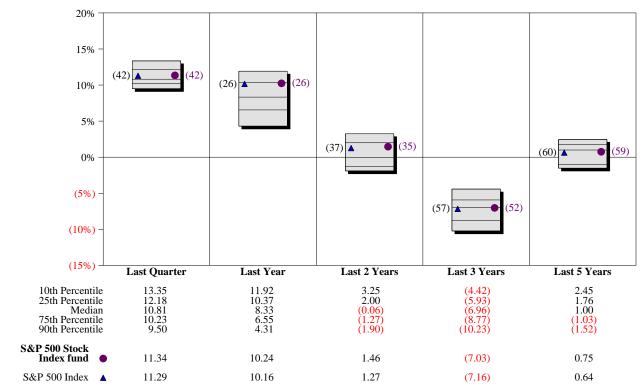
# S&P 500 STOCK INDEX FUND PERIOD ENDED SEPTEMBER 30, 2010

### **Investment Philosophy**

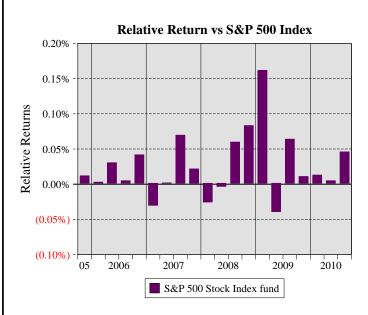
The S&P 500 Stock Index Fund is managed by BlackRock. Annual fees are 3.5 basis points. Passively managed.

### **Quarterly Summary and Highlights**

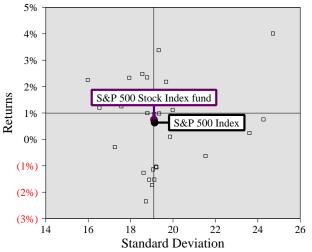
- S&P 500 Stock Index fund's portfolio posted a 11.34% return for the quarter placing it in the 42 percentile of the CAI MF Core Equity Style group for the quarter and in the 26 percentile for the last year.
- S&P 500 Stock Index fund's portfolio outperformed the S&P 500 Index by 0.05% for the quarter and outperformed the S&P 500 Index for the year by 0.08%.



# Performance vs CAI MF - Core Equity Style (Net)



#### CAI MF - Core Equity Style (Net) Annualized Five Year Risk vs Return

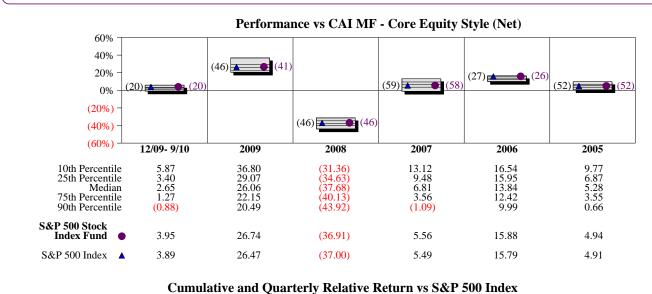


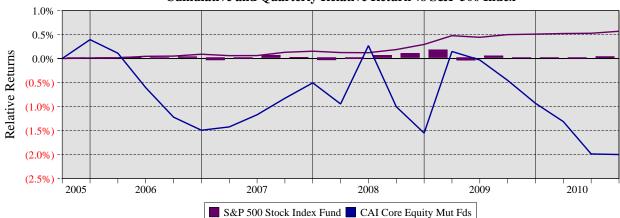
State of Alaska Deferred Compensation Plan

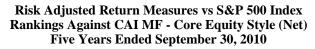
# S&P 500 STOCK INDEX FUND RETURN ANALYSIS SUMMARY

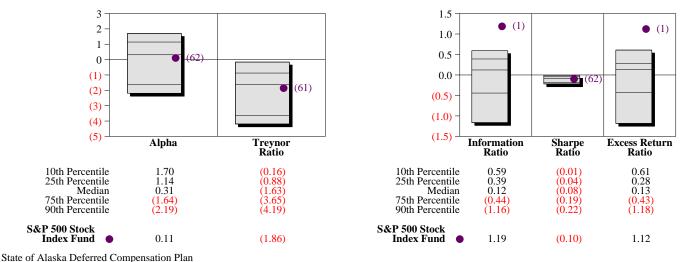
### **Return Analysis**

The graphs below analyze the manager's return on both a risk-adjusted and unadjusted basis. The first chart illustrates the manager's ranking over different periods versus the appropriate style group. The second chart shows the historical quarterly and cumulative manager returns versus the appropriate market benchmark. The last two charts illustrate the manager's ranking relative to their style using various risk-adjusted return measures.









Small Cap Stock Trust

# SMALL CAP STOCK TRUST PERIOD ENDED SEPTEMBER 30, 2010

### **Investment Philosophy**

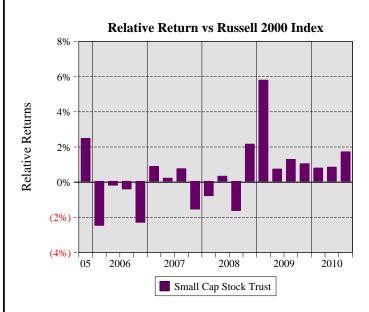
The Small Cap Stock Trust is managed by T. Rowe Price. The annual fees are 70 basis points. Actively managed.

### **Quarterly Summary and Highlights**

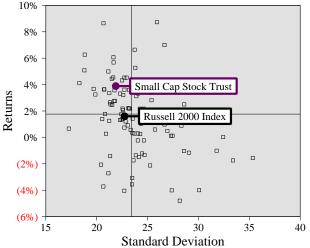
- Small Cap Stock Trust's portfolio posted a 13.02% return for the quarter placing it in the 24 percentile of the CAI MF Small Cap Broad Style group for the quarter and in the 22 percentile for the last year.
- Small Cap Stock Trust's portfolio outperformed the Russell 2000 Index by 1.73% for the quarter and outperformed the Russell 2000 Index for the year by 4.92%.



# Performance vs CAI MF - Small Cap Broad Style (Net)



### CAI MF - Small Cap Broad Style (Net) Annualized Five Year Risk vs Return

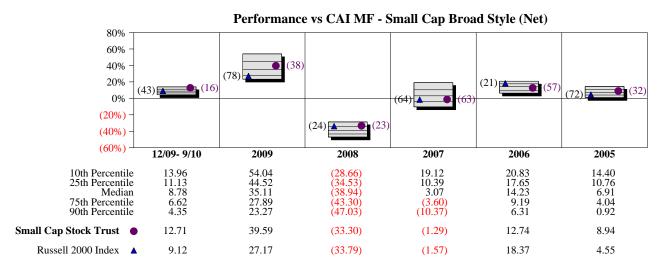


State of Alaska Deferred Compensation Plan

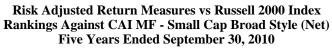
# SMALL CAP STOCK TRUST RETURN ANALYSIS SUMMARY

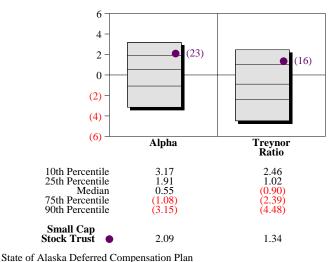
### **Return Analysis**

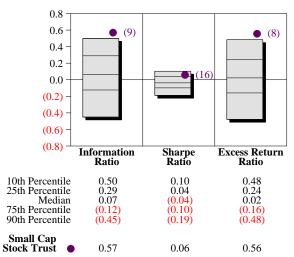
The graphs below analyze the manager's return on both a risk-adjusted and unadjusted basis. The first chart illustrates the manager's ranking over different periods versus the appropriate style group. The second chart shows the historical quarterly and cumulative manager returns versus the appropriate market benchmark. The last two charts illustrate the manager's ranking relative to their style using various risk-adjusted return measures.











**Cumulative and Quarterly Relative Return vs Russell 2000 Index** 

Russell 3000 Index Fund

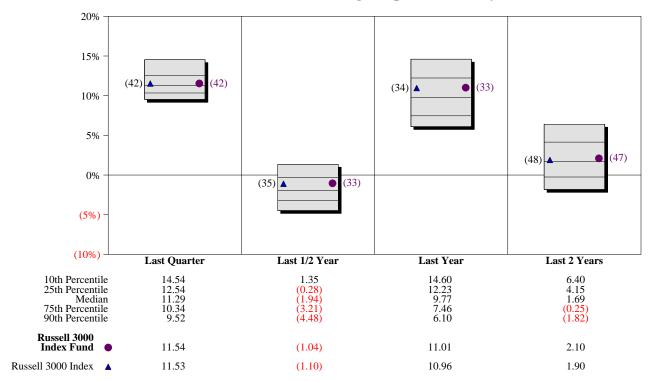
# **RUSSELL 3000 INDEX FUND PERIOD ENDED SEPTEMBER 30, 2010**

### **Investment Philosophy**

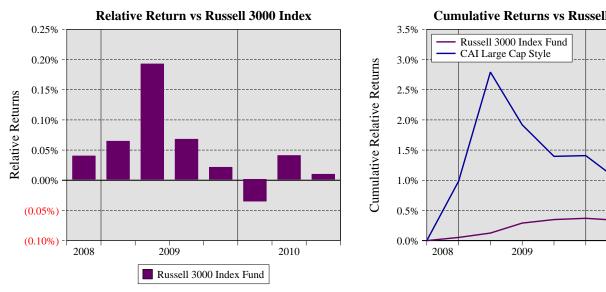
The Russell 3000 Index Fund, managed by SSgA, seeks to replicate the returns and characteristics of the Russell 3000 Index. Annual fees are 3 basis points. Passively managed.

# **Quarterly Summary and Highlights**

- Russell 3000 Index Fund's portfolio posted a 11.54% return for the quarter placing it in the 42 percentile of the • CAI Large Capitalization Style group for the quarter and in the 33 percentile for the last year.
- Russell 3000 Index Fund's portfolio outperformed the Russell 3000 Index by 0.01% for the quarter and • outperformed the Russell 3000 Index for the year by 0.05%.



# Performance vs CAI Large Capitalization Style (Gross)



# **Cumulative Returns vs Russell 3000 Index**

2010

RCM Socially Responsible

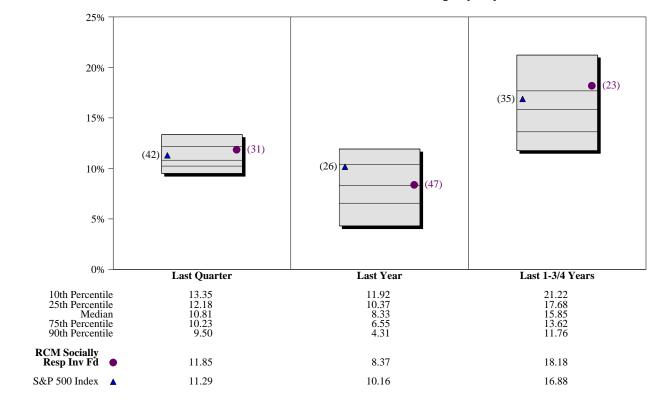
# RCM SOCIALLY RESP INV FD PERIOD ENDED SEPTEMBER 30, 2010

### **Investment Philosophy**

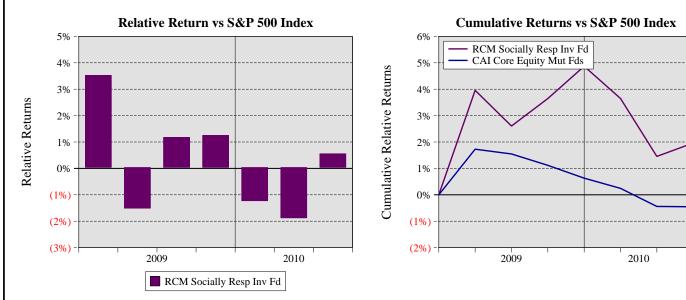
The RCM Socially Responsible Inv. Fd is actively managed. Annual fees are 50 basis points.

### **Quarterly Summary and Highlights**

- RCM Socially Resp Inv Fd's portfolio posted a 11.85% return for the quarter placing it in the 31 percentile of the CAI MF Core Equity Style group for the quarter and in the 47 percentile for the last year.
- RCM Socially Resp Inv Fd's portfolio outperformed the S&P 500 Index by 0.56% for the quarter and underperformed the S&P 500 Index for the year by 1.79%.



Performance vs CAI MF - Core Equity Style (Net)



World Equity ex-US Index

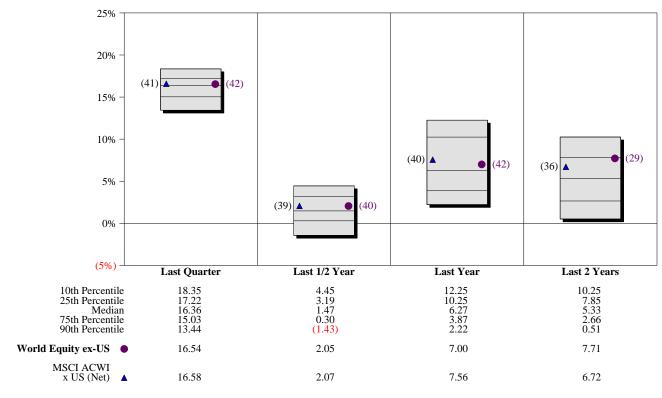
# WORLD EQUITY EX-US PERIOD ENDED SEPTEMBER 30, 2010

### **Investment Philosophy**

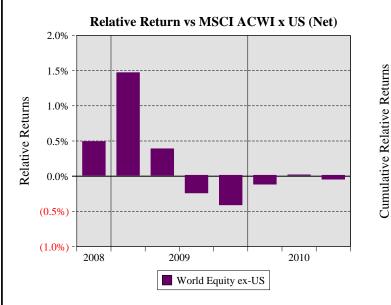
The World Equity ex US fund is managed by SSgA. It is passively managed. Annual fees are 17 basis points.

### **Quarterly Summary and Highlights**

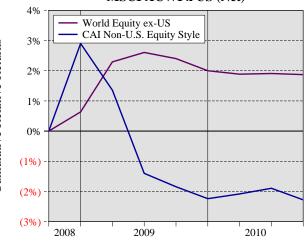
- World Equity ex-US's portfolio posted a 16.54% return for the quarter placing it in the 42 percentile of the CAI Non-U.S. Equity Style group for the quarter and in the 42 percentile for the last year.
- World Equity ex-US's portfolio underperformed the MSCI ACWI x US (Net) by 0.04% for the quarter and underperformed the MSCI ACWI x US (Net) for the year by 0.56%.



# Performance vs CAI Non-U.S. Equity Style (Gross)



#### Cumulative Returns vs MSCI ACWI x US (Net)



 $\mathcal{C}_{\mathcal{A}}$ 

Long Term Balanced Trust

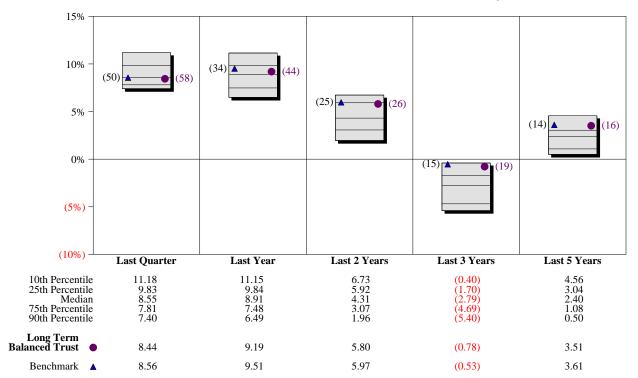
# LONG TERM BALANCED TRUST PERIOD ENDED SEPTEMBER 30, 2010

### **Investment Philosophy**

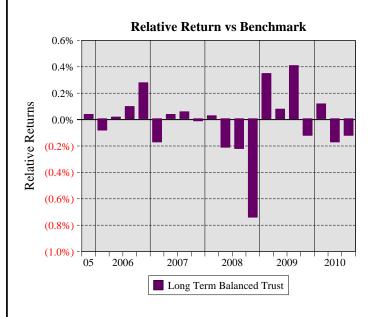
The Long Term Balanced Trust is managed by T. Rowe Price. It is a combination of Enhanced Index (passive), Structured-Active and Actively managed portfolios. Annual fees are 13 basis points.

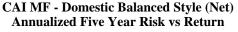
### **Quarterly Summary and Highlights**

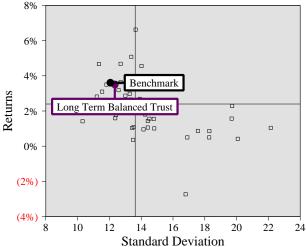
- Long Term Balanced Trust's portfolio posted a 8.44% return for the quarter placing it in the 58 percentile of the CAI MF Domestic Balanced Style group for the quarter and in the 44 percentile for the last year.
- Long Term Balanced Trust's portfolio underperformed the Benchmark by 0.12% for the quarter and underperformed the Benchmark for the year by 0.32%.



### Performance vs CAI MF - Domestic Balanced Style (Net)





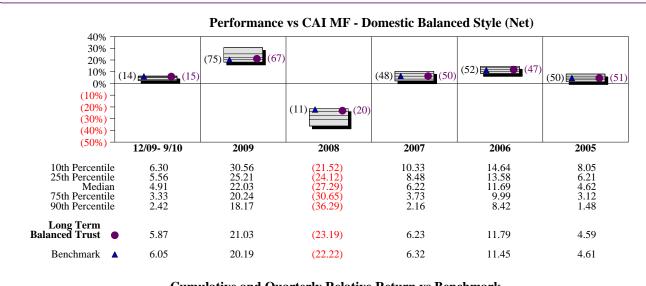


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# LONG TERM BALANCED TRUST RETURN ANALYSIS SUMMARY

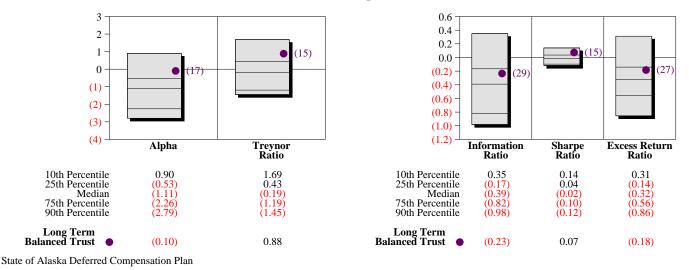
### **Return Analysis**

The graphs below analyze the manager's return on both a risk-adjusted and unadjusted basis. The first chart illustrates the manager's ranking over different periods versus the appropriate style group. The second chart shows the historical quarterly and cumulative manager returns versus the appropriate market benchmark. The last two charts illustrate the manager's ranking relative to their style using various risk-adjusted return measures.





Risk Adjusted Return Measures vs Benchmark Rankings Against CAI MF - Domestic Balanced Style (Net) Five Years Ended September 30, 2010



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Target 2010 Trust

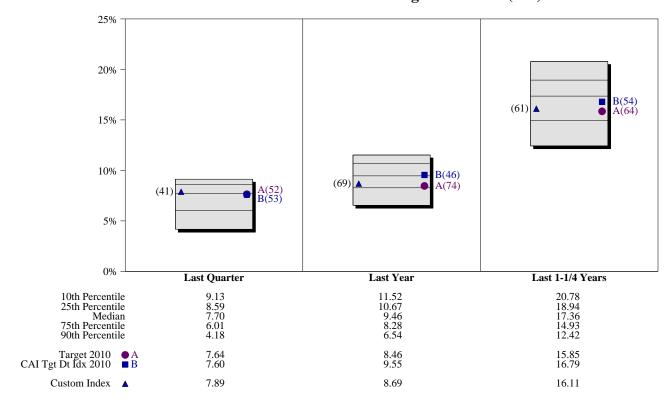
# TARGET 2010 PERIOD ENDED SEPTEMBER 30, 2010

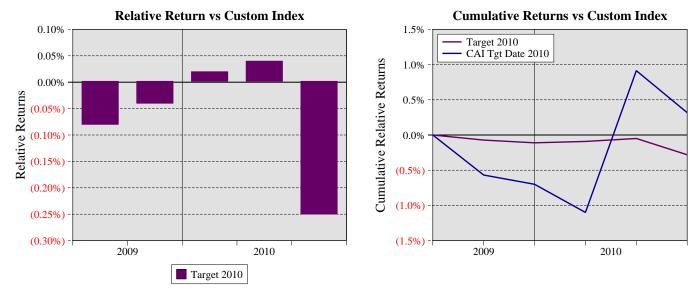
### **Investment Philosophy**

Annual fees are 13 basis points.

### **Quarterly Summary and Highlights**

- Target 2010's portfolio posted a 7.64% return for the quarter placing it in the 52 percentile of the CAI Target Date 2010 group for the quarter and in the 74 percentile for the last year.
- Target 2010's portfolio underperformed the Custom Index by 0.25% for the quarter and underperformed the Custom Index for the year by 0.23%.





# Performance vs CAI Target Date 2010 (Net)

Target 2015 Trust

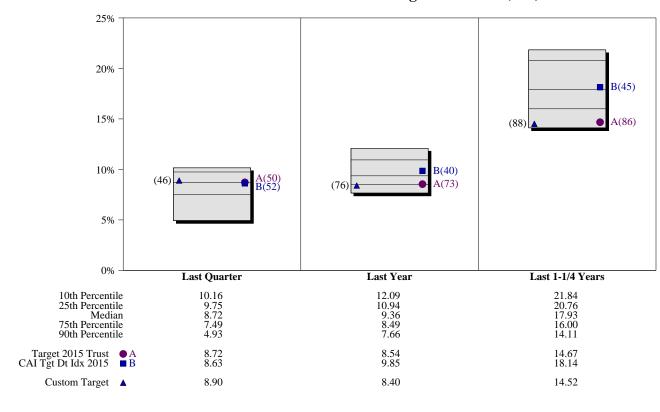
#### TARGET 2015 TRUST PERIOD ENDED SEPTEMBER 30, 2010

#### **Investment Philosophy**

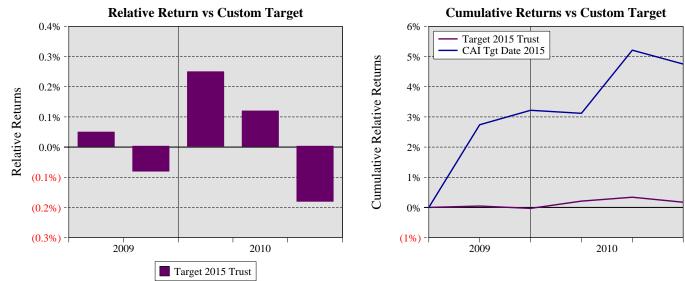
Annual fees are 13 basis points.

#### **Quarterly Summary and Highlights**

- Target 2015 Trust's portfolio posted a 8.72% return for the quarter placing it in the 50 percentile of the CAI Target Date 2015 group for the quarter and in the 73 percentile for the last year.
- Target 2015 Trust's portfolio underperformed the Custom Target by 0.18% for the quarter and outperformed the Custom Target for the year by 0.14%.



### Performance vs CAI Target Date 2015 (Net)



State of Alaska Deferred Compensation Plan

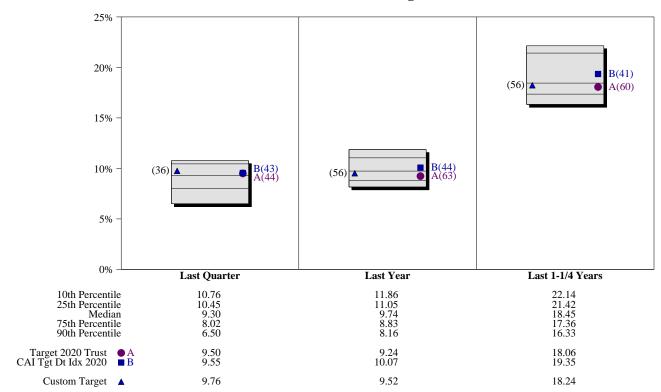
#### TARGET 2020 TRUST PERIOD ENDED SEPTEMBER 30, 2010

#### **Investment Philosophy**

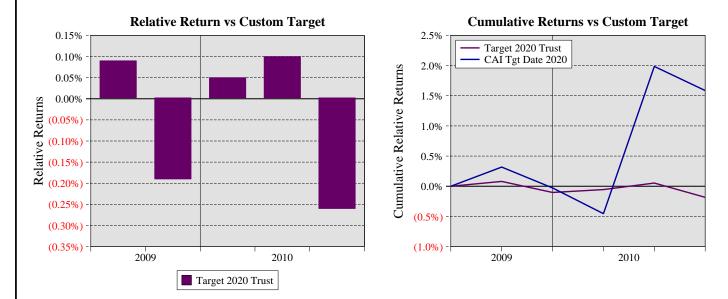
Annual fees are 14 basis points.

#### **Quarterly Summary and Highlights**

- Target 2020 Trust's portfolio posted a 9.50% return for the quarter placing it in the 44 percentile of the CAI Target Date 2020 group for the quarter and in the 63 percentile for the last year.
- Target 2020 Trust's portfolio underperformed the Custom Target by 0.26% for the quarter and underperformed the Custom Target for the year by 0.29%.



Performance vs CAI Target Date 2020 (Net)



Target 2025 Trust

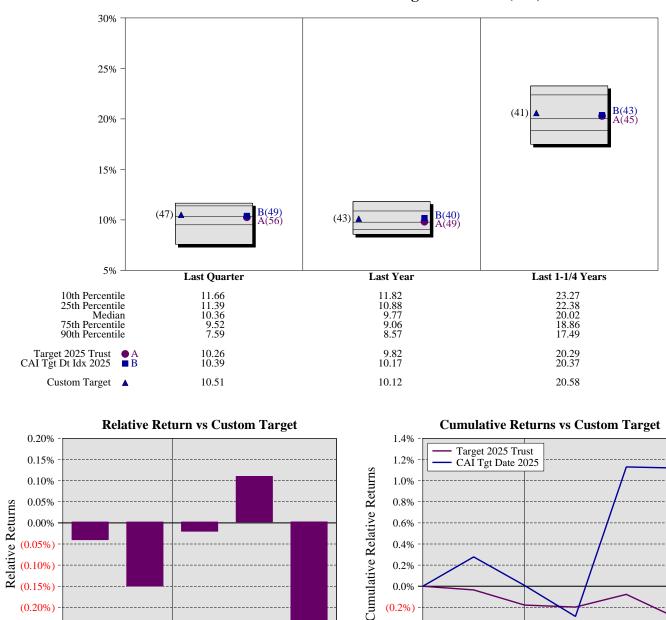
#### **TARGET 2025 TRUST** PERIOD ENDED SEPTEMBER 30, 2010

#### **Investment Philosophy**

Annual fees are 15 basis points.

#### **Quarterly Summary and Highlights**

- Target 2025 Trust's portfolio posted a 10.26% return for the quarter placing it in the 56 percentile of the CAI Target Date 2025 group for the quarter and in the 49 percentile for the last year.
- Target 2025 Trust's portfolio underperformed the Custom Target by 0.25% for the quarter and underperformed the Custom Target for the year by 0.30%.



Performance vs CAI Target Date 2025 (Net)

0.6% 0.4% 0.2% 0.0%

(0.2%)

(0.4%)

(0.6%)

2009

#### State of Alaska Deferred Compensation Plan

2009

2010

Target 2025 Trust

(0.20%)

(0.25%)

(0.30%) -

2010

Target 2030 Trust

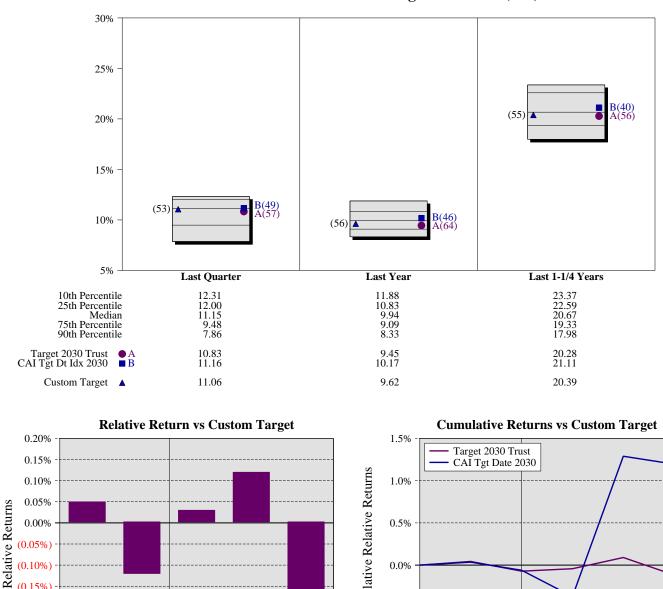
#### TARGET 2030 TRUST PERIOD ENDED SEPTEMBER 30, 2010

#### **Investment Philosophy**

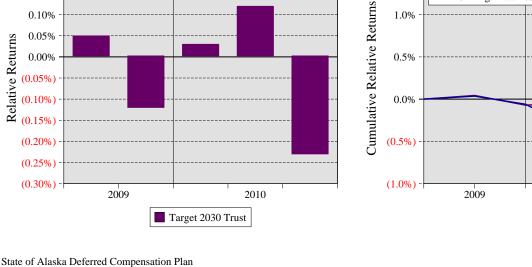
Annual fees are 15 basis points.

#### **Quarterly Summary and Highlights**

- Target 2030 Trust's portfolio posted a 10.83% return for the quarter placing it in the 57 percentile of the CAI Target Date 2030 group for the quarter and in the 64 percentile for the last year.
- Target 2030 Trust's portfolio underperformed the Custom Target by 0.23% for the quarter and underperformed the Custom Target for the year by 0.18%.



### Performance vs CAI Target Date 2030 (Net)



2010

Target 2035 Trust

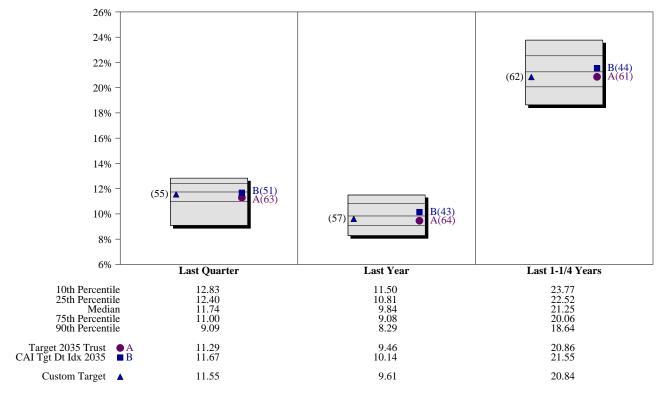
#### TARGET 2035 TRUST PERIOD ENDED SEPTEMBER 30, 2010

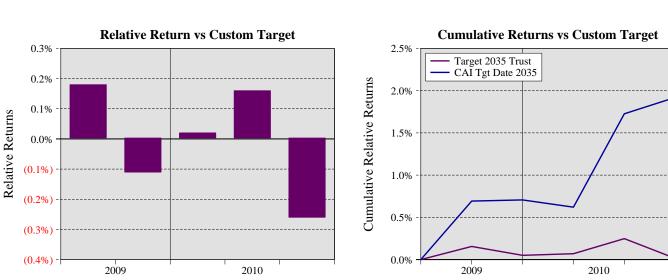
#### **Investment Philosophy**

Annual fees are 15 basis points.

#### **Quarterly Summary and Highlights**

- Target 2035 Trust's portfolio posted a 11.29% return for the quarter placing it in the 63 percentile of the CAI Target Date 2035 group for the quarter and in the 64 percentile for the last year.
- Target 2035 Trust's portfolio underperformed the Custom Target by 0.26% for the quarter and underperformed the Custom Target for the year by 0.15%.





### Performance vs CAI Target Date 2035 (Net)

Target 2035 Trust

Target 2040 Trust

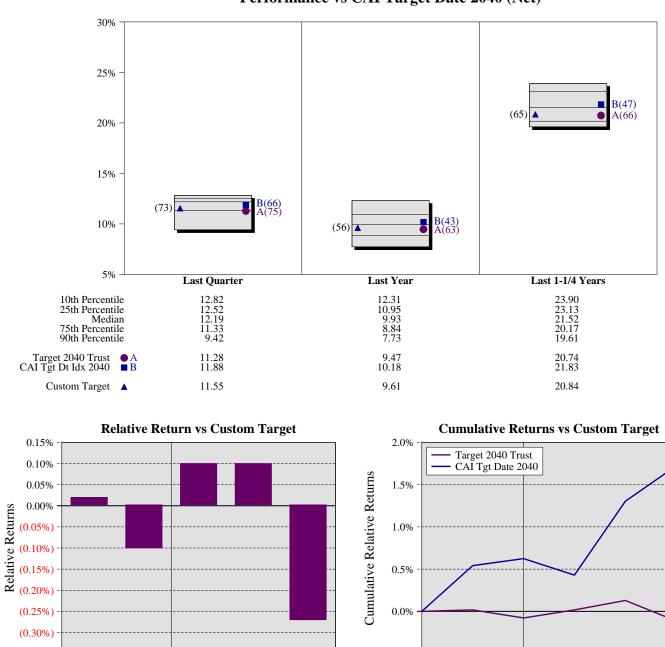
#### TARGET 2040 TRUST PERIOD ENDED SEPTEMBER 30, 2010

#### **Investment Philosophy**

Annual fees are 15 basis points.

#### **Quarterly Summary and Highlights**

- Target 2040 Trust's portfolio posted a 11.28% return for the quarter placing it in the 75 percentile of the CAI Target Date 2040 group for the quarter and in the 63 percentile for the last year.
- Target 2040 Trust's portfolio underperformed the Custom Target by 0.27% for the quarter and underperformed the Custom Target for the year by 0.14%.



(0.5%) -

2009

2010

### Performance vs CAI Target Date 2040 (Net)

2009

2010

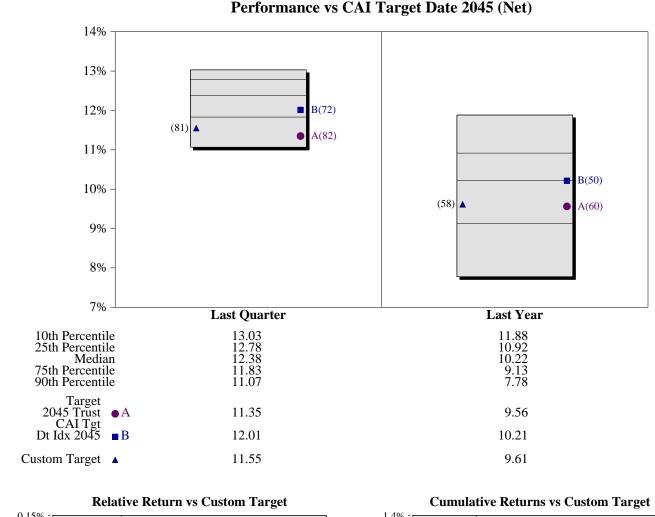
Target 2040 Trust

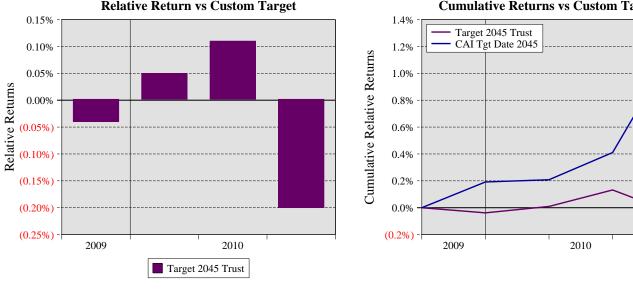
(0.35%) -

#### TARGET 2045 TRUST PERIOD ENDED SEPTEMBER 30, 2010

#### **Quarterly Summary and Highlights**

- Target 2045 Trust's portfolio posted a 11.35% return for the quarter placing it in the 82 percentile of the CAI Target Date 2045 group for the quarter and in the 60 percentile for the last year.
- Target 2045 Trust's portfolio underperformed the Custom Target by 0.20% for the quarter and underperformed the Custom Target for the year by 0.05%.



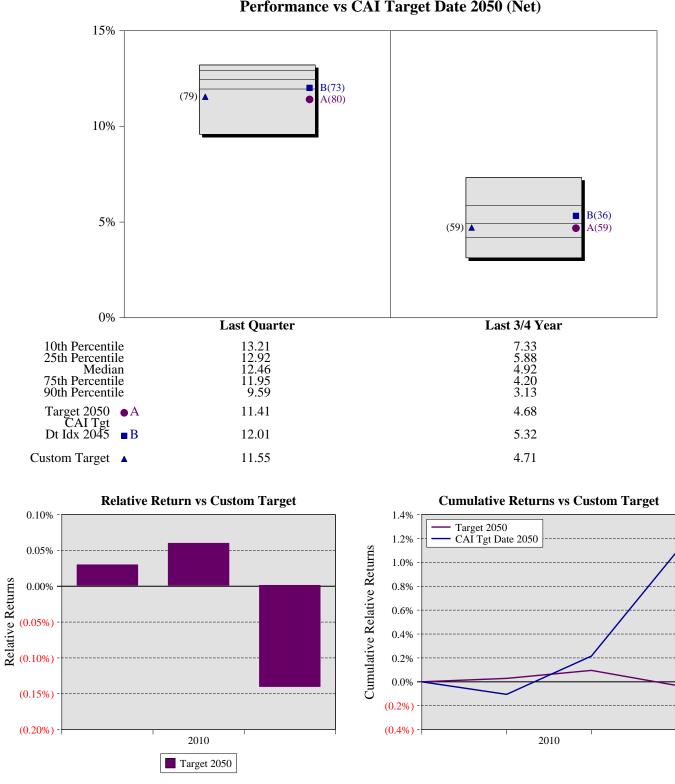


Target 2050 Trust

#### **TARGET 2050 PERIOD ENDED SEPTEMBER 30, 2010**

#### **Quarterly Summary and Highlights**

- Target 2050's portfolio posted a 11.41% return for the quarter placing it in the 80 percentile of the CAI Target . Date 2050 group for the quarter and in the 59 percentile for the last three-quarter year.
- Target 2050's portfolio underperformed the Custom Target by 0.14% for the quarter and underperformed the . Custom Target for the three-quarter year by 0.03%.



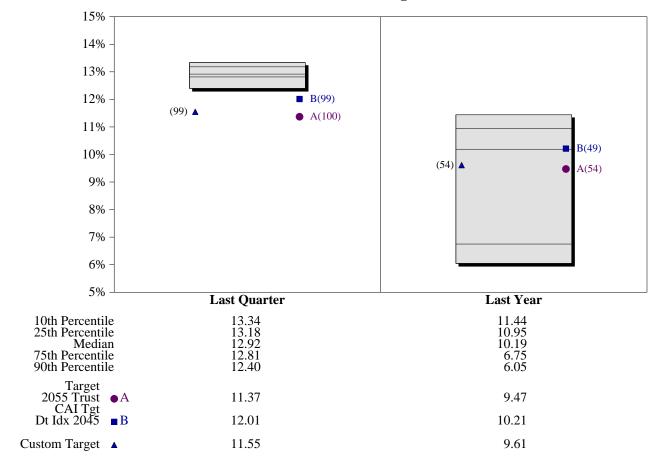
### Performance vs CAI Target Date 2050 (Net)

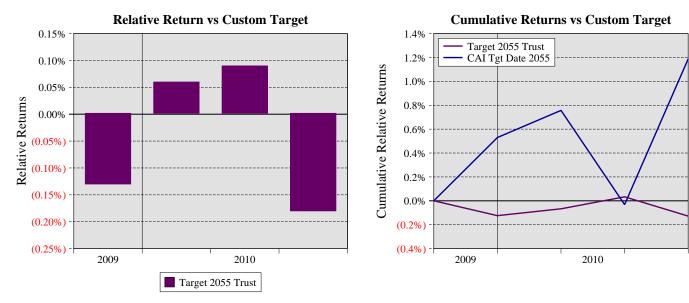
Target 2055 Trust

#### TARGET 2055 TRUST PERIOD ENDED SEPTEMBER 30, 2010

#### **Quarterly Summary and Highlights**

- Target 2055 Trust's portfolio posted a 11.37% return for the quarter placing it in the 100 percentile of the CAI Target Date 2055 group for the quarter and in the 54 percentile for the last year.
- Target 2055 Trust's portfolio underperformed the Custom Target by 0.18% for the quarter and underperformed the Custom Target for the year by 0.14%.





#### Performance vs CAI Target Date 2055 (Net)

US Real Estate Investment Trust Index

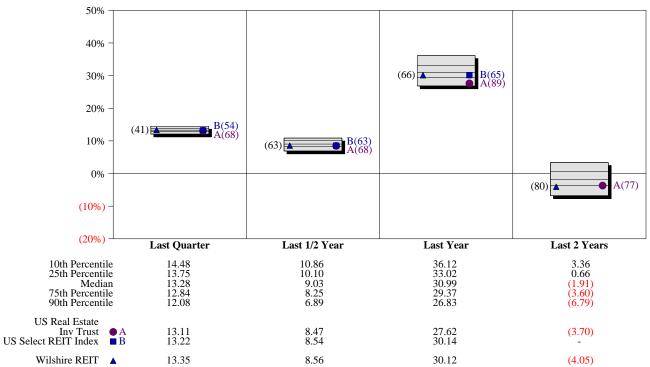
#### US REAL ESTATE INV TRUST PERIOD ENDED SEPTEMBER 30, 2010

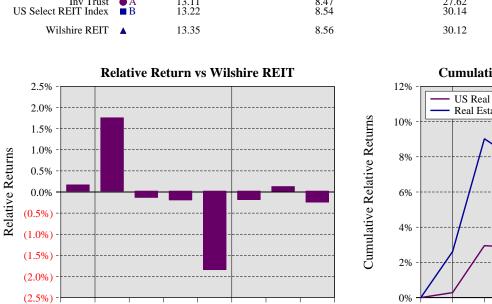
#### **Investment Philosophy**

The US Real Estate Investment Trust Index Fund is managed by SSgA. Passively managed. Annual fees are 17 basis points.

#### **Quarterly Summary and Highlights**

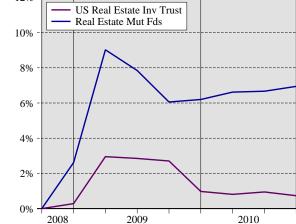
- US Real Estate Inv Trust's portfolio posted a 13.11% return for the quarter placing it in the 68 percentile of the Real Estate Mut Fds group for the quarter and in the 89 percentile for the last year.
- US Real Estate Inv Trust's portfolio underperformed the Wilshire REIT by 0.24% for the quarter and underperformed the Wilshire REIT for the year by 2.50%.





2010

#### **Cumulative Returns vs Wilshire REIT**



Performance vs Real Estate Mut Fds (Gross)

2009

US Real Estate Inv Trust

2008

Callan Research/Education



CALLAN INVESTMENTS INSTITUTE

THIRD QUARTER 2010

## RESEARCH AND UPCOMING PROGRAMS

Below is a list of recent Callan Institute research and upcoming programs. The Institute's research and educational programs keep clients updated on the latest trends in the investment industry and help clients learn through carefully structured workshops and lectures. For more information, please contact your Callan Consultant or Gina Falsetto at 415.974.5060 or institute@callan.com.

### **White Papers**

#### Lifetime Retirement Income Solutions

Lori Lucas, CFA

Fixed Income Benchmark Review: Year-Ended March 31, 2010 Anna West

The Next DC Frontier: An Outcomes-Based Approach to DC Plan Design Lori Lucas, CFA

The Recovery Across All Asset Classes Reprinted with permission from PREA Quarterly, Spring 2010 Jay Kloepfer

### **Publications**

DC Observer and Callan DC Index<sup>™</sup> – 2nd Quarter 2010
Hedge Fund Monitor – 2nd Quarter 2010
Capital Market Review – 3rd Quarter 2010
Quarterly Performance Data – 3rd Quarter 2010
Private Markets Trends – Summer 2010

## **Surveys**

2010 Alternatives Survey - coming soon!
2010 DC Trends Survey - January 2010
How Investment Managers Survived the Market Collapse - October 2009
2009 Investment Management Fee Survey - September 2009



CALLAN INVESTMENTS INSTITUTE

THIRD QUARTER 2010

# RESEARCH AND UPCOMING PROGRAMS

### (continued)

### **Event Summaries and Presentations**

- Summary: 2010 Regional Breakfast Workshop June 2010 "The Risk Locker - Strategies to Diffuse Risk"
- Presentation: 2010 Regional Breakfast Workshop June 2010 "The Risk Locker - Strategies to Diffuse Risk"
- Summary: The 30th Annual National Conference February 2010 Featuring: The Capital Markets Panel, T.R. Reid, Warren Hellman, Laura D'Andrea Tyson and workshops on DC, alternatives and inflation

## **Upcoming Educational Programs**

#### The 31st Annual National Conference

January 31 - February 2, 2011 in San Francisco Speakers include: Henry M. Paulson, Fareed Zakaria, Joshua Cooper Ramo, and Dan Ariely Workshops on: defined contribution, portfolio structure, and real assets

Details will be sent to you via email and U.S. Mail in October.

If you have any questions regarding these programs, please contact Ray Combs at 415.974.5060 or institute@callan.com.

101 California Street, Suite 3500, San Francisco, California 94111, 415.974.5060, www.callan.com

The Callan Investments Institute, the educational division of Callan Associates Inc., has been a leading educational forum for the pensions and investments industry since 1980. The Institute offers continuing education on key issues confronting plan sponsors and investment managers.



# THE CENTER FOR INVESTMENT TRAINING ("CALLAN COLLEGE")

THIRD QUARTER 2010

# EDUCATIONAL SESSIONS

## **An Introduction to Investments**

#### April and October in San Francisco

This two-day session is designed for individuals who have less than two years' experience with institutional asset management oversight and/or support responsibilities. It will familiarize fund sponsor trustees and staff with basic investment theory, terminology, and practices. Participants in the introductory session will gain a basic understanding of the different types of institutional funds, including a description of their objectives and investment program structures.

## **Advanced Investment Topics**

#### July in Chicago

This program is designed for individuals who have more than two years' experience and provides attendees with a complete and thorough overview of prudent investment practices for both trusteedirected and participant-directed funds. This session is beneficial to anyone involved in the investment management process, including: trustees and staff members of public, endowment & foundation, corporate, and Taft-Hartley retirement funds; representatives of family trusts; and investment management professionals.

## **Session on Real Estate**

#### 2011 Dates TBD

Callan Associates will share its expertise through an educational program designed to advance the participants' knowledge, understanding and comfort with real estate investing. Callan's real estate specialists have extensive knowledge and experience and will provide insights relating to institutional demand, product availability, program design, implementation, regulatory outlook, trends and best practices.



# THE CENTER FOR INVESTMENT TRAINING ("CALLAN COLLEGE")

THIRD QUARTER 2010

# EDUCATIONAL SESSIONS

(continued)

## **Customized Sessions**

A unique feature of the "Callan College" is its ability to educate on a specialized level through its customized sessions. Whether you are a plan sponsor or you provide services to institutional taxexempt plans, we are equipped to tailor the curriculum to meet the training and educational needs of your organization and bring the program to your venue. Instruction can be tailored to be basic or advanced.

For more information on the "Callan College," please contact Kathleen Cunnie, Manager, at 415.274.3029 or college@callan.com.

The Center for Investment Training ("Callan College") provides relevant and practical educational opportunities to all professionals engaged in the investment decision making process. This educational forum offers basic-to-intermediate level instruction on all components of the investment management process

101 California Street, Suite 3500, San Francisco, California 94111, 415.974.5060, www.callan.com

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Callan Associates takes its fiduciary and disclosure responsibilities to clients very seriously. The list below is compiled and updated quarterly because we believe our fund sponsor clients should have a clear understanding of the investment management organizations that do business with our firm. As of 09/30/10, Callan provided educational, consulting, software, database, or reporting services to this list of managers through one or more of the following business units: Institutional Consulting Group, Independent Adviser Group, Fund Sponsor Consulting, the Callan Investments Institute and the "Callan College." Per strict policy these manager relationships do not affect the outcome or process by which any of Callan's services are conducted.

Fund sponsor clients may request a copy of this list at any time. Fund sponsor clients may also request specific information regarding the fees paid to Callan by the managers employed by their fund. Per company policy, information requests regarding fees are handled exclusively by Callan's Compliance Department.

Manager Name	Educational Services	Consulting Services
1607 Capital Partners, LLC		Y
Aberdeen Asset Management		Y
Acadian Asset Management, Inc.	Y	
AllianceBernstein	Y	
Allianz Global Investors Capital		Y
American Century Investment Management	Y	
Analytic Investors	Y	
AQR Capital Management	Y	
Artio Global Management (fka, Julius Baer)	Y	Y
Atalanta Sosnoff Capital, LLC	Y	
Atlanta Capital Management Co., L.L.C.	Y	Y
Aviva Investors North America	Y	
XA Rosenberg Investment Management	Y	
Babson Capital Management LLC	Y	
Baillie Gifford International LLC	Ý	
Baird Advisors	Ý	Y
Bank of America		Ý
Bamk of Ireland Asset Management	Y	·
Baring Asset Management	Ý	
Barrow, Hanley, Mewhinney & Strauss, Inc.		Y
Batterymarch Financial Management, Inc.	Y	
BlackRock		Y
Boston Company Asset Management, LLC (The)	Y	Ý
BNY Mellon Asset Management	Ý	·
Brandes Investment Partners, L.P.	Ý	Y
Brandywine Global Investment Management, LLC	Ý	·
Brown Brothers Harriman & Company	Ý	
Cadence Capital Management	Ý	
Calamos Advisors	Ý	
Capital Group Companies (The)	Ý	
CastleArk Management, LLC		Y
Causeway Capital Management	Y	·
Chartwell Investment Partners	Ý	
ClearBridge Advisors	Y	
Colony Realty	Ý	
Columbia Management Investment Advisors. LLC	Y	Y
Columbus Circle Investors	Y	Y
Cramer Rosenthal McGlvnn. LLC	Y	
Crestline Investors		Y
Davis Advisors	Y	
Davis Advisors DB Advisors	Y	Y
DDJ Capital Management	Y	Ť
DE Shaw Investment Management, L.L.C.	Y	
		V
Delaware Investments DePrince, Race & Zollo, Inc.		Y
Diamond Hill Investments	Y	Ť
DSM Capital Partners		Y
Eagle Asset Management, Inc.		Y
EARNEST Partners, LLC	Y	T
	Ý	Y
Eaton Vance Management		Ý
Entrust Capital Inc.	Y	
poch Investment Partners	•	
avez Sarofim & Company	Y	Y
Federated Investors		Y

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Manager Name	Educational Services	Consulting Services
Fiduciary Asset Management Company (FAMCO)	Y	
First Eagle Investment Management	Y	
Franklin Templeton	Y	Y
Fred Alger Management Co., Inc.	Y	Y
GAM (USA) Inc.	Y	
GE Asset Management	Y	Y
GLG Partners Corp.	Y	
Goldman Sachs Asset Management	Y	Y
Grand-Jean Capital Management		Y
Grantham, Mavo, Van Otterloo & Co., LLC	Y	
Great Lakes Advisors, Inc.		Y
Guggenheim Partners	Y	
Harris Associates	Y	
Harris Investment Management, Inc.	Y	
Hartford Investment Management Co.	Y	Y
Henderson Global Investors	Y	
Hennessy Funds	Y	
Hermes Investment Management (North Amrica) Ltd.	Ý	
HSBC Investments (USA) Inc.		Y
Income Research & Management	Y	
ING Investment Management	Y	Y
INVESCO	Y	Y
Institutional Capital LLC	Y	
Janus Capital Group (fka Janus Capital Management, LLC)	Y	Y
Jensen Investment Management		Ý
J.P. Morgan Asset Management	Y	
Knightsbridge Asset Management, LLC		Y
Lazard Asset Management	Y	Y
Lee Munder Capital Group	Ý	Ý
Liquid Realty	Ý	
Login Circle		Y
Loomis, Savles & Company, L.P.	Y	Ý
Lord Abbett & Company	Ý	
Los Angeles Capital Management	Y	
LSV Asset Management	Ý	
MacKay Shields LLC	Y	Y
Madison Square Investors	Ý	
Marvin & Palmer Associates. I nc.	Y	
Marvin d'Lamer Associates, me.	Ý	
Mawel investment Management (fka, Franklin Portfolio Assoc.)	Ý	
Mellon Transition Management & BNY Mellon Beta Management	Ý	
Metropolitan Life Insurance Company		V
Metropolitan West Capital Management, LLC		Y
MEC Global Investment Management (U.S.) LLC	V	
MFS Investment Management	Ý	Y
Moody Aldrich Partners	Y	1
Mondrian Investment Partners Limited	Y	Y
Montag & Caldwell. Inc.	Y	Y
Montag & Caldwell, Inc. Morgan Stanley Investment Management	Y	Y
Newton Capital Management		I
	T V	Y
Neuberger Berman, LLC (fka, Lehman Brothers)	Y	Y
Nomura Asset Management U.S.A., Inc.	Y	
Northern Lights Capital Group Northern Trust Global Investment Services	Y	Y

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Manager Name	Educational Services	Consulting Services
Northern Trust Value Investors		Y
Nuveen Investments Institutional Services Group LLC	Y	Y
DFI Institutional Asset Management	Y	
Did Mutual Asset Management	Y	Y
Oppenheimer Capital	Y	
Opus Capital Management	Y	
Pacific Investment Management Company	Y	
Palisades Investment Partners, LLC		Y
anAgora Asset Management	Y	
eregrine Capital Management, Inc.		Y
Perkins Investment Management	Y	
Permal Group Inc.	Y	
hiladelphia International Advisors. LP	Y	
PineBridge Investments (formerly AIG)		
lioneer Investment Management, Inc.	Y	
NC Capital Advisors (fka Allegiant Asset Mgmt)	Ý	Y
rincipal Global Investors	Ý	Ý
risma Capital		Y
rudential Investment Management, Inc.	Y	Ý
utnam Investments, LLC	Y	
vramis Global Advisors	Y	
BC global Asset Management	Y	
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Rice Hall James & Associates, LLC		
Robeco Investment Management	Y	Y
Rothschild Asset Management, Inc.	Y	Ý
REEF	Y	N N
Schroder Investment Management North America Inc.	Y	Ý
Scottish Widows Investment Partnership	Y	
SEI Investments		Y
Smith Group Asset Management	Y	Y
Standard Life Investments	Y	
Standish (fka, Standish Mellon Asset Management)	Y	
State Street Global Advisors	Y	
Sterne Agee Asset Management		Y
tone Harbor Investment Partners, L.P.		Y
Stratton Management		Y
Systematic Financial Management	Y	
. Rowe Price Associates, Inc.	Y	Y
aplin, Canida & Habacht	Y	
CW Asset Management Company	Y	
D Asset Management (USA)	Y	
hrivent Financial for Lutherans		Y
hompson, Siegel & Walmsley LLC	Y	
IAA-CREF		Y
owle & Co.	Y	
JBP Asset Management LLC	Ý	
IBS	Ý	Y
Jnion Bank of California		Ý
/ictory Capital Management Inc.	γ	Ý
ontobel Asset Management	Y	
Vaddell & Reed Asset Management Group	Y	
VEDGE Capital Management		Y
Vellington Management Company, LLP	Y	1

#### Confidential – For Callan Client Use Only

Callan Associates takes its fiduciary and disclosure responsibilities to clients very seriously. The list below is compiled and updated quarterly because we believe our fund sponsor clients should have a clear understanding of the investment management organizations that do business with our firm. As of 09/30/10, Callan provided educational, consulting, software, database, or reporting services to this list of managers through one or more of the following business units: Institutional Consulting Group, Independent Adviser Group, Fund Sponsor Consulting, the Callan Investments Institute and the "Callan College." Per strict policy these manager relationships do not affect the outcome or process by which any of Callan's services are conducted.

Fund sponsor clients may request a copy of this list at any time. Fund sponsor clients may also request specific information regarding the fees paid to Callan by the managers employed by their fund. Per company policy, information requests regarding fees are handled exclusively by Callan's Compliance Department.

Manager Name	Educational Services	Consulting Services
Wells Capital Management	Y	
West Gate Horizons Advisors, LLC		Y
Western Asset Management Company	Y	
William Blair & Co., Inc.	Y	Y
Zephyr Management	Y	

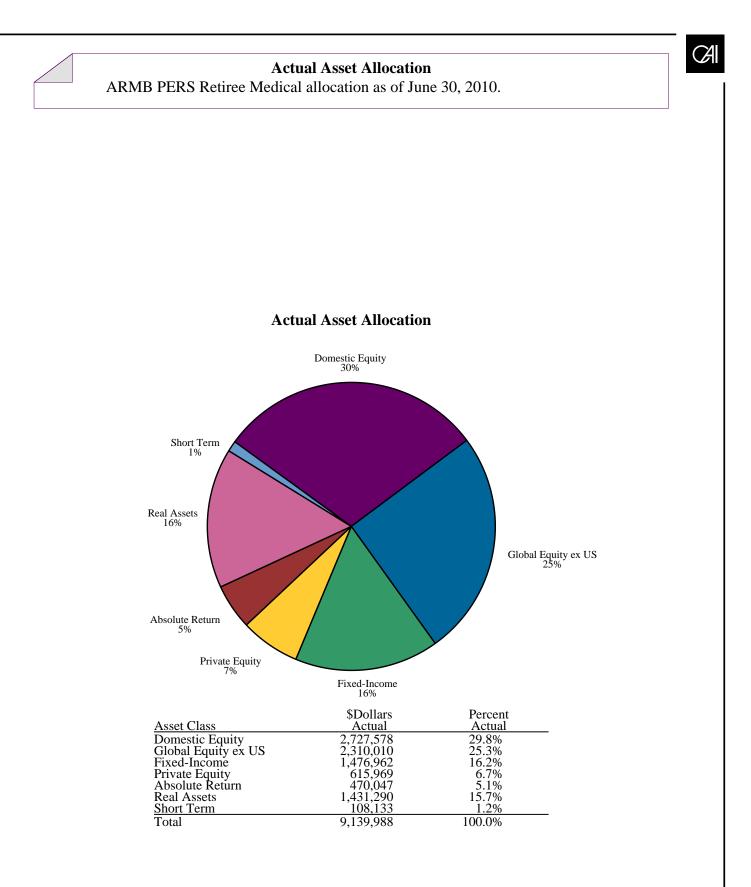
Callan Associates Inc. Investment Measurement Service Quarterly Review

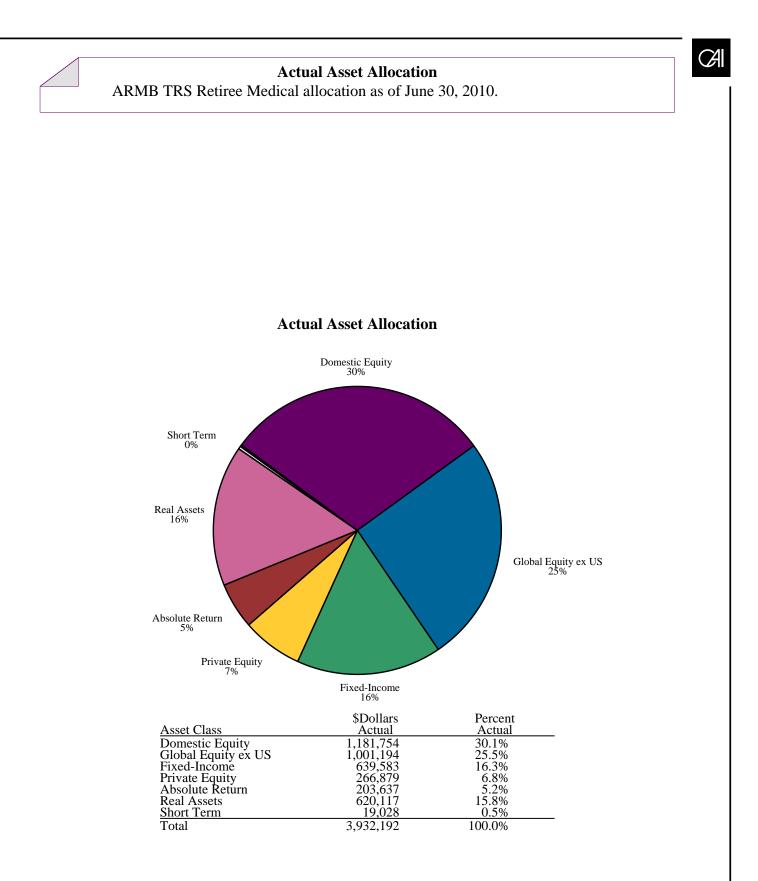
Alaska Retirement Management Board Defined Contribution Plans Preliminary September 30, 2010

The following report was prepared by Callan Associates Inc. ("CAI") using information from sources that include the following: fund trustee(s); fund custodian(s); investment manager(s); CAI computer software; CAI investment manager and fund sponsor database; third party data vendors; and other outside sources as directed by the client. CAI assumes no responsibility for the accuracy or completeness of the information provided, or methodologies employed, by any information providers external to CAI. Reasonable care has been taken to assure the accuracy of the CAI database and computer software. In preparing the following report, CAI has not reviewed the risks of individual security holdings or the compliance/non-compliance of individual security holdings with investment policies and guidelines of a fund sponsor, nor has it assumed any responsibility to do so. Copyright 2010 by Callan Associates Inc.

Retiree Medical
Health Reimbursement
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PERS Defined Contribution Plan
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Manager Performance18Cumulative Performance18S&P 500 Index Fund20RCM Socially Responsible Investment Fund21Russell 3000 Index Fund22T. Rowe Price Small-Cap23Brandes International Equity Fund24World Equity ex US25BlackRock Global Govt/Credit Bond Fund26Long US Treasury Bond27Intermediate Bond Fund26US Treasury Inflation Protected Sec29World Govt Bond ex US30SygA Global Balanced31Alaska Balanced Trust33Target 2010 Trust34Target 2020 Trust35Target 2030 Trust36Target 2035 Trust36Target 2045 Trust39Target 2055 Trust44Alaska Money Market Master Trust45
Callan Research/Education
Disclosures

**Retiree Medical** 

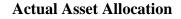


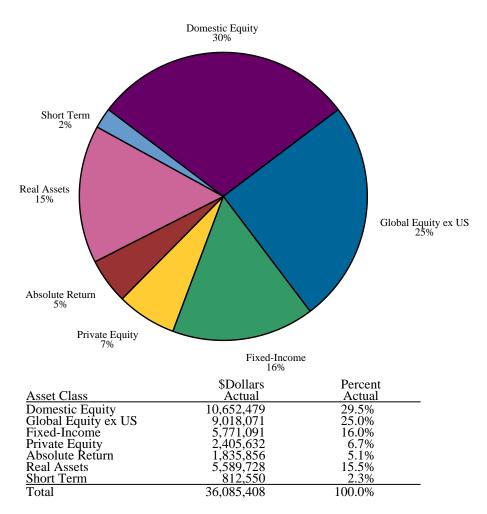


Health Reimbursement

#### Actual Asset Allocation

ARMB PERS Health Reimbursement allocation as of June 30, 2010.

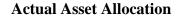


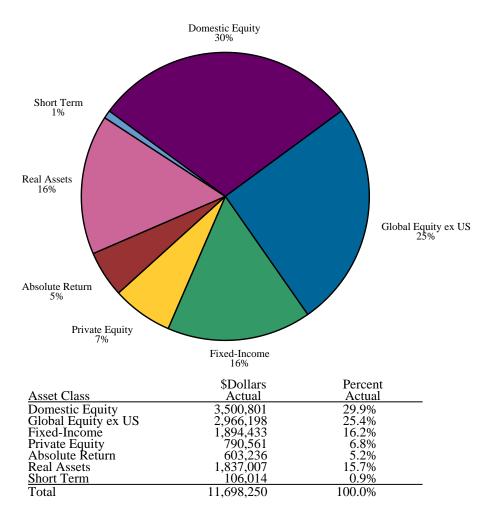


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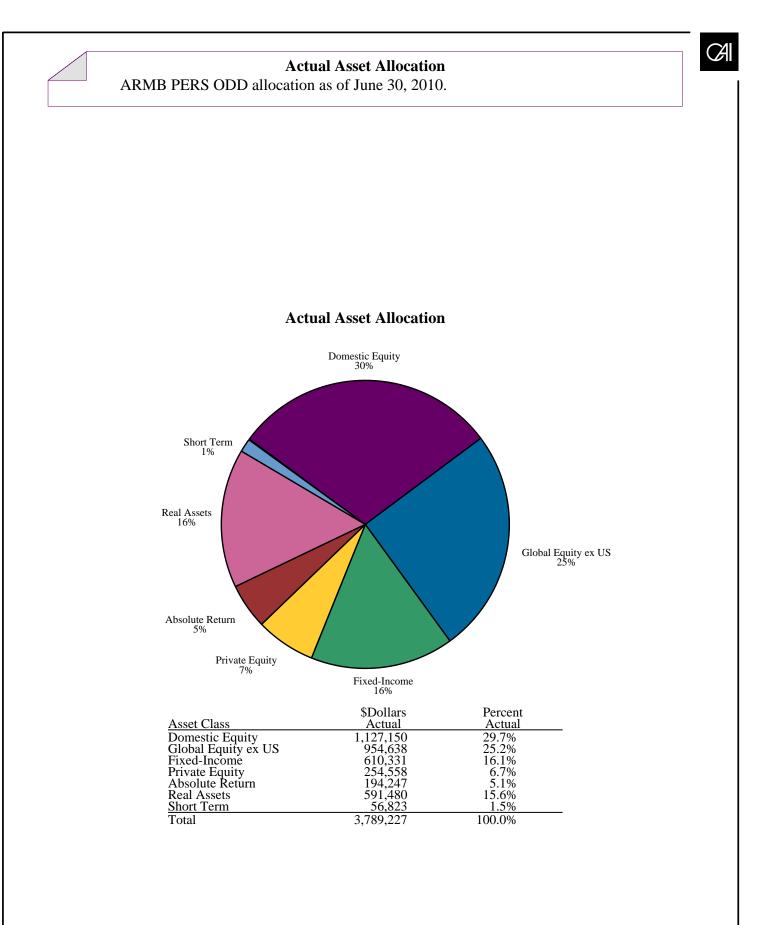
ARMB TRS Health Reimbursement allocation as of June 30, 2010.

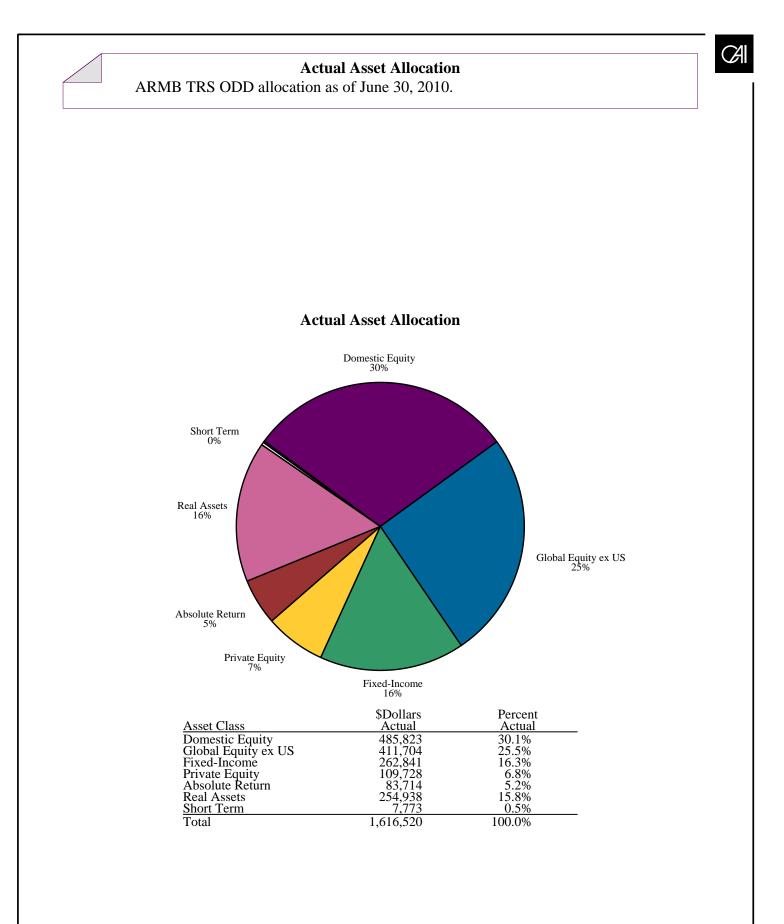


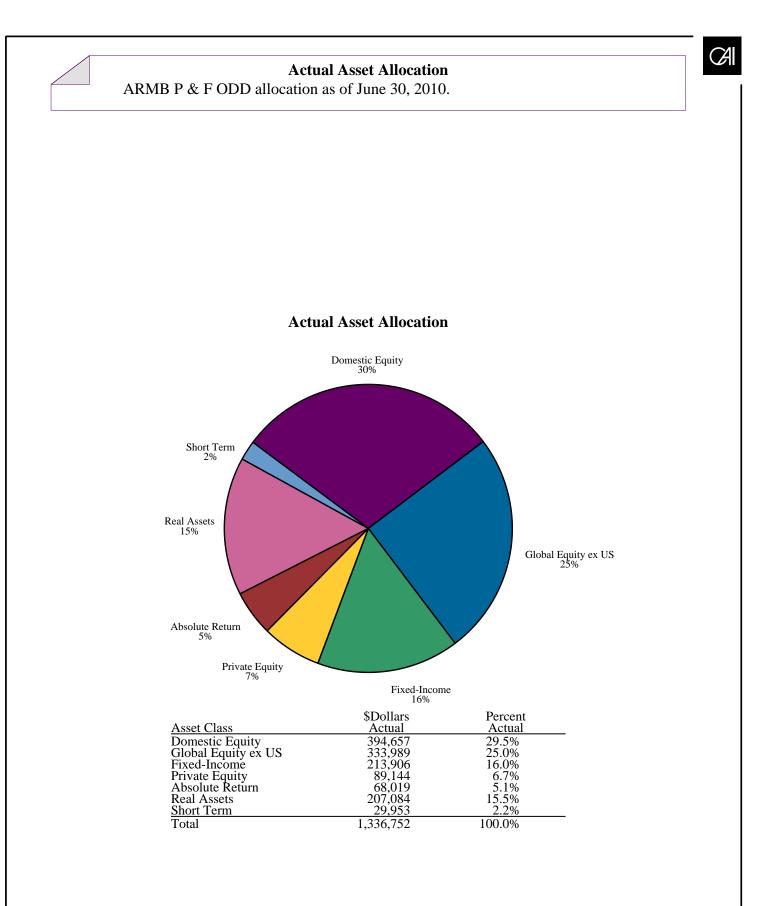


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ODD







Manager Performance

## **Investment Fund Returns**

The table below details the rates of return for the Sponsor's investment funds over various time periods ended September 30, 2010. Negative returns are shown in red, positive returns in black. Returns for one year or greater are annualized.

<b>Returns for Periods Ended September 30, 2010</b>					
	Last Quarter	Last 3/4 Year	Last Year	Last 2 Years	Last 3-3/4 Years
Total Retiree Medical Plan	7.77%	5.95%	8.98%	1.45%	(1.35%)
<b>Retiree Medical PERS</b>	7.76%	5.94%	8.95%	1.47%	-
Retiree Medical TRS Benchmark	<b>7.78%</b> 9.32%	<b>5.99%</b> 6.03%	<b>9.06%</b> 9.06%	<b>1.34%</b> 2.39%	(1.41%)
Total Health Reimbursement	7.73%	5.88%	8.95%	1.52%	(1.17%)
Health Reimbursement PERS	7.71%	5.86%	8.94%	1.55%	-
Health Reimbursement TRS Benchmark	<b>7.78%</b> 9.32%	<b>5.96%</b> 6.03%	<b>9.00%</b> 9.06%	<b>1.35%</b> 2.39%	(1.41%)
ODD PERS Benchmark	<b>7.78%</b> 9.32%	<b>5.94%</b> 6.03%	<b>9.19%</b> 9.06%	<b>1.23%</b> 2.39%	<b>(1.35%)</b> (1.41%)
ODD TRS Benchmark	<b>7.81%</b> 9.32%	<b>5.99%</b> 6.03%	<b>9.44%</b> 9.06%	<b>1.51%</b> 2.39%	(1.41%)
DC ODD P& F Benchmark	<b>7.68%</b> 9.32%	<b>5.74%</b> 6.03%	- 9.06%	- 2.39%	(1.41%)

\* Current Quarter Target = 29.0% Russell 3000 Index, 23.0% MSCI ACWI ex-US Index, 15.0% BC Intmdt Treas, 9.6% NCREIF Total Index, 5.0% 3-month Treasury Bill+5.0%, 3.2% BC US TIPS Index, 2.3% MSCI EAFE Index, 2.3% S&P 500 Index, 2.3% Russell 2000 Index, 2.0% Citi WGBI Non-US Idx, 2.0% Hi Yld II Index, 1.6% NCREIF Farmland Index, 1.6% NCREIF Timberland Index and 1.0% 3-month Treasury Bill. Alaska Retirement Management Board

CA

PERS Defined Contribution Plan

# **Investment Manager Asset Allocation**

The table below contrasts the distribution of assets across the Fund's investment managers as of September 30, 2010, with the distribution as of June 30, 2010.

	<b>September 30, 2010</b>		June 30, 2	010
	Market Value	Percent	Market Value	Percent
Balanced/Target Funds				
Alaska Balanced Trust	194,377	0.17%	147,143	0.15%
Alaska Long-Term Balanced	8,362,068	7.16%	7,078,051	7.40%
2010 Trust	129,442	0.11%	89,514	0.09%
2015 Trust	592,337	0.51%	384,451	0.40%
2020 Trust	912,855	0.78%	630,208	0.66%
2025 Trust	1,176,800	1.01%	799,337	0.84%
2030 Trust	1,309,979	1.12%	846,640	0.88%
2035 Trust	1,333,245	1.14%	840,295	0.88%
2040 Trust	2,343,437	2.01%	1,529,412	1.60%
2045 Trust	1,976,224	1.69%	1,189,794	1.24%
2050 Trust	2,254,883	1.93%	1,338,359	1.40%
2055 Trust	585,673	0.50%	300,652	0.31%
2000 11000	000,070	0.0070	000,002	010170
Domestic Equity Funds				
S&P 500 Stock Index Fd	25,144,983	21.52%	20,952,151	21.90%
RCM Socially Resp Inv Fd	25,443,933	21.78%	20,902,947	21.85%
Russell 3000 Index Fd	154,914	0.13%	129,675	0.14%
T. Rowe Small Cap	1,257,127	1.08%	1,057,924	1.11%
International Equity Funds				
Brandes Intl Equity	31,351,578	26.84%	26,479,205	27.68%
World Equity ex US	187,846	0.16%	153,938	0.16%
Fixed-Income Funds				
BlackRock Govt/Credit	3,880,940	3.32%	3,630,197	3.79%
Long US Treasury Bd	155,353	0.13%	159,690	0.17%
Intermediate Bond Fund	219,523	0.19%	205,247	0.21%
US TIPS	144,392	0.12%	109,296	0.11%
World Govt Bd ex US	70,284	0.06%	51,100	0.05%
	, 0,201	0.0070	51,100	0.0070
Global Balanced Funds				
SSgA Global Balanced	2,730,002	2.34%	2,297,903	2.40%
Real Estate Funds				
US REIT Index	265,726	0.23%	176,302	0.18%
Short Term Funds				
Money Market	4,475,890	3.83%	4,025,866	4.21%
SSgA Treas Money Mkt Fd	176,818	0.15%	168,446	0.18%
				0.2070
Fotal	\$116,830,629	100.0%	\$95,673,743	100.0%

# **Asset Distribution Across Investment Managers**

CA

TRS Defined Contribution Plan

# **Investment Manager Asset Allocation**

The table below contrasts the distribution of assets across the Fund's investment managers as of September 30, 2010, with the distribution as of June 30, 2010.

	September 30	, 2010	June 30, 2	010
	Market Value	Percent	Market Value	Percent
Balanced/Target Funds				
Alaska Balanced Trust	58,245	0.11%	55,689	0.12%
Alaska Long-Term Balanced	4,164,655	8.16%	3,706,914	8.21%
2010 Trust	86,946	0.17%	69,824	0.15%
2015Trust	315,895	0.62%	273,202	0.61%
2020 Trust	373,599	0.73%	301,078	0.67%
2025 Trust	432,559	0.85%	359,240	0.80%
2030 Trust	434,251	0.85%	375,786	0.83%
2035 Trust	782,951	1.53%	626,946	1.39%
2040 Trust	947,799	1.86%	769,433	1.70%
2045 Trust	1,595,408	3.13%	1,258,466	2.79%
2050 Trust	1,856,009	3.64%	1,479,648	3.28%
2055 Trust	37,422	0.07%	27,188	0.06%
Domestic Equity Funds				
S&P 500 Stock Index Fd	10,426,491	20.43%	9,221,034	20.43%
RCM Socially Resp Inv Fd	10,464,548	20.51%	9,222,310	20.43%
Russell 3000 Index Fd	57,801	0.11%	43,321	0.10%
T. Rowe Small Cap	501,626	0.98%	442,607	0.98%
International Equity Funds				
Brandes Intl Equity	13,214,442	25.89%	11,874,857	26.31%
World Equity ex US	29,633	0.06%	18,716	0.04%
Fixed-Income Funds				
BlackRock Govt/Credit	1,618,837	3.17%	1,651,542	3.66%
Long US Treasury Bd	10,741	0.02%	10,017	0.02%
Intermediate Bond Fund	38,718	0.08%	36,638	0.08%
US TIPS	73,196	0.14%	54,543	0.12%
World Govt Bd ex US	1,633	0.00%	1,481	0.00%
Global Balanced Funds				
SSgA Global Balanced	1,581,989	3.10%	1,433,122	3.17%
Real Estate Funds				
US REIT Index	41,172	0.08%	34,977	0.08%
Short Term Funds				
Alaska Money Market	1,875,383	3.67%	1,774,661	3.93%
SSgA Money Mkt	11,741	0.02%	17,195	0.04%
Total	\$51,033,690	100.0%	\$45,140,435	100.0%

# Asset Distribution Across Investment Managers

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Manager Performance

#### **Investment Manager Returns**

The table below details the rates of return for the Sponsor's investment managers over various time periods ended September 30, 2010. Negative returns are shown in red, positive returns in black. Returns for one year or greater are annualized. The first set of returns for each asset class represents the composite returns for all the fund's accounts for that asset class.

	Fiscal YTD	Last Year	Last 3 Years	Last 4 Years
&P 500 Stock Index Fd	11.31%	<u>10.19%</u>	(7.06%)	(1.66%)
RCM Socially Responsible Inv(1) S&P 500 Index	<b>11.85%</b> 11.29%	<b>8.37%</b> 10.16%	(7.16%)	(1.75%)
Russell 3000 Index Fund Russell 3000	<b>11.54%</b> 11.53%	<b>11.01%</b> 10.96%	(6.59%)	(1.29%)
F. Rowe Price Small-Cap Stock Tr Russell 2000	<b>13.02%</b> 11.29%	<b>18.27%</b> 13.35%	( <b>0.49%</b> ) (4.29%)	<b>2.51%</b> (0.38%)
Brandes International Equity Fund	13.56%	-	-	-
MSCI EAFE Index Vorld Equity ex US	16.48% <b>16.54%</b>	3.27% <b>7.00%</b>	(9.51%)	(1.93%)
MSČI ACWI x US (Net)	16.58%	7.56%	(7.42%)	0.89%
SgA Global Balanced Global Balanced Target	<b>10.42%</b> 10.39%	<b>8.55%</b> 8.42%	-	-
BlackRock Govt/Credit Bond Fund(2) BC Govt/Credit Bd	<b>3.25%</b> 3.28%	<b>8.42%</b> 8.73%	<b>7.20%</b> 7.46%	<b>6.70%</b> 6.86%
ong US Treasury Bond BC Long Treasury	<b>5.11%</b> 5.21%	<b>12.66%</b> 12.74%	- 10.76%	- 9.15%
ntermediate Bond Fund BC Govt Intermediate	<b>2.09%</b> 2.13%	<b>5.94%</b> 6.19%	- 6.65%	- 6.46%
JS TIPS BC US TIPS Index	2.46%	8.72% 8.89%	- 6.91%	-
Vorld Govt Bond ex US	2.48% <b>10.40%</b>	6.89% <b>4.41%</b>	-	6.42% -
Citi Non-US Gvt Bd Idx	10.45%	4.47%	8.44%	8.70%
Alaska Balanced Trust Alaska Balanced Benchmark	<b>5.91%</b> 6.02%	<b>8.74%</b> 9.01%	<b>2.75%</b> 2.91%	<b>4.39%</b> 4.44%
Maska Long-Term Balanced Tr Alaska Long-Term Bal. Benchmark	<b>8.44%</b> 8.56%	<b>9.19%</b> 9.51%	( <b>0.78%</b> ) (0.53%)	<b>2.36%</b> 2.50%
Farget 2010 Trust Target 2010 Benchmark	<b>7.64%</b> 7.89%	<b>8.46%</b> 8.69%	-	-
arget 2015 Trust Target 2015 Benchmark	<b>8.72%</b> 8.90%	<b>8.54%</b> 8.40%	-	-
Farget 2020 Trust	<b>9.50%</b> 9.76%	<b>9.24%</b> 9.73%	-	-

RCM Socially Responsible Inv Fd replaced the Sentinel Sustainable Core Opp Fund on October 31, 2008.
 Relaced SSgA Govt/Corp Bond Fund during August 2007.

Alaska Retirement Management Board

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#### **Investment Manager Returns**

The table below details the rates of return for the Sponsor's investment managers over various time periods ended September 30, 2010. Negative returns are shown in red, positive returns in black. Returns for one year or greater are annualized. The first set of returns for each asset class represents the composite returns for all the fund's accounts for that asset class.

<b>Returns for Periods Ended September 30, 2010</b>				
	Fiscal YTD	Last Year	Last 3 Years	Last 4 Years
Target 2025 Trust	10.26%	9.82%	(5.17%)	(0.34%)
Target 2025 Benchmark	10.51%	10.12%	(5.33%)	(0.47%)
Target 2030 Trust	10.83%	9.45%	-	-
Target 2030 Benchmark	11.06%	9.62%	-	-
Target 2035 Trust	11.29%	9.46%	-	-
Target 2035 Benchmark	11.55%	9.61%	-	-
Target 2040 Trust	11.28%	9.47%	-	-
Target 2040 Benchmark	11.55%	9.61%	-	-
Target 2045 Trust	11.35%	9.56%	-	-
Target 2045 Benchmark	11.55%	9.61%	-	-
Target 2050 Trust	11.41%	9.52%	-	-
Target 2050 Benchmark	11.55%	9.61%	-	-
Target 2055 Trust	11.37%	9.47%	-	-
Target 2055 Benchmark	11.55%	9.61%	-	-
US Real Estate Inv Trust	13.11%	27.62%	-	-
US Select REIT Index	13.22%	30.14%	-	-
Alaska Money Market Trust	0.08%	0.33%	1.64%	2.55%
Citigroup 90-day T-Bill	0.04%	0.12%	1.01%	2.00%
SSgA Treas Mny Mkt	0.01%	0.02%	-	-
Citigroup 90-day T-Bill	0.04%	0.12%	1.01%	2.00%

Alaska Retirement Management Board

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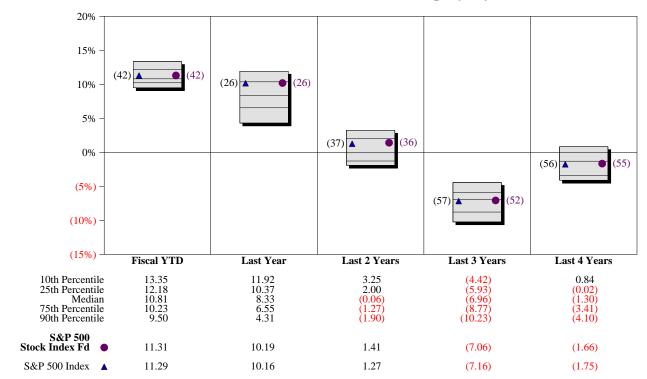
# S&P 500 STOCK INDEX FD PERIOD ENDED SEPTEMBER 30, 2010

# **Investment Philosophy**

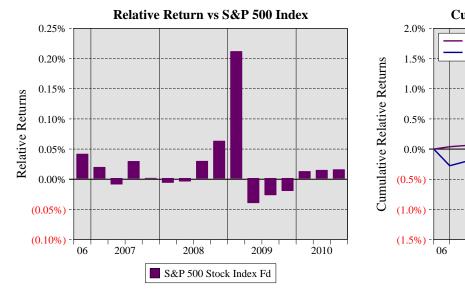
State Street believes that their passive investment strategy can provide market-like returns with minimal transaction costs.

# **Quarterly Summary and Highlights**

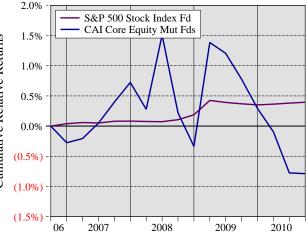
- S&P 500 Stock Index Fd's portfolio posted a 11.31% return for the quarter placing it in the 42 percentile of the CAI MF Core Equity Style group for the quarter and in the 26 percentile for the last year.
- S&P 500 Stock Index Fd's portfolio outperformed the S&P 500 Index by 0.02% for the quarter and outperformed the S&P 500 Index for the year by 0.03%.



# Performance vs CAI MF - Core Equity Style (Net)



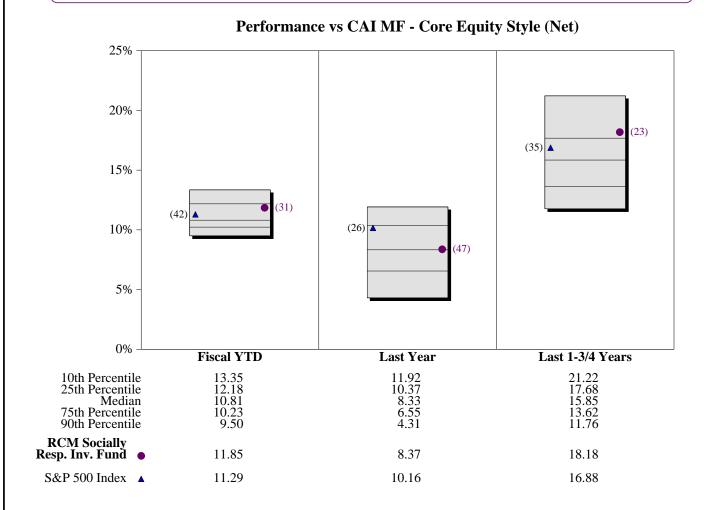
#### Cumulative Returns vs S&P 500 Index

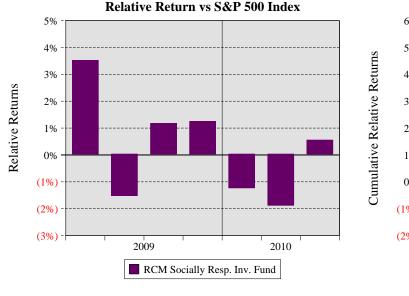


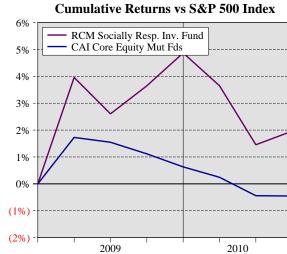
# RCM SOCIALLY RESP. INV. FUND PERIOD ENDED SEPTEMBER 30, 2010

#### **Quarterly Summary and Highlights**

- RCM Socially Resp. Inv. Fund's portfolio posted a 11.85% return for the quarter placing it in the 31 percentile of the CAI MF Core Equity Style group for the quarter and in the 47 percentile for the last year.
- RCM Socially Resp. Inv. Fund's portfolio outperformed the S&P 500 Index by 0.56% for the quarter and underperformed the S&P 500 Index for the year by 1.79%.







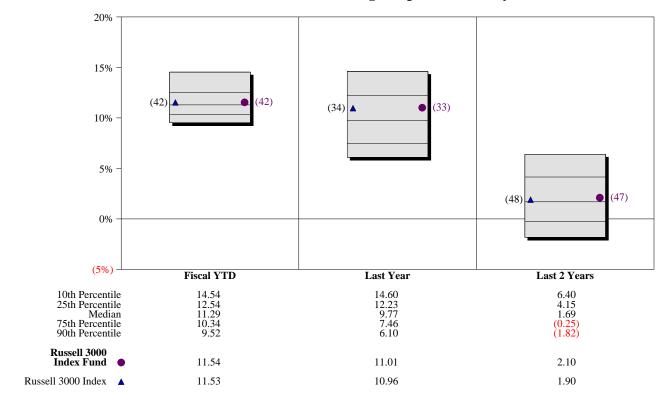
# RUSSELL 3000 INDEX FUND PERIOD ENDED SEPTEMBER 30, 2010

# **Investment Philosophy**

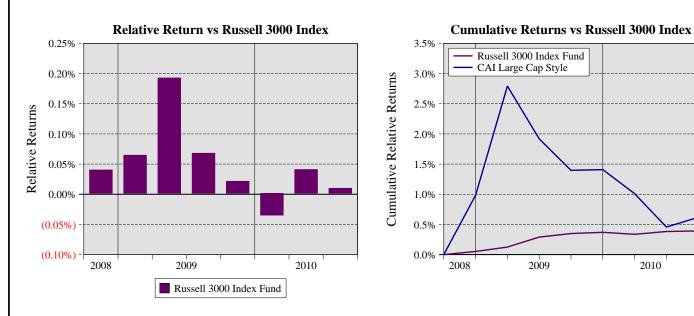
The Russell 3000 Index Strategy seeks to replicate the returns and characteristics of the Russell 3000 Index. .

#### **Quarterly Summary and Highlights**

- Russell 3000 Index Fund's portfolio posted a 11.54% return for the quarter placing it in the 42 percentile of the CAI Large Capitalization Style group for the quarter and in the 33 percentile for the last year.
- Russell 3000 Index Fund's portfolio outperformed the Russell 3000 Index by 0.01% for the quarter and outperformed the Russell 3000 Index for the year by 0.05%.



# Performance vs CAI Large Capitalization Style (Gross)



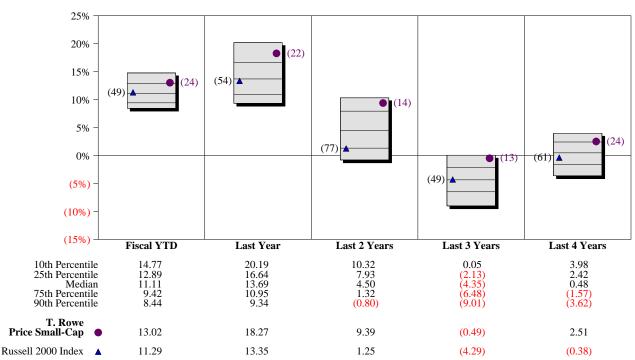
# T. ROWE PRICE SMALL-CAP PERIOD ENDED SEPTEMBER 30, 2010

## **Investment Philosophy**

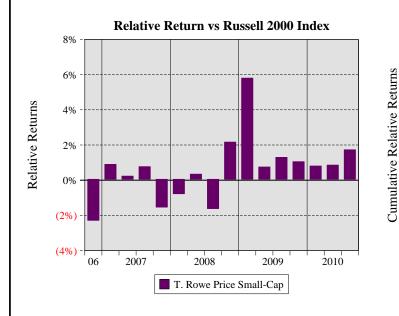
T. Rowe Price believes that opportunistically blending small-cap value and growth stocks to capitalize on valuation anomalies will produce superior and consistent returns. They also believe that a broadly diversified portfolio can achieve those returns with below-market volatility.

# **Quarterly Summary and Highlights**

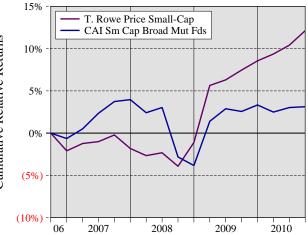
- T. Rowe Price Small-Cap's portfolio posted a 13.02% return for the quarter placing it in the 24 percentile of the CAI MF Small Cap Broad Style group for the quarter and in the 22 percentile for the last year.
- T. Rowe Price Small-Cap's portfolio outperformed the Russell 2000 Index by 1.73% for the quarter and outperformed the Russell 2000 Index for the year by 4.92%.



# Performance vs CAI MF - Small Cap Broad Style (Net)



#### **Cumulative Returns vs Russell 2000 Index**



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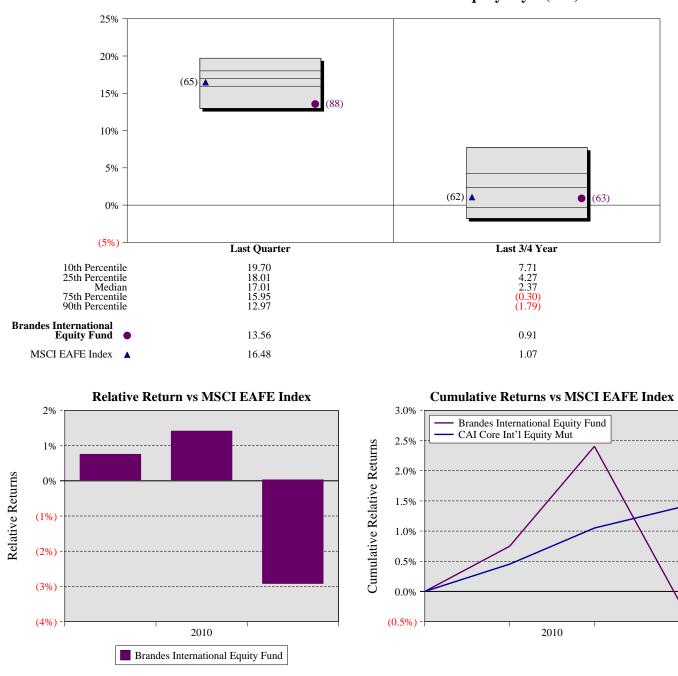
# **BRANDES INTERNATIONAL EQUITY FUND PERIOD ENDED SEPTEMBER 30, 2010**

#### **Investment Philosophy**

Brandes employs a bottom-up approach to building international equity portfolios. The firm utilizes fundamental research to select undervalued companies in the developed and emerging markets.

# **Quarterly Summary and Highlights**

- Brandes International Equity Fund's portfolio posted a 13.56% return for the quarter placing it in the 88 percentile of the CAI MF Intl Core Equity Style group for the quarter and in the 63 percentile for the last three-quarter year.
- Brandes International Equity Fund's portfolio underperformed the MSCI EAFE Index by 2.92% for the quarter and underperformed the MSCI EAFE Index for the three-quarter year by 0.16%.

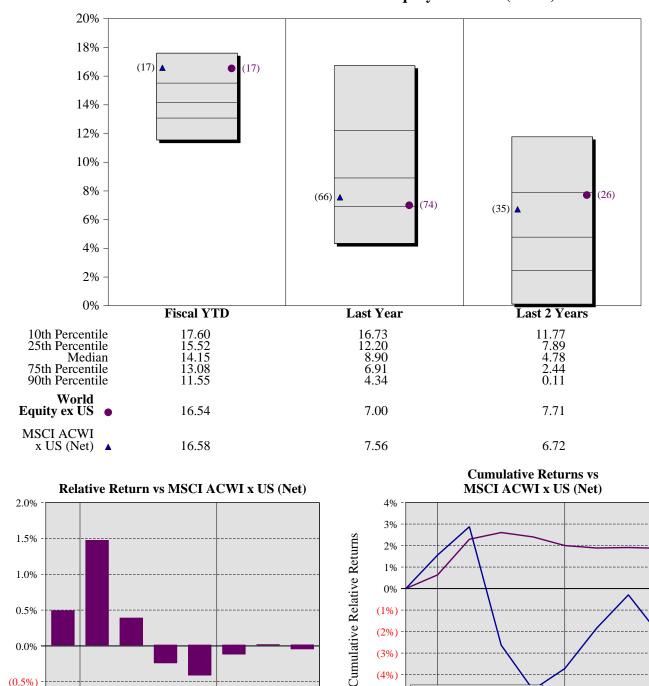


## Performance vs CAI MF - Intl Core Equity Style (Net)

# WORLD EQUITY EX US **PERIOD ENDED SEPTEMBER 30, 2010**

# **Quarterly Summary and Highlights**

- World Equity ex US's portfolio posted a 16.54% return for the quarter placing it in the 17 percentile of the CAI Global Equity Database group for the quarter and in the 74 percentile for the last year.
- World Equity ex US's portfolio underperformed the MSCI ACWI x US (Net) by 0.04% for the quarter and . underperformed the MSCI ACWI x US (Net) for the year by 0.56%.



(2%)

(3%) (4%)

(5%)

(6%)

2008

World Equity ex US

CAI Global Equity DB

2009

# Performance vs CAI Global Equity Database (Gross)

Alaska Retirement Management Board

2008

2009

World Equity ex US

2010

**Relative Returns** 

0.0%

(0.5%)

(1.0%) -

2010

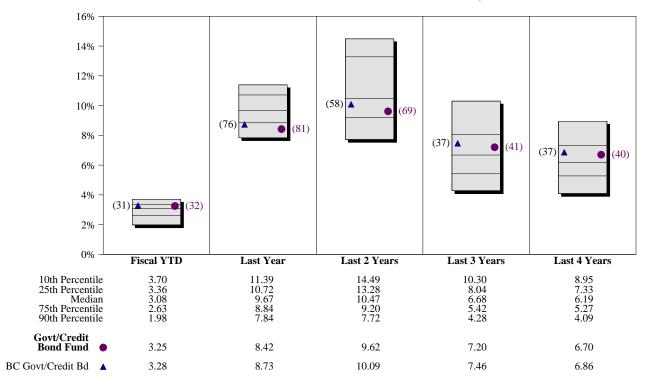
# GOVT/CREDIT BOND FUND PERIOD ENDED SEPTEMBER 30, 2010

# **Investment Philosophy**

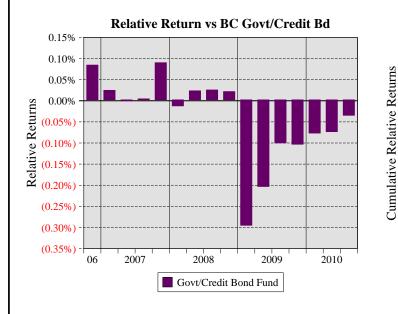
The objective of the Government/Credit Bond Index Fund is to track the performance of its Benchmark, the BC Govt/Credit Bond Index.

# **Quarterly Summary and Highlights**

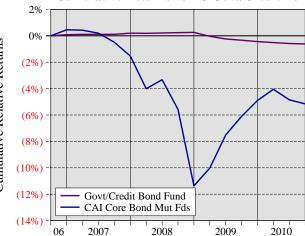
- Govt/Credit Bond Fund's portfolio posted a 3.25% return for the quarter placing it in the 32 percentile of the CAI MF Core Bond Style group for the quarter and in the 81 percentile for the last year.
- Govt/Credit Bond Fund's portfolio underperformed the BC Govt/Credit Bd by 0.03% for the quarter and underperformed the BC Govt/Credit Bd for the year by 0.31%.



Performance vs CAI MF - Core Bond Style (Net)



#### Cumulative Returns vs BC Govt/Credit Bd

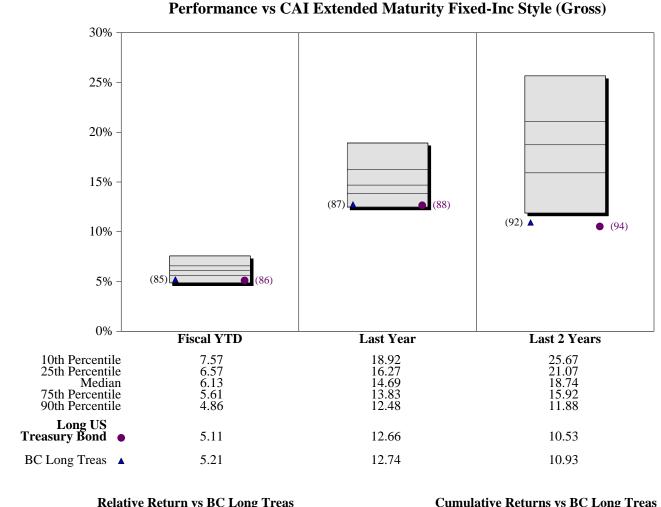


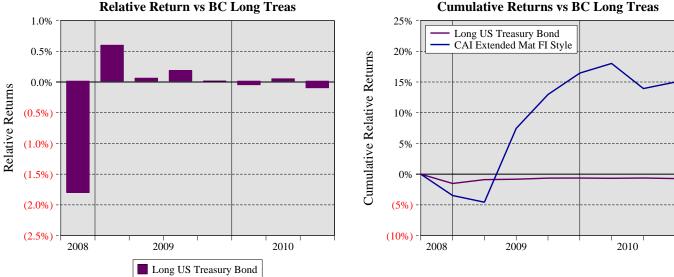
Alaska Retirement Management Board

# LONG US TREASURY BOND PERIOD ENDED SEPTEMBER 30, 2010

# **Quarterly Summary and Highlights**

- Long US Treasury Bond's portfolio posted a 5.11% return for the quarter placing it in the 86 percentile of the CAI Extended Maturity Fixed-Inc Style group for the quarter and in the 88 percentile for the last year.
- Long US Treasury Bond's portfolio underperformed the BC Long Treas by 0.10% for the quarter and underperformed the BC Long Treas for the year by 0.08%.





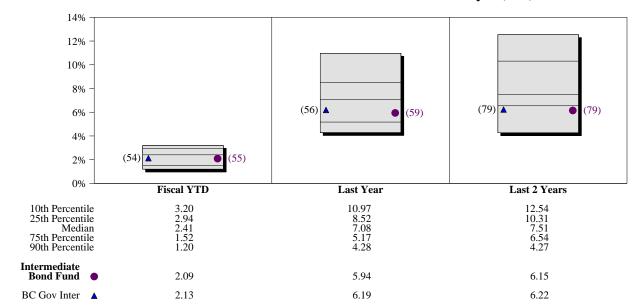
# INTERMEDIATE BOND FUND PERIOD ENDED SEPTEMBER 30, 2010

# **Investment Philosophy**

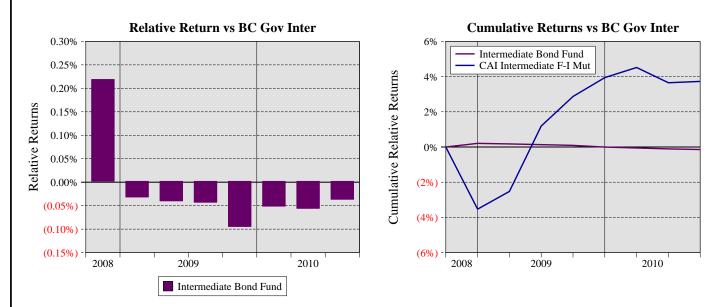
The objective of the Intermediate Government/Credit Bond Index Fund is to track the performance of its benchmark, the Barclays Capital Intermediate Government/Credit Bond Index. The fund provides institutional investors a high quality, cost-effective, index-based solution to their bond investment needs. Our proprietary databases amass a wealth of real-time data each day, providing us with an unmatched ability to efficiently execute market transactions. Additionally, we leverage our size and trading volume to minimize or eliminate transaction costs for our clients. These competitive advantages enable us to deliver superior investment performance to our clients with efficiency and consistency that is unsurpassed.

## **Quarterly Summary and Highlights**

- Intermediate Bond Fund's portfolio posted a 2.09% return for the quarter placing it in the 55 percentile of the CAI MF Intermediate Style group for the quarter and in the 59 percentile for the last year.
- Intermediate Bond Fund's portfolio underperformed the BC Gov Inter by 0.04% for the quarter and underperformed the BC Gov Inter for the year by 0.25%.



#### Performance vs CAI MF - Intermediate Style (Net)



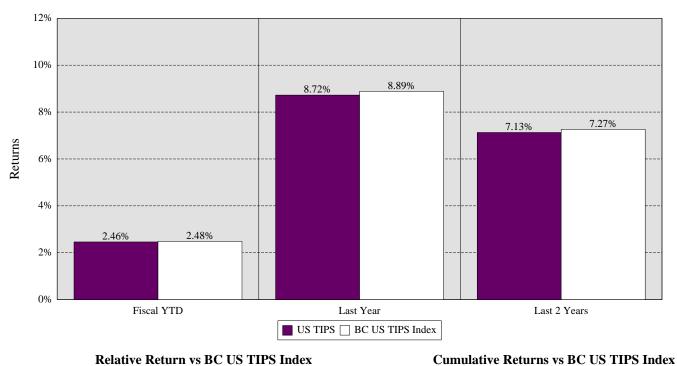
## US TIPS PERIOD ENDED SEPTEMBER 30, 2010

#### **Investment Philosophy**

The Passive Treasury Inflation Protected Securities Strategy seeks to match the total rate of return of the BC Inflation Notes Index by investing in a portfolio of US Treasury inflation protected securities. It is managed duration neutral to the Index at all times. Overall sector and security weightings are also matched to the Index. The strategy is one of full replication, owning a market-value weight of each security in the benchmark.

#### **Quarterly Summary and Highlights**

• US TIPS's portfolio underperformed the BC US TIPS Index by 0.02% for the quarter and underperformed the BC US TIPS Index for the year by 0.16%.

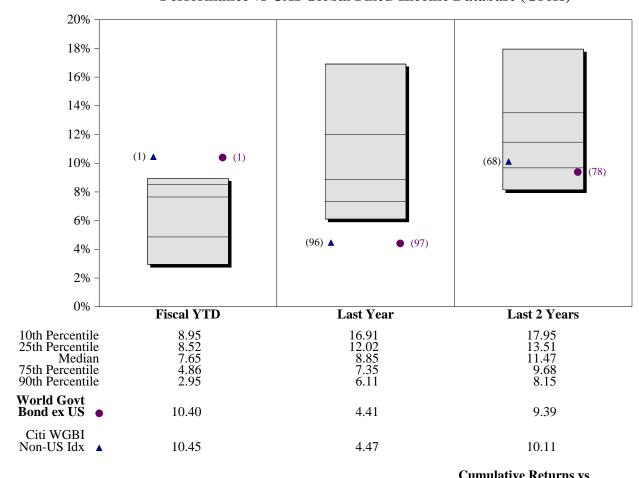




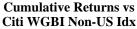
# WORLD GOVT BOND EX US PERIOD ENDED SEPTEMBER 30, 2010

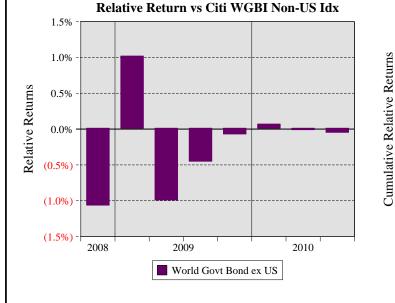
# **Quarterly Summary and Highlights**

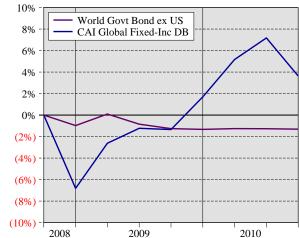
- World Govt Bond ex US's portfolio posted a 10.40% return for the quarter placing it in the 1 percentile of the CAI Global Fixed-Income Database group for the quarter and in the 97 percentile for the last year.
- World Govt Bond ex US's portfolio underperformed the Citi WGBI Non-US Idx by 0.05% for the quarter and underperformed the Citi WGBI Non-US Idx for the year by 0.05%.



# Performance vs CAI Global Fixed-Income Database (Gross)





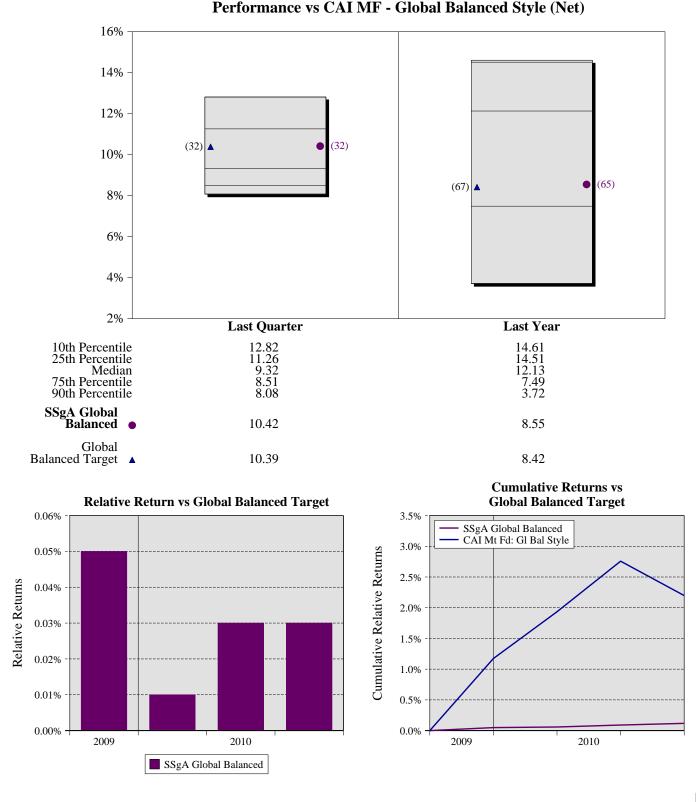


#### Alaska Retirement Management Board

#### SSGA GLOBAL BALANCED PERIOD ENDED SEPTEMBER 30, 2010

#### **Quarterly Summary and Highlights**

- SSgA Global Balanced's portfolio posted a 10.42% return for the quarter placing it in the 32 percentile of the CAI MF Global Balanced Style group for the quarter and in the 65 percentile for the last year.
- SSgA Global Balanced's portfolio outperformed the Global Balanced Target by 0.03% for the quarter and outperformed the Global Balanced Target for the year by 0.13%.





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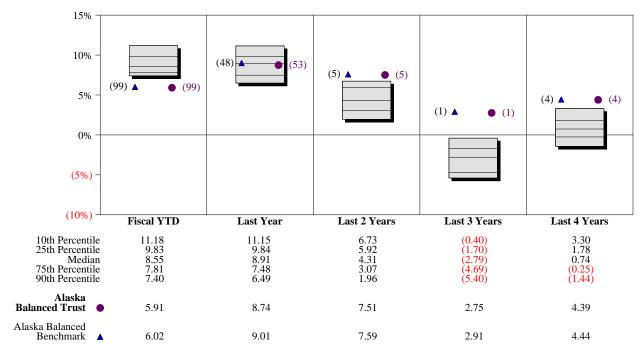
# ALASKA BALANCED TRUST PERIOD ENDED SEPTEMBER 30, 2010

# **Investment Philosophy**

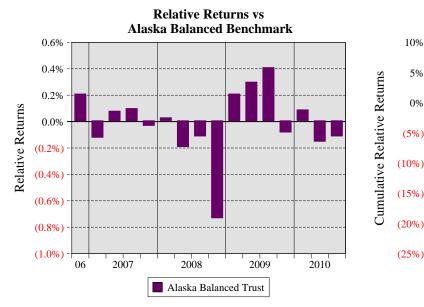
T. Rowe Price Associates, Inc believes that investing in a well-diversified portfolio of equity securities, balanced with the income and principal stability of bonds and other fixed income securities, will offer a generally stable investment vehicle that provides the capital growth adequate to offset the erosive effects of inflation. Benchmark: 60.5% BC Aggegate Bond, 29.2% Russell 3000, 7.3% MSCI EAFE and 3.0% TBIL.

# **Quarterly Summary and Highlights**

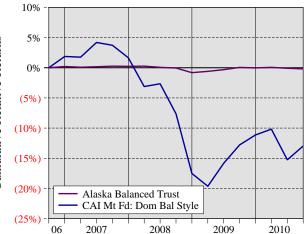
- Alaska Balanced Trust's portfolio posted a 5.91% return for the quarter placing it in the 99 percentile of the CAI MF Domestic Balanced Style group for the quarter and in the 53 percentile for the last year.
- Alaska Balanced Trust's portfolio underperformed the Alaska Balanced Benchmark by 0.11% for the quarter and underperformed the Alaska Balanced Benchmark for the year by 0.27%.



# Performance vs CAI MF - Domestic Balanced Style (Net)



#### Cumulative Returns vs Alaska Balanced Benchmark



Alaska Retirement Management Board

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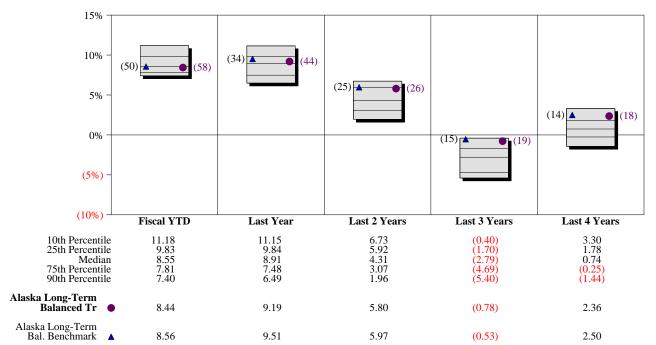
# ALASKA LONG-TERM BALANCED TR PERIOD ENDED SEPTEMBER 30, 2010

# **Investment Philosophy**

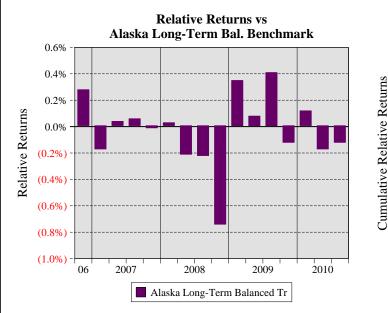
T. Rowe Price Associates, Inc believes that investing in a well-diversified portfolio of equity securities, balanced with the income and principal stability of bonds and other fixed income securities, will offer a generally stable investment vehicle that provides the capital growth adequate to offset the erosive effects of inflation. Benchmark: 36.5% BC Aggegate Bond, 49.2% Russell 3000, 12.3% MSCI EAFE and 2.0% TBIL.

# **Quarterly Summary and Highlights**

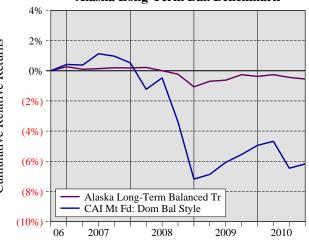
- Alaska Long-Term Balanced Tr's portfolio posted a 8.44% return for the quarter placing it in the 58 percentile of the CAI MF Domestic Balanced Style group for the quarter and in the 44 percentile for the last year.
- Alaska Long-Term Balanced Tr's portfolio underperformed the Alaska Long-Term Bal. Benchmark by 0.12% for the quarter and underperformed the Alaska Long-Term Bal. Benchmark for the year by 0.32%.



## Performance vs CAI MF - Domestic Balanced Style (Net)



Cumulative Returns vs Alaska Long-Term Bal. Benchmark



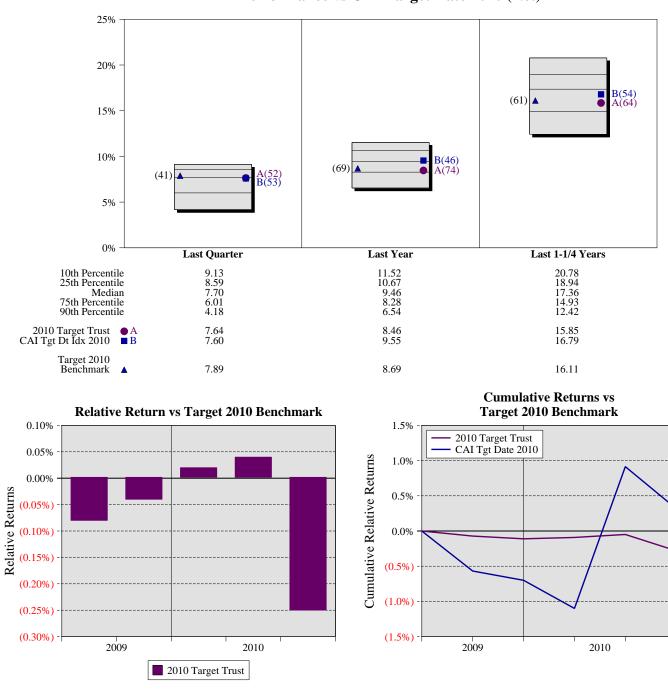
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## **Investment Philosophy**

The fund is designed to gradually invest more conservatively, with an emphasis on capital preservation, as the year 2010 approaches. Benchmark: 35.0% BC Aggegate Bond, 44.5% Russell 3000, 11.0% MSCI EAFE and 9.5% TBIL.

# **Quarterly Summary and Highlights**

- 2010 Target Trust's portfolio posted a 7.64% return for the quarter placing it in the 52 percentile of the CAI Target Date 2010 group for the quarter and in the 74 percentile for the last year.
- 2010 Target Trust's portfolio underperformed the Target 2010 Benchmark by 0.25% for the quarter and underperformed the Target 2010 Benchmark for the year by 0.23%.



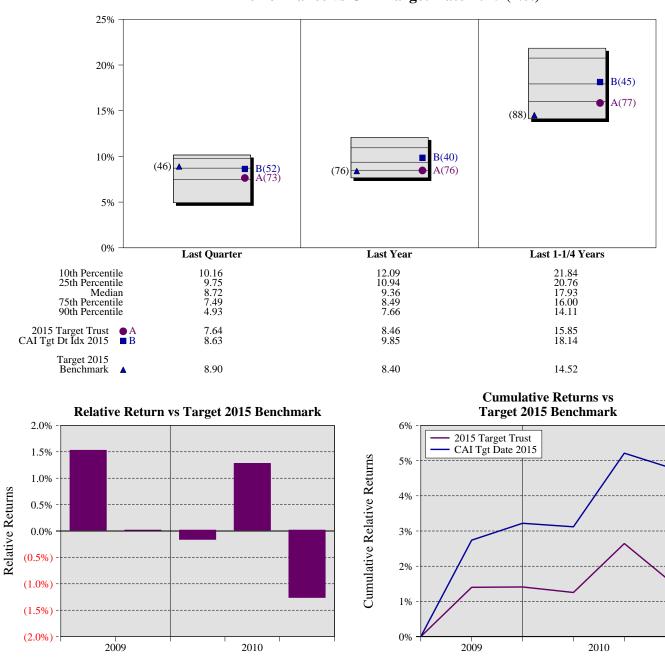
Performance vs CAI Target Date 2010 (Net)

#### **Investment Philosophy**

The Trust is designed to gradually invest more conservatively, with an emphasis on capital preservation, as the year 2015 approaches. Benchmark: 30.0% BC Aggegate Bond, 51.5% Russell 3000, 13.0% MSCI EAFE and 5.5% TBIL.

# **Quarterly Summary and Highlights**

- 2015 Target Trust's portfolio posted a 7.64% return for the quarter placing it in the 73 percentile of the CAI Target Date 2015 group for the quarter and in the 76 percentile for the last year.
- 2015 Target Trust's portfolio underperformed the Target 2015 Benchmark by 1.26% for the quarter and outperformed the Target 2015 Benchmark for the year by 0.06%.



Performance vs CAI Target Date 2015 (Net)

2015 Target Trust

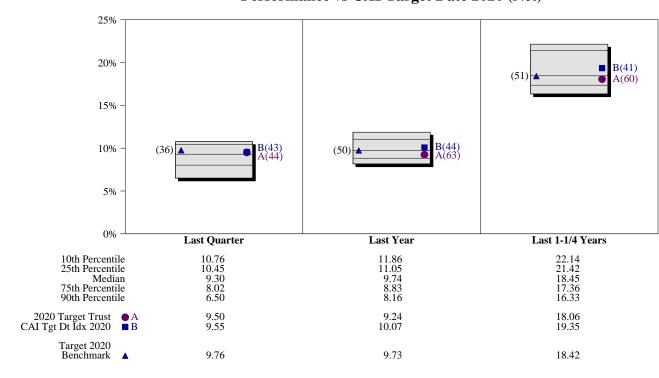
CA

#### **Investment Philosophy**

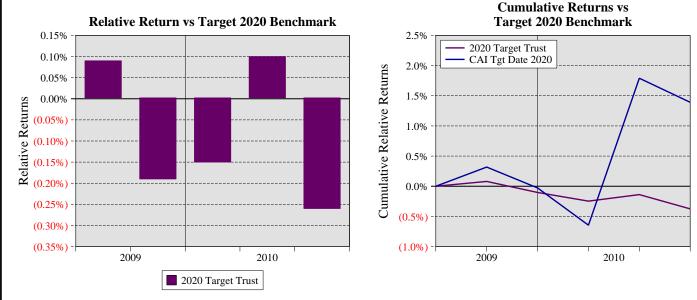
To provide exposure to a diversified mix of stocks, bonds and money market securities for long term investors with a higher tolerance for risk. The Trust is designed to gradually invest more conservatively, as the year 2020 approaches. Benchmark: 25.0% BC Aggegate Bond, 58.0% Russell 3000, 14.5% MSCI EAFE and 2.5% TBIL.

#### **Quarterly Summary and Highlights**

- 2020 Target Trust's portfolio posted a 9.50% return for the quarter placing it in the 44 percentile of the CAI Target Date 2020 group for the quarter and in the 63 percentile for the last year.
- 2020 Target Trust's portfolio underperformed the Target 2020 Benchmark by 0.26% for the quarter and underperformed the Target 2020 Benchmark for the year by 0.50%.



Performance vs CAI Target Date 2020 (Net)

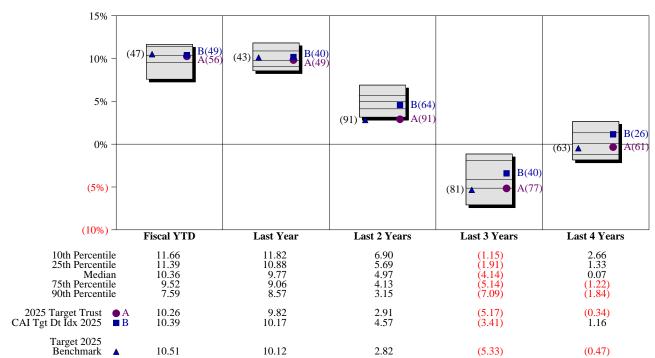


#### **Investment Philosophy**

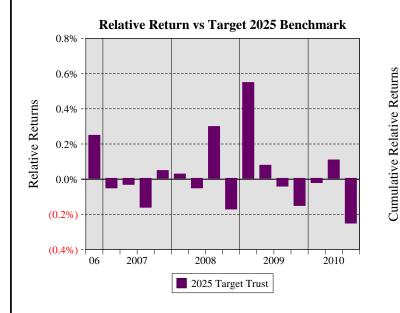
To provide exposure to a diversified mix of stocks, bonds and money market securities for long term investors with a higher tolerance for risk. The Trust is designed to gradually invest more conservatively, as the year 2025 approaches. Benchmark: 20.0% BC Aggegate Bond, 63.5% Russell 3000, 16.0% MSCI EAFE and 0.5% TBIL.

#### **Quarterly Summary and Highlights**

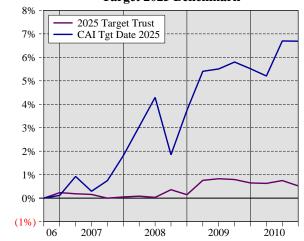
- 2025 Target Trust's portfolio posted a 10.26% return for the quarter placing it in the 56 percentile of the CAI Target Date 2025 group for the quarter and in the 49 percentile for the last year.
- 2025 Target Trust's portfolio underperformed the Target 2025 Benchmark by 0.25% for the quarter and underperformed the Target 2025 Benchmark for the year by 0.30%.



# Performance vs CAI Target Date 2025 (Net)



#### Cumulative Returns vs Target 2025 Benchmark



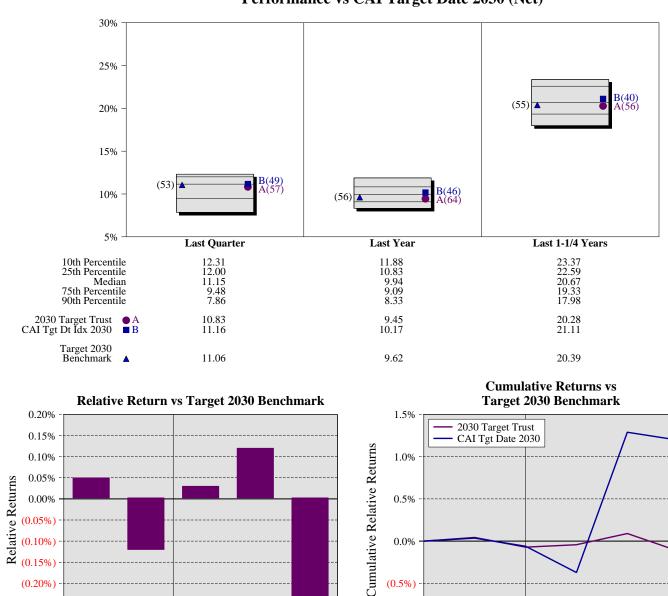
C/A

#### **Investment Philosophy**

To provide exposure to a diversified mix of stocks, bonds and money market securities for long term investors with a higher tolerance for risk. The Trust is designed to gradually invest more conservatively, as the year 2030 approaches. Benchmark: 15.0% BC Aggegate Bond, 68.0% Russell 3000 and 17.0% MSCI EAFE.

#### **Quarterly Summary and Highlights**

- 2030 Target Trust's portfolio posted a 10.83% return for the quarter placing it in the 57 percentile of the CAI Target Date 2030 group for the quarter and in the 64 percentile for the last year.
- 2030 Target Trust's portfolio underperformed the Target 2030 Benchmark by 0.23% for the quarter and underperformed the Target 2030 Benchmark for the year by 0.18%.



(1.0%) -

2009

2010

Performance vs CAI Target Date 2030 (Net)



2009

2010

2030 Target Trust

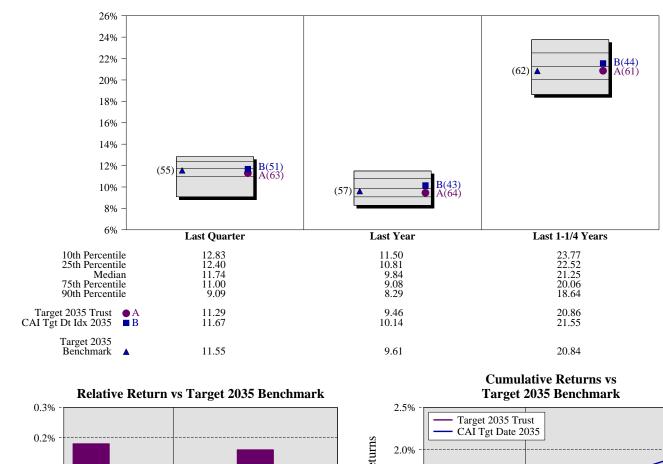
(0.25%) -(0.30%) -

#### **Investment Philosophy**

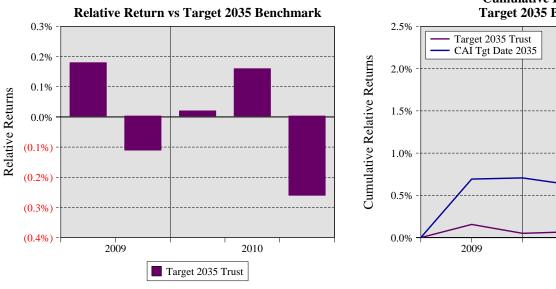
To provide exposure to a diversified mix of stocks, bonds and money market securities for long term investors with a higher tolerance for risk. The Trust is designed to gradually invest more conservatively, as the year 2035 approaches. Benchmark: 10.0% BC Aggegate Bond, 72.0% Russell 3000 and 18.0% MSCI EAFE.

# **Quarterly Summary and Highlights**

- Target 2035 Trust's portfolio posted a 11.29% return for the quarter placing it in the 63 percentile of the CAI Target Date 2035 group for the quarter and in the 64 percentile for the last year.
- Target 2035 Trust's portfolio underperformed the Target 2035 Benchmark by 0.26% for the quarter and underperformed the Target 2035 Benchmark for the year by 0.15%.



# Performance vs CAI Target Date 2035 (Net)



#### Alaska Retirement Management Board

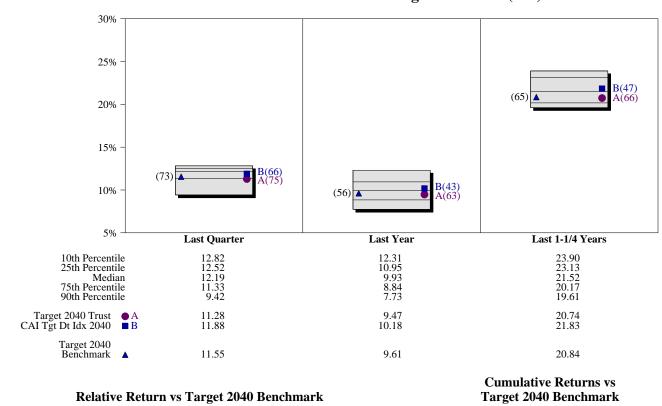
2010

#### **Investment Philosophy**

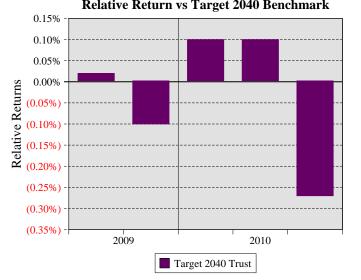
To provide exposure to a diversified mix of stocks, bonds and money market securities for long term investors with a higher tolerance for risk. The Trust is designed to gradually invest more conservatively, as the year 2040 approaches. Benchmark: 10.0% BC Aggegate Bond, 72.0% Russell 3000 and 18.0% MSCI EAFE.

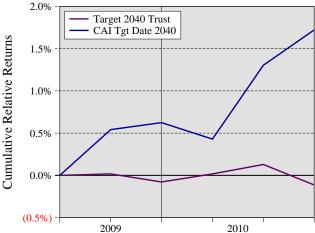
#### **Quarterly Summary and Highlights**

- Target 2040 Trust's portfolio posted a 11.28% return for the quarter placing it in the 75 percentile of the CAI Target Date 2040 group for the quarter and in the 63 percentile for the last year.
- Target 2040 Trust's portfolio underperformed the Target 2040 Benchmark by 0.27% for the quarter and underperformed the Target 2040 Benchmark for the year by 0.14%.



# Performance vs CAI Target Date 2040 (Net)





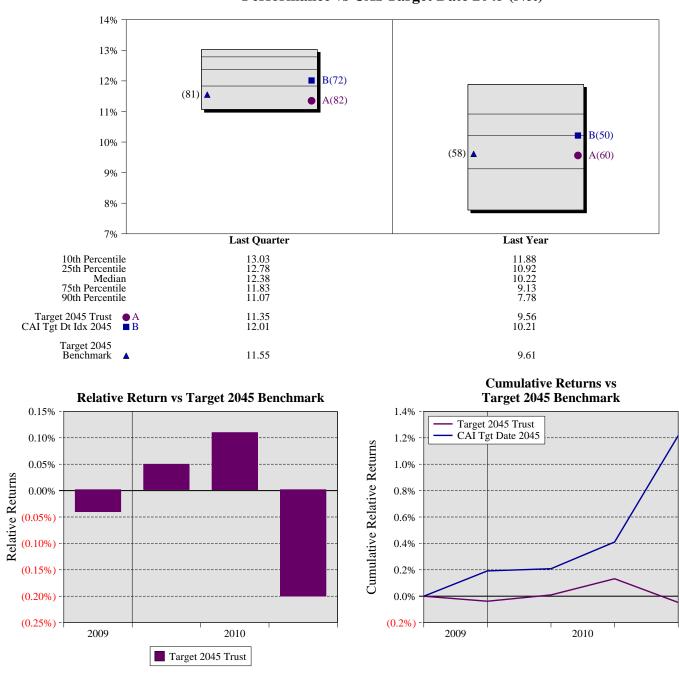
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#### **Investment Philosophy**

To provide exposure to a diversified mix of stocks, bonds and money market securities for long term investors with a higher tolerance for risk. The Trust is designed to gradually invest more conservatively, as the year 2045 approaches. Benchmark: 10.0% BC Aggegate Bond, 72.0% Russell 3000 and 18.0% MSCI EAFE.

#### **Quarterly Summary and Highlights**

- Target 2045 Trust's portfolio posted a 11.35% return for the quarter placing it in the 82 percentile of the CAI Target Date 2045 group for the quarter and in the 60 percentile for the last year.
- Target 2045 Trust's portfolio underperformed the Target 2045 Benchmark by 0.20% for the quarter and underperformed the Target 2045 Benchmark for the year by 0.05%.



#### Performance vs CAI Target Date 2045 (Net)

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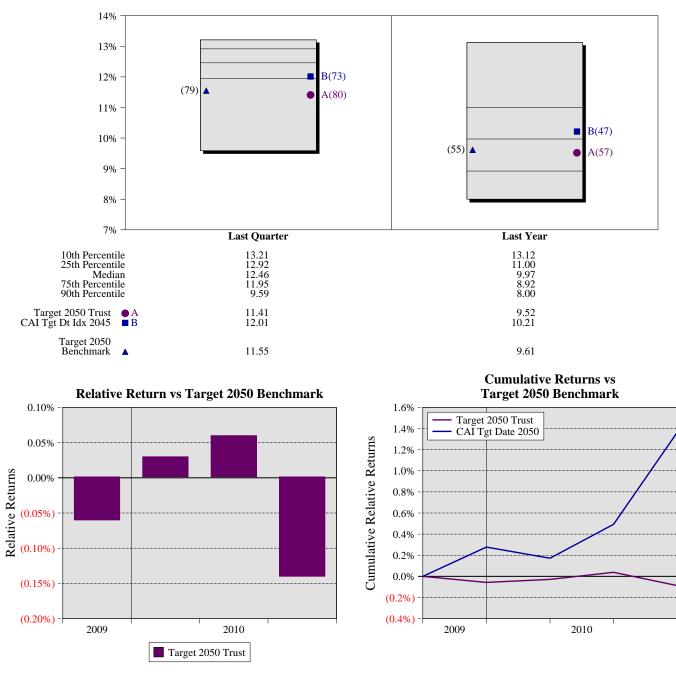
#### TARGET 2050 TRUST PERIOD ENDED SEPTEMBER 30, 2010

#### **Investment Philosophy**

To provide exposure to a diversified mix of stocks, bonds and money market securities for long term investors with a higher tolerance for risk. The Trust is designed to gradually invest more conservatively, as the year 2050 approaches. Benchmark: 10.0% BC Aggegate Bond, 72.0% Russell 3000 and 18.0% MSCI EAFE.

#### **Quarterly Summary and Highlights**

- Target 2050 Trust's portfolio posted a 11.41% return for the quarter placing it in the 80 percentile of the CAI Target Date 2050 group for the quarter and in the 57 percentile for the last year.
- Target 2050 Trust's portfolio underperformed the Target 2050 Benchmark by 0.14% for the quarter and underperformed the Target 2050 Benchmark for the year by 0.10%.



#### Performance vs CAI Target Date 2050 (Net)

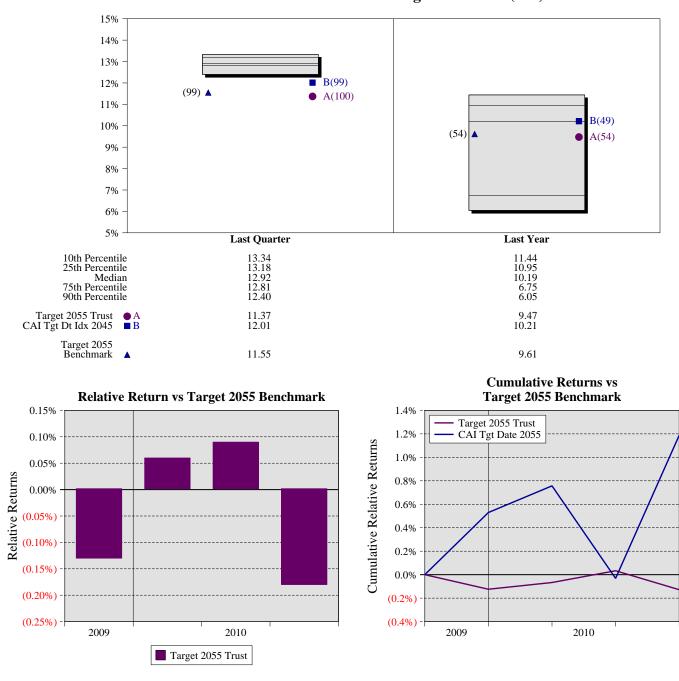
#### TARGET 2055 TRUST PERIOD ENDED SEPTEMBER 30, 2010

#### **Investment Philosophy**

To provide exposure to a diversified mix of stocks, bonds and money market securities for long term investors with a higher tolerance for risk. The Trust is designed to gradually invest more conservatively, as the year 2055 approaches. Benchmark: 10.0% BC Aggegate Bond, 72.0% Russell 3000 and 18.0% MSCI EAFE.

#### **Quarterly Summary and Highlights**

- Target 2055 Trust's portfolio posted a 11.37% return for the quarter placing it in the 100 percentile of the CAI Target Date 2055 group for the quarter and in the 54 percentile for the last year.
- Target 2055 Trust's portfolio underperformed the Target 2055 Benchmark by 0.18% for the quarter and underperformed the Target 2055 Benchmark for the year by 0.14%.

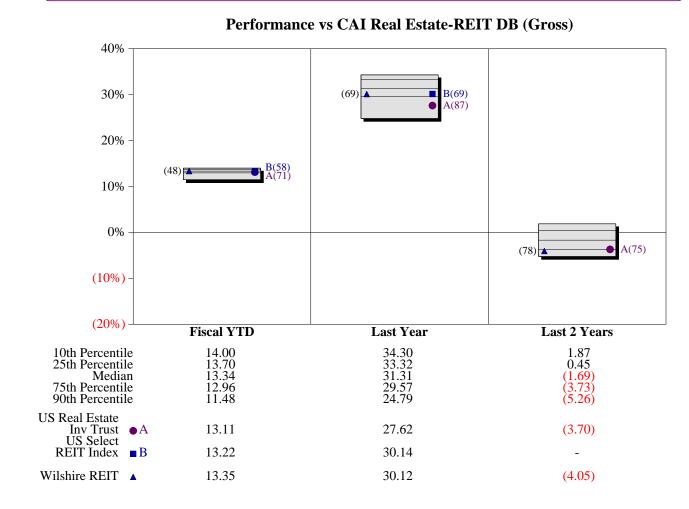


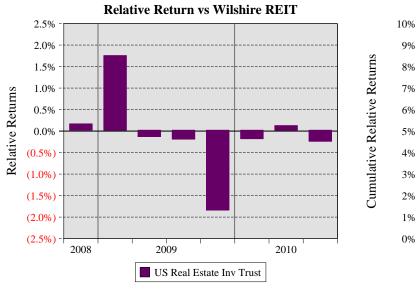
#### Performance vs CAI Target Date 2055 (Net)

#### US REAL ESTATE INV TRUST PERIOD ENDED SEPTEMBER 30, 2010

#### **Quarterly Summary and Highlights**

- US Real Estate Inv Trust's portfolio posted a 13.11% return for the quarter placing it in the 71 percentile of the CAI Real Estate-REIT DB group for the quarter and in the 87 percentile for the last year.
- US Real Estate Inv Trust's portfolio underperformed the Wilshire REIT by 0.24% for the quarter and underperformed the Wilshire REIT for the year by 2.50%.







2009

2008

2010

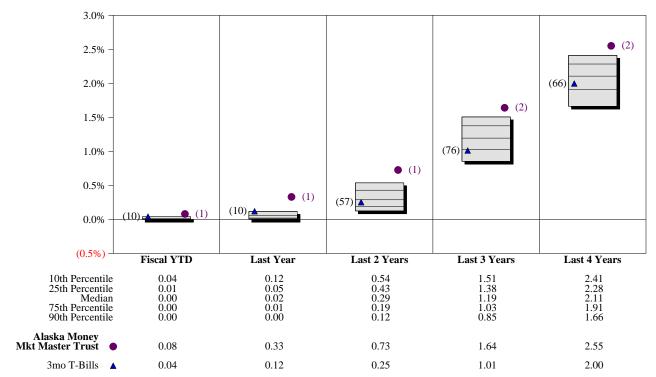
#### ALASKA MONEY MKT MASTER TRUST PERIOD ENDED SEPTEMBER 30, 2010

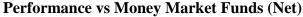
#### **Investment Philosophy**

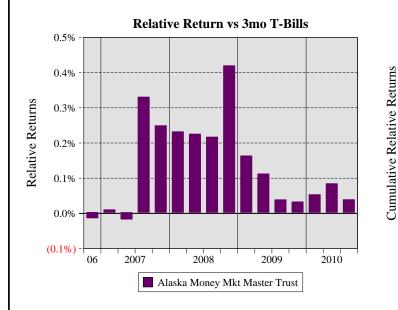
The fund is managed to maintain a stable share price of \$1.00. To achieve its objective, the fund invests in prime money market securities.

#### **Quarterly Summary and Highlights**

- Alaska Money Mkt Master Trust's portfolio posted a 0.08% return for the quarter placing it in the 1 percentile of the Money Market Funds group for the quarter and in the 1 percentile for the last year.
- Alaska Money Mkt Master Trust's portfolio outperformed the 3mo T-Bills by 0.04% for the quarter and outperformed the 3mo T-Bills for the year by 0.21%.







#### **Cumulative Returns vs 3mo T-Bills**



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Callan Research/Education

Disclosures

# Alaska Retirement Management Board

Lazard Global Equity Review

December 2, 2010

John Reinsberg Deputy Chairman

Tony Dote Managing Director

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Equity securities will fluctuate in price; the value of your investment will thus fluctuate, and this may result in a loss. Securities in certain non-domestic countries may be less liquid, more volatile, and less subject to governmental supervision than in one's home market. The values of these securities may be affected by changes in currency rates, application of a country's specific tax laws, changes in government administration, and economic and monetary policy. Small- and mid-capitalization stocks may be subject to higher degrees of risk, their earnings may be less predictable, their prices more volatile, and their liquidity less than that of large-capitalization or more established companies' securities. Emerging market securities carry special risks, such as less developed or less efficient trading markets, a lack of company information, and differing auditing and legal standards. The securities markets of emerging market countries can be extremely volatile; performance can also be influenced by political, social, and economic factors affecting companies in emerging market countries.



- A. Firm Overview
- B. Executive Summary
- C. Performance Review
- D. Holdings and Characteristics
- E. Market Environment and Outlook
- F. Appendix
  - Lazard Emerging Markets Equity Portfolio
  - Lazard U.S. Small-Mid Cap Equity Portfolio



# T A B

## Lazard Asset Management

Lazard's global perspective: offices spanning the world and a history of investing prudently wherever the firm finds value.



- Company history dating back to 1848
- \$129.5 billion in assets under management<sup>1</sup>
- Over 550 employees worldwide, including more than 235 investment personnel<sup>1</sup>

1 As of 30 September 2010. Assets under management include those of Lazard Asset Management LLC (New York) and its affiliates, but do not include those of Lazard Frères Gestion (Paris) or other asset management businesses of Lazard Ltd.



**Ashish Bhutani** Chief Executive Officer, LAM LLC

**Charles Carroll** Deputy Chairman Global Marketing

Andrew Lacey Deputy Chairman U.S./Global Strategies

### John Reinsberg

Deputy Chairman International/Global Strategies

### **Oversight Committee**

Management body for the investment platform that provides:

- Oversight for investment processes and products
- Reporting line for investment professionals

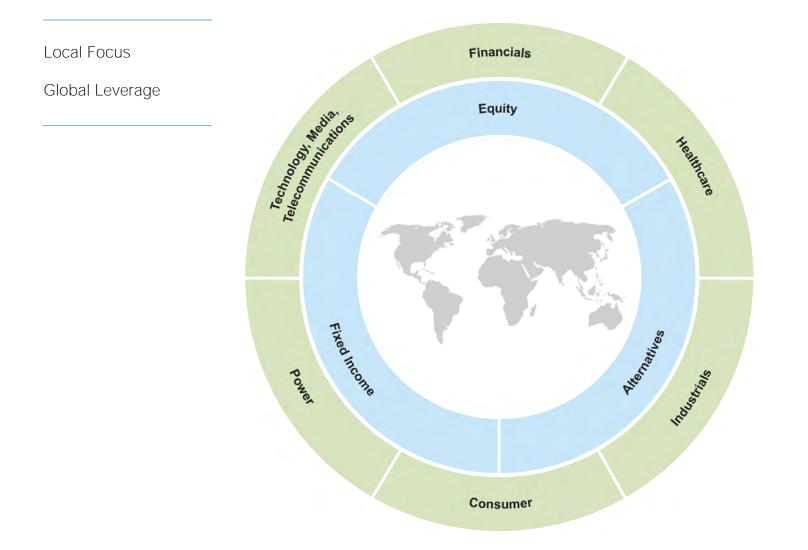
### **Investment Council**

Discussion forum for matters related to:

- Research analyst and portfolio management team interaction
- Resource allocation and staffing



## Integrated Knowledge on a Global Scale





# Global Equity Investment Resources

### **Regional Expertise**

		Multi-regional (G	ilobal / EAFE)		
Eduardo Abreu Jacov Agbaba Lee Ann Alexandrakis Nigel Barrett Michael Bennett David Bliss Nicholas Bratt Irene Cheng Bertrand Cliquet Kun Deng	James Donald <sup>2</sup> Ronald Domau Yury Dubrovsky <sup>1</sup> Laurent Douillet Beatrix Eisenblaetter Sara Fischer Michael Fry Matthew Haynes William Holzer Peter Hunsberger	Taras Ivanenko Jai Jacob Robin Jones Peter Kashanek Edward Keating Minoru Kosaka Andrew Lacey <sup>2</sup> Alex Lai Matthew Landy Mark Little	Jean-Daniel Malan Stephen Marra Kevin Matthews Paul Moghtader Andrei Morosanu Jonathan Morris John Mulquiney Andrew Norris Hubert Parzecki	Michael Per Brian Pessin Christopher Pope Michael Powers John Reinsberg Anthony Rohrlach Edward Rosenfeld Patrick Ryan Nina Saglimbeni	Craig Scholl Ulrich Schweiger Stephen Scott Jeremy Taylor Ronald Temple <sup>2</sup> Kyle Waldhauer Steve Wreford Ming Zhong
ι	J.S.	Euroj	ре	Asia-P	acific
Dmitri Batsev Frank Bianco <sup>1</sup> Christopher Blake Daniel Breslin Rhett Brown Gary Buesser Zoe Chen <sup>1</sup> Michael DeBernardis Robert Failla Martin Flood Mark Hudson Miriam Kim Andrew Lacey <sup>2</sup> Jerny Liu Bret Miller	Sritharan Nadesan <sup>1</sup> Dennis Neveling Siddharth Panjwani <sup>1</sup> Prateek Pant <sup>1</sup> David Pizzimenti Jessica Rennie Sean Reynolds <sup>1</sup> Henry (Ross) Seiden Christopher Sferruzzo <sup>1</sup> Nicholas Sordoni Ronald Temple <sup>2</sup> Richard Tutino Christopher Whitney Douglas Workman <sup>1</sup> Michael Zaremsky <sup>1</sup>	Aaron Bamfather Patricia Biggers Christian Bockris Jelena Boskovic Elias Chrysostomou Alan Clifford Nathan Cockrell Alan Custis Giles Edwards Marina Erskine-Leacock Louis Florentin-Lee	Alistair Godrich Paul Mangat Ciprian Marin Neil Millar Oliver Nothof Robert Rowland Michael White Lloyd Whitworth Jason Williams Susanne Willumsen Barnaby Wilson	Thurl Abrahams Matthew Bills Aaron Binsted Andrew II-Kweon Dong Neal Doying Timothy Griffen Phillip Hofflin Jooyon Hong Takako Hoshino Hong-Suk Kim Hiroko Kiyota	Hee-tak Ko O-Jin Kwon John Lee James McGinnis Takanobu Murakami Takayuki Natsume Rob Osbom Waryn Robertson Philippe Tison Adam Waterworth Shuichi Yoshimura
		Emerging I	Markets		
Georg Benes Rohit Chopra Elizabeth Chung	Myla Cruz James Donald <sup>2</sup> Lada Emelianova	Patrick Fu Peter Gillespie Mostafa Hassan	Mark Lien Xiaomeng (Michelle) Li Erik McKee	Kevin O'Hare iu Nicolas Rodriguez-Brizu Rahwa Senay	Monika Shrestha uela Ben Wulfsohn

As of 30 September 2010

1 Due to the nature of their activities, these individuals appear among both equity and fixed income resources.

2 Due to the nature of their responsibilities, these individuals have been assigned more than one primary regional focus.



### Global Equity Investment Resources Sector Expertise

	Financials	Health Care	
	Nigel Barrett Dmitri Batsev Daniel Breslin Elias Chrysostomou Phillip Hofflin Miriam Kim Mark Lien	Thurl Abrahams Jelena Boskovic Rhett Brown Henry (Ross) Seiden Nicholas Sordoni Barnaby Wilson	
Consumer	Xiaomeng (Michelle) Liu James McGinnis		Industrials
Aaron Binsted Christopher Blake Rohit Chopra Elizabeth Chung Nathan Cockrell Myla Cruz	Jonathan Morris Monika Shrestha Ronald Temple		Matthew Bills Michael DeBernardis Lada Emelianova Peter Gillespie Hee-tak Ko O-Jin Kwon
Marina Erskine-Leacock Jooyon Hong	Power	Technology, Media, Telecommunications	Kevin Matthews Erik McKee Andrei Morosanu
Mark Little Jerry Liu Dennis Neveling Rob Osborn Nina Saglimbeni Shuichi Yoshimura	Georg Benes Bertrand Cliquet James Donald Andrew II-Kweon Dong Alistair Godrich Peter Hunsberger Matthew Landy Neil Millar John Mulquiney	Laurent Douillet Robert Failla Patrick Fu Robin Jones Hong-Suk Kim Andrew Lacey Bret Miller Takanobu Murakami Takayuki Natsume	Andrei Morosanu David Pizzimenti Rahwa Senay Philippe Tison Adam Waterworth Michael White
	Warryn Robertson Anthony Rohrlach Patrick Ryan Ben Wulfsohn	Kevin O'Hare Nicolas Rodriguez-Brizuela Jeremy Taylor Christopher Whitney	

C LAZARD

# Global Fixed Income Investment Resources

### **Regional Expertise**

Global

Konstantin Boehmer Colin Cavasina David Cleary Jared Daniels Yury Dubrovsky<sup>1</sup> Yvette Klevan Prateek Pant<sup>1</sup> Christopher Ratti

### U.S.

Roderick Abad Frank Bianco<sup>1</sup> J. William Charlton Jeffrey Clarke David Dicker Thomas Dzwil Oliver Gilbert George Grimbilas Eve Lando Thomas Miller Taylor Moseley Sritharan Nadesan<sup>1</sup> Stephanie Osterhus Siddharth Panjwani<sup>1</sup> Eulogio Ramos Sean Reynolds<sup>1</sup> John Senesac Christopher Sferruzzo<sup>1</sup> Douglas Workman<sup>1</sup> Michael Zaremsky<sup>1</sup>

#### Europe

Jens Anderson Patrick Burkart Cem Cayci Benjamin Dietrich Thomas Hanson Frank Christian Hofmann Holger Keil Arnaud Lerond Holger Mertens Roland Mueller Richard Schmidt Jan-Hendrik Schopen Markus van de Weyer Carsten Vennemann

#### **Emerging Markets**

Ardra Belitz Zoe Chen<sup>1</sup> Arif Joshi Aristotel Kondili Steven Nelson Andrew Raab Ganesh Ramachandran Denise Simon George Varino

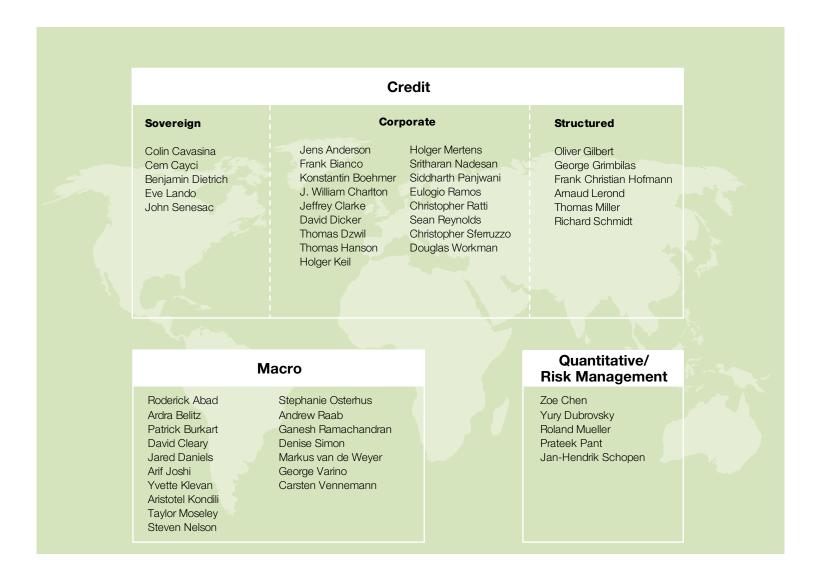
As of 30 September 2010

1 Due to the nature of their activities, these individuals appear among both equity and fixed income resources.



# Global Fixed Income Investment Resources

### Sector Expertise



As of 30 September 2010



## Investment Philosophy, Goals, and Process

Lazard's investment process for research and portfolio construction is presented here as sequential steps; in practice the process is neither static, nor sequential, but ongoing.

### **Our Investment Philosophy**

- Focus on those companies that are financially productive and inexpensively valued
- Add Value through stock selection and portfolio management

### **Our Investment Objectives**

- Outperform relevant benchmark over a full market cycle
- Participate in rising markets; preserve capital in falling markets
- Outperform our investment competitors
- Seek consistent results



**Our Investment Process** 

Lazard's investment process is presented here in sequential steps. In practice, the process is neither static nor sequential, but ongoing.



# T A B

### Executive Summary Alaska Retirement Management Board *Revised Global Equity Parameters*

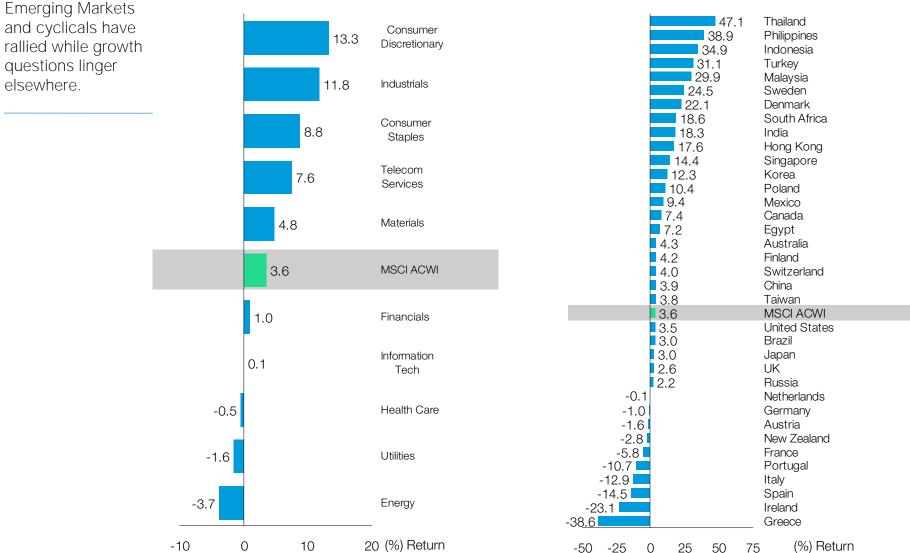
	Former	Revised
Benchmark	MSCI World Index	MSCI ACWI
Emerging Markets Equity		
Allocation Range:	0%-10% of total portfolio	0% to benchmark plus 10% (currently 23% maximum)
Allocation:	8-9% of total portfolio	19.5%
SMID Cap Equity		
Allocation Range:	0-15% of total equity	0-10% of total portfolio (Int'l Small Cap and U.S. SMID Cap)
Allocation:	5%	8.5%
Expected Return:	1-2% over Index	3% over Index
Pattern of Returns:	Defensive in down markets	Defensive in down markets
	Outpace in flat markets	Outpace in flat markets
	Participate in rising markets	Participate in rising markets

As of 30 September 2010 Expected returns do not present a promise or guarantee of future results.



# T A B

### Market Performance – YTD MSCI All Country World Index



**Country Performance:** 

### **Sector Performance:**

As of 30 September 2010

Past performance is not a reliable indicator of future results.

Source: MSCI



### Performance Summary Alaska Retirement Management Board

### Performance (%)

			_	A	nnualized (As o	f 30 September	2010)
	YTD <sup>1</sup> (31 Oct 2010)	2010Q3	YTD (30 Sept 2010)	3 Years	5 Years	10 Years	Since Inception 20 April 1993
Total Portfolio	6.1	13.7	2.8	-5.2	3.4	3.0	7.5
Custom Index <sup>2</sup>	6.3	13.8	2.6	-8.3	1.3	0.8	6.1
Excess Return (bps)	-2	-1	+2	+310	+210	+220	+140

### Portfolio Composition as of 31 October 2010

	Market Value	% of Portfolio
International Equities	\$238,821,746.45	32.1
- Lazard Emerging Markets Fund	\$144,831,702.10	19.5
U.S. Equities	\$276,955,167.77	37.2
- Lazard U.S. Small-Mid Cap Fund	\$63,328,479.25	8.5
Cash & Accrued Dividends	\$20,249,907.29	2.7
Total Portfolio	\$744,187,002.85	100.0

As of 30 September 2010

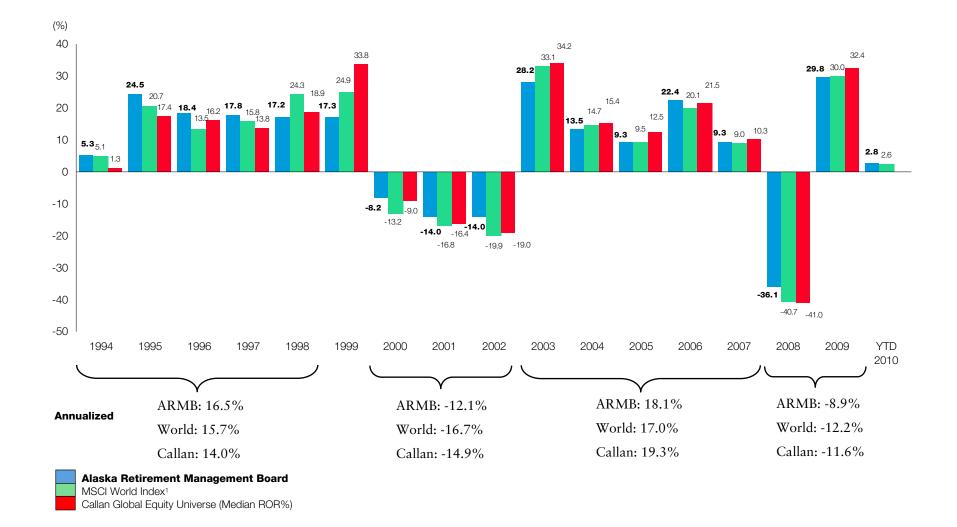
1 Preliminary performance as of 31 October 2010.

2 The Custom Index is comprised of the MSCI World Index from 4/20/93-9/30/10 and of the MSCI ACWI thereafter.

The performance quoted is gross of fees and represents past performance. Past performance is not a reliable indicator of future results.



### Pattern of Performance Alaska Retirement Management Board



As of 30 September 2010 1 MSCI World Index from 4/20/93-9/30/10 and of the MSCI ACWI thereafter. Performance is presented gross of fees. Past performance is not a reliable indicator of future results. Source: Lazard, MSCI



### What Helped/Hurt - YTD Alaska Retirement Management Board

### What Helped

**Emerging Markets** Exposure to emerging markets

**Mergers & Acquisitions** Potash and International Power benefitted from received bids

**Automobiles** 

Stock selection led by BMW and Valeo

### Energy

Stock selection including selling BP shortly following the Gulf of Mexico incident and ConocoPhillips

**Utilities** Low exposure and stock selection

### What Hurt

### Retail

Esprit Holdings was hit hard on Euro weakness, thesis delay and lack of meeting financial targets

**Financials** Stock selection (Nomura, QBE Insurance, Goldman Sachs)

### Industrials

Stock selection (A123 Systems, Raytheon, Atlantia)

**Consumer Staples** Stock selection (Walgreen, Unilever)

### Information Technology

High exposure and stock selection (Microsoft, Nintendo, Symantec, Hewlett-Packard)

As of 30 September 2010

The allocations and specific securities mentioned are based upon a portfolio that represents the proposed investment for a fully discretionary account. Allocations and security selection are subject to change. The securities mentioned are not necessarily held by Lazard for all client portfolios, and their mention should not be considered a recommendation or solicitation to purchase or sell these securities.

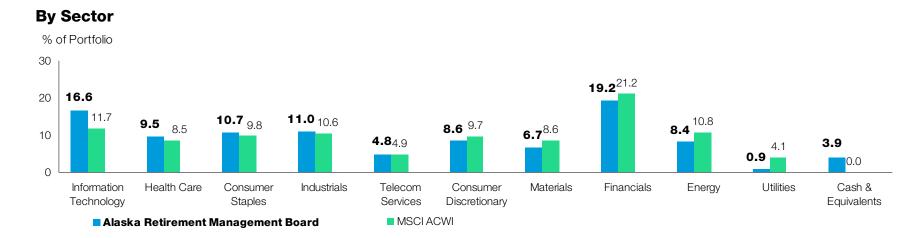
It should not be assumed that any investment in these securities was, or will prove to be, profitable, or that the investment decisions we make in the future will be profitable or equal to the investment performance of securities referenced herein. There is no assurance that any securities referenced herein are currently held in the portfolio or that securities sold have not been repurchased. The securities mentioned may not represent the entire portfolio.



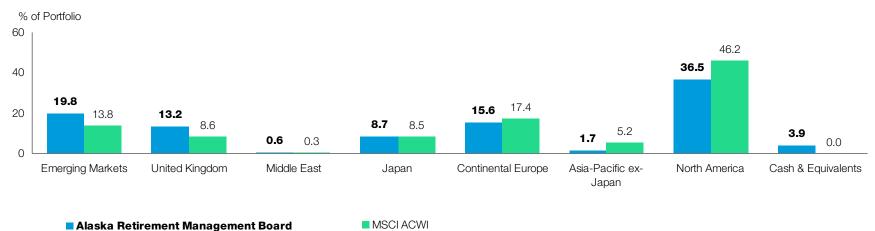
# T A B

# Weightings by Sector and Country

### Alaska Retirement Management Board



### **By Region**



As of 30 September 2010

Note: Percentage of portfolio includes allocations attributable to investments through the Lazard Emerging Markets Equity Portfolio (Inst) and the Lazard U.S. Small-Mid Cap Equity Portfolio (Inst).

Allocations and security selection are subject to change. The information provided in this material should not be considered a recommendation to purchase or sell any security. Source: Lazard, MSCI



### Portfolio Direction Alaska Retirement Management Board

	31 Dec 08 (%)	31 Dec 09 (%)	30 Sep 10 (%)	Change 31 Dec 09 – 30 Sep 10 (%)
Information Technology	3.1	2.9	5.5	2.6
Materials	-3.4	-4.0	-1.7	2.3
Consumer Staples	4.4	0.5	1.3	0.8
Utilities	-0.5	-3.8	-3.2	0.6
Telecom Services	2.4	-0.4	0.0	0.4
Energy	0.3	-1.7	-2.0	-0.3
Financials	-6.7	-0.3	-1.2	-0.9
Consumer Discretionary	-3.4	0.3	-0.8	-1.1
Industrials	0.0	2.3	0.8	-1.5
Health Care	3.7	4.3	1.4	-2.9

As of 30 September 2010

Note: Percentage weights includes allocations attributable to investments through the Lazard Emerging Markets Equity Portfolio (Inst) and the Lazard U.S. Small-Mid Cap Equity Portfolio (Inst).

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### Holdings by Sector Alaska Retirement Management Board

<b>% of</b>	% of MSCI	% of %			% of %	% of MSCI	% of <sup>0</sup>	% of MSCI		<b>% of</b> %	
Portfolio	ACWI	Portfolio	ACWI	Po	rtfolio	ACWI	Portfolio	ACWI		Portfolio	ACWI
Consumer Discretionary 8.6 Asics BMW Benesse Holdings Comcast Special Esprit Holdings Honda Motor Informa Mattel McDonalds Newell Rubbermaid TJX Companies	9.7	Fortunit       Energy     8.4       Aker Solutions       AMEC       Apache       BG       Chevron       ConocoPhillips       EOG Resources       Halliburton       Royal Dutch Shell       Technip       Total       Tullow Oil	10.7	Health Care Amgen CareFusion GlaxoSmithKline Johnson & Johnso Life Technologies Merck Novartis Novo Nordisk Pfizer Roche Holdings Sanofi-Aventis Teva Pharmaceuti	<b>9.5</b>	8.5	Information Technology 16.6 Amadeus IT Holding Apple Canon Cisco Systems eAccess EMC Google Hoya Intel IBM	11.7	Materials Ball BHP Billiton CRH Monsanto Potash Xstrata Telecom Services AT&T KDDI Rogers Commun	6.7 4.7	8.6
Valeo WPP Yamada Denki Consumer Staples 10.6 Anheuser-Busch InBev	9.8	Financials19.2Banco SantanderBNP ParibasCity NationalCredit SuisseDaito Trust Construction	21.2	Industries Industrials Atlantia BAE Systems British Airways Caterpillar	10.9	10.6	Keyence MasterCard Microsoft Nintendo Oracle Qualcomm SAP		Singapore Telecc Vodafone Utilities International Pow Cash & Equivalents Total Portfolio	0.8	4.1 0.0 100.0
British American Tobacco General Mills Danone Molson Coors Brewing Nestle PepsiCo Unilever Wal-Mart Stores Walgreen William Morrison Supermarke	ot	Goldman Sachs HSBC Holdings JPMorgan Chase Julius Baer Kerry Properties Keycorp New Lloyds Banking Mitsubishi Estate PNC Financial Services Prudential QBE Insurance Standard Chartered Sumitomo Mitsui Financial T. Rowe Price UBS Wells Fargo		Dover Emerson Electric Honeywell Internat Kubota Mitsubishi Nidec Parker Hannifin Prysmian Raytheon Siemens TNT United Parcel Serv United Technologi	ice		Smart Technologies Visa CI A Yahoo Japan		Lazard Mutual Fr Lazard Emerging Portfolio (Inst) Lazard U.S. Sma Portfolio (Inst)	Markets Equit	

As of 30 September 2010

Note: Percentage of portfolio includes allocations attributable to investments through the Lazard Emerging Markets Equity Portfolio (Inst) and the Lazard U.S. Small-Mid Cap Equity Portfolio (Inst), though these underlying investments are not shown.

Cash is not viewed as a strategic asset class.

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### Holdings by Country Alaska Retirement Management Board

6 of MSCI	% of %	1	% of % of MSCI	of MSCI	<b>% of</b> % c		of MSCI	<b>% of</b> %		of MSCI	% of %	
ACWI	Portfolio		Portfolio ACWI	ACWI	ortfolio	P	ACWI	ortfolio	Po	ACWI	rtfolio	Po
2.3	4.6	Brazil	United States (continued)			United	8.5	8.6	Japan	3.4	0.4	Australia
0.2	0.0	Chile	Emerson Electric	8.6	13.2	Kingdom			Asics			QBE Insurance
2.5	0.5	China	EOG Resources			AMEC		gs	Benesse Holding	0.1	0.0	Austria
0.1	0.0	Colombia	General Mills			BAE Systems			Canon	0.4	1.1	Belgium
0.1	0.0	Czech Republic	Goldman Sachs			BG		struction	Daito Trust Cons		h InBev	Anheuser-Busc
0.1	0.7	Egypt	Google			BHP Billiton			eAccess	4.4	1.6	Canada
0.1	0.2	Hungary	Halliburton			British Airways			Honda Motor			Potash
1.1	1.0	India	Honeywell International		Tobacco	British American			Hoya		unications	Rogers Commu
0.3	1.2	Indonesia	Intel			GlaxoSmithKline			KDDI		ogies	Smart Technolo
0.4	0.1	Malaysia	IBM			HSBC Holdings			Keyence	0.4	0.5	Denmark
0.6	1.4	Mexico	Johnson & Johnson			Informa			Kubota			Novo Nordisk
0.1	0.0	Peru	JPMorgan Chase		ver	International Pov			Mitsubishi	0.4	0.0	Finland
0.1	0.4	Philippines	Keycorp New			Lloyds Banking		Э	Mitsubishi Estate	4.1	4.7	France
0.2	0.0	Poland	Life Technologies			Prudential			Nidec			<b>BNP</b> Paribas
0.8	1.1	Russia	MasterCard		ell	Royal Dutch She			Nintendo			Danone
1.0	2.4	South Africa	Mattel		red	Standard Charte		ii Financial	Sumitomo Mitsui			Sanofi-Aventis
1.8	2.4	South Korea	McDonalds			Tullow Oil			Yahoo Japan			Technip
1.5	1.4	Taiwan	Merck			Unilever			Yamada Denki			Total
0.2	0.4	Thailand	Microsoft			Vodafone	1.1	0.4	Netherlands			Valeo
0.3	1.7	Turkey	Molson Coors Brewing	t	Supermarket	William Morrison			TNT	3.2	1.9	Germany
	-	Total Emerging	Monsanto			WPP	0.3	0.4	Norway			BMW
13.8	19.5	Markets	Newell Rubbermaid			Xstrata			Aker Solutions			SAP
	-	Cash &	Oracle			Visa	0.0	0.2	Pakistan			Siemens
0.0	3.9	Equivalents	Parker Hannifin	41.8	35.0	United States	0.1	0.0	Portugal	0.1	0.0	Greece
	-	Total	PepsiCo			Amgen	0.7	0.4	Singapore	1.1	0.9	Hong Kong
100.0	100.0	Portfolio	Pfizer			Apache	ions	communicati	Singapore Teleco			Esprit Holdings
	-		PNC Financial Services			Apple	1.5	1.2	Spain		S	Kerry Properties
			Qualcomm			AT&T		ding	Amadeus IT Hold	0.1	0.4	Ireland
			Raytheon			Ball		er	Banco Santande			CRH
			T. Rowe Price			CareFusion	1.3	0.2	Sweden	0.3	0.6	Israel
			TJX Companies			Caterpillar	3.1	3.9	Switzerland	Istries	eutical Indu	Teva Pharmace
			United Parcel Service			Chevron			Credit Suisse	1.1	0.8	Italy
			United Technologies			Cisco Systems			Julius Baer			Atlantia
			Visa CI A			City National			Nestle			Prysmian
			Wal-Mart Stores		al	Comcast Specia			Novartis			-
			Walgreen			ConocoPhillips			Roche Holdings			
			Wells Fargo			Dover			UBS			
						EMC						
	100.0	Portfolio	PNC Financial Services Qualcomm Raytheon T. Rowe Price TJX Companies United Parcel Service United Technologies Visa CI A Wal-Mart Stores Walgreen		1	Apple AT&T Ball CareFusion Caterpillar Chevron Cisco Systems City National Comcast Specia ConocoPhillips Dover	1.5 1.3	1.2 Iding er 0.2 3.9	Spain Amadeus IT Hold Banco Santande Sweden Switzerland Credit Suisse Julius Baer Nestle Novartis Roche Holdings	0.3 Istries	o.4 0.6 eutical Indu	Kerry Properties Ireland CRH Israel Teva Pharmaco Italy Atlantia

#### As of 30 September 2010

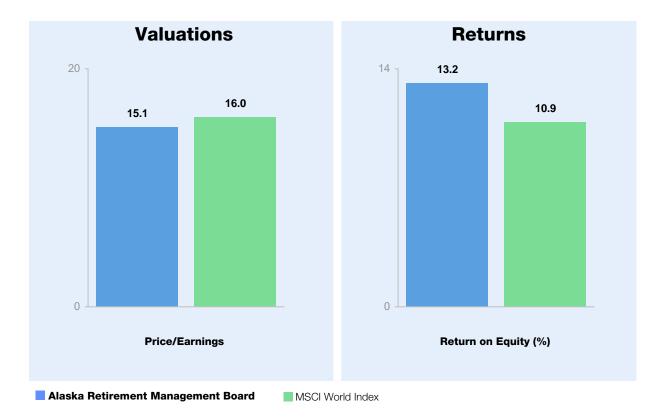
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### Investment Characteristics Alaska Retirement Management Board



As of 30 September 2010 Source: Lazard, MSCI



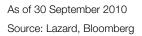
# T A B

#### 2010

- Market up strong on recovery hopes and liquidity
- Greek debt concerns dominated market movements in 2010Q2
- Stock selection has become more important than sector and regional rotation
- Portfolio performance remains solid through market cycle

#### We believe:

- The era of falling rates is nearing an end
- Debt levels remain unsustainably high
- Deleveraging will take years, if not decades
- Differentiation between winners and losers will likely expand





### Possible Uncertainties and Opportunities

#### **Top-down Uncertainties**

- Currency war race to the bottom
- Growth drag from deleveraging
- Sovereign debt concerns
- China policy decisions
- Interest rates / QE2

#### **Bottom-up Opportunities**

- BMW
- Informa
- Valeo
- Potash
- Daito Trust
- Garanti Bankasi
- Conoco Philips
- Pfizer
- Walmart
- United Technologies
- Ball

#### As of 30 September 2010

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### **Current Positioning**

#### **Overweight**

**Technology** Clear distinction between winners and losers

**Health Care** Sector in transition from R&D-focus to EM and cost focus

#### **Emerging Markets**

Valuations remain attractive with strong bottom-up ideas

**United Kingdom** High quality global franchises at good valuations

#### Underweight

#### **Materials**

Fall in valuations based on underlying or trend EPS provided brief opportunity to add

#### Utilities

Concerns related to overcapacity in the power generation market

**Asia** Valuations more attractive elsewhere

**Euro-zone** Risk-return more attractive elsewhere



As of 30 September 2010

### Relative Value MSCI Regions

Bottom-up		Trailing P/E	Forward P/E	Trailing ROE (%)	Dividend Yield (%)
portfolio positioning	EAFE	15.8	11.5	9.4	3.1
consistent with relative valuations.	U.S.	16.0	12.5	13.1	2.0
	Europe	14.8	10.8	10.7	3.3
	Far East Asia	18.2	13.6	6.3	2.1
	Japan	18.1	13.2	5.9	2.0
	Emerging Markets	14.3	11.3	14.2	2.2
	EAFE Small Cap	23.9	13.4	5.2	2.4

As of 30 September 2010 Source: MSCI



### Summary

People, Process and Performance

We believe that we have:

- A strong portfolio team
  - Improved idea generation and capture
  - Enhanced portfolio construction process
- Better integration of global resources
  - Local focus, global leverage
  - Improved global communication
- Top down uncertainty continues to present portfolios with attractive stock opportunities
- Strong stock selection
  - Bottom-up relative value process is working through market cycle
- Market shift to fundamentals favors our philosophy



As of 30 September 2010

# T A B

### Lazard Emerging Markets Equity Portfolio Mutual Fund Performance (Institutional Shares)

#### Annual Periods (%)

Net	YTD	2009	2008	2007	2006	2005	2004	2003	2002	2001
Lazard Emerging Markets Equity	16.63	69.82	-47.88	33.05	30.32	41.40	30.79	54.45	-0.37	-3.16
MSCI Emerging Markets Index	10.75	78.50	-53.33	39.38	32.17	34.00	25.55	55.82	-6.17	-2.62

#### **Annualized Returns (%)**

Net	1 Year (Sep/2010)	3 Years (Sep/2010)	5 Years (Sep/2010)	10 Years (Sep/2010)	Since Inception (Jul 18,1994-Sep 30,2010)
Lazard Emerging Markets Equity	23.42	2.27	13.79	15.78	9.39
MSCI Emerging Markets Index	20.22	-1.48	12.74	13.44	7.25

Reporting CurrencyUS DollarReporting DateSep 30 2010

The performance quoted represents past performance. Past performance does not guarantee future results. Performance is presented net of fees. The investment return and principal value of the Portfolio will fluctuate so that an investor's shares in the Portfolio, when redeemed, may be more or less than their original cost. Returns reflect reimbursement of expenses as described in the prospectus. For more complete information about the Lazard Funds and current performance, you may obtain a prospectus by calling 800.823.6300 or go to www.LazardNet.com. Read the prospectus carefully before you invest. The Lazard Funds are distributed by Lazard Asset Management Securities LLC. The MSCI Emerging Markets Index is comprised of emerging market securities in countries open to non-local investors. The index is unmanaged and has no fees. One cannot invest directly in an index.



### Holdings by Country Lazard Emerging Markets Equity Portfolio

Holdings	% of	% of MSCI	Llaldinga		% of MSCI	Lloldingo	% of Portfolio	% of MSCI EM Index
Holdings	Portfolio	EM Index	Holdings	Portfolio	EM Index	Holdings	Portfolio	EW Index
Brazil Banco Do Brasil Cemig (ADR) Cielo Concessoes Rodovia Eletropaulo Metropoli Natura Cosmeticos		16.5	Philippines Philippine Long Distance South Korea Hite Brewery Hyundai Mobis KT&G Korea Life Insurance	1.9 Telephone 11.2	0.5 e (ADR) 13.4	South Africa (continu Pretoria Portland Cem Sanlam Shoprite Holdings Standard Bank Group Tiger Brands Truworths Internationa	ent	
Redecard Siderurgica Nacional ( Souza Cruz Ultrapar Participacoes Usinas Siderurgicas d	S	S	NHN Samsung Electronics Shinhan Financial Group Woongjin Coway <b>Taiwan</b>	6.7	10.6	<b>Turkey</b> Akbank Koc Holding Turkcell lletisim Hizme Turkiye Is Bankasi (Isb	<b>7.7</b> tleri ank)	1.8
Vale Vale (ADR)			Advanced Semiconducto	or Engineer	ring	Total Europe/Middle East/Africa	29.6	18.4
Chile Colombia	0.0 0.0	1.7 0.9	High Tech Computer Hon Hai Precision Indust	ry		Other* First Quantum Mineral	<b>2.1</b>	0.0
Mexico America Movil (ADR; S		4.2	MediaTek Taiwan Semiconductor N			CFAO Total Other	2.1	0.0
Desarrolladora Home: Femsa (ADR) Grupo Mexico Ser B Grupo Televisa (ADR)			Thailand Banpu Public Kasikornbank Total South/East Asia	1.9 36.1	1.7 57.6	Cash & Equivalents Total Portfolio	4.7 100.0	0.0 100.0
Kimberly-Clark de Me			Czech Republic	0.0	0.4	As of 30 September 201	0	
Peru Total Latin America China China Construction Bi NetEase.com (ADR)	0.0 27.5 2.4 ank H	0.7 24.0 18.0	Egypt Commercial International Eastern Tobacco Egyptian Company for M Orascom Construction Ir	lobile Servi	0.5 ces	*Other – Consists of com more of their net assets a emerging markets, but a emerging market countri	and/or sales f re domiciled i	rom
Shougang Concord Weichai Power			Hungary OTP Bank	1.1	0.4	The securities mentioned by Lazard for all client po		
India Bank of India Infosys Technologies Jindal Steel & Power Punjab National Bank	. ,	8.2	Israel Israel Chemicals Morocco Poland Russia	0.6 0.0 0.0 6.1	0.0 0.2 1.6 6.0	should not be considered solicitation to purchase of should not be assumed these securities was, or	d a recomment or sell these set that any invest will prove to b	ndation or ecurities. It tment in be, profitable,
Indonesia Bank Mandiri Semen Gresik Tambang Batubara B Telekomunik Indonesi United Tractors (ADR)	<b>5.6</b> Bukit Asam ia (ADR)	2.4	Lukoil (ADR) Magnit (GDR; 144A) Mobile Telesystems (ADF Oriflame Cosmetics TNK-BP Holdings Uralkali (GDR)		0.0	or that the investment de future will be profitable o performance of securities is no assurance that any herein are currently held securities sold have not h	r equal to the s referenced h securities refe in the portfolio	investment nerein. There erenced o or that
Malaysia British American Toba Pakistan Oil & Gas Developmen Pakistan Petroleum	0.6 acco Malaysia 1.1	2.9 0.0	South Africa Kumba Iron Ore Massmart Holdings Murray & Roberts Holdin Nedbank Group	<b>10.9</b> gs	7.5	Please note that cash is asset class. Source: Lazard, MSCI	not viewed as	s a strategic



### Holdings by Sector Lazard Emerging Markets Equity Portfolio

		Holdings	% of Portfolio	% of MSCI EM Index	Holdings	% of Portfolio	% of MSCI EM Index	Holdings	% of Portfolio	% of MSCI EM Index
Financials	<b>23.3</b> 25.8	Consumer Discretionary CFAO	5.5	6.8	Financials (continued) OTP Bank Punjab National Bank	1		<b>Materials (continued)</b> Usinas Siderurgicas de Vale	Minas Gerais	S
Information Technology	<b>17.0</b> 12.4	Desarrolladora Home Grupo Televisa (ADR) Hyundai Mobis	( )		Sanlam Shinhan Financial Grou Standard Bank Group	р		Vale (ADR) Telecommunication Services	9.3	8.0
Materials	<b>15.4</b> 14.4	Truworths Internationa Woongjin Coway			Turkiye Is Bankasi (Isba Health Care	0.0	0.8	America Movil (ADR; Se Egyptian Company for I	er L) Mobile Servic	
Consumer Staples	<b>12.4</b> 6.9	Consumer Staples British American Toba Eastern Tobacco Femsa (ADR)	<b>12.4</b> acco Malaysia	6.9 a	Industrials Concessoes Rodoviaria Koc Holding Murray & Roberts Holdir		7.2	Mobile Telesystems (AE Philippine Long Distanc Telekomunik Indonesia Turkcell lletisim Hizmetl	e Telephone (ADR)	e (ADR)
Telecom Services	<b>9.3</b> 8.0	Hite Brewery KT&G Kimberly-Clark de Me	exico CLA		Orascom Construction United Tractors (ADR) Weichai Power			<b>Utilities</b> Cemig (ADR) Eletropaulo Metropoli P	<b>1.4</b>	3.5
Energy	<b>5.7</b>	Magnit (GDR; 144A)			Information		10.4	Cash & Equivalents	4.7	0.0
Consumer Discretionary	<b>5.5</b> 6.8	Massmart Holdings Natura Cosmeticos Oriflame Cosmetics Shoprite Holdings			Technology Advanced Semiconduc Cielo Delta Electronics	<b>17.0</b> tor Engineeri	12.4 ng	Total Portfolio As of 30 September 2010 The securities mentioned a	100.0	100.0
Industrials	<b>5.3</b> 7.2	Souza Cruz Tiger Brands	5.7	14.1	High Tech Computer Hon Hai Precision Indus Infosys Technologies (A	-		by Lazard for all client portf should not be considered a solicitation to purchase or s	recommend sell these sec	lation or curities. It
Utilities	<b>1.4</b> 3.5	Energy Banpu Public Lukoil (ADR) Oil & Gas Developme		14.1	MediaTek NHN NetEase.com (ADR)			should not be assumed that these securities was, or will or that the investment decis	prove to be, sions we mak	, profitable, ke in the
Health Care	<b>0.0</b> 0.8	Pakistan Petroleum TNK-BP Holdings			Redecard Samsung Electronics	NA		future will be profitable or e performance of securities re is no assurance that any se herein are currently held in	eferenced her curities refere	rein. There enced
Cash & Equivalents	<b>4.7</b> 0.0	Tambang Batubara E Ultrapar Participacoe <b>Financials</b>		25.8	Taiwan Semiconductor <b>Materials</b> First Quantum Minerals	15.4	ng 14.4	securities sold have not be Please note that cash is no	en repurchas	ed.
(	0 10 20 30	Akbank Banco Do Brasil			Grupo Mexico Ser B Israel Chemicals			asset class. Source: Lazard, MSCI		
% of F	Portfolio	Bank Mandiri Bank of India			Jindal Steel & Power Kumba Iron Ore					
■ % of M	SCI EAFE Index	China Construction E Commercial Internation Kasikombank Korea Life Insurance Nedbank Group			Pretoria Portland Ceme Semen Gresik Shougang Concord Siderurgica Nacional (S Uralkali (GDR)					



# T A B

### Lazard U.S. Small-Mid Cap Equity Portfolio

Mutual Fund Performance (Institutional Shares)

#### **Annual Periods (%)**

Net	YTD	2009	2008	2007	2006	2005	2004	2003	2002	2001	2000
Lazard U.S. Small-Mid Cap	7.80	55.47	-34.46	-6.38	17.11	4.31	15.28	38.92	-17.97	18.06	15.89
Russell 2000/2500	10.32	34.39	-35.47	-1.57	18.37	4.55	18.33	47.25	-20.48	2.49	-3.02
Linked Index	10.02	0 1.00	00.17	1.07	10.07	1.00	10.00	11.20	20.10	2.10	0.02
Russell 2500 Index	10.32	34.39	-36.79	1.38	16.17	8.11	18.29	45.51	-17.80	1.26	4.27

#### **Annualized Returns (%)**

Net	1 Year (Sep/2010)	3 Years (Sep/2010)	5 Years (Sep/2010)	10 Years (Sep/2010)	Since Inception (Oct 31,1991-Sep 30,2010)
Lazard U.S. Small-Mid Cap	19.77	0.51	3.77	7.52	10.57
Russell 2000/2500 Linked Index	15.92	-2.99	2.42	4.42	8.86
Russell 2500 Index	15.92	-3.57	2.36	5.12	10.07

Reporting Currency: US Dollar

Reporting Date: Sep 30 2010

The performance quoted represents past performance. Past performance does not guarantee duture results. Performance's presented het of fees. The investment turnand principal value of the Portfolio will fluctuates that an investor's shares in the Portfolio, when redeemed, may be more or less than their original cost. Returns reflect reimbursement of expenses as described in the prospectus. For more complete information about the Lazard Funds and current performance, you may obtain a prospectus by calling 800.823.6300 or go to www.LazardNet.conReadthe prospectus arefully before you invest. The Lazard Funds are distributed by LazardAssetManagemeneSecurities LLC. The Russell 2500 Index is comprised of the 2,500 smallest U.S. companies included in the Russell 3000 Index (which consists of the 3,000 largest U.S. companies by capitalization). The Russell 2000/2500 Linked Index is an index created by the Portfolio's Investment Manager, which links the performance of the Russell 2000 @ Index for all periods prior to August 25, 2008 and the Russell 2500 Index for all periods thereafter. The Russell 2000 Index is comprised of the 2,000 smallest U.S. companies included in the Russell 2000 Index for all periods the rund and the Russell 2000 Index for all periods the rund and the Russell 2000 Index for all periods thereafter. The Russell 2000 Index is comprised of the 2,000 smallest U.S. companies included in the Russell 3000 Index. The index is unmanaged and has no fees. One cannot invest directly in an index.



### Holdings by Sector Lazard U.S. Small-Mid Cap Equity Portfolio

				% of			% of			% of
			% of	Russell		% of	Russell		% of	Russell
		Holdings Po	rtfolio	2500	Holdings	Portfolio	2500	Holdings	Portfolio	2500
Financials	<b>17.1</b> 20.7	Consumer Discretionary	17.0	14.4	Health Care CareFusion	8.2	10.8	<b>Materials</b> Ball	6.5	6.9
Consumer	17.0	American Eagle Outfitters Better Place			Community Health Sys Haemonetics	stems		Owens-Illinois Rock-Tenn Cl A		
Discretionary	14.4	Brown Shoe Company Darden Restaurants			Hospira Life Technologies			Rockwood Holdings Schnitzer Steel Industries		
Information	16.0	Family Dollar Stores			VCA Antech			Schweitzer-Mauduit Inter		
Technology	15.9	Gymboree Iconix Brand Group			Warner Chilcott CI A Industrials	15.0	14.1	Solutia <b>Telecom Services</b>	0.0	1.4
Industrials	<b>15.0</b> 14.1	Liz Claibome Mattel Matthews International Cl /	4		Administaff Altra Holdings BE Aerospace			<b>Utilities</b> New Jersey Resources Northeast Utilities	4.6	6.0
Health Care	<b>8.2</b> 10.8	Modine Manufacturing Newell Rubbermaid Tempur-Pedic Internationa	I		Bucyrus International FTI Consulting Generac Holdings			Cash & Equivalents Total Portfolio	7.1 100.0	0.0 100.0
Materials	6.5	Tenneco Texas Roadhouse			Gibraltar Industries Graftech International			As of September 30, 2010		
	6.9	Williams Sonoma Consumer Staples	2.9	3.5	Great Lakes Dredge & Middleby	Dock		The allocations and specific are based upon a portfolio the time of the section		
Energy	<b>5.7</b> 6.3	Central Garden & Pet CI A Lance		6.3	Navigant Consulting Quanta Services Regal-Beloit			proposed investment for a fu account. Allocations and sec subject to change.		
Utilities	<b>4.6</b> 6.0	Energy Cimarex Energy Helmerich & Payne	5.7	0.3	Team Trex Company			The securities mentioned are by Lazard for all client portfo		
Consumer	2.9	James River Coal Oceaneering International			UTI Worldwide			should not be considered a solicitation to purchase or se		
Staples	3.5	Financials Arch Capital Group	17.1	20.7	Technology Akamai Technologies	16.0	15.9	should not be assumed that	any investm	ent in
Telecom	0.0	City National Digital Realty Trust			BMC Software CPI International			these securities was, or will or that the investment decisi	,	. ,
Services	1.4	Extra Space Storage			Echo Global Logistics			future will be profitable or eq performance of securities ret		
Cash & Equivalents	<b>7.1</b>	Home Bancshares Keycorp New Kilroy Realty			Faro Technologies Flir Systems Intuit			is no assurance that any sec herein are currently held in th	urities refere ne portfolio o	nced r that
	0 10 20 30 (%)	Macerich NYSE Euronext PacWest Bancorp			Nuance Communication ON Semiconductor Polycom	ons		securities sold have not been Please note that cash is not asset class.	•	
	(70)	UDR Wintrust Financial			Quest Software Red Hat			Source: Lazard, Russell Inve	stments	
	% of Portfolio				Smart Technologies SS&C Technologies He Veeco Instruments	oldings				
	% of Russell 2500				Xilinx					



# T A B

Certain information included herein is derived by Lazard in part from an MSCI index or indices (the "Index Data"). However, MSCI has not reviewed this product or report, and does not endorse or express any opinion regarding this product or report or any analysis or other information contained herein or the author or source of any such information or analysis. MSCI makes no express or implied warranties or representations and shall have no liability whatsoever with respect to any Index Data or data derived therefrom. The MSCI Index Data may not be further redistributed or used as a basis for other indices or any securities or financial products.

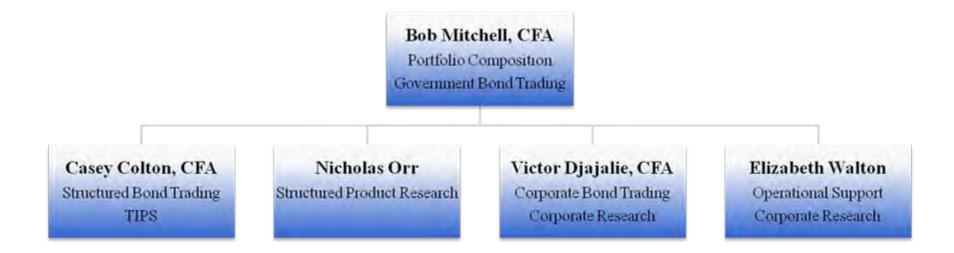


## Alaska Retirement Management Board

### **Domestic Fixed Income Presentation**

Bob Mitchell, CFA Anchorage, Alaska December 2-3, 2010

### Fixed Income Investment Team



### **Investment Overview**

- Intermediate Treasury
  - \$1.84 billion, or 12.0% of ARMB Portfolio
  - Inception Date: April 8, 2010

#### • Treasury Inflation-Protected Securities (TIPS)

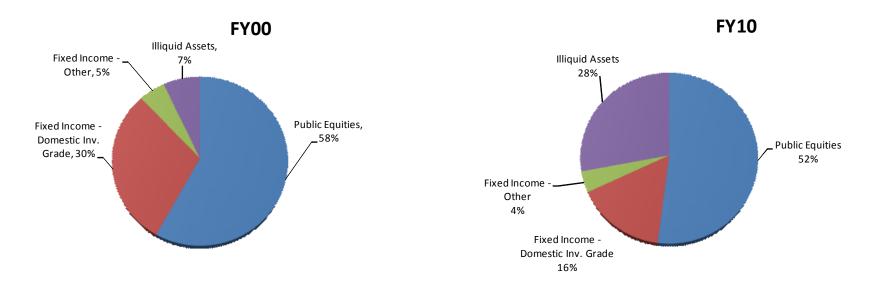
- \$184 million, or 1.2% of ARMB Portfolio
- Inception Date: July 18, 2007

#### Core Domestic Fixed Income/Residual Portfolio

- \$52 million, or .3% of ARMB Portfolio
- Composition: cash, short-maturity securities, illiquid securities
- Source of Liquidity for ARMB
  - Primary Source of Liquidity Beyond Public Market Equity Allocation
  - Pension Contributions and Benefit Payments
  - Real Estate & Private Equity Contributions/Capital Returns

Market Values as of November 15, 2010

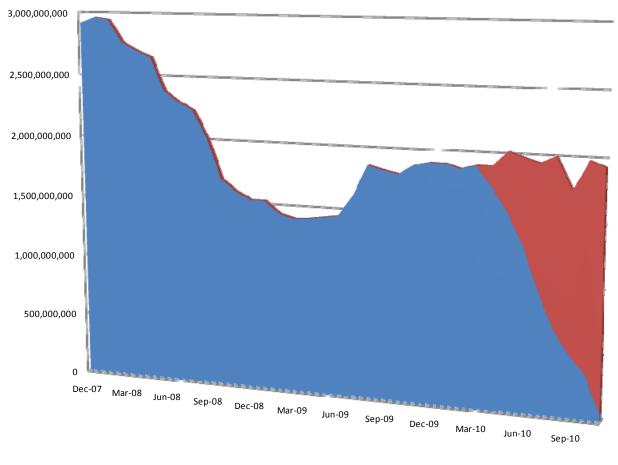
### Fixed Income Liquidity Requirements have Risen



- Private Equity/Real/Absolute Return target allocation increased from 7% to 28%. Unfunded commitments represent an additional potential call on liquidity.
- Total Fixed Income fell from 35% to 20%. Internally-managed domestic fixed income fell from 30% to 16%.
- Public Equity allocation declined from 58% to 52%.

Reproduced from February 2010 ARMB Presentation

### Transition of Domestic Fixed Income Portfolio

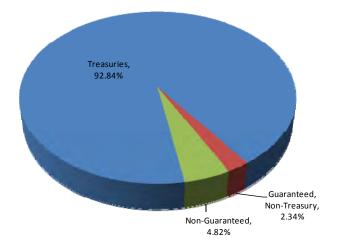


Core Domestic Fixed Income Intermediate Treasury Fixed Income

### Investment Approach

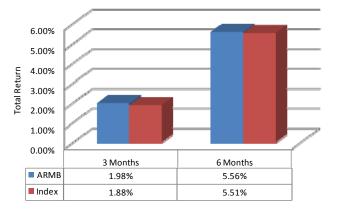
- Identify a broad range of potential movements in the yield curve from one to three months into the future.
- Position portfolios to attempt to outperform modestly over the full set of scenarios.
- Manage trading costs and give liquidity sparingly.
- Seek yield in non-Treasury holdings:
  - Position portfolio in higher conviction securities.
  - Diversify positions.
- Manage the basis between indexed and non-inflation-indexed Treasury holdings.
- Risks
  - Future yield curve movements may be other than what we forecast.
  - Spread changes are not explicitly incorporated, so could detract from performance.
  - Changes in inflation expectations may not mirror actual changes in inflation; carry differences could detract from performance.

### Intermediate Treasury Portfolio Description



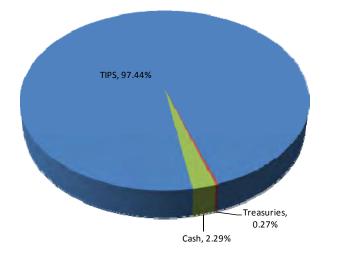
Non-Guaranteed Detail	Total %	#Securities	Avg. %	Max. %
Agencies	0.22%	16	0.01%	0.08%
Mortgages	2.72%	149	0.02%	0.14%
СМО	0.35%	10	0.03%	0.19%
ABS	0.41%	1	0.41%	0.41%
CMBS	0.32%	2	0.16%	0.30%
Corporates	0.74%	24	0.03%	0.17%
Cash	0.07%			

Portfolio Characteristics	ARMB	Index
Yield	1.43%	1.26%
Effective Duration	4.06	3.98
Spread Duration	0.336	0
Convexity	0.18	0.24
Number of Issues	249	154
Average Coupon	1.56%	2.62%



Market Values as of November 15, 2010

### **TIPS Portfolio Description**



	Cash Flow (% Portfolio)	Liquidity Cost (%)	Performance Cost (%)
January 2008	58.90%	0.13%	0.07%
October 2008	-8.97%	0.50%	0.04%
December 2008	-9.34%	0.50%	0.05%
February 2009	-4.89%	0.38%	0.02%
June 2009	8.02%	0.13%	0.01%
August 2010	126.99%	0.13%	0.16%



Portfolio Characteristics	ARMB	Index
Yield (Real)	0.55%	0.46%
Real Yield Duration	8.37	7.89
Spread Duration	0	0
Real Yield Convexity	1.055	1.021
Number of Issues	11	30
Average Coupon	2.20%	2.06%

Market Values as of November 15, 2010

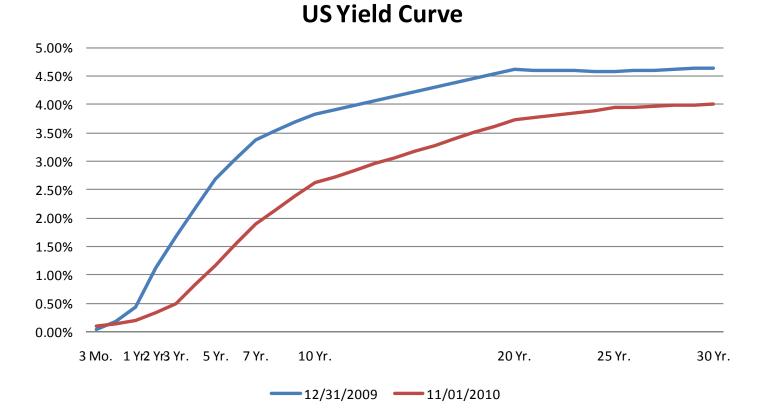
### Yields are Good Approximation of Subsequent Returns



#### **Intermediate Treasury Index**

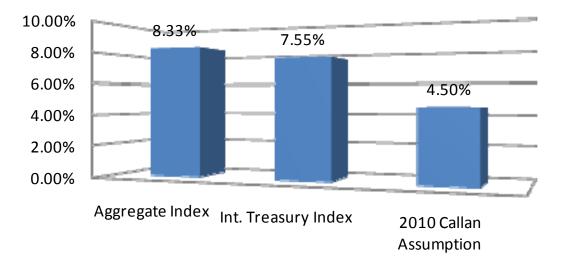
Department of Revenue - Treasury Division

### Interest Rates have Fallen in 2010



### Falling Yields have Resulted in Strong Returns

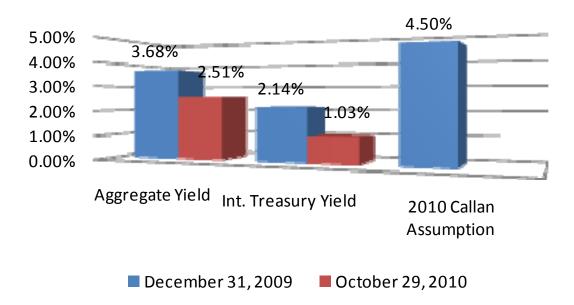
### YTD Performance and 10 Year Callan Assumption



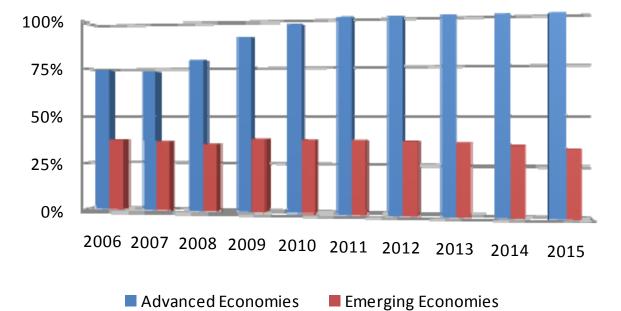
Year-to-date returns through October.

### Prospective Returns are Lower Going Forward

### Benchmark Yields and 10 Year Callan Assumption



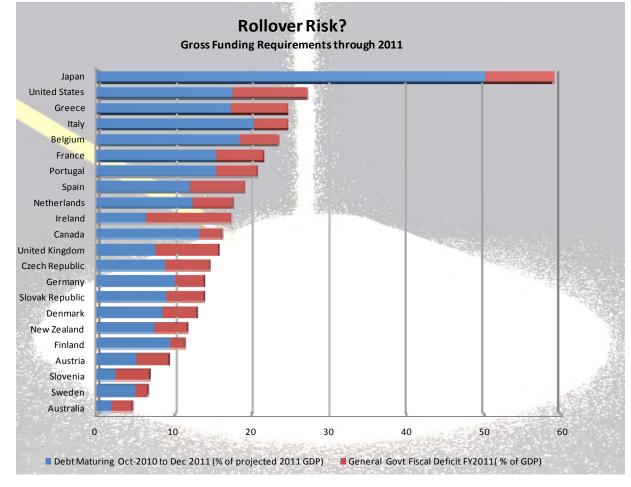
## Developed Country Fundamentals Deteriorating Gross Debt/GDP



Source: IMF

Department of Revenue - Treasury Division

# **Rising Funding Risk**



Source: IMF

# Summary

- The transition from the core fixed income portfolio is essentially complete. We have a residual portfolio that we expect to hold for a period of time.
- We are managing the Treasury and TIPS portfolios with the expectation that we will need to provide substantial liquidity if needed.
- In the Treasury and TIPS portfolios, we strive to consistently outperform through active curve positioning and seeking additional total return from out-of-index securities while maintaining significant liquidity.
- Prospective returns in core fixed income should be adjusted lower to reflect the drop in yields experienced this year.



# Energy Fund XV





### Disclaimer

The information contained herein is provided for informational and discussion purposes only and is not, and may not be relied on in any manner as, legal, tax or investment advice or as an offer to sell or a solicitation of an offer to buy an interest in Energy Fund XV (the "Fund"), or to participate in any trading strategy. A private offering of interests in the Fund will only be made pursuant to a confidential private placement memorandum (as amended or supplemented from time to time, the "Private Placement Memorandum") and the Fund's subscription documents, which will be furnished to gualified investors on a confidential basis at their request for their consideration in connection with such offering. The information contained herein will be superseded by, and is qualified in its entirety by reference to the Private Placement Memorandum, which contains additional information about the investment objective, terms and conditions of an investment in the Fund and also contains tax information and risk disclosures that are important to any investment decision regarding the Fund, the Amended and Restated Limited Partnership of the Fund, as may be amended and/or modified from time to time and the subscription documents related thereto. No person has been authorized to make any statement concerning the Fund other than as set forth in the Private Placement Memorandum and any such statements, if made, may not be relied upon. The information contained herein must be kept strictly confidential and may not be reproduced or redistributed in any format without the approval of the Fund. By accepting this information, the recipient agrees that it will, and it will cause its directors, partners, officers, employees and representatives, to use the information only to evaluate its potential interest in the securities described herein and for no other purpose and will not divulge any such information to any other party. Notwithstanding the foregoing, each investor and prospective investor (and each employee, representative, or other agent thereof) may disclose to any and all persons, without limitation of any kind, the tax treatment and tax structure of the Fund and its investments and all materials of any kind (including opinions or other tax analyses) that are provided to such investor or prospective investor relating to such tax treatment and tax structure, provided, however, that such disclosure shall not include the name (or other identifying information not relevant to the tax structure or tax treatment) of any person and shall not include information for which nondisclosure is reasonably necessary in order to comply with applicable securities laws.

The securities described herein will not be registered under the Securities Act of 1933, as amended, and the Fund will not be registered under the Investment Company Act of 1940, as amended. The securities offered herein will not be recommended by any United States Federal or State Securities Commission or any other regulatory authority. Furthermore, the foregoing authorities have not confirmed the accuracy or determined the adequacy of this document. Any representation to the contrary is a criminal offense. An investment in the securities described herein involves certain risks, which are described herein and in the Private Placement Memorandum.

Neither the Fund nor its general partner (the "General Partner") or any of their affiliates make any representation or warranty, express or implied, as to the accuracy or completeness of the information contained herein and nothing contained herein shall be relied upon as a promise or representation whether as to the past or future performance. The information contained herein includes estimates and involves significant elements of subjective judgment and analysis. No representations are made as to the accuracy of such estimates. The information contained herein does not purport to contain all of the information that may be required to evaluate such securities and any recipient is encouraged to read the Private Placement Memorandum and should conduct its own independent analysis of the data referred to herein. Neither the Fund nor the General Partner expects to update or otherwise revise the information contained herein except by means of the Private Placement Memorandum. Additional information is available on request.

These materials contain statements that are not purely historical in nature, but are "forward-looking statements." These include, among other things, estimates of valuations. These forward-looking statements are based upon certain assumptions. Actual events are difficult to predict and may be beyond the Fund's control. Actual events may differ from those assumed. All forward-looking statements included are based on information available on the date hereof and neither the Fund nor the General Partner or their respective affiliates assume any duty to update any forward-looking statements. Some important factors which could cause actual results to differ materially from those in any forward-looking statements include changes in local economic conditions, political changes, legal and regulatory requirements, exchange rate fluctuations, as well as changes in the markets, prospects, competition or consumer preferences for products or services of any company in which an investment is made, among others. Other risk factors are also identified herein and described in the Fund's Private Placement Memorandum. Accordingly, there can be no assurance that the estimated valuations can be realized or that actual returns or results will not be materially lower than those calculated.

This marketing document should be read in conjunction with the Private Placement Memorandum.



### Disclaimer (con't)

An investment in the Fund is speculative and involves significant risks, including the risk of loss of the entire investment. These risks include, but are not limited to the following: an investor may lose its entire investment; an investment in the Fund is a long term investment, the interests are illiquid and an investor may not be able to transfer its interest because of restrictions on transferability of interests; any potential return on an investor's investment will be reduced by the Fund's fees and expenses; an investor in default with respect to its obligation to fund required capital contributions may expect to experience material adverse effects on its investment and the Fund may, in its discretion, cause a defaulting investor to share in the Fund's future losses without being entitled to share in the Fund's future profits; and a defaulting investor may lose the right to participate in any investments made after such investor's default. Before deciding to invest in the Fund, prospective investors should pay particular attention to the investment considerations and conflicts of interest contained in the Private Placement Memorandum. Investors should have the financial ability and willingness to accept the risks associated with an investment in the Fund for an indefinite period of time.

Certain information contained herein (including financial information concerning portfolio companies) has been obtained from published and non-published sources. It has not been independently verified by the manager of the Fund. Except where otherwise indicated herein, the information provided herein are based on matters as they exist as of December 31, 2009 and not as of any future date, and will not be updated or otherwise revised to reflect information that subsequently becomes available, or circumstances existing or changes occurring after the date hereof.

In considering any performance data contained herein, you should bear in mind that past performance is not indicative of future results, and there can be no assurance that the Fund will achieve comparable results. In addition, there can be no assurance that unrealized investments will be realized at the valuations shown as actual realized returns will depend on, among other factors, future operating results, the value of the assets and market conditions at the time of disposition, any related transaction costs, and the timing and manner of sale, all of which may differ from the assumptions on which the valuations contained herein are based. The IRRs presented on a "gross" basis do not reflect any management fees, carried interest, taxes and allocable expenses borne by investors, which in the aggregate may be substantial. All IRRs presented are annualized and calculated on the basis of monthly investment inflows and outflows. Net IRRs can only be calculated at the fund level. Nothing contained herein should be deemed to be a prediction or projection of future performance of the Fund.

Prospective investors should make their own investigations and evaluations of the information contained herein. Prior to the closing of a private offering of interests in the Fund, the Fund's manager will give investors the opportunity to ask questions and receive additional information concerning the terms and conditions of such offering and other relevant matters. Each prospective investor should consult its own attorney, business adviser and tax adviser as to legal, business, tax and related matters concerning the information contained herein and such offering.

The information contained in this presentation has been obtained from sources outside of Credit Suisse Securities (USA) LLC ("CS"), which is acting as a placement agent to the Fund. While such information is believed to be reliable for the purposes used herein, neither CS, nor any of its affiliates or partners, members or employees, assume any responsibility for the accuracy of such information.



# Energy & Infrastructure Group ("EIG")

### • Among the leading institutional providers of capital to the energy sector globally

- Singular focus on energy and energy-related infrastructure throughout its 28-year history
- Broad offering of capital to industry (senior debt through equity)
- Global investment focus (invested in 33 countries; 6 continents)
- Team recently transitioned to joint venture relationship with TCW

### Global investment platform

- 42 investment professionals
- Operate from Houston, New York, Washington D.C., London and Sydney

### • Strong and consistent 28-year track record; the longest in the industry

- 14 funds, 250+ portfolio investments
- Invested over \$10 billion in energy globally
- Demonstrated investment performance through multiple commodity and business cycles

### • Disciplined, value-oriented approach to investing

- Focus on preservation of capital with upside potential
- EIG's historical defaulted investments, in the aggregate, generated a positive gross return as a result of team's strong technical expertise and focus on tangible assets
- Current income provides significant J-curve mitigation
- Fund XIV (final close in Dec 2007) has distributed income every quarter since inception

Note: Past performance is not a guarantee of future results. CONFIDENTIAL



### **EIG** Team

Experienced team with significant technical expertise

Power

Jerry Stalun

Managing Director

Vice Presidents

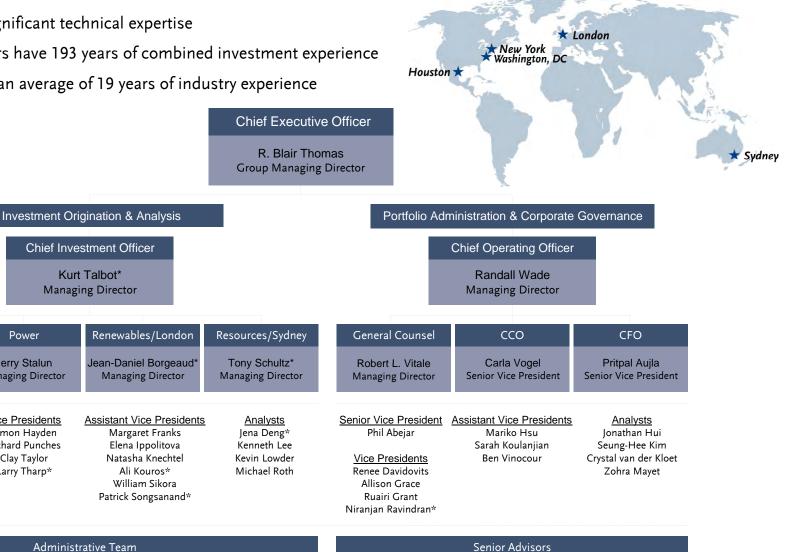
Simon Hayden

Richard Punches

Clay Taylor

Larry Tharp\*

- Managing Directors have 193 years of combined investment experience
- 10 engineers with an average of 19 years of industry experience



	Administrative Team				Senior Advisors		
_	Joni Estrada Amanda Hansen	Anna Jones Tatiana Levin	Maureen Meany Iris Peoples	Rebecca Wegand	Thomas Mehlberg* Will Thierbach		

\*Engineer

CONFIDENTIAL

Oil & Gas

Curt Taylor\*

Managing Director

Senior Vice Presidents

Paul Colatrella

Kevin Corrigan

Brian Gilmore

Patrick Hickey\*

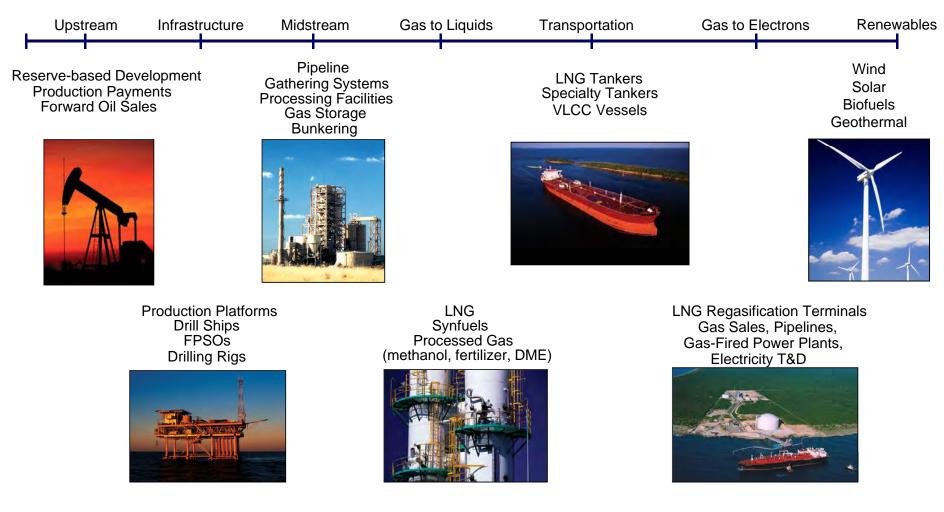
Brian O'Connor

Andy Zhmurovsky



## Target Market

• EIG actively invests throughout the energy value chain on a global basis

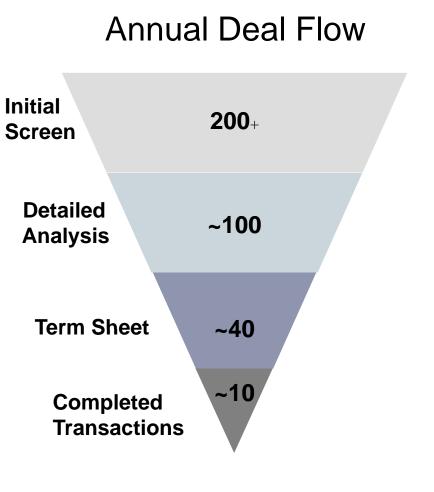




## Historical Competitive Landscape

- The competitive landscape of energy-related financing opportunities has changed dramatically since the 1980s
- EIG has been a constant and has successfully invested across multiple cycles







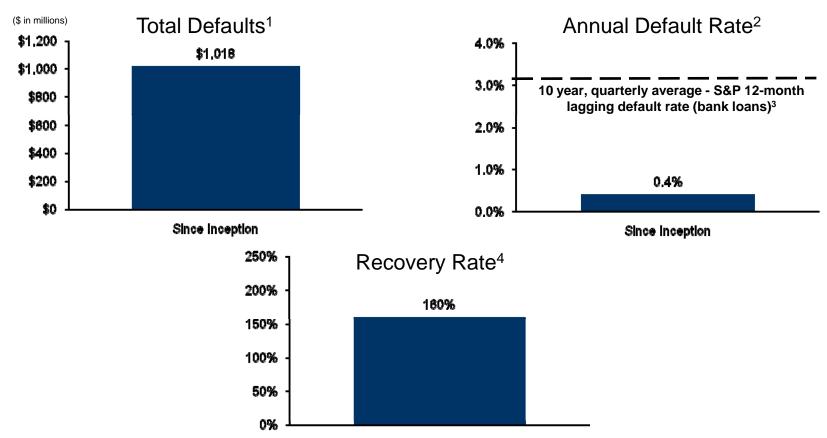
## Disciplined, Value-Oriented Approach to Investing

### Keys to EIG Investment Style

- Hard assets with long useful life
- Bottom-up internal technical analysis
- Secured by shares or assets
- Strong current cash flow
- Active management through covenants and board participation
- Meaningful prepayment penalties
- Upside potential through equity participation



### Focus on Preservation of Capital Demonstrated in Defaulted Investments



• 7% gross portfolio return on defaulted investments across all EIG debt investments

#### Since inception

- 1) "Default" is defined as investments in which either a payment default, a material covenant default or a significant restructuring of the original terms occurred.
- 2) Annual default rate is calculated by dividing the cumulative default rate (i.e., the par value of the total defaults divided by the par value of the total debt investments) across all debt investments made by EIG since inception, by the number of years since the group's first investment.
- 3) Quarterly average of the S&P/LCD 12-month lagging bank loan default rate, by issuer count over the last 10 years is 3.20%. Source: Standard and Poor's LCD and E. Altman (NYU Salomonn Center), August 20, 2009.
- 4) Recovery rate is calculated by dividing the aggregate amount of funds received in relation to the investment after the occurrence of the default by the principal outstanding at the time of default. Investments that have defaulted but in which the ultimate recovery is not yet known are included in the annual default calculation but not the recovery rate calculation.

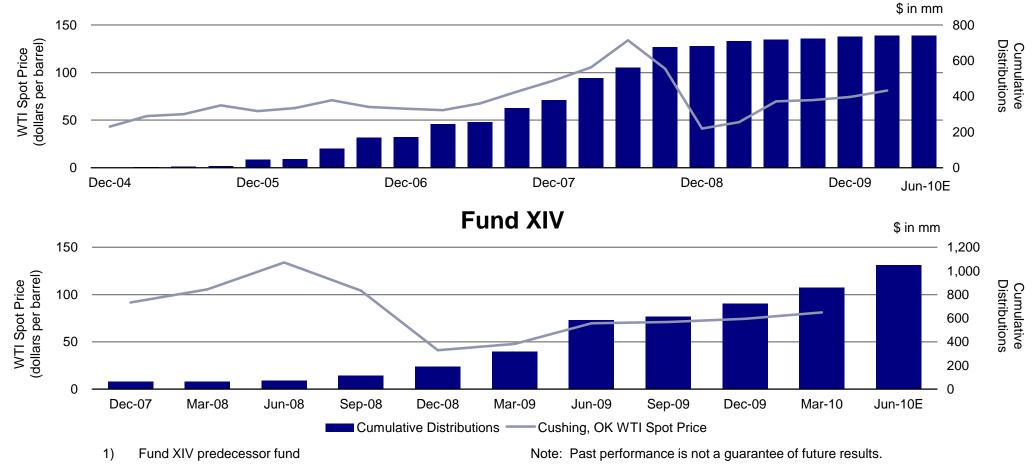
Note: Past performance is not a guarantee of future results.



### **Consistency in Distributions**

• EIG has distributed income every quarter since Q4 2004, regardless of significant commodity price volatility

Fund X<sup>1</sup>

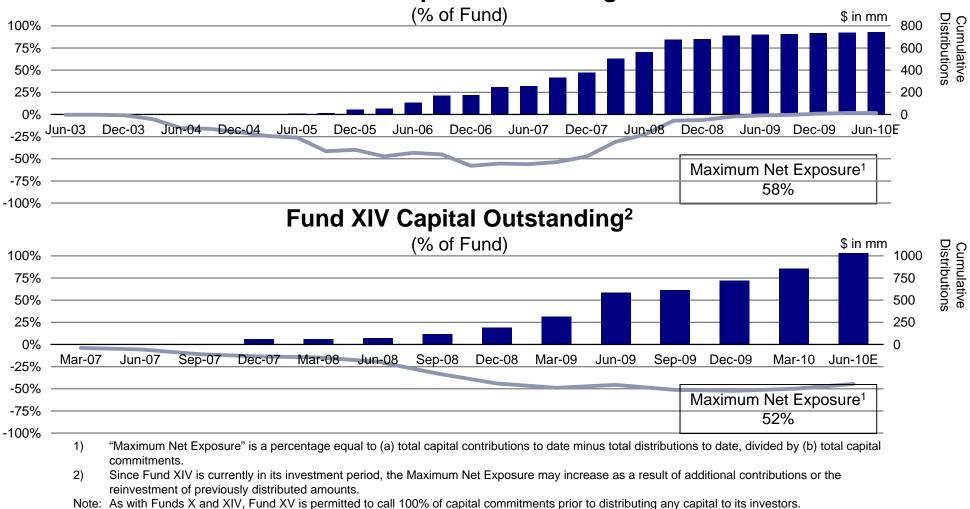


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### Current Income Intended to Mitigate J-curve

• EIG's investment approach for Fund XV is expected to limit the maximum capital exposure for investors



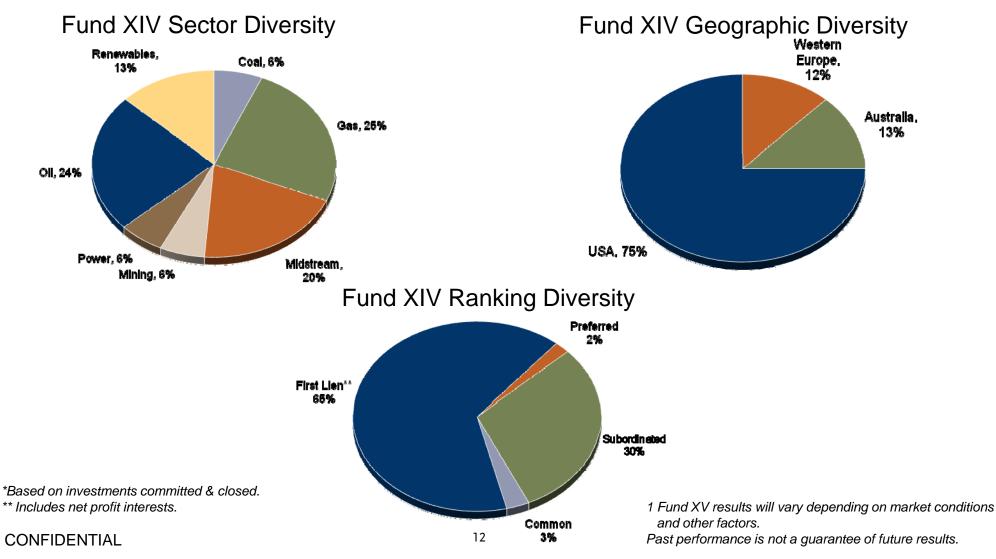
### **Fund X Capital Outstanding**

CONFIDENTIAL Past performance is not a guarantee of future results.



## Significant Portfolio Diversification<sup>1</sup>

• Strategy seeks diversification across sector, geography and ranking, providing additional protection for EIG investors





### Drivers of Massive Demand for Capital

- EIG believes there are current secular trends in the energy and energy-related infrastructure market that will require massive amounts of capital to be deployed in the sector over the next 15-20 years<sup>1</sup>
- Factors that underpin this trend include:
  - Rapid demand growth as the developing world continues to industrialize
  - Depletion of aging "elephant fields" that have underpinned global supply for decades
  - Higher replacement costs as conventional supplies began to be replaced with higher cost "unconventional" supplies
  - Chronic under investment in infrastructure caused by the inherent volatility of the sector and the need for long pay-back periods
  - Concerns about climate change and the introduction of price mechanisms for carbon
  - Assertion of market clout by national oil companies and other state actors and the resulting resource nationalism as energy independence takes on increased political importance
  - Security of supply as an enhanced geopolitical consideration as key supply states use energy as an economic weapon to leverage consumer states
  - Market distortions caused by increased government intervention through mandates, subsidies, taxes and regulation
  - Fragility of the energy supply network and susceptibility to disruption by terrorist activity
  - Increased price volatility due to low reserve margins, correlation to U.S. dollar and inflation expectations

#### 1) IEA World Energy Outlook 2008.



## Impact of Credit Crisis

- Contraction in global GDP took pressure off near-term supply/demand fundamentals and caused what EIG believes will be a one to two year "time out" in the otherwise dominant trends in the industry<sup>1</sup>
- Crisis contributed to short term "fire sale" of credit globally, including in energy and infrastructure
- Longer term crisis has had positive effect of re-pricing risk across the credit spectrum, particularly for illiquid assets
- Contraction in suppliers of credit has been pronounced, creating more opportunity for the "survivors"
- EIG believes that its industry expertise, brand, track record and platform position it to capitalize on these trends



# Current Areas of Opportunity

Opportunity	Current Dynamic	EIG Portfolio/Pipeline Examples*			
Energy-related Infrastructure	<ul> <li>Pipelines, gathering systems, compression, processing and rigs for energy companies looking for growth capital or to recycle capital currently tied- up on their balance sheet</li> </ul>	epicenergy PIÑON SandRidge			
Renewable Energy	• Wind, geothermal, solar and biofuels primarily in the US and Europe in response to the implementation of carbon regimes	Invenergy ABENGOA SOLAR			
Recapitalization of Mature Assets	<ul> <li>Operating assets with significant existing cash flow as a source of liquidity for large energy companies in a credit constrained environment</li> </ul>	CHENIERE PIÑON SandRidge LARCHMONT ABENGOA SOLAR			
Oil versus Gas	• Onshore and offshore primary and tertiary oil recovery plays recognizing the relative value of oil versus gas on a BTU equivalent basis in the current market	Nations Petroleum Resources			
China/Asia Energy Demands	<ul> <li>Enhanced activity in existing EIG Austral-Asian platform recognizing continuing resource nationalism and demand for energy and resources</li> </ul>	COOGEE RESOURCES			



## Appendix

- Investment Performance
- EIG Structural Evolution
- Recent Development of EIG Platform
- Investment Summaries\*
- Key Terms
- EIG History of Funds
- Risk Factors

\* The asset reviews included in page 22 – 25 do not represent a complete list of investments made by Fund XIV. However, they are intended to be illustrative of the types of investments that may be made by the Fund. There can be no assurance that the Fund will be able to achieve the same prices, valuation metrics or portfolio quality as these Fund XIV investments. For additional information regarding EIG's investment performance, see "Historical Track Record" beginning on page 17. In addition, a list of all investments made by EIG-managed funds (including the performance of such funds) is available upon request.



### Historical Track Record<sup>1</sup>

(as of June 30, 2010)		Committed Capital	Initial Closing	Gross IRR <sup>2</sup>	Net IRR <sup>3</sup>	Status
<ol> <li>Debt &amp; Royalty Fund I <sup>4</sup></li> </ol>	-	\$100,000,000	1982	1%	2%	Fully Realized
2. Debt & Royalty Fund II <sup>4</sup>		293,000,000	1986	12%	10%	Fully Realized
3. Cogeneration & Infrastructure Fund <sup>5</sup>		1,147,000,000	1987	15%	13%	Investing
4. Oil & Gas Equity Fund <sup>4</sup>		78,000,000	1988	40%	30%	Fully Realized
5. Debt & Royalty Fund III <sup>4</sup>		208,000,000	1989	16%	13%	Fully Realized
6. Debt & Royalty Fund IV <sup>4</sup>		308,000,000	1993	11%	8%	Fully Realized
7. Debt & Royalty Fund V <sup>4</sup>		600,000,000	1994	19%	17%	Fully Realized
8. Debt & Royalty Fund VI <sup>4</sup>		278,000,000	1997	16%	14%	Fully Realized
9. Global Project Fund <sup>4,6</sup>		500,000,000	2001	n/a	25%	Fully Realized
10. Energy Fund X <sup>5,7</sup>		734,000,000	2003	16%	14%	Post Investment Period
11. Global Project Fund II <sup>6</sup>		700,000,000	2004	n/a	21%	Post Investment Period
12. Global Project Fund III <sup>6</sup>		1,534,000,000	2005	n/a	11%	Investing
13. European Clean Energy Fund <sup>5</sup>		432,000,000	2006	11%	5%	Investing
14. Energy Fund XIV <sup>5,8</sup>		2,569,123,000	2006	24%	15%	Investing
	TOTAL	\$9,481,123,000				

Note: Past performance is not a guarantee of future results. Please see notes on page 4.



### Fund XIV Track Record<sup>1</sup>

as of June 30, 2010 (in millions)	Initial Investment	Capital Committed	Capital Invested	Realized Proceeds	Unrealized Value⁵	Total Value	Multiple of Cost	Gross IRR <sup>2</sup>	Net IRR
Realized and Subst									
Batesville	Mar-07	\$41.6	\$41.6	\$46.3	\$0.0	\$46.3	1.1x	15.4%	
Anadarko DF III	May-07	100.0	81.3	76.1	22.2	98.4	1.2x	14.0%	
Wise Well	Aug-07	70.0	53.0	38.2	1.5	39.7	0.7x	NA	
Ambrose	Nov-07	50.0	28.0	80.8	0.0	80.8	2.9x	473.7%	
Xinergy	Mar-08	35.0	35.0	54.6	0.0	54.6	1.6x	33.8%	
Severn	Apr-08	59.1	59.1	68.5	0.0	68.5	1.2x	10.9%	
Cheniere	May-08	48.5	48.5	55.0	0.0	55.0	1.1x	73.2%	
Coogee	Jul-08	190.0	165.0	236.5	0.0	236.5	1.4x	66.7%	
Invenergy I	Sep-08	39.0	39.0	41.6	0.0	41.6	1.1x	38.0%	
Moly Mines	Sep-08	<u>150.0</u>	<u>150.0</u>	<u>218.8</u>	<u>10.8</u>	<u>229.6</u>	1.5x	35.1%	
Total Realized Inves	stments	\$783.2	\$700.4	\$916.5	\$34.6	\$951.0	1.4x	34.0%	
Unrealized Investme	<u>ents</u>								
Kelson	Mar-07	\$45.0	\$45.0	\$0.0	\$59.7	\$59.7	1.3x	9.1%	
Umbria (lynx)	Jun-07	50.0	37.4	5.8	49.0	54.7	1.5x	16.5%	
Coyle	Jul-07	34.0	34.0	8.7	8.2	16.9	0.5x	NA	
Big Sky	Oct-07	50.0	8.0	1.7	3.7	5.3	0.7x	NA	
National Coal	Oct-07	65.0	63.0	11.2	81.9	93.1	1.5x	18.5%	
Anadarko EOR	Nov-07	175.0	126.3	34.4	132.0	166.4	1.3x	23.5%	
Presidium	Feb-08	50.0	49.0	5.8	5.3	11.1	0.2x	NA	
Abbot	Jun-08	150.0	136.5	33.0	151.5	184.4	1.4x	19.1%	
Tarpon	Jul-08	150.0	128.6	13.0	130.0	143.0	1.1x	7.0%	
NGP	Aug-08	130.0	129.7	36.8	144.0	180.8	1.4x	30.8%	
Lipari	Sep-08	50.0	41.0	30.5	41.2	71.8	1.8x	60.2%	
Nations Petroleum	Oct-08	250.0	133.0	19.7	173.5	193.3	1.5x	32.6%	
Invenergy II	Dec-08	65.0	64.9	0.0	94.0	94.0	1.4x	28.0%	
Larchmont	Feb-09	300.0	183.5	15.3	267.6	282.9	1.5x	104.8%	
Pinon (SandRidge)	Jun-09	200.0	200.0	6.9	237.5	244.4	1.2x	22.3%	
GLID	Dec-09	<u>84.7</u>	<u>84.7</u>	<u>0.0</u>	<u>92.9</u>	<u>92.9</u>	1.1x	20.1%	
Total Unrealized Inv	vestments	\$ <u>1,848.7</u>	\$ <u>1,464.6</u>	\$ <u>222.7</u>	\$ <u>1,672.0</u>	\$ <u>1,894.7</u>	1.3x	20.2%	
Total Fund XIV Inve	stments	\$2,631.9	\$2,165.1	\$1,139.9	\$1,706.6	\$2,846.4	1.3x	24.1%	159

Note: Past performance is not a guarantee of future results. Please see notes on page 4.



## Historical Track Record Notes

Notes:

- Past performance is not necessarily indicative of future results, and there can be no assurance that the Fund will achieve comparable results. Performance is based on cash realized from investment income and the cash proceeds from the disposition of the investments and, where applicable, the fund's valuation of unrealized investments. The funds in the table all make both mezzanine and equity investments, except that Global Project Funds I, II and III only make debt investments and target higher credit quality project finance loans and lower overall returns than the asset-based mezzanine and equity funds. This itemized list of funds does not include TEP (an EIG fund of funds that solely invests in or co-invests alongside other EIG managed funds) or the investment vehicles described in notes 7 and 8 below. A list of all EIG investments made since inception (including the performance of such investments) is available upon request.
- 2. The aggregate gross IRR reflects investment-level performance based on aggregated monthly cash inflows and outflows for each investment and, where applicable, the valuation of unrealized value of investments, and does not take into account performance fees, carried interest, management fees and other expenses that were incurred by the various relevant funds. "NA" indicates gross IRRs that are not applicable due to the short duration of the fund or investment or if the fund or investment is currently held at a loss.
- 3. The net IRR is based on investor contributions and distributions, and reflects the deduction of fees and expenses incurred by the relevant fund including any performance fee and the annual management fee. For funds comprising multiple investment vehicles, the net IRR is based on a representative vehicle that holds all the relevant fund investments based on the standard fund investment guidelines and that utilized the standard fee and expense structure of the relevant fund. The net IRRs of other vehicles in the same fund group may vary.
- 4. Each of the funds, Debt & Royalty Fund I, II, III, IV, V, VI, Oil & Gas Equity Fund and Global Project Fund ("GPF I"), is liquidated and/or is fully realized.
- 5. Each of the funds, Cogeneration & Infrastructure Fund, Energy Fund X ("Fund X"), European Clean Energy Fund and Energy Fund XIV ("Fund XIV"), includes realized and unrealized investments. The value of unrealized investments is based upon public market price indications for investments for which such information is available. In the absence of such prices, value is determined for debt investments using a discounted cash flow method by calculating the net present value of projected cash flows from the investment over the period the investment is expected to be held. The discount rate applied is based on a risk-adjusted premium that the general partner believes reflects the risk of not achieving a return of capital on the investment within the stated term of the investment. Fund investments include yield enhancements, such as royalty interests in oil and gas properties, common shares received in exchange for warrants, warrants, equity options, net profits interests, cash flow participations and other interests. Depending on the nature of the instrument, these yield enhancements are generally valued as described above with respect to debt investments. Valuations for unrealized investments and yield enhancements are reduced where EIG determines that a significant impairment in value has occurred that has a significant negative impact on the asset taking into consideration factors determined relevant by EIG. While each respective fund's valuations of unrealized investments are based on assumptions that EIG believes to be reasonable under the circumstances, the actual realized returns on unrealized investments will depend on, among other factors, future operating results, market conditions at the time of disposition, any related transaction costs and the timing and manner of sale, all of which may differ from the assumptions in the valuations that are part of the performance data contained herein.
- 6. Each of the funds, GPF I, Global Project Fund II ("GPF II") and Global Project Fund III ("GPF III"), is structured with leverage and the committed capital includes both debt and equity commitments. GPF I was capitalized with \$95 million of equity commitments. All investments were made using debt, and the equity commitments were never funded. GPF I was dissolved in 2004 and prior to the dissolution, the equity investors received \$13 million of distributions. Since the investors never contributed capital, the return to the investors is infinite. The IRR for GPF I was calculated on the basis of the actual cash distributions received by the investors from the fund and assuming that periodic capital contributions were made by the investors for the fund's investments. GPF II was capitalized with \$95 million of equity commitments. All of the equity investors have funded their commitments and GPF II's investment period ended July 15, 2009. The performance is the realized return achieved by GPF II as of June 30, 2010 based on the level and timing of contributions made from GPF II and distributions received from GPF II. If the investors receive additional distributions the return may increase. GPF III was capitalized with \$122.5 million of equity commitments, as all of the equity investors chose to fund their equity commitments rather than borrow on GPF III's line of credit. GPF III's investment period ends on September 1, 2010.
- 7. The investment performance related to Fund X does not include (a) a separate account that invested only in a portion of Fund X's investments or (b) a co-investment fund that invested in a single Fund X portfolio company, which portfolio company has since filed for bankruptcy.
- 8. The investment performance related to Fund XIV does not include a co-investment fund that invested in a single Fund XIV portfolio company.



## **EIG Structural Evolution**

- In October 2009, TCW Asset Management Company and the EIG team finalized a contract establishing a joint venture relationship
  - As part of this agreement, EIG Alternative Investments, LLC ("EIG AI") was formed, which is 100% owned by the EIG principals
  - TCW and EIG AI will joint venture on funds raised through December 31, 2010, including Fund XV
  - TCW will continue to have an economic interest in funds raised by EIG AI from 2011 through 2020
- TCW-EIG Alternative Investments, LLC ("TCW-EIG AI"), a new entity formed by TCW and EIG AI will be the General Partner of Fund XV
  - EIG AI is the majority owner of TCW-EIG AI
  - TCW-EIG AI's five person board will consist of three representatives from EIG AI and two representatives from TCW
    - Blair Thomas, Randy Wade and Kurt Talbot are the EIG AI representatives
  - The investment committee will consist of three EIG representatives, a TCW representative and a representative chosen by the other members
- The current EIG team will transfer from TCW to EIG AI in an orderly manner during the course of 2010
  - TCW will sub-advise management of Fund XV to EIG AI and EIG AI will continue to manage the portfolio
  - EIG AI will complete preparations and assume primary responsibility for operations and administration of Fund XV
    - Assistance and support will be provided by TCW as needed to ensure an orderly transition
- TCW and EIG believe the new arrangement will provide the following benefits:
  - Improved economic alignment of EIG team with investors
  - Continuity in day-to-day investing activities and management of legacy assets
  - Orderly transition of administrative responsibilities with ample overlap
  - No disruption for existing clients or funds



## Recent Development of EIG Platform

• In recent years, EIG has consistently increased its fund operating and administrative capacity through strategic hires and third-party relationships



Function	Status		
Accounting	Hired CFO in March 2008; continue to work with Deloitte		
Legal	Hired General Counsel in March 2008		
Marketing	Engaged Credit Suisse PFG for Fund XIV & XV fundraise alongside TCW marketing		
Middle Office	Increased middle office staff to 7 dedicated professionals		
Tax	Hired Holthouse for fund tax preparation in 2004		
Client Reporting	In Process – continue to work with Bank of New York Mellon		
Custody	In Process – continue to work with Bank of New York Mellon		
Regulatory / Compliance	In Process – UK and Australian regulatory registrations filed, US registration in process		



### Asset Review – Anadarko EOR

Issuer Committed Investment Initial Funding Date Outstanding at 6/30/10

Sector Project Location Ranking Final Maturity Expected Average Life

Interest Rate Yield Enhancement Anadarko Petroleum Corp. \$175,000,000 November 30, 2007 \$103,988,045

Upstream Oil U.S. Senior Net Profits Interests N/A 5.5 years (at Closing)

10% Net Profits Interest

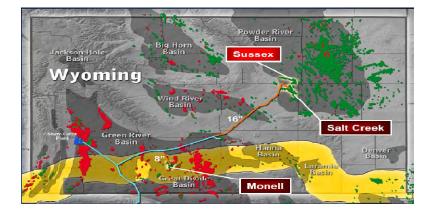
Note: Past performance is not a guarantee of future results.

#### Background

- CO2 flood program aimed to increase oil recovery from the Salt Creek Field in Wyoming by approximately 30 million barrels of oil with initial production rates of approximately 5,500 b/d.
- Anadarko is funding 20% of the cost of the program
- Investors (including Fund XIV) are funding 80% of the costs and receiving 100% of the NPI until the Investors receive their original investment plus 10% IRR.
- Thereafter, Anadarko receives 80% and the Investors 20% for ten years

#### **Current Status**

- A total of approximately \$126 million has been deployed to date
- As of June 30, 2010, NPI distributions received totaled over \$34.3 million
- Initial results of reservoir response, operating costs and capital expenditures are close to the pre-closing projections

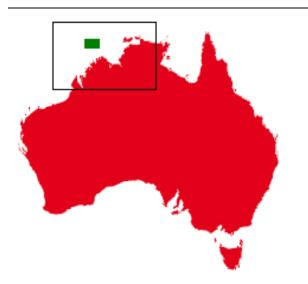






## Asset Review – Coogee Resources

Issuer Committed Investment Initial Funding Date Outstanding at 6/30/10 Sector Project Location Ranking Final Maturity Expected Average Life	Coogee Resources (Finance) Pty Ltd \$190,000,000 July 22, 2008 Repaid Upstream Oil Australia Secured Subordinated Notes July 2013 2.3 years	<ul> <li>Background</li> <li>Exploration and production company with operations in the Timor Sea, offshore Northwest, Australia</li> <li>Eight producing oil wells in two small fields and a large three-field deposit in development; 26.6 million barrels of proved oil reserves in these five offshore fields</li> <li>Fund XIV invested \$140 million initially in a subordinated facility with a total of \$165 million funded after restructuring</li> <li>12% coupon initially increased to 18% coupon after restructuring</li> <li>3% penny warrants and 2% at-the-money warrants, increased to 7% penny warrants after restructuring</li> </ul>
Interest Rate Yield Enhancement Note: Past performance is not	18% (9% Cash, 9% PIK) Warrants a guarantee of future results.	<ul> <li>Current Status</li> <li>Restructured and increased commitment required to fund cost overruns on the development</li> <li>Received improved economics and substantially greater control to force an exit</li> <li>Substantially all project assets sold to a national oil company in February 2009</li> <li>All the outstanding debt, accrued interest, prepayment premium and value for the warrants were received on April 3, 2009 resulting in a gross IRR of 67%</li> </ul>







### Asset Review – Jamestown Resources

Issuer Committed Investment Initial Funding Date Outstanding at 6/30/10

Sector Project Location Ranking Final Maturity Expected Average Life

Interest Rate Yield Enhancement Jamestown Resources, LLC \$195,000,000 June 2010 \$195,000,000

Upstream Oil & Gas U.S. First Lien Notes December 2016 5 years

12% cash or 14% PIK Net Profits Interest

#### Background

- Shale gas currently accounts for approximately 20% of U.S. natural gas production and is expected to increase significantly over the next 10 years
- Chesapeake is one of the most experienced and active oil and natural gas drillers in the U.S.
- Jamestown has a low cost acreage position due to Chesapeake's "first mover" position in many of the key shale plays
- Jamestown will be a highly diversified well program, which will likely participate in over 1,000 wells per year in 2011 and 2012 and significant infill drilling in 2013 and beyond

#### **Current Status**

- As of June 30, 2010 Fund XV had invested \$5.5 million which granted the Fund the option, but not the obligation, to participate in the 2011 Founder's Well Participation Program
- If the election for the 2011 FWPP is made, Fund XV will fund an additional \$189.5 million to Jamestown. In addition, Fund XV will have the exclusive option, but not the obligation, to fund the 2012 FWPP, at an estimated cost of \$155 million

Note: Past performance is not a guarantee of future results.







## Asset Review – Nevada Geothermal Power ("NGP")

Issuer Committed Investment Initial Funding Date Outstanding at 6/30/10 Sector Project Location Ranking Final Maturity Expected Average Life	Nevada Blue Mountain \$130,000,000 August 29, 2008 \$108,845,489 Renewables – Geothermal Power U.S. Senior Secured Notes November 2023 5.5 years	<ul> <li>Background</li> <li>NGP is a publicly traded company on the Toronto Exchange</li> <li>Investment finances the construction of a 49.5 MW (gross) / 38.8 MW (net) geothermal power plant located near Winnemucca, Nevada</li> <li>Power from the plant will be sold to the Nevada Power Company (subsidiary of Sierra Pacific Resources) under a 20-year power purchase agreement</li> <li>The Notes amortize via a 60% cash sweep which could increase to 100%, to meet certain amortization targets</li> <li>The investment includes a cash settled option for 12.5% of the parent company</li> </ul>
Interest Rate Yield Enhancement	14% (8% cash, 6% PIK) Yield Maintenance, Cash Settled Option	<ul> <li>Current Status</li> <li>Fund XIV has funded \$129.7 million to date</li> <li>As of October 2009, the plant is operational and was completed ahead of schedule</li> <li>NGP anticipates increasing the output relative to the original plan by drilling additional geothermal wells</li> </ul>
Note: Past performance is no	ot a guarantee of future results.	







### Asset Review – Piñon

Issuer Committed Investment Initial Funding Date Outstanding at 6/30/10

Sector Project Location Ranking Final Maturity Expected Average Life (Note)

Interest Rate Yield Enhancement Piñon Gathering Company, LLC ("Piñon") \$200,000,000 June 30, 2009 \$200,000,000

Midstream Oil & Gas U.S. Senior Secured Notes June 2019 5.6 years

12% All gains attributable to equity ownership

#### Background

- SandRidge Energy, Inc. gathering assets in the Piñon Field in West Texas
- Fund XIV owns the Company and its assets
- SandRidge entered into a 20-year gathering agreement with Piñon that includes a ship or pay obligation by SandRidge, an Operations and Maintenance contract with SandRidge, an exclusive gathering right, and additional development and support obligations of SandRidge benefiting Piñon
- Piñon is paid a fee for each mcf delivered to the Gathering System
- The Gathering Agreement requires SandRidge to pay Piñon certain minimum amounts irrespective if SandRidge actually delivers gas to the Gathering System
- Capitalized with \$180 million of debt and \$20 million of equity
- The Notes will amortize from a 100% cash flow sweep

#### **Current Status**

• Since closing, SandRidge is performing as expected

Note: Past performance is not a guarantee of future results.







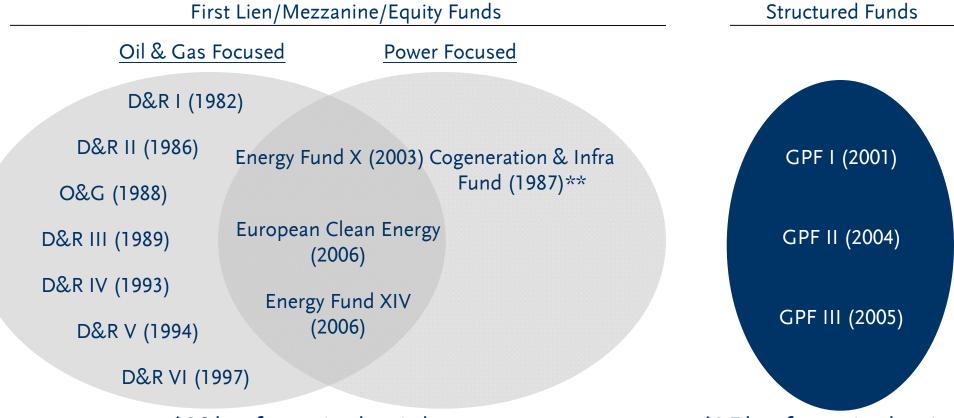
## Key Terms

Investment Period:	5 years from the initial closing date
Term:	10 years (two one-year extensions permitted)
Distribution:	Full return of capital plus 8% preferred return to LPs before any sharing by the General Partner
Investment Structure:	Mezzanine Debt & Equity 35% maximum allocation to equity
Geography:	U.S., Canada, Western Europe and Australia Up to 25% in Other Markets
Concentration Limits:	15% per investment Up to 25% with bridge investments
Management Fee:	1.25% of commitments during commitment period, 1.25% of invested capital thereafter
Catch-up:	100% after LPs achieve preferred return until Manager has received 20% of distributions
Carried Interest:	20% thereafter
Clawback:	Yes
Fee Splits:	100% offset for transaction, break-up, directors' and other fees
Hard Cap:	\$3.5 billion (excluding affiliates)



## EIG History of Funds\*

- Fund XV follows Fund XIV as EIG's flagship fund
  - The structured GPF funds are leveraged vehicles that generally make high yield or senior debt investments in rated securities in energy and infrastructure



### \$6.8 bn of committed capital

\$2.7 bn of committed capital

\* This illustration does not include TEP (an EIG fund of funds that solely invests in or co-invests along side other EIG managed funds) or the separate accounts or co-investment funds referenced in notes 7 and 8 on page 19.

\*\* Evergreen structure



### **Risk Factors**

An Investment in the Fund involves a significant degree of risk and should only be undertaken by Investors who are capable of evaluating the risks of an investment in the Fund and of bearing those risks. Prospective purchasers of an Interest in the Fund should carefully consider the following factors in connection with a purchase of an Interest in the Fund. The following list is not a complete list of all risks involved in connection with an investment in the Fund. Prospective Investors must rely upon their own examination of the Fund and their ability to understand the nature of an investment, including the risks involved in making such a decision to invest, in the Fund. There can be no assurance that the Fund will be able to achieve its investment objectives or that Investors will receive a return on their capital.

#### Nature of Investment

An investment in the Fund requires a long-term commitment, with no certainty of return. Many of the Fund's investments will be highly illiquid, and there can be no assurance that the Fund will be able to realize on such investments in a timely manner. Consequently, dispositions of such investments may require a lengthy time period or may result in distributions in kind to the Partners.

#### Nature of Securities in which the Fund Invests.

The securities in which the Fund will invest, by the nature of their issuers' leveraged capital structures, will involve a high degree of financial risk.

Mezzanine Debt Securities. The Fund intends to invest in mezzanine securities, which involve a high degree of risk with no certainty of any return of capital.

*Equity Securities.* The Fund's capital may be invested in equity securities. These securities will generally be the most junior in what typically will be a complex capital structure, and thus subject to the greatest risk of loss.

#### Nature of Investments in Oil and Gas

Certain of the companies in which the Fund invests may be subject to the risks inherent in acquiring or developing recoverable oil and natural gas reserves, including capital expenditures for the identification and acquisitions of projects, the drilling and completing of wells and the conduct of development and production operations. The presence of unanticipated pressures or irregularities in formations, miscalculations or accidents may cause such activity to be unsuccessful, which may result in losses. Further, to the extent the Fund invests in or receives royalty interests, the Fund will generally receive revenues from those royalty interests only upon sales of oil, gas and other hydrocarbon production or upon sale of the royalty interests themselves. There can be no assurance that reserves sufficient to provide the expected royalty income will be discovered or produced.

#### Nature of Investments in the Power Industry

For much of its history, the power sector, and particularly the utility industry within this broader sector, was characterized by institutional stability and predictability of financial performance. The advent of deregulation, privatization, technological change and market volatility has created a much less stable sector with substantially greater variability of company performance. There can be no assurance that the pace or direction of the change will be in accord with the expectations of EIG, nor that the industry changes will benefit investments made by the Fund. There is no assurance that the Fund's investments will be profitable or generate cash flow sufficient to service their debt or provide a return on or recovery of amounts invested therein.

#### **Construction Risks**

The construction of any project involves many risks, including delays or shortages of construction equipment, material and labor, work stoppages, labor disputes, weather interferences, unforeseen engineering, environmental and geological problems, difficulties in obtaining requisite licenses or permits and unanticipated cost increases, any of which could give rise to delays or costs overruns.



## Risk Factors (con't)

#### **Environmental Matters**

Energy companies are subject to numerous environmental laws and regulations in each country in which they operate. Some of the most onerous requirements regulate air emissions of pollutants such as sulfur dioxides, nitrogen oxides and particulate matter. Certain possible changes in the environmental laws and regulations applicable to generators in the United States, Europe or other markets could affect the performance of one or more of the Fund's investments to an extent that would create a material adverse affect to the Fund. The environmental liability risks related to power generation and other power facilities or other tort liability in excess of insurance coverage may adversely affect the value of the Fund's portfolio companies and the overall performance of the Fund.

#### Adequacy of Insurance

Each project generally will be obligated under the investment agreement to maintain insurance customary for that type of project, *provided* that such insurance requirement may be limited to insurance that is available on commercially reasonable terms, which may not exist. The proceeds of insurance applicable to covered risks may not be adequate to cover lost revenues or increased expenses.

#### Legal and Regulatory Matters

Power generation and transmission, as well as oil, natural gas and coal storage, handling, processing and transportation, are extensively regulated; statutory and regulatory requirements may include those imposed by energy, zoning, environmental, safety, labor and other regulatory or political authorities. Failure to obtain or a delay in the receipt of relevant governmental permits or approvals, including regulatory approvals, could hinder operation of an investment and result in fines or additional costs.

#### **Risks Associated with Non-U.S. Investments**

There are additional risks associated with foreign investments, including the following: the unpredictability of international trade patterns; the possibility of governmental actions adverse to business generally or to foreign investors in particular; changes in taxation, fiscal and monetary policies or imposition or modification of controls on foreign currency exchange, repatriation of proceeds, or foreign investment; the imposition or increase of withholding taxes on income and gains; price volatility; absence of uniform accounting, auditing and financial reporting standards, practices and disclosure requirements and less government supervision and regulation which may result in lower quality information being available and less developed corporate laws regarding fiduciary duties and the protection of investors; governmental influence on the national and local economies; and fluctuations in currency exchange rates.

#### **Risks Associated with Investments in Emerging Markets**

The Fund may make significant investments in countries that are considered to be "emerging markets." Investments in emerging markets involve a broad range of economic, foreign currency and exchange rate, political, legal and financial risks. Many of these risks are not quantifiable or predictable and are not typically associated with investing in the securities of issuers in more developed and regulated economies.

#### Use of Leverage

The Fund may borrow money for investment purposes ("leverage") in amounts up to 50% of the cost of its non-U.S. Dollar denominated investments with leverage in the currency of the underlying non-U.S. Dollar investment. Leverage will magnify the volatility of the Fund's investment portfolio and involves substantial risks. Although leverage will increase investment returns if the leveraged portfolio investment earns a greater return than the Fund pays for the use of borrowed funds, investment returns will decrease if the portfolio investment fails to earn a return equal to the Fund's cost of funds. In addition, the use of leverage is expected to cause all or a portion of the income or gain from the leveraged investments to constitute UBTI. A separate parallel fund will be created to reduce UBTI arising from the use of leverage.



## Risk Factors (con't)

#### Potential Lack of Diversification

The Fund may invest up to 15% of Capital Commitments in any one portfolio company and its affiliates (25% including Bridge Investments). In the event that a Bridge Investment is not disposed of within 18 months of the date it is made, the Fund may have more that 15% of Capital Commitments invested (and held) in a Portfolio Company and its affiliates. Unfavorable performance by a small number of portfolio companies or by the energy sector could substantially adversely affect the aggregate returns realized by the Limited Partners, and the Fund's investment portfolios may be subject to more rapid change in value than would be the case if the Fund were required to maintain a wide diversification among companies, industries and types of securities.

#### Dependence on Key Personnel

The success of the Fund depends in substantial part on the skill and expertise of the senior executives of EIG and other employees of EIG. There can be no assurance that the senior executives or other employees of EIG will continue to be employed by the Manager throughout the life of the Fund. The loss of key personnel could have a material adverse effect on the Fund.

#### **Conflicts of Interest**

Investors should be aware that there will be situations where the General Partner, the Manager and their respective affiliates may encounter potential conflicts of interest in connection with the Fund's investment activities.

# **Portfolio Review** Alaska Retirement Management Board

Glenn R. Carlson, CFA *Chief Executive Officer* Juan J. Benito, CFA

Portfolio Manager

### December 3, 2010





# Alaska Retirement Management Board

Maximum 5% cash

As of October 31, 2010

BRANDES INVESTMENT PARTNERS

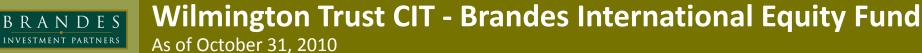
### Objectives

### **Client Specific Guidelines**

- International Equity Mandate (inception 8/11/97)
- Outperform, net of fees, MSCI EAFE index over time

Results <sup>*</sup>	Account Net of Fees %	MSCI EAFE Index %	Relative Perf. %
Calendar Year to Date:	5.42	4.72	0.70
1 Year:	8.99	8.36	0.63
3 Years:	-7.28	-9.60	2.32
5 Years:	5.04	3.31	1.73
10 Years:	6.65	3.17	3.48
From Inception:	9.59	3.76	5.83

\*All figures one year and above are annualized. All performance is historical and is not a guarantee of future results. Indices are unmanaged and are not available for direct investment. International and emerging markets investing is subject to certain risks such as currency fluctuation and social and political changes; such risks may result in greater share price volatility.



### Objectives Client S

- International Equity Mandate (inception 12/1/09)
- Outperform MSCI EAFE index over time a full business cycle of at least 3 to 5 years

## **Client Specific Guidelines**

- No securities whose issuer is in bankruptcy or similar proceeding at the time of purchase
- No private placements of unlisted securities (144A OK)

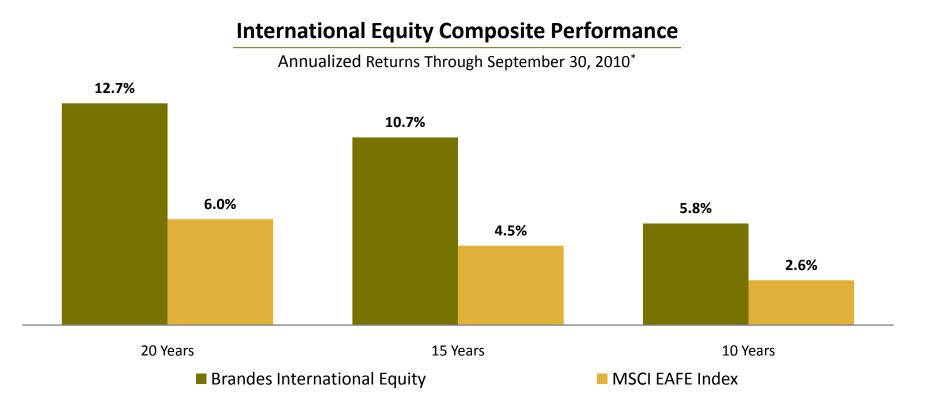
Results*	Account Net of Fees %	MSCI EAFE Index %	Relative Perf. %
Calendar Year to Date:	5.13	4.72	0.41
From Inception:	5.33	6.23	-0.90

\*All figures one year and above are annualized. All performance is historical and is not a guarantee of future results. Indices are unmanaged and are not available for direct investment. International and emerging markets investing is subject to certain risks such as currency fluctuation and social and political changes; such risks may result in greater share price volatility.



- Enhanced ARMB control: Immediate access to daily holdings and trades allowing for improved ARMB risk management
- Low investment management fees
- Low costs
- Daily pricing
- No securities lending risk
- Subadvised by Brandes Investment Partners, L.P.
- In-kind, seamless transition from mutual fund

# **BRANDES** What We Seek: Long-Term Performance



Annualized Returns	Sept. 1990 – Sept. 2000	Sept. 2000 – Sept. 2010
Brandes International Equity Composite	19.94%	5.80%
MSCI EAFE Index	9.63%	2.56%
Relative Performance	10.31%	3.24%

\*Compound annual total return - gross of management fees. See performance calculation disclosure page. This information is supplemental to the accompanying International Equity composite performance pages. Investing outside the United States is subject to certain risks, such as currency fluctuation and social and political changes, which may result in greater share price volatility. Past performance is not a guarantee of future results. FOR INSTITUTIONAL ONE-ON-ONE USE ONLY.

# International Equity Composite Performance

Rolling 3-Year Relative Returns through September 30, 2010

BRANDES INVESTMENT PARTNERS

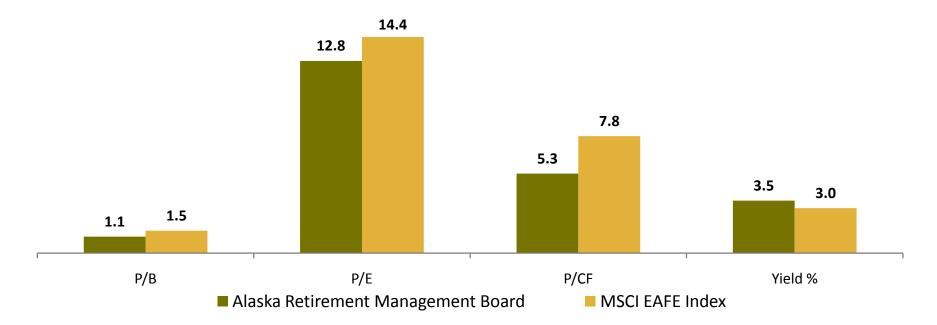


Relative Return vs. MSCI EAFE Index

Compound annual total return – net of management fees. See performance calculation disclosure page. Past performance is not a guarantee of future results. See performance calculation disclosure page. This information is supplemental to the accompanying International Equity composite performance pages. Investing outside the United States is subject to certain risks, such as currency fluctuation and social and political changes, which may result in greater share price volatility. Rolling periods represent a series of overlapping, smaller time periods within a single, longer-term time period. For example, over a 20-year period, there is one 20-year rolling periods, sixteen 5-year rolling periods, and so forth.



Fundamental Information as of October 31, 2010



Key Overweights	P/B	P/E	P/CF	Yield %
Diversified Telecommunication Services	1.2	12.1	3.3	6.0
Pharmaceuticals	1.6	12.1	8.7	4.9
Japan	0.9	15.6	4.5	2.8
MSCI EAFE Index	1.5	14.4	7.8	3.0

Portfolio allocations are subject to change at any time.

"I won't state that short-term quantitative performance data are totally useless. On the contrary, such data are often quite useful as an *inverse* indicator.

If I were looking for an outside money manager to manage my company's pension or profit sharing fund, I would go through a procedure something like the following:

- I would first look for an organization that had been around for awhile and that had produced good, long-term performance records with a variety of portfolios.
- I would make sure that the individuals in the organization were experienced and talented.
- I would determine that the good, long-term record was the result of a consistent application of a clear investment philosophy.
- I would satisfy myself that the organization provided an environment in which it was rewarding to work so that good people would stay.

Then, after I had identified the organizations that met all these specifications, I would hire the one who, for the past two years, had had the *worst* record. And I don't say this the slightest bit facetiously."

From "You Need More Than Numbers to Measure Performance" by Robert G. Kirby, former chairman of Capital Guardian Trust Co.

# **BRANDES** What We Can Control: Inputs

### **PHILOSOPHY: Exploiting Fear & Greed Behavioral Inefficiencies**

- A consistent application of a Graham & Dodd value approach to global investing that can complement other managers and investment styles.
- A long-term investment horizon with typically low portfolio turnover and moderate trading costs.

## PROCESS: Consistent, disciplined, collegial application of the philosophy

 A research process designed to identify companies that can be purchased at discounts to the firm's estimates of their intrinsic values and that we believe have the potential to deliver long-term outperformance.

### **PEOPLE:** Focus on research, portfolio management and client service, not on revenues

- A highly motivated professional team with low turnover.
- An employee-owned, debt-free investment manager with the resources and commitment to maintain stable operations in all market environments.



## **Overview** As of September 30, 2010

Year Firm Founded:	1974
Total Assets Under Management:	\$47.1 billion
Total Institutional/Private Client Assets (Non-SMA)*:	\$37.9 billion
Total SMA Division Assets**:	\$9.2 billion
Investment Style:	Graham & Dodd, bottom-up value
Headquarters Located:	San Diego, California
Total Employees Worldwide:	479
Investment Professionals:	79, including 36 equity & fixed income analysts
Ownership:	100% employee owned

### Products

United States	Global	International (Non-U.S.)	Fixed Income
U.S. Large Cap Value Equity	Global Balanced	Asia ex-Japan Equity***	Core Plus Fixed Income
U.S. Mid Cap Value Equity	Global Equity	Canadian Equity	Corporate Focus Fixed Income
U.S. Small Cap Value Equity	Global Mid Cap Equity	Emerging Markets Equity	Enhanced Income
U.S. Value Equity	Global Small Cap Equity	European Equity	
		International Equity	
		International Mid Cap Equity	
		International Small Cap Equity	
		Japan Equity	

\*Non-SMA assets include institutional accounts, pooled investment vehicles, and high net worth accounts outside of SMA ("wrap-fee") programs.

\*\*The SMA Division encompasses the firm's "Separately Managed Account" business (subadvisory "wrap-fee" business with brokerage firms).

\*\*\*Portfolio closed to new investors.

# B R A N D E S

# **Product Assets**

As of September 30, 2010

Global Equity	Non-SMA <sup>*</sup> (\$ Mill)	SMA** (\$ Mill)	United States	Non-SMA (\$ Mill)	SMA (\$ Mill)
Global Balanced	135	239	U.S. Large Cap Value Equity	8	0
Global Equity	12,134	4,289	U.S. Mid Cap Value Equity	3	0
Global Mid Cap Equity	373	114	U.S. Small Cap Value Equity	25	8
Global Small Cap Equity	185	0	U.S. Value Equity	139	516
International Equity (Non-U.S.)	Non-SMA (\$ Mill)	SMA (\$ Mill)	Fixed Income	Non-SMA (\$ Mill)	SMA (\$ Mill)
Asia ex-Japan***	14	0	Core Plus Fixed Income	256	184
Canadian Equity	55	0	Corporate Focus Fixed Income	68	0
Emerging Markets Equity	1,247	0	Enhanced Income	17	113
European Equity	519	23	Other Fixed Income	11	0
International Equity	21,291	3,685			
International Mid Cap Equity	177	0			
International Small Cap Equity	288	0			
Japan Equity	972	0			

\*Non-SMA assets include institutional accounts, pooled investment vehicles, and high net worth accounts outside of SMA ("wrap-fee") programs.

\*\*The SMA Division encompasses the firm's "Separately Managed Account" business (subadvisory "wrap-fee" business with brokerage firms).

\*\*\*Portfolio closed to new investors.

# BRANDES Your Portfolio Management Team



#### Glenn R. Carlson, CFA

#### Chief Executive Officer

Glenn, a limited partner of the firm's parent company, serves as Chief Executive Officer and is a member of the firm's Executive Committee. As an Executive Committee member, he contributes to strategic decisions and setting the firm's objectives. As CEO, he is responsible for managing the business toward those objectives. In addition, he contributes to the investment process as a member of the Investment Oversight Committee and as a voting member of the Large Cap Investment Committee. Glenn serves as a senior institutional portfolio manager for a limited number of client relationships and oversees the Portfolio Management/Client Services department. Glenn earned his BA from the University of California, San Diego. He is a member of the CFA Society of San Diego and has 27 years of investment experience.



#### Juan J. Benito, CFA Institutional Portfolio Manager

Juan is an institutional portfolio manager. Prior to joining Brandes, Juan served as a director and senior portfolio manager at Citigroup Asset Management in Switzerland and as a portfolio manager/research analyst at Templeton Investment Counsel. Previously, he worked as a strategy consultant at Monitor Company and as a regional manager at Iberdrola in Spain. He earned his BS/MS in industrial engineering, with highest honors, from the Polytechnical University of Valencia, Spain and his MBA, with distinction, from the Harvard Business School. Juan has 14 years of investment experience.

#### **Other Institutional Portfolio Management Members**

Rhonda Berger - Portfolio Manager	Michael Israel, CFA - Portfolio Manager
Charles H. Brandes, CFA - Chairman	Jeffrey Meyer, CFA - Director-Institutional Portfolio Management
Colleen Clardy - Portfolio Associate	Peter J. Nolan - Portfolio Manager
Scott Davis, CFA - Portfolio Manager	John Otis - Associate Portfolio Manager
Jim Diack - Director - EMEA Portfolio Management	Jennifer Ray - Senior Portfolio Associate
Nick Erickson, CFA – Senior Portfolio Associate	Leo Souza - Portfolio Associate
Patrick Feller, CFA – Portfolio Manager	lan Sunder, CFA - Portfolio Manager
Chris Garrett, CFA - Portfolio Manager/Analyst	Lawrence Taylor - Portfolio Manager
Emily Garcia - Senior Portfolio Associate	



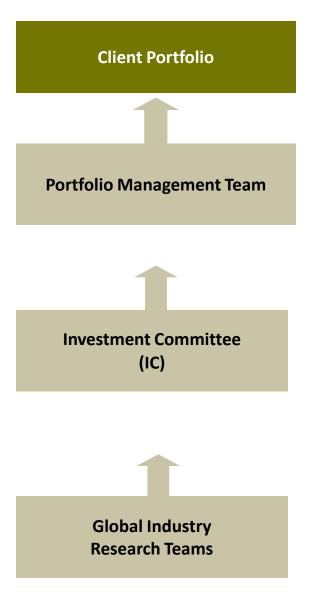
# **Application of the Brandes Equity Philosophy**

Philosophy	Application
Intrinsic business value estimate can be assessed through company specific fundamental analysis	<ul> <li>Conduct detailed company research</li> <li>Understand industry dynamics and long-term potential</li> <li>Focus on undervalued companies</li> <li>Bias for conservative capital structures</li> <li>Identify intrinsic value estimate: Our sell price</li> <li>Conservative business-like valuation</li> </ul>
Securities can be acquired at a discount to intrinsic value, due to volatility of short-term stock prices and market inefficiencies	<ul> <li>Buy at a discount to intrinsic value</li> <li>The discount gives us a "margin of safety"</li> <li>Take a long-term view (3-5 years)</li> <li>Look beyond short-term concerns</li> <li>Comfortable with averaging down</li> </ul>

**GOAL:** Seek to outperform the product benchmark over the long-term by building portfolios with high overall average margin of safety which we believe offer attractive long-term appreciation potential.

\*The margin of safety for any security is defined as the discount of its market price to what the firm believes is the current intrinsic value of that security. Diversification does not assure a profit or protect against a loss in a declining market

# BRANDES Equity Investment Process



- Diversified equity portfolios of under-valued businesses
  - 35-85 equity issues typically
  - No currency hedging

#### Implements Investment Committee decisions

- Reviews and monitors client portfolios
- Adheres to client restrictions and guidelines
- Establishes/updates individual companies' intrinsic value estimates
- Determines target holdings and weightings based on "margin of safety" (discount from our estimate of intrinsic value)
- Constructs model portfolios with goal of maximizing overall margin of safety
- Observes overall diversification guidelines, typically:
  - 5% maximum per security at time of purchase
  - 20% maximum per industry/country (or 150% of applicable benchmark weighting if higher) at time of purchase
- Cover industries on a global basis across all market caps
- Prepare company valuation reports and industry reports for the Investment Committee

# A security is typically sold when another security with a meaningfully higher margin of safety<sup>\*</sup> is identified and available.

- A partial or full sale may occur in order to buy other securities that we believe have a higher margin of safety.
- A full sale of a position often occurs when a security's price is close to its current intrinsic value estimate.
- A full or partial sale may occur if our assessment of intrinsic value declines, making the margin of safety unattractive.

## **Average Annual Portfolio Turnover Typically = 20-40%**

# **Portfolio Performance<sup>\*</sup> vs. Index**

As of October 31, 2010

B R A N D E S



Results <sup>*</sup>	Account %	MSCI EAFE Index %	Relative Perf. %
Calendar Year to Date:	5.72	4.72	1.00
1 Year:	9.41	8.36	1.05
3 Years:	-6.93	-9.60	2.67
5 Years:	5.44	3.31	2.13
10 Years:	7.07	3.17	3.90
From Inception:	10.00	3.76	6.24

\*Cumulative total return since inception - gross of management fees. All figures one year and above are annualized. All performance is historical and is not a guarantee of future results. Indices are unmanaged and are not available for direct investment. International and emerging markets investing is subject to certain risks such as currency fluctuation and social and political changes; such risks may result in greater share price volatility.



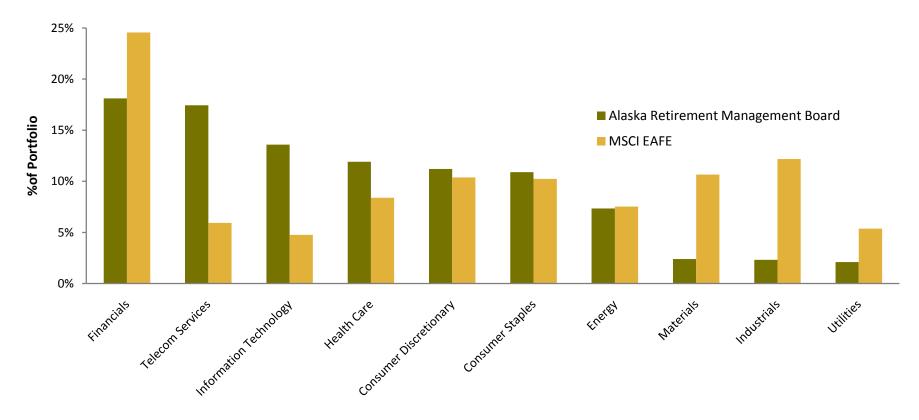
### **Positive Factors:**

- Japan (Takeda Pharmaceutical Co., Honda Motor, Canon, Sony, FUJIFILM)
- Diversified Telecom Services (Portugal Telecom, Nippon Tel & Tel Corp., France Telecom, Swisscom)
- Food & Staples Retailing (Carrefour, J Sainsbury, Seven & I Holdings, Wm. Morrison Supermarkets)

### **Negative Factors:**

- Large underweight in Industrials sector
- Netherlands (Akzo Nobel, Unilever, STMicroelectronics, TNT, Aegon)
- Emerging Markets (Cemex, Petrobras, Eletrobras, Tele Norte Leste, Korea Electric Power Corp.)

## BRANDES INVESTMENT PARTNERS AS OF October 31, 2010



Largest Sector Weighting Increases	10/31/10	10/31/09	Change
Energy	7.3%	1.4%	+5.9%
Financials	18.1%	17.9%	+0.2%

Largest Sector Weighting Decreases	10/31/10	10/31/09	Change
Materials	2.4%	5.3%	-2.9%
Industrials	2.3%	4.0%	-1.7%
Health Care	11.9%	13.0%	-1.1%

# Industry Exposure

As of October 31, 2010

BRANDES



Largest Industry Weighting Increases	10/31/10	10/31/09	Change
Oil, Gas & Consumable Fuels	7.3%	1.4%	+5.9%
Capital Markets	1.8%	0.0%	+1.8%
Food & Staples Retailing	7.7%	6.4%	+1.3%

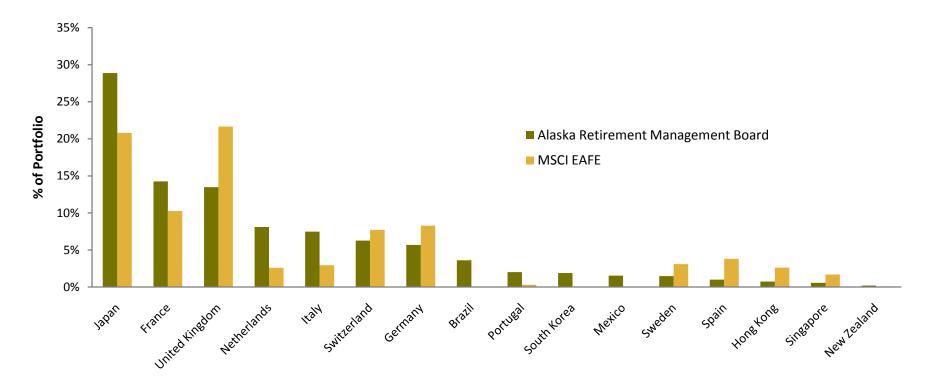
Largest Industry Weighting Decreases	10/31/10	10/31/09	Change
Chemicals	1.0%	3.8%	-2.8%
Commercial Banks	8.9%	10.7%	-1.8%
Household Products	0.0%	1.8%	-1.8%

Total number of industries in Portfolio: 28

No exposure to industries that represent 32% of benchmark

Portfolio allocations are subject to change at any time.

#### BRANDES INVESTMENT PARTNERS COUNTRY EXPOSURE As of October 31, 2010



Regional Weightings	10/31/10	10/31/09	Change
Asia/Pacific	32.3%	31.7%	+0.6%
Europe	59.9%	63.9%	-4.0%
North America	0.0%	0.4%	-0.4%
Latin America	5.2%	3.3%	+1.9%
Africa	0.0%	0.0%	0.0%

Market Weightings	10/31/10	10/31/09	Change
Developed Markets	90.3%	93.5%	-3.2%
Emerging Markets	7.0%	5.7%	+1.3%
Cash	2.7%	0.8%	+1.9%

Total number of countries in Portfolio: 17

• No exposure to countries that represent 14% of benchmark

7% exposure to countries not represented in benchmark

Portfolio allocations are subject to change at any time.



# **Summary of Portfolio Changes**

Trailing 12 Months through October 31, 2010

Company	Industry	Country
New Position(s)		
Banco do Brasil S.A.	Commercial Banks	Brazil
CRH Plc	Construction Materials	Ireland
Deutsche Bank AG	Capital Markets	Germany
Petroleo Brasileiro S.A.	Oil Gas & Consumable Fuels	Brazil
Total SA	Oil Gas & Consumable Fuels	France
UBS AG	Capital Markets	Switzerland
Vodafone Group Plc	Wireless Telecom Services	United Kingdom
Volkswagen AG	Automobiles	Germany
Complete Sale of Positions		
Aiful Corporation	Consumer Finance	Japan
BASF SE	Chemicals	Germany
Bayerische Motoren Werke	Automobiles	Germany
British Sky Broadcasting Group	Media	United Kingdom
Contax Participacoes	Commercial Services & Supplies	Brazil
Daimler AG	Automobiles	Germany
Henkel KGaA	Household Products	Germany
Hitachi, Ltd.	Elec. Equip., Instr. & Components	Japan
Holcim Ltd.	Construction Materials	Switzerland
KT Corporation	Diversified Telecom Services	South Korea



# **Summary of Portfolio Changes**

Trailing 12 Months through October 31, 2010

Company	Industry	Country
Complete Sale of Positions (Cont.)		
Next Plc	Multiline Retail	United Kingdom
Royal Bank of Scotland Plc	Commercial Banks	United Kingdom
Takefuji Corporation	Consumer Finance	Japan
Telmex International SAB de CV	Diversified Telecom Services	Mexico
TNT NV	Air Freight & Logistics	Netherlands
XL Group PLC	Insurance	Ireland



## **Top 10 Holdings** As of October 31, 2010

Company	%	Country	Industry
Telecom Italia	2.83	Italy	Diversified Telecom Services
France Telecom SA	2.78	France	Diversified Telecom Services
Deutsche Telekom AG	2.72	Germany	Diversified Telecom Services
Carrefour SA	2.71	France	Food & Staples Retailing
ENI S.p.A.	2.53	Italy	Oil, Gas & Consumable Fuels
Sanofi-Aventis SA	2.40	France	Pharmaceuticals
AstraZeneca Plc	2.35	United Kingdom	Pharmaceuticals
Nippon Tel & Tel Corp.	2.24	Japan	Diversified Telecom Services
Portugal Telecom	2.11	Portugal	Diversified Telecom Services
Total SA	2.01	France	Oil, Gas & Consumable Fuels
Top 10 as % of Portfolio	24.68		

**Total Number of Companies in Portfolio: 85** 

### **PORTFOLIO APPRAISAL**

QUANTITY	SECURITY		TOTAL COST	MARKET PRICE	MARKET VALUE	% OF ASSETS
	EQUITY					
	COMMON STOCKS:					
1,866,276	Aegon NV ORD	12.27	22,891,284.42	6.33	11,810,239.45	1.37
150,000	Akita Bank Ltd. ORD	4.93	739,700.51	2.82	422,594.55	0.05
140,900	Akzo Nobel ORD	47.56	6,701,455.21	59.28	8,352,599.34	0.97
3,642,130	Alcatel-Lucent ORD	7.54	27,446,266.52	3.50	12,764,103.90	1.48
306,900	Astellas Pharma Inc ORD	38.41	11,789,289.84	37.16	11,403,954.08	1.32
386,681	AstraZeneca Plc ORD	48.52	18,762,188.26	50.05	19,353,420.20	2.24
117,225	Banco do Brasil S.A. ORD	13.62	1,596,790.89	19.51	2,287,346.95	0.26
1,611,735	Barclays Plc ORD	5.66	9,127,977.30	4.39	7,078,220.82	0.82
1,181,480	BP Plc ORD	7.80	9,217,322.36	6.81	8,045,665.42	0.93
21,125	Brasil Telecom SA ADR	14.92	315,088.40	9.19	194,138.75	0.02
37,239	Brasil Telecom SA Pfd ADR	27.52	1,024,857.38	22.05	821,119.95	0.09
350,200	Canon, Inc. ORD	35.45	12,415,640.14	46.17	16,168,355.78	1.87
434,814	Carrefour SA ORD	48.33	21,016,687.91	53.89	23,431,555.98	2.71
1,243,298	Cemex SA Part. Cert. ADR	9.77	12,145,894.67	8.77	10,903,723.46	1.26
680,900	Centrais Eletricas Bras ADR	9.69	6,600,964.05	13.97	9,512,173.00	1.10
1,112,000	Chuo Mitsui Trust Hldgs Inc ORD	6.54	7,276,389.84	3.61	4,016,100.31	0.46
325,000	Credit Agricole SA ORD	17.98	5,844,021.69	16.36	5,317,825.50	0.61
86,159	CRH PLC ORD	16.92	1,457,998.73	17.10	1,473,235.15	0.17
767,000	Dai Nippon Printing ORD	13.22	10,140,946.15	12.61	9,671,544.79	1.12
502,400	Daiichi Sankyo Company, Ltd ORD	18.40	9,245,470.94	21.16	10,631,163.31	1.23
146,940	Deutsche Bank AG ORD	60.20	8,846,050.73	57.81	8,494,213.48	0.98
442,197	Deutsche Post AG ORD	10.80	4,774,518.00	18.66	8,249,353.07	0.95
1,624,665	Deutsche Telekom AG ORD	20.69	33,609,738.40	14.48	23,524,551.32	2.72
974,300	ENI S.p.A. ORD	22.49	21,909,137.43	22.50	21,919,435.06	2.53
1,170,874	Ericsson (L.M.) Telephone ORD	9.88	11,563,472.14	10.94	12,809,419.87	1.48
6,919,159	First Pacific Co., Ltd. ORD	0.94	6,499,821.42	0.92	6,399,737.73	0.74

### **PORTFOLIO APPRAISAL**

QUANTITY	SECURITY		TOTAL COST	MARKET PRICE	MARKET VALUE	% OF ASSETS
690,800	Flextronics Intl Ltd. ORD	6.82	4,714,226.37	7.17	4,953,036.00	0.57
1,003,623	France Telecom SA ORD	24.65	24,737,782.01	23.99	24,078,365.00	2.78
359,100	FUJIFILM Holdings Corp ORD	29.29	10,517,289.98	33.32	11,966,481.42	1.38
807,135	GlaxoSmithKline Plc ORD	24.53	19,798,152.64	19.53	15,761,290.78	1.82
481,100	Home Retail Group Plc ORD	4.09	1,967,583.15	3.50	1,685,036.87	0.19
378,200	Honda Motor Company ORD	27.81	10,516,500.05	36.45	13,785,808.67	1.59
405,813	HSBC Holdings PLC (GBP) ORD	9.30	3,772,671.45	10.38	4,212,767.60	0.49
2,239,041	Intesa Sanpaolo Spa ORD	4.37	9,773,575.89	3.51	7,863,991.15	0.91
8,774,700	ITV Plc ORD	1.13	9,922,168.47	1.09	9,577,780.29	1.11
1,752,800	J Sainsbury PLC ORD	5.66	9,920,817.13	6.23	10,913,064.08	1.26
3,713	Japan Tobacco ORD	2,829.18	10,504,757.44	3,106.47	11,534,335.36	1.33
2,350,100	Kingfisher Plc ORD	3.17	7,439,778.13	3.80	8,937,748.50	1.03
881,592	Koninklijke Ahold NV ORD	5.50	4,849,455.80	13.80	12,164,848.21	1.41
294,800	Korea Electric Power Corp ADR	11.52	3,395,441.55	13.21	3,894,308.00	0.45
181,800	Korea Electric Power Corp ORD	15.24	2,770,080.40	26.32	4,785,034.18	0.55
2,415,256	Marks & Spencer Group PLC ORD	5.64	13,618,230.80	6.84	16,509,260.67	1.91
1,735,000	Mitsubishi UFJ Financial Grp ORD	11.21	19,448,805.82	4.65	8,074,906.88	0.93
5,367,172	Mizuho Financial Group ORD	4.12	22,124,402.84	1.45	7,793,600.69	0.90
402,105	MS&AD Insurance Grp Hldg ORD	35.62	14,324,121.58	23.99	9,646,685.12	1.11
1,806,955	Natixis ORD	5.23	9,442,046.17	6.12	11,065,733.15	1.28
2,355,000	NEC Corporation ORD	4.03	9,488,076.88	2.78	6,547,050.72	0.76
402,300	Nippon Tel & Tel Corp (NTT) ORD	48.28	19,422,109.89	45.36	18,249,215.07	2.11
1,092,000	NKSJ Holdings Inc ORD	7.25	7,920,160.35	6.86	7,494,705.04	0.87
206,900	Ono Pharmaceutical Co. ORD	41.61	8,608,227.49	42.45	8,781,998.78	1.02
409,470	Petroleo Bras A Pref Shrs ADR	33.56	13,740,371.92	31.19	12,771,369.30	1.48
1,207,233	Portugal Telecom, SGPS, SA ORD	10.00	12,072,071.48	14.41	17,396,411.03	2.01
99,300	Renault ORD	103.07	10,234,937.96	55.48	5,509,142.15	0.64
206,100	Rohm Company Ltd ORD	75.00	15,456,648.25	62.30	12,840,693.64	1.48

### **PORTFOLIO APPRAISAL**

Brandes International Equity Portfolio as of 10/31/10 (Reporting Currency - USD)

QUANTITY	SECURITY		TOTAL COST	MARKET PRICE	MARKET VALUE	% OF ASSETS
291,937	Sanofi-Aventis SA ORD	82.13	23,977,387.20	69.73	20,356,804.38	2.35
427,600	Seven & I Holdings Co Ltd. ORD	24.53	10,490,151.43	23.25	9,939,905.36	1.15
415,660	SK Telecom Co. Ltd ADR	22.15	9,205,954.09	18.43	7,660,613.80	0.89
109,125	SNS Reaal ORD	22.22	2,424,269.03	4.61	503,445.13	0.06
352,700	Sony Corporation ORD	35.36	12,472,573.06	33.39	11,775,097.59	1.36
1,413,500	STMicroelectronics NV ORD	11.60	16,390,205.54	8.73	12,343,030.29	1.43
328,988	Sumitomo Mitsui Fin Gp ORD	57.51	18,919,332.05	29.94	9,848,365.00	1.14
356,621	Swiss Reinsurance Company ORD	54.58	19,464,476.90	48.06	17,138,064.07	1.98
32,600	Swisscom AG ORD	281.41	9,173,956.66	417.68	13,616,289.76	1.57
259,000	Taisho Pharmaceutical Co Ltd ORD	19.83	5,137,217.33	21.00	5,438,847.71	0.63
243,500	Takeda Pharma Co Ltd ORD	47.17	11,485,121.70	46.79	11,393,235.95	1.32
193,300	TDK Corporation ORD	54.61	10,555,463.58	57.03	11,023,617.75	1.27
157,323	Tele Norte Leste Part Pref ADR	17.40	2,737,336.25	15.34	2,413,334.82	0.28
1,148,516	Telecom Co. New Zealand Ltd. ORD	3.27	3,753,215.53	1.57	1,799,512.10	0.21
9,518,074	Telecom Italia Spa ORD	2.20	20,932,110.64	1.53	14,575,399.82	1.68
8,116,500	Telecom Italia Svings Shs ORD	1.42	11,560,360.83	1.22	9,925,245.79	1.15
320,552	Telefonica S.A. ORD	21.71	6,958,758.74	26.96	8,641,517.75	1.00
161,400	Telefonos de Mexico L Shrs ADR	9.43	1,521,951.30	15.48	2,498,472.00	0.29
38,105	TIM Participacoes Pref SA ADR	20.43	778,630.37	32.26	1,229,267.30	0.14
345,700	Tokio Marine Hldg Inc. ORD	30.86	10,667,962.25	28.15	9,730,814.76	1.12
382,063	Total SA ORD	55.68	21,272,198.51	54.26	20,729,566.21	2.40
325,000	Toyota Motor Corporation ORD	35.90	11,666,693.11	35.48	11,531,990.93	1.33
510,413	Tyco Electronics Ltd	18.98	9,686,073.01	31.68	16,169,883.84	1.87
428,321	UBS AG ORD	13.94	5,970,308.44	16.93	7,250,001.11	0.84
3,410,791	Unicredit SPA ORD	4.00	13,644,460.72	2.60	8,877,336.68	1.03
548,035	Unilever N.V. Ctfs. ORD	20.90	11,451,337.92	29.61	16,224,810.73	1.88
2,466,800	Unipol Gruppo Finanz SPA Pfd ORD	1.84	4,536,609.40	0.59	1,449,987.01	0.17
67,567	Vivo Participacoes S.A. Pfd ADR	17.04	1,151,525.31	28.64	1,935,118.88	0.22

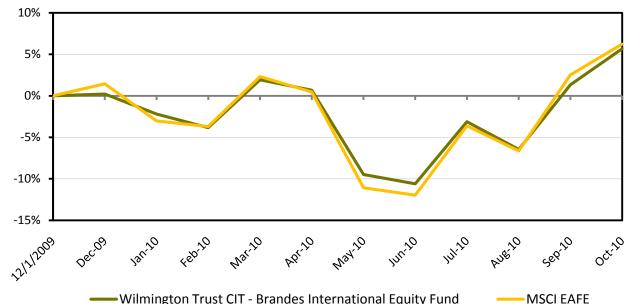
### **PORTFOLIO APPRAISAL**

QUANTITY	SECURITY	UNIT COST	TOTAL COST	MARKET PRICE	MARKET VALUE	% OF ASSETS
875,000	Vodafone Group PLC ORD	2.05	1,789,382.70	2.72	2,376,859.67	0.27
59,606	Volkswagen AG Pfd ORD	86.84	5,176,012.73	150.77	8,986,891.99	1.04
2,137,300	Wm. Morrison Supermkts Plc ORD	3.42	7,301,560.99	4.70	10,042,624.27	1.16
81,644	Wolseley PLC ORD	9.28	757,994.49	26.60	2,171,433.13	0.25
381,728	Wolters Kluwer NV ORD	20.11	7,675,527.35	22.71	8,670,192.64	1.00
	Total Common Stocks		904,145,584.38		842,118,037.79	97.33
	 Total Equity		904,145,584.38		842,118,037.79	97.33
	CASH					
	Cash		23,098,441.56		23,098,441.56	2.67
	Total Portfolio		927,244,025.94		865,216,479.35	100
	Accrued Income				5,867,161.00	
	Total Portfolio including Accruals				871,083,640.35	

# **Portfolio Performance<sup>\*</sup> vs. Index**

As of October 31, 2010

BRANDES INVESTMENT PARTNERS



Wilmington Trust CIT - Brandes International Equity Fund

Results <sup>*</sup>	Account %	MSCI EAFE Index %	Relative Perf. %
Calendar Year to Date:	5.45	4.72	0.73
From Inception:	5.68	6.23	-0.55

et Capital Contributed: nce Inception) 61,049,596 ccount Value: \$169,780,793

**Inception Date:** 12/1/09

\*Cumulative total return since inception - gross of management fees. All figures one year and above are annualized. All performance is historical and is not a guarantee of future results. Indices are unmanaged and are not available for direct investment. International and emerging markets investing is subject to certain risks such as currency fluctuation and social and political changes; such risks may result in greater share price volatility.



### **Positive Factors:**

- Japan (Takeda Pharmaceutical Co., Canon, Taisho Pharmaceutical, Sony, Hitachi)
- Diversified Telecom Services (Nippon Tel & Tel Corp., Portugal Telecom, France Telecom, Deutsche Telekom)
- Food & Staples Retailing (Carrefour, J Sainsbury, Seven & I Holdings, Wm. Morrison Supermarkets)

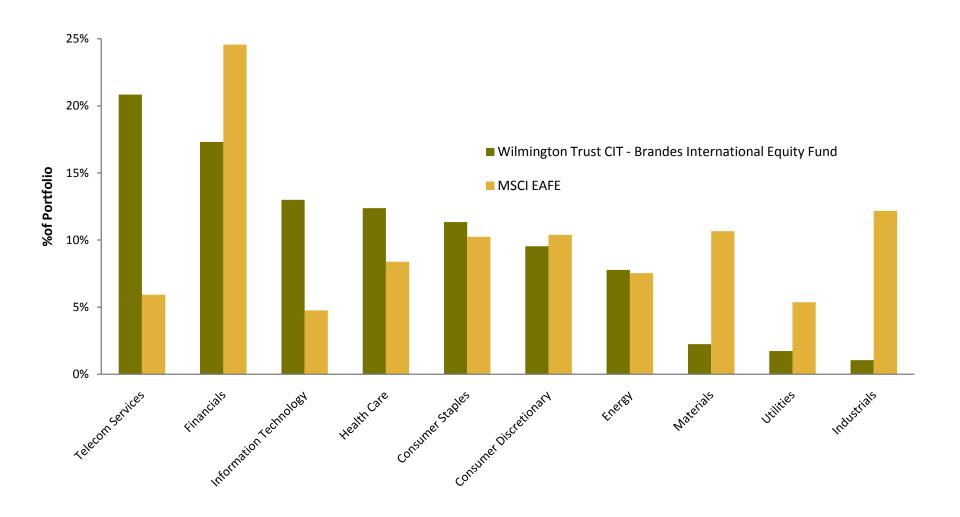
### **Negative Factors:**

- Large underweight in Industrials sector
- Netherlands (Akzo Nobel, Unilever, Aegon, STMicroelectronics, SNS Reaal)
- Emerging Markets (Cemex, Korea Electric Power Corp., Eletrobras, Tele Norte Leste)

# Sector Exposure

As of October 31, 2010

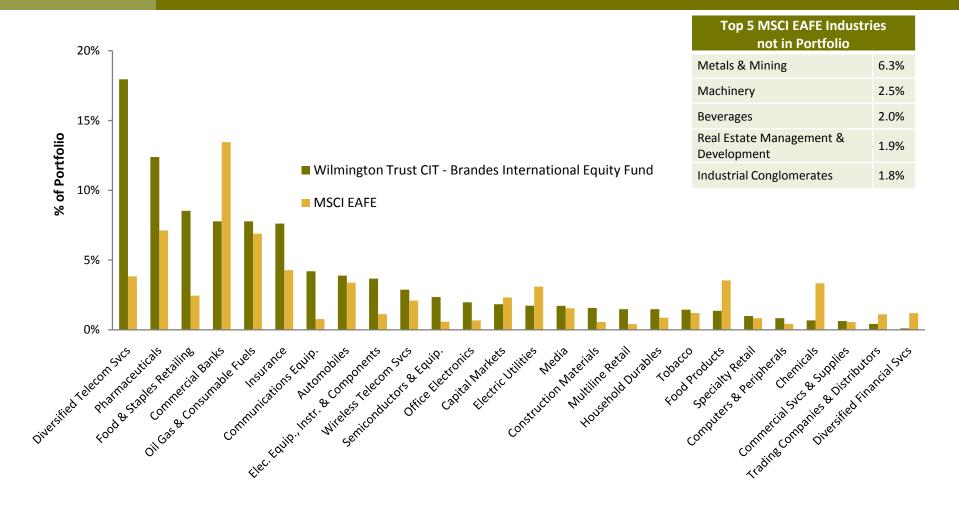
BRANDES INVESTMENT PARTNERS



# Industry Exposure

As of October 31, 2010

BRANDES INVESTMENT PARTNERS



Total number of industries in Portfolio: 26

No exposure to industries that represent 32% of benchmark

#### BRANDES INVESTMENT PARTNERS COUNTRY EXPOSURE As of October 31, 2010



Regional Weightings	10/31/10
Asia/Pacific	32.7%
Europe	59.3%
North America	0.0%
Latin America	5.3%
Africa	0.0%

Market Weightings	10/31/10
Developed Markets	90.3%
Emerging Markets	6.9%
Cash	2.8%

Total number of countries in Portfolio: 16

No exposure to countries that represent 16% of benchmark

7% exposure to countries not represented in benchmark

Portfolio allocations are subject to change at any time.



## **Top 10 Holdings** As of October 31, 2010

Company	%	Country	Industry
Telecom Italia	3.22	Italy	Diversified Telecom Services
Nippon Tel & Tel Corp.	3.00	Japan	Diversified Telecom Services
Deutsche Telekom AG	2.87	Germany	Diversified Telecom Services
France Telecom SA	2.77	France	Diversified Telecom Services
Carrefour SA	2.61	France	Food & Staples Retailing
ENI S.p.A.	2.58	Italy	Oil, Gas & Consumable Fuels
Total SA	2.55	France	Oil, Gas & Consumable Fuels
Sanofi-Aventis SA	2.14	France	Pharmaceuticals
AstraZeneca Plc	2.13	United Kingdom	Pharmaceuticals
Portugal Telecom	2.09	Portugal	Diversified Telecom Services
Top 10 as % of Portfolio	25.96		

**Total Number of Companies in Portfolio: 83** 

### **PORTFOLIO APPRAISAL**

QUANTITY	SECURITY		TOTAL COST	MARKET PRICE	MARKET VALUE	% OF ASSETS
	EQUITY					
	COMMON STOCKS:					
361,900	Aegon NV ORD	7.18	2,600,009.03	6.33	2,290,189.48	1.36
65,000	Akita Bank Ltd. ORD	4.09	265,568.16	2.82	183,124.31	0.11
19,300	Akzo Nobel ORD	63.38	1,223,210.53	59.28	1,144,110.48	0.68
600,200	Alcatel-Lucent ORD	3.36	2,016,846.66	3.50	2,103,443.63	1.25
72,800	Astellas Pharma Inc ORD	37.03	2,695,516.82	37.16	2,705,141.28	1.60
71,900	AstraZeneca Plc ORD	44.60	3,206,786.16	50.05	3,598,601.72	2.13
363,100	Barclays Plc ORD	4.80	1,742,532.15	4.39	1,594,618.21	0.95
254,350	BP Plc ORD	9.43	2,399,102.71	6.81	1,732,077.56	1.03
3,310	Brasil Telecom SA ADR	15.85	52,463.50	9.19	30,418.90	0.02
5,830	Brasil Telecom SA Pfd ADR	30.03	175,074.90	22.05	128,551.50	0.08
71,900	Canon, Inc. ORD	38.65	2,779,029.19	46.17	3,319,545.35	1.97
81,700	Carrefour SA ORD	48.50	3,962,315.36	53.89	4,402,705.81	2.61
243,684	Cemex SA Part. Cert. ADR	10.58	2,578,718.36	8.77	2,137,108.68	1.27
105,900	Centrais Eletricas Bras ADR	17.17	1,818,303.00	13.97	1,479,423.00	0.88
206,000	Chuo Mitsui Trust Hldgs Inc ORD	3.53	726,876.77	3.61	743,989.81	0.44
58,600	Credit Agricole SA ORD	20.68	1,211,908.01	16.36	958,844.84	0.57
84,300	Dai Nippon Printing ORD	12.38	1,044,027.60	12.61	1,062,987.26	0.63
93,500	Daiichi Sankyo Company, Ltd ORD	19.65	1,837,335.87	21.16	1,978,530.59	1.17
31,050	Deutsche Bank AG ORD	60.11	1,866,460.80	57.81	1,794,918.53	1.06
334,600	Deutsche Telekom AG ORD	14.81	4,953,884.16	14.48	4,844,884.87	2.87
193,200	ENI S.p.A. ORD	22.99	4,440,935.49	22.50	4,346,540.96	2.58
228,700	Ericsson (L.M.) Telephone ORD	9.60	2,194,698.97	10.94	2,501,989.39	1.48
97,900	Flextronics Intl Ltd. ORD	7.07	692,153.00	7.17	701,943.00	0.42
194,800	France Telecom SA ORD	23.83	4,641,487.32	23.99	4,673,533.29	2.77
63,100	FUJIFILM Holdings Corp ORD	27.33	1,724,806.01	33.32	2,102,715.06	1.25
163,800	GlaxoSmithKline Plc ORD	20.63	3,379,875.08	19.53	3,198,596.80	1.90

### **PORTFOLIO APPRAISAL**

QUANTITY	SECURITY	UNIT COST	TOTAL COST	MARKET PRICE	MARKET VALUE	% OF ASSETS
22,000	Honda Motor Company ORD	30.32	667,107.03	36.45	801,924.35	0.48
436,200	Intesa Sanpaolo Spa ORD	4.33	1,888,662.25	3.51	1,532,027.75	0.40
104,300	Italcementi Spa Savings Shs ORD	7.05	734,924.50	4.82	502,925.42	0.30
1,155,300	ITV Plc ORD	0.85	987,113.73	1.09	1,261,035.66	0.75
413,000	J Sainsbury PLC ORD	5.31	2,193,609.73	6.23	2,571,368.93	1.52
784	Japan Tobacco ORD	3,050.73	2,391,769.34	3,106.47	2,435,475.07	1.44
435,300	Kingfisher Plc ORD	3.89	1,694,941.97	3.80	1,655,504.84	0.98
191,400	Koninklijke Ahold NV ORD	13.48	2,579,245.73	13.80	2,641,076.54	1.57
109,500	Korea Electric Power Corp ADR	13.72	1,502,340.00	13.21	1,446,495.00	0.86
365,200	Marks & Spencer Group PLC ORD	6.33	2,313,433.53	6.84	2,496,291.07	1.48
412,600	Mitsubishi UFJ Financial Grp ORD	5.59	2,308,321.23	4.65	1,920,291.98	1.14
1,127,997	Mizuho Financial Group ORD	1.80	2,031,819.22	1.45	1,637,949.78	0.97
87,500	MS&AD Insurance Grp Hldg ORD	26.35	2,305,440.38	23.99	2,099,165.51	1.24
195,800	Natixis ORD	5.33	1,043,191.07	6.12	1,199,072.78	0.71
504,000	NEC Corporation ORD	2.53	1,275,284.30	2.78	1,401,152.26	0.83
111,500	Nippon Tel & Tel Corp (NTT) ORD	43.53	4,853,176.88	45.36	5,057,885.86	3.00
80,000	Nissan Motor Co., Ltd. ORD	7.27	581,278.56	8.81	704,944.80	0.42
278,000	NKSJ Holdings Inc ORD	6.30	1,752,044.04	6.86	1,907,992.67	1.13
228,500	Nokia Oyj ORD	13.06	2,985,335.29	10.78	2,463,983.14	1.46
49,700	Ono Pharmaceutical Co. ORD	46.31	2,301,702.92	42.45	2,109,547.31	1.25
87,720	Petroleo Bras A Pref Shrs ADR	30.57	2,681,905.60	31.19	2,735,986.80	1.62
244,443	Portugal Telecom, SGPS, SA ORD	12.08	2,953,590.34	14.41	3,522,460.79	2.09
23,600	Renault ORD	48.33	1,140,487.94	55.48	1,309,322.81	0.78
29,300	Rohm Company Ltd ORD	65.93	1,931,683.37	62.30	1,825,484.35	1.08
23,000	San-In Godo Bank, Ltd. ORD	9.01	207,161.74	6.91	158,997.32	0.09
51,700	Sanofi-Aventis SA ORD	73.20	3,784,624.22	69.73	3,605,047.62	2.14
100,000	Seven & I Holdings Co Ltd. ORD	22.44	2,243,633.10	23.25	2,324,580.30	1.38
68,900	SK Telecom Co. Ltd ADR	16.57	1,141,673.00	18.43	1,269,827.00	0.75

### **PORTFOLIO APPRAISAL**

QUANTITY	SECURITY		TOTAL COST	MARKET PRICE	MARKET VALUE	% OF ASSETS
34,900	SNS Reaal ORD	7.09	247,485.67	4.61	161,010.17	0.10
74,500	Sony Corporation ORD	26.99	2,010,477.49	33.39	2,487,226.46	1.47
244,900	STMicroelectronics NV ORD	8.03	1,966,003.08	8.73	2,138,527.14	1.27
69,430	Sumitomo Mitsui Fin Gp ORD	32.37	2,247,111.41	29.94	2,078,410.10	1.23
72,400	Swiss Reinsurance Company ORD	46.00	3,330,328.81	48.06	3,479,312.32	2.06
5,700	Swisscom AG ORD	388.67	2,215,437.47	417.68	2,380,762.32	1.41
70,819	Taisho Pharmaceutical Co Ltd ORD	18.10	1,281,684.14	21.00	1,487,157.36	0.88
47,200	Takeda Pharma Co Ltd ORD	41.79	1,972,261.44	46.79	2,208,462.98	1.31
21,700	TDK Corporation ORD	52.35	1,135,942.27	57.03	1,237,519.43	0.73
22,900	Tele Norte Leste Part Pref ADR	21.76	498,304.00	15.34	351,286.00	0.21
322,743	Telecom Co. New Zealand Ltd. ORD	1.75	565,825.71	1.57	505,678.57	0.30
1,848,200	Telecom Italia Spa ORD	1.60	2,956,848.31	1.53	2,830,221.11	1.68
2,127,200	Telecom Italia Svings Shs ORD	1.12	2,391,456.42	1.22	2,601,242.27	1.54
62,600	Telefonica S.A. ORD	28.70	1,796,325.53	26.96	1,687,585.82	1.00
109,000	Telefonos de Mexico L Shrs ADR	17.01	1,854,295.76	15.48	1,687,320.00	1.00
48,700	The 77 Bank, Ltd. ORD	6.15	299,588.28	4.72	229,677.97	0.14
4,400	TIM Participacoes Pref SA ADR	27.00	118,800.00	32.26	141,944.00	0.08
91,700	Tokio Marine Hldg Inc. ORD	28.84	2,644,939.32	28.15	2,581,185.17	1.53
79,384	Total SA ORD	53.69	4,262,369.28	54.26	4,307,132.29	2.55
68,100	Toyota Motor Corporation ORD	37.96	2,584,798.19	35.48	2,416,395.64	1.43
67,500	Tyco Electronics Ltd	23.05	1,555,875.00	31.68	2,138,400.00	1.27
76,077	UBS AG ORD	14.44	1,098,400.97	16.93	1,287,721.91	0.76
340,515	Unicredit SPA ORD	3.26	1,109,644.62	2.60	886,265.47	0.53
77,800	Unilever N.V. Ctfs. ORD	30.62	2,382,533.51	29.61	2,303,302.30	1.37
831,200	Unipol Gruppo Finanz SPA Pfd ORD	0.88	732,885.66	0.59	488,580.02	0.29
7,900	Vivo Participacoes S.A. Pfd ADR	30.50	240,950.00	28.64	226,256.00	0.13
1,186,000	Vodafone Group PLC ORD	2.25	2,669,153.48	2.72	3,221,663.51	1.91
8,766	Volkswagen AG Pfd ORD	87.18	764,202.35	150.77	1,321,663.85	0.78

### **PORTFOLIO APPRAISAL**

QUANTITY	SECURITY	UNIT COST	TOTAL COST	MARKET PRICE	MARKET VALUE	% OF ASSETS
520,700	Wm. Morrison Supermkts Plc ORD	4.52	2,353,126.61	4.70	2,446,635.69	1.45
26,900	Wolseley PLC ORD	19.04	512,226.14	26.60	715,442.06	0.42
72,000	Wolters Kluwer NV ORD	21.68	1,561,121.27	22.71	1,635,336.86	0.97
	Total Common Stocks		162,065,828.81		164,025,676.81	97.22
	Total Equity		162,065,828.81		164,025,676.81	97.22
	CASH					
	Cash		4,695,290.24		4,695,290.24	2.78
	Total Portfolio		166,761,119.05		168,720,967.05	100
	Accrued Income				1,059,826.13	
	Total Portfolio including Accruals				169,780,793.18	



- A consistent application of a Graham & Dodd value approach to global investing that can complement other managers and investment styles.
- A long-term investment horizon with typically low portfolio turnover and moderate trading costs.
- A research process designed to identify companies that can be purchased at discounts to the firm's estimates of their intrinsic values and that have the potential to deliver long-term outperformance.
- An employee-owned, debt-free investment manager with the resources and commitment to maintain stable operations in all market environments.
- A highly motivated professional team with low turnover.
- A corporate philosophy that places priority on client needs.

## International Equity

11988 El Camino Real | Suite 500 | P.O. Box 919048 | San Diego, CA 92191-9048 | 858.755.0239 | 800.237.7119 | Fax 858.755.0916 | info@brandes.com | www.brandes.com

	Through September 30, 20	010   Re	porting Curre	ency: USD			
	Annualized	Performan	ce (Net)*				
	<u>1 Year</u>	3 Years	5 Years	7 Years	10 Years	15 Years	20 Years
International Equity	0.40 %	-8.85 %	2.00 %	8.36 %	5.19 %	10.02 %	11.86 %
Primary Benchmark (a)	3.27 %	-9.51 %	1.97 %	7.81 %	2.56 %	4.53 %	6.04 %
Relative Performance	-2.87 %	0.66 %	0.03 %	0.55 %	2.63 %	5.49 %	5.82 %

#### Annual Periods (Net)\*

	YTD	2009	2008	2007	2006	2005	2004	2003	2002	2001	2000	<u>1999</u>	1998	1997	1996	1995	1994	<u>1993</u>	1992	<u>1991</u>	1990
International Equity	0.51	22.14	-37.53	8.01	28.35	10.96	25.08	50.26	-16.67	-14.14	2.92	53.67	15.03	20.05	16.34	13.75	-2.98	40.86	6.28	40.17	-1.31
Primary Benchmark (a)	1.07	31.78	-43.38	11.17	26.34	13,54	20.25	38.59	-15.94	-21.44	-14.17	26.96	20.00	1.78	6.05	11.21	7.78	32.56	-12.17	12.13	-12.90

#### Quarterly Performance (Net And Gross)\*

Primary							
Benchmark(a)	YTD	4Q	3Q	2Q	1Q		Year
1.07	0.51		13.21	-12.24	1.16	NET	2010
	0.95	-	13.37	-12.11	1.31	GROSS	
31.78	22.14	-0.11	16.74	24.14	-15.63	NET	2009
	22.86	0.03	16.91	24.32	-15.50	GROSS	
-43.38	-37.53	-16.41	-13.68	-1.09	-12.47	NET	2008
	-37.15	-16.28	-13.55	-0.94	-12.34	GROSS	
11.17	8.01	-1.25	-0.40	4.84	4.74	NET	2007
	8.64	-1.11	-0.26	4.99	4.90	GROSS	
26.34	28.35	10.11	5.38	0.72	9.83	NET	2006
	29.01	10.26	5.52	0.86	9.95	GROSS	
13.54	10.96	3.83	10.44	-1.85	-1.40	NET	2005
	11.55	4.05	10.53	-1.74	-1.29	GROSS	
20.25	25.08	16.23	-0.97	1.13	7.46	NET	2004
	25.80	16.40	-0.84	1.27	7.62	GROSS	
38.59	50.26	18.91	12.17	26.80	-11.15	NET	2003
	51.07	19.02	12.33	26.96	-11.00	GROSS	
-15.94	-16.67	7.59	-21.65	-4.80	3.84	NET	2002
	-16.17	7.72	-21,51	-4.63	3.97	GROSS	
-21.44	-14.14	9.87	-14.80	1.72	-9.83	NET	2001
	-13.59	10.02	-14.65	1.87	-9.66	GROSS	
-14.17	2.92	4.55	-3.78	6.92	-4.32	NET	2000
	3.61	4.73	-3.61	7.06	-4.14	GROSS	

Primary							
Benchmark(a)	YTD	4Q	3Q	2Q	1Q		Year
26.96	53.67	24.27	1.46	12.16	8.66	NET	1999
	54.58	24.33	1.65	12.36	8.85	GROSS	
20.00	15.03	19.54	-14.76	-3.82	17.37	NET	1998
	15.90	19.76	-14.60	-3.62	17.58	GROSS	
1.78	20.05	-4.46	5.80	11.99	6.05	NET	1997
	20.91	-4.32	5.91	12.24	6.31	GROSS	
6.05	16.34	8.76	1.32	4.54	0.99	NET	1996
	17.24	8.81	1.56	4.78	1.25	GROSS	
11.21	13.75	3.92	3.45	6.03	-0.21	NET	1995
	14.84	4.14	3.70	6.27	0.06	GROSS	
7.78	-2.98	-4.57	7.28	-2.53	-2.77	NET	1994
	-1.96	-4.35	7.56	-2.26	-2.50	GROSS	
32.56	40.86	13.60	10.27	4.68	7.42	NET	1993
	41.96	13.63	10.54	4.95	7.69	GROSS	
-12.17	6.28	-0.07	-3.41	6.65	3.24	NET	1992
	7.44	0.17	-3.14	6.95	3.54	GROSS	
12.13	40.17	9.94	11.66	2.15	11.78	NET	1991
	41.34	10.16	11.89	2.38	12.01	GROSS	
-12.90	-1.31	0.75	-2.04			NET	1990
	-0.74	1.02	-1.74			GROSS	

#### **Composite Characteristics**

#	Accts	Assets (mil)	Disper- sion (2)	% of non-fee paying assets	Total Firm Assets (mil)(1)
	1,413	14,284			37,916
	1,604	16,785	1.91	<1	42,152
1	1,765	15,038	1.24	<1	40,591
	2,020	29,222	1.03	<1	83,242
1	2,172	30,154	1.06	<1	85,974
1	2,233	26,404	0.87	<1	101,874
	2,392	26,113	1.38	<1	98,078
	2,757	21,934	2.13	<1	75,789
1	3,166	15,826	1.73	<1	51,808
3	3,970	16,715	1.30	<1	61,996
	4,660	16,884	2.03	<1	50,852
	5,161	14,103	3.12	<1	41,538
	5,617	7,774	4.13	<1	25,125
	5,421	4,923	2.48	<1	15,624
	4,997	3,792	2.27	<1	8,935
- 3	4,117	2,065	2.01	<1	5,698
	3,482	1,219	2.28	<1	3,857
	1,624	578	4.97	<1	2,100
	462	131	3.03	<1	524
15.	110	24	5.09	<1	213
0.111	38	6	N/A	<1	130

(1) As of January 1, 2006, "Total Firm Assets" do not include SMA Division assets.

(2) The measure of dispersion is the asset-weighted standard deviation for annual periods. No measure is displayed when there are five or fewer portfolios in the composite for an entire annual period. As such, measure may not be meaningful.

\* The net and gross quarterly and annual returns, calculated in USD, presented for the Brandes International Equity composite were calculated on a time-weighted and asset-weighted, total return basis, including reinvestment of all dividends, interest and income, realized and unrealized gains or losses and are net of brokerage commissions, execution costs, and any applicable foreign withholding taxes, without provision for federal and state income taxes, if any. As of 4/1/2006 all custodial fees are treated as administrative fees.

In June 2002, Brandes Investment Partners, L.P. changed its organizational structure from a limited partnership to a limited liability corporation formed under the name Brandes Investment Partners, LLC became a Delaware limited partnership with the name Brandes Investment Partners, L.P. Brandes Investment Partners, L.P. is a registered, independent investment management firm. As of January 1, 2006, Brandes Investment Partners was divided into two separate divisions: the SMA Division of Brandes Investment Partners, which acts as a discretionary manager to SMA or "wrap fee" program clients, including those who may invest in an SMA product; and the non-SMA Division of Brandes Investment Partners, which acts as a discretionary manager for all other types of clients which may include pooled investment vehicles, institutional accounts and high net worth clients outside of wrap fee programs. Although the divisions enves a particular target market, may trade in a different manner and may offer investment advice which differs from the

other depending upon the individualized needs of the clients served. The performance data presented does not contain any SMA Division accounts.

Prior to 1/1/2002 cash flows were weighted using a mid-month assumption, beginning 1/1/2002 cash flows are weighted on a daily basis.

74 This composite was created in 1990.

Securities transactions are accounted for on the trade date. Dividend and interest income is accounted for on an accrual basis. Cash and cash equivalents are included in performance returns. Accounts are removed from the composite when an account's market value falls below US\$50,000 due to capital withdrawals.

The Brandes International Equity composite results include all actual, fee-paying and non-fee-paying, fully discretionary International Equity accounts under management by Brandes Investment Partners after one full calendar month beginning 6/30/1990 (except for the Brandes International Equity pooled account which was fully invested at its inception), that have substantially the same investment objectives, policies, techniques and restrictions.

Brandes' investment advisory fees are detailed in Part II of its Form ADV.

The gross returns do not give effect to investment advisory fees, which would reduce such returns. Investment management fees and any other expenses that may be incurred in the management of the account will reduce actual returns. When fees are deducted quarterly total portfolio performance will be reduced at a compounded rate. Beginning January 1, 2007, composite performance after management fee returns are determined by reducing the gross of fee returns monthly by the highest applicable fee schedule per account.

The weighted annualized management fee during the period 6/30/1990 through 12/31/2009 was 0.72% per year.

25 Brandes has been verified for the annual periods 1995 through 2009 by Ernst & Young, LLP. A copy of the verification reports, a complete list and description of Brandes' composites and additional

24 information regarding policies for calculating and reporting returns are available upon request. Brandes has prepared and presented this report in compliance with the Global Investment Performance. 5 Standards (GIPS<sup>TM</sup>).

The results for individual accounts and for different periods may vary. Investors should not rely on prior performance results as a reliable indication of future results. Market conditions may impact performance. The performance results presented were achieved in particular market conditions which may not be repeated. Moreover, the current market volatility and uncertain regulatory

environment may have a negative impact on future performance.

(a) The MSCI EAFE (Europe, Australasia, Far East) Index with net dividends is an unmanaged, free float-adjusted market capitalization weighted index designed to measure equity market performance of developed markets, excluding the United States and Canada. This index often is used as a benchmark for international equity portfolios and includes dividends and distributions net of withholding taxes, but does not reflect fees, brokerage commissions, or other expenses of investing.

Please note that all indices are unmanaged and are not available for direct investment.

Effective 6/1/10, the International Equity Portfolio (IN) opened to new investors and to contributions from existing clients. Effective 6/30/08, IN opened for contributions from existing IN clients. Effective 6/30/05, IN closed to contributions from existing clients. Effective 6/30/02, IN closed to contributions from existing clients (with some limited exceptions) and on 9/30/98, closed to new investors.

Brandes Investment Partners® is a registered trademark of Brandes Investment Partners, L.P. in the United States and Canada.

# Glossary of Terms - page one

ABS: (asset-backed security) - Bonds backed by financial assets; typically these assets consist of other than mortgage loans (e.g. credit card receivables, auto loans, home-equity loans, etc.).

ADR: American Depositary Receipt – a negotiable receipt for the shares of a foreign-based corporation held in trust by a financial institution that entitles the shareholder to all dividends and capital gains and is traded in the United States.

ADS: American Depositary Share – a share issued under a deposit agreement representing the underlying ordinary share which trades in the issuer's home market.

Alpha: A portfolio's alpha measures the difference between its actual returns and its expected returns given its risk level as measured by its beta. A positive alpha indicates the portfolio has performed better than its beta would predict, while a negative alpha indicates a portfolio has underperformed given the expectations established by its beta.

Annualized Return: Rate of return of the account smoothed as though the return occurred equally over 12month periods. When the specified time frame is less than a year, the rate of return is projected as though the same performance continues to occur for a 12-month period. See Rate of Return.

Averages: PRICE/ BOOK, PRICE/ EARN and PRICE/ CF averages are asset-weighted harmonic averages; MARKET CAP, LT DEBT/ EQUITY and YLD averages are asset-weighted arithmetic averages; ROE averages are calculated as the ratio of PRICE/ BOOK average to PRICE/ EARN average.

Barclays Capital U.S. Aggregate Index - LBAGGBX: The Barclays Capital U.S. Aggregate Index is an unmanaged index consisting of U.S. dollar-denominated, fixed-rate, faxable bonds. The Index includes bonds from the Treasury, Government-Related, Corporate, Mortgage-Backed Securities (agency fixed-rate and hybrid adjustable-rate mortgage pass-throughs), Asset-Backed Securities and Commercial Mortgage-Backed Securities sectors. Securities must be rated investment grade (Baa3/BBB-/BBB- or above) by Moody's, S&P, and Fitch, respectively. When all three agencies rate an issue, a median or "two out of three" rating is used to determine Index eligibility by dropping the highest and lowest rating. When a rating from only two agencies is available, the lower ("most conservative") of the two is used. When a rating from only one agency is available, that rating is used to determine Index eligibility. The index is a total return index which reflects the price changes and interest of each bond in the index.

Barclays Capital U.S. Intermediate Credit Index - LBINTCRED: The Barclays Capital U.S. Intermediate Credit Index is an unmanaged index consisting of U.S. dollar-denominated, publicly issued, fixed-rate corporate securities. Issues must have at least \$250 million par amount outstanding and have a maturity from one up to (but not including) ten years. Securities must be rated investment grade (Baa3/BBB-/BBB- or above) by Moody's, S&P, and Fitch, respectively. When all three agencies rate an issue, a median or "two out of three" rating is used to determine Index eligibility by dropping the highest and lowest rating. When a rating from only two agencies is available, the lower ("most conservative") of the two is used. When a rating from only one agency is available, that rating is used to determine Index eligibility. The index is a total return index which reflects the price changes and interest of each bond in the index.

Barclays Capital U.S. Intermediate Government/Credit Index - LBINTGCX: The Barclays Capital U.S. Intermediate Government/Credit Index is an unmanaged index consisting of U.S. dollar denominated, publicly issued, fixed-rate corporate and government securities. Issues must have a maturity from one up to (but not including) ten years and a minimum of \$250 million par amount outstanding. Securities must be rated investment grade (Baa3/BBB-/BBB- or above) by Moody's, S&P, and Fitch, respectively. When all three agencies rate an issue, a median or "two out of three" rating is used to determine Index eligibility by dropping the highest and lowest rating. When a rating from only two agencies is available, the lower ("most conservative") of the two is used. When a rating from only one agency is available, that rating is used to determine Index eligibility. The index is a total return index which reflects the price changes and interest of each bond in the index.

Barclays Capital Intermediate U.S. Treasury Index: The Barclays Capital Intermediate U.S. Treasury Index is an unmanaged index consisting of U.S. dollar-denominated, U.S. Treasury-issued securities. Issues must have at least \$250 million par amount outstanding and have a maturity from one up to (but not including) ten years. Securities must be rated investment grade (Baa3/BBB-/BBB-or above) by Moody's, S&P, and Fitch, respectively. When all three agencies rate an issue, a median or "two out of three" rating is used to determine Index eligibility by dropping the highest and lowest rating. When a rating from only two agencies is available, the lower ("most conservative") of the two is used. When a rating from only one agency is available, that rating is used to determine Index eligibility. The index is a total return index which reflects the price changes and interest of each bond in the index.

Barclays Capital U.S. Corporate High-Yield Index: The Barclays Capital U.S. Corporate High-Yield Index is an unmanaged index consisting of U.S. dollar-denominated, non-investment grade, fixed-rate, taxable corporate bonds. Issues must have at least \$150 million par amount outstanding and have a maturity of one year or longer. Securities which are classified as high-yield are rated below investment-grade (below Baa3/BBB-/BB-) by Moody's S&P, and Fitch, respectively. When all three agencies rate an issue, a median or "two out of three" rating is used to determine Index eligibility by dropping the highest and lowest rating. When a rating from only two agencies is available, the lower ("most conservative") of the two is used. When a rating from only one agency is available, that rating is used to determine Index eligibility. The index is a total return index which reflects the price changes and interest of each bond in the index.

Barclays Capital U.S. Credit Index: The Barclays Capital U.S. Credit Index is an unmanaged index consisting of U.S. dollar-denominated, publicly issued, fixed-rate corporate securities. Issues must have at least \$250 million par amount outstanding. Securities must be rated investment grade (Baa3/BBB-/BBB- or above) by Moody's, S&P, and Fitch, respectively. When all three agencies rate an issue, a media or "two out of three" rating is used to determine Index eligibility by dropping the highest and lowest rating. When a rating from only two agencies is available, the lower ("most conservative") of the two is used. When a rating from only one agency is available, that rating is used to determine Index eligibility. The index is a total return index which reflects the price changes and interest of each bond in the index.

Barclays Capital U.S. Fixed-Rate Asset Backed Securities (ABS) Index: The Barclays Capital U.S. Fixed-Rate Asset Backed Securities (ABS) Index is an unmanaged index consisting of U.S. dollar-denominated, fixed-rate, taxable bonds. Issues must have at least \$500 million deal size, \$25 million tranche size and have an average life of at least one year. The Index includes pass-through, bullet, and controlled amortization structures. Securities must be the senior class or an ERISA-eligible B or C tranche of the deal. The Index includes bonds from the Credit and charge cards, Autos, Home equity loans, Utility and Manufactured Housing subsectors. Securities must be rated investment grade (Baa3/BBB-/BBB- or above) by Moody's, S&P, and Fitch, respectively. When all three agencies rate in issue, a median or 'two out of three'' rating is used to determine Index eligibility. Securities must be rated investment grade (Baa3/BBB-/BBB- or above) by Moody's, S&P, and Fitch, used to determine Index eligibility. Securities must be be all three agencies rate in issue, a median or 'two out of three'' rating is used to determine Index eligibility. Securities must be issued by eligible issues, determined by Barclays Capital based on pricing availability. The index is a total return index which reflects the price changes and interest of each bond in the index.

Barclays Capital U.S. Government Index: The Barclays Capital U.S. Government Index is an unmanaged index consisting of U.S. dollar-denominated, fixed-rated, publicly issued bonds. The Index includes bonds from the Treasury and Agency sectors. Issues must have at least \$250 million par amount outstanding and have a maturity of one year or longer. Securities must be rated investment grade (Baa-/BBB-/BBB- or above) by Moody \$\$, S&P, and Fitch, respectively. When all three agencies rate an issue, a median or "two out of three" rating is used to determine Index eligibility by dropping the highest and lowest rating. When a rating from only two agencies is available, the lower ("most conservative") of the two is used. When a rating from only one agency is available, that rating is used to determine Index eligibility. The index is a total return index which reflects the price changes and interest of each bond in the index.

Barclays Capital U.S. Mortgage Backed Securities Index: The Barclays Capital U.S. Mortgage Backed Securities Index is an unmanaged index consisting of fixed-rate, mortgage-backed pass-through securities of Ginnie Mae (GNMA), Fannie Mae (FNMA), and Freddie Mac (FHLMC). Issues must have at least \$250 million par outstanding and have a weighted average maturity of at least one year. The Index includes the following categories of mortgaged-backed securities: GNMA I Single Family Pool (30 Years), GNMA I Single Family Midgets" (15 Years), GNM I Single Family Pool (30 Years), GNMA I Single Family Midgets" (15 Years), GNM I Single Family Midgets" (15 Years), FHLMC Cash Single Family (30 Years), FHLMC Guarantor and Gold SF (30 Years), FHLMC Guarantor FANVA (30 Years), FHLMC Guarantor and Gold SF (15 Years), FHLMC Guarantor and Gold SF (20 Years), FNLMC Cash Single Family (15 Years), FHLMC Second Gold SF (15 Years), FHLMC Guarantor and Gold SF (20 Years), FNLMC Cash Single Family (15 Years), FHLMC Areas), FHLMC Guarantor and Gold SF (20 Years), FNMA Conventional Long Term (30 Years), FNMA Conventional Long Term (30 Years), FNMA Conventional Long Term (30 Years), FNMA Conventional Intermediate (15 Years), and FNMA 7-years Balloon (7 years). The index is a total return index reflects the price changes and interest of each bond in the index.

Barclays Capital U.S. Treasury Index: The Barclays Capital U.S. Treasury Index is an unmanaged index consisting of U.S. dollar-denominated, fixed-rate, publicly issued bonds. The Index includes obligations of U.S. Treasury Index with a remaining maturity of one year or more. Issues must have at least \$250 million par amount outstanding. Securities must be rated investment grade (Baa3/BBB-/BBB- or above) by Moody's, S&P, and Fitch, respectively. When all three agencies rate an issue, a median or "two out of three" rating is used to determine Index eligibility by dropping the highest and lowest rating. When a rating from only two agencies is available, the lower ("most conservative") of the two is used. When a rating from only one agency is available, that rating is used to determine Index eligibility. The index is a total return index which reflects the price changes and interest of each bond in the index.

# Glossary of Terms - page two

Beginning Value: The beginning performance value for a specified period is equal to market value at that time or equal to the sum of contributions and withdrawals to the account during the inception month.

Beta: A stock's (or a portfolio's) beta measures its volatility versus an index. A stock (or portfolio) with a beta higher than one has tended to exhibit more volatility than the index, while a stock (or portfolio) with a beta between zero and one has tended to exhibit less volatility than the index.

Bond: Long-term securities with a maturity of greater than one year.

Book Value: Assets minus liabilities. Also known as shareholders' equity.

Capitalization Weighted: A stock index in which each stock affects the index in proportion to its market value (also called market-value weighted index.)

Citigroup U.S. Broad Investment Grade Bond Index - CITBIGBND: The Citigroup U.S. Broad Investment Grade Bond Index is an unmanaged index designed to track the performance of bonds issued in the U.S. investment-grade bond market. It includes institutionally traded U.S. Treasury, government-sponsored (U.S. agency & supranational), mortgage, asset-backed and investment-grade securities. This index is a total return index which reflects the price changes and interest of each bond in the index.

CMBS: (commercial mortgage-backed security) - Bonds that are backed by pools of commercial mortgage loans.

CMO: (collateralized mortgage obligation) - A multiclass bond backed by a pool of mortgage pass-through securities or mortgage loans.

Common Equity: A security that represents ownership in a corporation. Owners of the security generally are entitled to vote on the selection of directors and other important matters.

Corporate Bond: Debt instrument issued by a private corporation, as distinct from one issued by a government agency or municipality

Coupon: The rate of interest payable annually. Where the coupon is blank, it can indicate that the bond can be a " zero-coupon," a new issue, or that it is a variable-rate bond.

Cur Yld: Current Yield - annualized income from the investment (dividends, interest, etc.) divided by the current market price of the investment.

Current Face: The current monthly remaining principal on a bond. Current face is computed by multiplying the original face value of the security by the current factor.

Dividend Adjustment: Adjustment reflecting additional information released regarding a previously recorded dividend.

Dow Jones Industrial Average (DJIA, or The "Dow") – DJIA R: The Dow Jones Industrial Average is an unmanaged, price-weighted index of 30 blue chip U.S. stocks. The DJIA was created by Charles Dow in 1896 as a general measure of the stock market, and today is compiled by editors of The Wall Street Journal. With over a hundred years of data behind it, the DJIA still serves as a reliable U.S. market's measure. This index captures price movements of the securities.

Duration: The weighted maturity of a fixed-income investment's cash flows, used in the estimation of the price sensitivity of fixed-income securities for a given change in interest rates.

Emerging Markets: Refers to those companies operating in developing nations as defined by MSCI.

Enhanced Income (EI) 70% Barclays Capital U.S. Aggregate, 30% S&P/Citigroup World \$25 Billion Plus Index -EILA25B (rebalanced daily): Enhanced Income Index: 70% Barclays Capital U.S. Aggregate, 30% S&P Developed \$25 Billion Plus Index with gross dividends. The Barclays Capital U.S. Aggregate, 30% S&P Treasury, Government-Related, Corporate, Mortgage-Backed Securities (agency fixed-rate and hybrid adjustable-rate mortgage pass-throughs), Asset-Backed Securities and Commercial Mortgage-Backed Securities sectors. Securities must be rated investment grade (Baa3/BBB/BBB/BBB- or above) by Moody's, S&P, and Fitch, respectively. When all three agencies rate an issue, a median or "two out of three" rating is used to determine Index eligibility by dropping the highest and lowest rating. When a rating from only two agencies is available, the lower ("most conservative") of the two is used. When a rating from only two agencies and interest of each bond in the index. The S&P Developed \$25 Billion Plus Index which reflects the price changes and interest of each bond in the index. The S&P Developed \$25 Billion Plus Index whith gross dividends is an unmanaged, free float-adjusted market capitalization index that is designed to measure equity market performance of the developed markets throughout the world, including the United States, that have market capitalizations greater than \$25 billion (USD). This index includes dividends and distributions, but does not reflect fees, brokerage commissions, withholding taxes, or other expenses of investing.

Equal Weighted: Performance data or other data calculated by weighting all of a composite or index's components equally.

Factor: The multiple of original face outstanding at the time of purchase or sale.

Fiscal Year: Business year. Assumed to be the calendar year, unless otherwise designated.

Float Weighted: An index in which each constituent affects the index in proportion to its float (the number of shares outstanding and available for public trading).

FTSE World Mid Cap Index - FTWRLDM/S: The FTSE World Mid Cap Index with gross dividends is an unmanaged, free float-adjusted market capitalization weighted index that tracks medium capitalization companies in 29 countries, including the United States. This index includes dividends and distributions, but does not reflect fees, brokerage commissions, withholding taxes, or other expenses of investing.

FTSE World Ex-US Mid Cap Index - FTWXUSM/S: The FTSE World Ex-US Mid Cap Index with gross dividends is an unmanaged, free float-adjusted market capitalization weighted index that tracks medium capitalization companies in 28 countries, excluding the United States. This index includes dividends and distributions, but does not reflect fees, brokerage commissions, withholding taxes, or other expenses of investing.

Fundamental Information: Fundamental Information: MARKET CAP, PRICE/ BOOK, PRICE/ EARN, PRICE/ CF, LT DEBT/ EQUITY, ROE and YLD for each security are provided by Bloomberg, L.P., and are generally shown unadjusted.

Gross of Fees: Prior to subtraction of management fees.

Interest (payment): An amount charged to a borrower by a lender for the use of money, normally expressed in terms of an annual percentage rate of the principal amount.

Large Cap: Large Capitalization - refers to those companies with a market capitalization generally greater than \$5 billion (USD).

Lt Debt/Equity: Long-term debt of a corporation divided by the corporation's common equity.

Market Price: Price of the investment as of the appraisal date.

Maturity: The date when the principal amount of a security becomes due and payable, if not subject to prior call or redemption.

Medium/Mid Cap: Medium Capitalization - refers to those companies with a market capitalization generally between \$1.5 billion and \$5 billion (USD).

Mkt Cap: Market Capitalization - the number of common shares outstanding multiplied by the current market price per common share.

# Glossary of Terms - page three

Money Market Yield: The average yield of the most common taxable money market funds used in client portfolios. This figure may differ from the fund used for your portfolio, particularly if the fund is tax exempt.

Mortgage: A legal instrument that creates a lien upon real estate securing the payment of a specific debt.

Mortgage-backed Security: Bonds that are backed by pools of residential mortgage loans.

MSCI All Country Asia-Pacific ex-Japan (ACAPACXJ) Index - ACAPACFXJP: The MSCI All Country Asia-Pacific ex-Japan (ACAPACXJ) Index with gross dividends is an unmanaged, free float-adjusted market capitalization weighted index designed to measure equity market performance of Asia and the Pacific region, excluding Japan. This index includes dividends and distributions, but does not reflect fees, brokerage commissions, withholding taxes, or other expenses of investing.

MSCI All Country World (ACWI) Index - MSACWFREE: The MSCI All Country World (ACWI) Index with gross dividends is an unmanaged, free float-adjusted market capitalization weighted index designed to measure equity market performance of developed and emerging markets, including the United States. This index includes dividends and distributions, but does not reflect fees, brokerage commissions, withholding taxes, or other expenses of investing.

MSCI All Country World ex-Canada (ACWI ex-Canada) Index - MSACWXCAD: The MSCI All Country World ex-Canada (ACWI ex-Canada) Index with gross dividends is an unmanaged, free float-adjusted market capitalization weighted index designed to measure equity market performance of developed and emerging markets, excluding Canada. This index includes dividends and distributions, but does not reflect fees, brokerage commissions, withholding taxes, or other expenses of investing.

MSCI All Country World ex-U.S. (ACWI ex-U.S.) Index - MSACWFXUS: The MSCI All Country World ex-U.S. (ACWI ex-US) Index with gross dividends is an unmanaged, free float-adjusted market capitalization weighted index designed to measure equity market performance of developed and emerging markets, excluding the United States. This index includes dividends and distributions, but does not reflect fees, brokerage commissions, withholding taxes, or other expenses of investing.

MSCI EAFE Index - MSCI EAFE: The MSCI EAFE (Europe, Australasia, Far East) Index with net dividends is an unmanaged, free float-adjusted markets capitalization weighted index designed to measure equity market performance of developed markets, excluding the United States and Canada. This index often is used as a benchmark for international equity portfolios and includes dividends and distributions net of withholding taxes, but does not reflect fees, brokerage commissions, or other expenses of investing.

MSCI Emerging Markets (MSCI EM) Index - MSCIEMF: The MSCI Emerging Markets Index with gross dividends is an unmanaged, free float-adjusted market capitalization weighted index designed to measure equity market performance in emerging markets throughout the world. This index includes dividends and distributions, but does not reflect fees, brokerage commissions, withholding taxes, or other expenses of investing.

MSCI EM Asia Index: The MSCI EM (Emerging Markets) Asia Index is an unmanaged, free float-adjusted market capitalization weighted index that is designed to measure equity market performance of emerging markets in Asia.

MSCI EM Latin America Index: The MSCI EM (Emerging Markets) Latin America Index is an unmanaged, free float-adjusted market capitalization weighted index that is designed to measure equity market performance in Latin America.

MSCI Europe Index - MSCIEURO: The MSCI Europe Index with net dividends is an unmanaged, free floatadjusted market capitalization weighted index that is designed to measure equity market performance of the developed markets in Europe. This index includes dividends and distributions net of withholding taxes, but does not reflect fees, brokerage commissions, or other expenses of investing.

MSCI Japan Index - MSCI JP: The MSCI Japan Index with gross dividends is an unmanaged, free floatadjusted market capitalization weighted index that is designed to measure equity market performance of the developed markets in Japan. This index includes dividends and distributions, but does not reflect fees, brokerage commissions, withholding taxes, or other expenses of investing.

MSCI KOKUSAI Index – MSWRLDXJP: The MSCI KOKUSAI Index with net dividends is an unmanaged, free float-adjusted market capitalization index that is designed to measure the equity market performance of developed markets excluding Japan. As of September 2007 the MSCI KOKUSAI Index consisted of the following 22 developed market country indices: Australia, Austria, Belgium, Canada, Denmark, Finland, France, Germany, Greece, Hong Kong, Ireland, Italy, Netherlands, New Zealand, Norway, Portugal, Singapore, Spain, Sweden, Switzerland, the United Kingdom, and the United States. This index includes dividends and distributions net of withholding taxes, but does not reflect fees, brokerage commissions, or other expenses of investing.

MSCI Pacific Index: The MSCI Pacific Index with gross dividends is an unmanaged, free float-adjusted market capitalization weighted index that is designed to measure equity market performance of the developed markets in the Pacific region. This index includes dividends and distributions, but does not reflect fees, brokerage commissions, withholding taxes, or other expenses of investing.

MSCI World Index - MSCI WRLD: The MSCI World Index with net dividends is an unmanaged, free floatadjusted market capitalization weighted index that is designed to measure equity market performance of the developed markets throughout the world, including the United States. This index includes dividends and distributions net of withholding taxes, but does not reflect fees, brokerage commissions, or other expenses of investing.

NASDAQ Composite Index: The NASDAQ Composite Index is an unmanaged, broad based market capitalization-weighted index that measures all NASDAQ domestic and international based common type stocks listed on the NASDAQ market. This index captures price movements of the securities.

Net Capital: The net total of all contributions and withdrawals since the inception of the account.

Net of Fees: After subtraction of management fees.

Nikkei 225 Index: The Nikkei 225 Index is an unmanaged stock market index for the Tokyo Stock Exchange (TSE). The Nikkei average is the most watched index of Asian stocks. It has been calculated daily by the Nihon Keizai Shimbun (Nikkei) newspaper since 1971. It is a price-weighted average (the unit is Yen), and the components are reviewed once a year.

ORD: Ordinary - shares of foreign securities traded on their local exchange.

Original Face: The face value or original principal amount of a security on its issue date.

Par: The face value of a bond.

Pass-through: A mortgage-backed security for which the payments on the underlying mortgages are passed from the mortgage holder through the servicing agent (who usually keeps a portion as a fee) to the security holder.

Paydown: That portion of a mortgage which is applied toward reduction of the par amount, as opposed to the interest due. Includes all pass-through principal payments.

Price: The dollar amount to be paid for a security, stated as a percentage of its face value, or par. Bond prices are best reflected in their yields, which vary inversely with the dollar price. The price paid for a bond is based on a host of variables, including interest rates, supply and demand, credit quality, maturity and call features, tax status, state of issuance, market events and the size of the transaction.

Price Weighted: A stock index in which each stock affects the index in proportion to its price per share.

Price/Book: Price per share divided by book value per share.

Price/CF: Price per share divided by cash flow per share.

Price/Earn: Price per share divided by earnings per share.

Principal: The face amount of a bond, exclusive of accrued interest and payable at maturity.

R2: A portfolio's R2 (pronounced "r-squared") measures how closely the portfolio's performance correlates with the performance of an index. Specifically, R2 indicates what proportion of the portfolio's performance is determined by the performance of the index. Values for R2 range from zero to one.

Rate of Return: Percentage change in the market value of the account over the specified time frame, including realized and unrealized gains or losses, dividends, and income.

Rating: Alpha and/or numeric symbols used to give indications of relative credit quality. In the municipal market, these designations are published by the rating services. Internal ratings are also used by other market participants to indicate relative credit quality.

Realized Gain/Loss: Profit or loss resulting from the sale or other disposal of a security. Gains and losses are based on First In First Out (FIFO) accounting methodology.

# Glossary of Terms - page four

Reverse Stock Split: A procedure whereby a corporation will reduce the number of shares outstanding while maintaining the same total market value of the company by increasing the value per share of stock; e.g., if a firm with 10 million outstanding shares selling at \$10/share executes a reverse 1-for-10-split, the firm will end up with 1 million shares selling for \$100 each.

ROE: Return on Equity - net income divided by common equity.

Russell 1000 Index - RUSSELL1K: The Russell 1000 Index with gross dividends is an unmanaged, market capitalization weighted index that measures the performance of the large-cap segment of the U.S. equity universe. It is a subset of the Russell 3000 Index and includes approximately 1,000 of the largest securities based on a combination of their market capitalization and current index membership. The Russell 1000 represents approximately 92% of the U.S. market. This index includes the reinvestment of dividends and income, but does not reflect fees, brokerage commissions, withholding taxes, or other expenses of investing.

Russell 1000 Value Index - RUSSELL1V: The Russell 1000 Value Index with gross dividends is an unmanaged, market capitalization weighted index that measures the performance of the large-cap segment of the U.S. equity universe. It includes those Russell 1000 Index companies with lower price-to-book ratios and lower expected growth values. The index includes the reinvestment of dividends and income, but does not reflect fees, brokerage commissions, withholding taxes, or other expenses of investing.

Russell 2000 Index - RUSSELL2K: The Russell 2000 Index with gross dividends is an unmanaged, market capitalization weighted index that measures the performance of the small-cap segment of the U.S. equity universe. It is a subset of the Russell 3000 Index and includes approximately 10% of the total market capitalization of that index and includes approximately 2000 of the smallest securities based on a combination of their market capitalization and current index membership. This index includes the reinvestment of dividends and income, but does not reflect fees, brokerage commissions, withholding taxes, or other expenses of investing.

Russell 2000 Value Index - RUSSEL2KV: The Russell 2000 Value Index with gross dividends is an unmanaged, market capitalization weighted index that measures the performance of the small-cap segment of the U.S. equity universe. It includes those Russell 2000 Index companies with lower price-to-book ratios and lower expected growth values. This index includes the reinvestment of dividends and income, but does not reflect fees, brokerage commissions, withholding taxes, or other expenses of investing.

Russell 3000 Index - RUSSELL3K: The Russell 3000 Index with gross dividends is an unmanaged market capitalization weighted index that measures the performance of the 3,000 largest U.S. companies representing approximately 98% of the investible U.S. market. This index includes the reinvestment of dividends and income, but does not reflect fees, brokerage commissions, withholding taxes, or other expenses of investing.

Russell Midcap Index - RUSSELMC: The Russell Midcap Index with gross dividends is an unmanaged, market capitalization weighted index that measures the performance of the mid-cap segment of the U.S. equity universe. It is a subset of the Russell 1000 index and includes approximately 800 of the smallest securities based on a combination of their market capitalization and current index membership. The Russell Midcap Index represents approximately 31% of the total market capitalization of the Russell 1000 companies. This index includes the reinvestment of dividends and income, but does not reflect fees, brokerage commissions, withholding taxes, or other expenses of investing.

Small Cap: Small capitalization - refers to those companies with a market capitalization of generally less than \$1.5 billion (USD).

Spin-off: A procedure whereby a corporation reorganizes one or more of its operating entities into a separate corporation and gives shares of this new corporation to its shareholders.

Stock Split: A procedure whereby a corporation increases the number of shares outstanding while maintaining the same total market value of the company by reducing the value per share of stock; e.g., if a stock at \$100 par value splits 2-for-1, the number of outstanding shares doubles and the price per share drops by half to \$50.

S&P 500 - SP500 G: The S&P 500 Index with gross dividends is an unmanaged, market capitalization weighted index that measures the equity performance of 500 leading companies in leading industries of the U.S. economy. Although the index focuses on the large cap segment of the market, with approximately 75% coverage of U.S. equities, it can also be a suitable proxy for the total market. This index includes dividends and distributions but does not reflect fees, brokerage commissions, withholding taxes, or other expenses of investing.

S&P 500 Growth Index - SGXINDEX: The S&P 500 Growth Index with gross dividends is an unmanaged, market capitalization weighted index that measures the equity performance of those S&P 500 Index companies with higher expected growth rates. This index includes the reinvestment of dividends and income, but does not reflect fees, brokerage commissions, withholding taxes, or other expenses of investing.

S&P 500 Value Index - SVXINDEX: The S&P 500 Value Index with gross dividends is an unmanaged, market capitalization weighted index that measures the equity performance of those S&P 500 Index companies with lower price-to-book ratios. This index includes the reinvestment of dividends and income, but does not reflect fees, brokerage commissions, withholding taxes, or other expenses of investing.

S&P MidCap 400 Value Index - SPMV400 G: The S&P MidCap 400 Value Index with gross dividends is an unmanaged, market capitalization weighted index that measures the equity performance of those S&P MidCap 400 Index companies with lower price-to-book ratios. This index includes dividends and distributions, but does not reflect fees, brokerage commissions, withholding taxes, or other expenses of investing.

S&P SmallCap 600 Value Index - SPV600 G: The S&P SmallCap 600 Value Index with gross dividends is an unmanaged, market capitalization weighted index that measures the equity performance of those S&P SmallCap 600 Index companies with lower price-to-book ratios. This index includes dividends and distributions, but does not reflect fees, brokerage commissions, withholding taxes, or other expenses of investing.

S&P Developed SmallCap Index - CITEMIWRLD: The S&P Developed SmallCap Index is an unmanaged, floatadjusted market capitalization weighted index that measures the equity performance of small capitalization companies from developed markets around the world, including the United States. This index includes the reinvestment of dividends and income but does not reflect fees, brokerage commissions, withholding taxes, or other expenses of investing.

S&P Developed Ex-U.S. SmallCap Index - CITWXUSEM: The S&P Developed Ex-U.S. SmallCap Index with gross dividends is an unmanaged, float-adjusted market capitalization weighted index that measures the equity performance of small capitalization companies from developed markets around the world, excluding the United States. This index includes dividends and distributions but does not reflect fees, brokerage commissions, withholding taxes, or other expenses of investing.

S&P Developed \$1-5 Billion Index - CITWLD15B: The S&P Developed \$1-5 Billion Index is an unmanaged, floatadjusted market capitalization weighted index that measures the equity performance of companies around the developed world, including the United States that have market capitalizations between \$1 and \$5 billion (USD). This index includes dividends and distributions, but does not reflect fees, brokerage commissions, withholding taxes, or other expenses of investing.

S&P Developed Ex-U.S. \$1-5 Billion Index - CITWXUS15: The S&P Developed Ex-U.S. \$1-5 Billion Index with gross dividends is an unmanaged, float-adjusted market capitalization weighted index that measures the equity performance of companies around the developed world, excluding the United States, that have market capitalizations between \$1 and \$5 billion (USD). This index includes dividends and distributions, but does not reflect fees, brokerage commissions, withholding taxes, or other expenses of investing.

Tokyo Stock Price Index - TOPIX: The TOPIX Index with gross dividends is an unmanaged, free-float adjusted market capitalization-weighted index that is calculated based on all the domestic common stocks listed on the Tokyo Stock Exchange First Section. TOPIX shows the measure of current market capitalization assuming that market capitalization as of the base date (January 4, 1968) is 100 points. For the period 12/31/98 to present, the returns for the TOPIX index are calculated on a total return basis which includes dividends and distributions, but does not reflect fees, brokerage commissions, withholding taxes, or other expenses of investing. The source of the index information is FactSet Research Systems Inc., a leading provider of financial and economic information. Prior to 12/31/98, the total returns for the index are not available, therefore combining the price index returns derived the total returns and corresponding month end yields. The source of the index information is FT Interactive Data Corporation.



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11988 El Camino Real | Suite 500 | P.O. Box 919048 | San Diego, CA 92191-9048 858.755.0239 | 800.237.7119 | Fax 858.755.0916 www.brandes.com | info@brandes.com



# **State of Alaska**

December 3, 2010

Lynn Blake, CFA Eric Brandhorst, CFA Neil J. Tremblay





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STATE STREET GLOBAL ADVISORS.

# **SSgA Firm Overview**





# A Leading Provider of Financial Services to Institutional Investors



## STATE STREET.

SSgA is a global leader in asset management that sophisticated institutions worldwide rely on for their investment needs

- Subsidiary of State Street Corporation, one of the world's leading providers of financial services to institutional investors, with a heritage dating back over two centuries
- Entrusted with over \$1.9 trillion in assets worldwide
- Clients include governmental entities, corporations, endowments and foundations, third party asset gatherers, multi employer plans, pension funds and sovereign wealth funds
- ETF industry pioneer and leader since 1993 with \$223.6 billion in assets under management

State Street Global Services

A global leader in asset servicing

SSGA.

State Street Global Advisors

A global leader in asset management

State Street Global Markets

A global leader in research and trading

# **A Global Perspective with Local Expertise**



## A global footprint and investment platform

- Large and diverse client base worldwide, serviced in 28 local offices, bringing a global perspective to managing client needs
- Full suite of investment solutions, managed regionally in 9 investment centers, promoting diversity of ideas
- 24 hour global trading capability with trading desks in Boston, London and Hong Kong, provides same day, same time coverage of the global exchanges
- Common global technology platform, global compliance and risk management ensures operational oversight of clients' portfolios
- Five Global Alliance companies in 10 key markets provide additional investment capabilities

SSARIS Advisors: Quantitative institutional absolute return

Shott Capital Management: Post VC distributions, private equity The Tuckerman Group: REITS, real estate, direct development

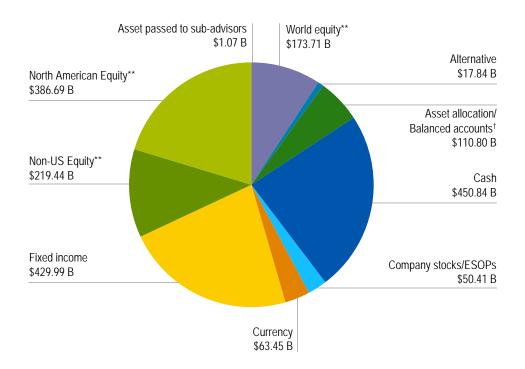
Rexiter: Fundamental Active Emerging Markets

Sectoral Asset Management: Global healthcare investments

# An Investment Manager on Which Institutions Rely

## 60% of clients have two or more strategies 82% of new business comes from existing clients\*

#### \$1.9 Trillion in Assets Under Management\*



#### **Assets Under Management\***

\$104 Billion of Active/Enhanced \$1348 Billion of Passive \$451 Billion of Cash

Asset Class	Active Assets (US\$ Billions)	Passive Assets (US\$ Billions)
Equity	34.30	726.00
Fixed Income	23.90	406.10
Hedge Funds/Private Equity	5.60	0.70
Real Estate	1.50	6.50
Currency	7.40	56.10
Multi Asset Class Solutions <sup>‡</sup>	11.90	98.90
Commodities	—	3.60
Company Stock	—	50.40
Total Assets	84.60	1,348.30
Total Enhanced	19.50	—
Total Cash	450.80	
Grand Total	554.90	1,348.30

ETFs account for \$223.6 billion of total assets (Global)

\* As of September 30, 2010

\*\* Includes Enhanced assets

<sup>†</sup> Assets in Asset Allocation are not counted in the underlying asset class

Includes TAA and GAA with Active Underlying

CMINST-1876

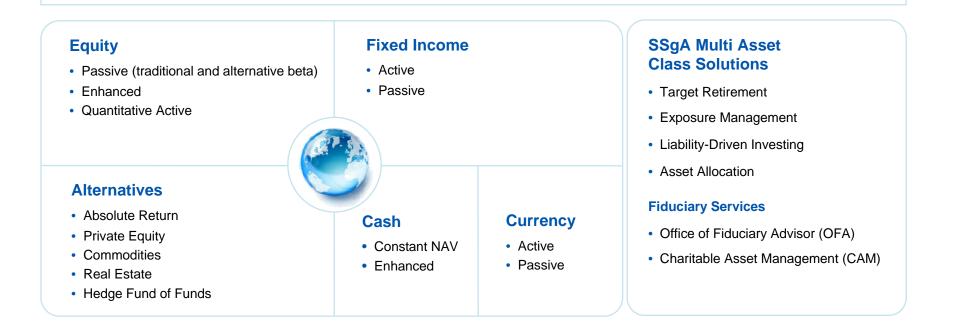
## STATE STREET GLOBAL ADVISORS.

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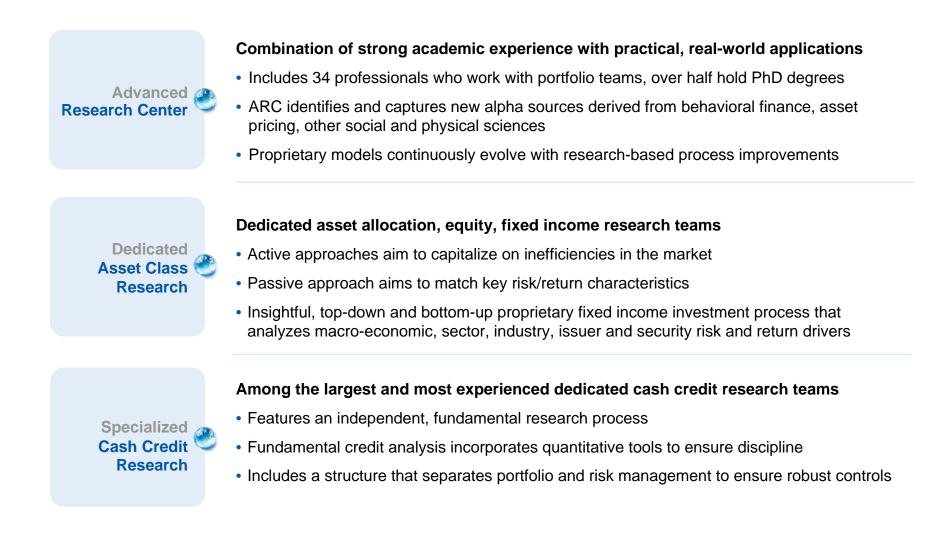
# A Broad Range of Investment Solutions

# We offer broad-based market exposure, highly specialized active and passive strategies across the risk return spectrum

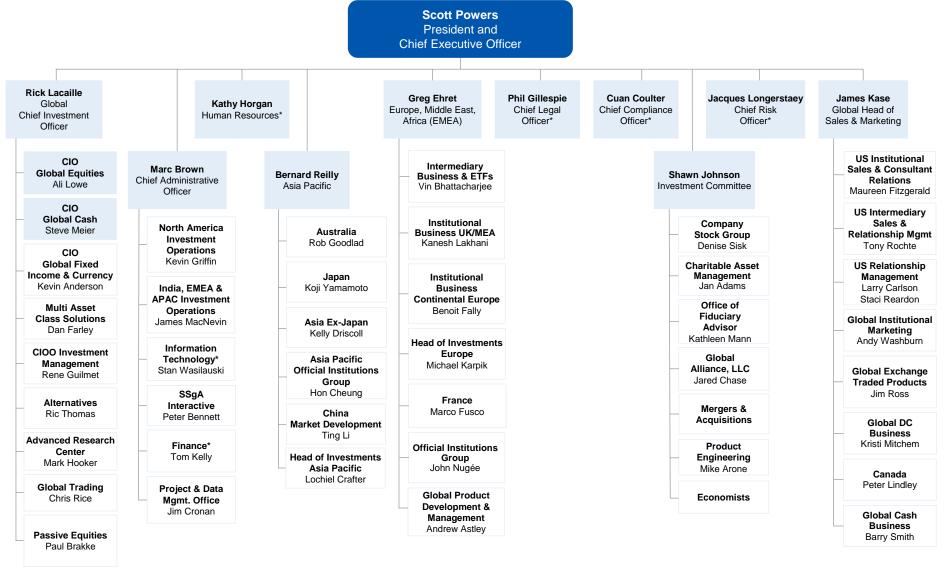
- A leading alpha generator and beta manager across asset classes, including developed and emerging markets
- ETF industry leader, with core, sector, industry, style, international and fixed income funds
- · Retirement capabilities include investment-only solutions for defined benefit and defined contribution plans
- SSgA Multi Asset Class Solutions team focus on a total portfolio solution
- Investment vehicles include private funds, commingled funds, ETFs, mutual funds and client-directed mandates (e.g. separately managed accounts, segregated mandates)



# Advanced Research behind Every Portfolio



# **State Street Global Advisors**



November 3, 2010

Notes member of the Executive Management Group \* Functions also report into corporate competency centers

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# **SSgA Committees and Governance**

#### SSgA CEO

#### **Executive Management Group (EMG)**

The EMG acts as the CEO's cabinet, a consultative and decision-making body responsible for:

- Overall Firm governance
- Code of Ethics oversight --
- Staffing/HR matters
- Extraordinary events

#### **Investments Committee**

Responsible for the firm's investment philosophy and processes, investment strategies, approach to new markets and instruments, and relationships with counterparties.

#### Subcommittees:

- Technical
- Proxy Review
- Derivatives/New Instruments
- Credit Advisory
- Trade Management Oversight
- Charitable Asset
   Management Investment

#### Product Committee

Responsible for the creation of products based on the firm's investment strategies.

#### Subcommittees:

- Funding/Seed Capital
- North American Product
   Canadian Product
- EMEA Product
- APAC Product

#### **Fiduciary Committee**

Responsible for the maintenance of products based on the firm's investment strategies. Accountable to State Street Board of Directors.

#### Subcommittees:

- Independent Fiduciary
- Disclosure and Communications

## Operations and Compliance Committee

Responsible for the firm's infrastructure, compliance and control functions.

#### Subcommittees:

- Global Operations
  - Global Compliance
  - Code of Ethics
  - North American Valuation
  - EMEA Valuation
  - APAC Valuation
  - Global Operational Risk
  - Data Governance
  - IT Steering
  - SSgAIR Relationship Steering
  - Performance Standards



# **State of Alaska Relationship Summary**

Investing involves risk including the risk of loss of principal.





Total Assets Managed by State S	treet Global Advisors
Retirement Assets	\$3,152,938,756
Non-Retirement Assets	3,561,102,634
University of Alaska Assets	118,587,533
Total	\$6,832,628,923

## **Retirement Assets**

- Defined Benefit Plans
- DCR Plans
- Retirement Health Trust Plans
- Deferred Compensation Plan
- Defined Contribution Plan
- Supplemental Annuity Plan

## **University of Alaska Assets**

## **Non-Retirement Assets**

- Children's Trust Fund
- Constitutional Budget Reserve Fund
- EVOS Habitat Investment Sub-Fund
- EVOS Koniag Investment Fund
- EVOS Research Investment Sub-Fund
- Illinois Creek Mine Reclamation Trust Fund
- Mental Health Trust Authority
- Power Cost Equalization Fund
- Public Schools Trust Fund
- Retiree Health Insurance Fund
- Retiree Long-Term Care Health Insurance

## Retirement Assets: Defined Benefit/DCR/Retirement Health Trust Plans<sup>1</sup>

SSgA Investment Strategy	Benchmark	Assets Managed <sup>2</sup>
Russell Top 200 Index Separate Account	Russell Top 200 Index	\$341,851,118
Russell 1000 Growth Index Separate Account	Russell 1000 Growth Index	472,664,166
Russell 1000 Value Index Separate Account	Russell 1000 Value Index	1,072,589,353
Russell 2000 Growth Index Separate Account	Russell 2000 Growth Index	91,246,162
Russell 2000 Value Index Separate Account	Russell 2000 Value Index	422,315,289
MSCI ACW ex-US IMI Separate Account	MSCI ACW ex-US IM Index	288,350,668
Cash Equitization Strategy – Large Cap	S&P 500 Index	16,775,657
Cash Equitization Strategy – Small Cap	Russell 2000 Index	8,316,522
Backup Fixed Income Management Services <sup>3</sup>	Various	0
Total		\$2,714,108,935

<sup>1</sup> Public Employees' Retirement System, Teachers' Retirement System, Judicial Retirement System, National Guard/Naval Militia Retirement System.

## Retirement Assets: Deferred Compensation/Defined Compensation/Supplemental Annuity Plans<sup>1</sup>

SSgA Investment Strategy	Benchmark	Assets Managed <sup>2</sup>
Russell 3000 Index Fund CI A	Russell 3000 Index	\$10,714,316
S&P 500 <sup>®</sup> Flagship Series Fund CI A	S&P 500 Index	250,265,725
Tuckerman REIT Index Fund CI A	DJ US Select REIT Index	25,786,702
Long US Treasury Index Fund CI A	BarCap Long US Treasury Index	14,158,666
Inflation Protected Sec. Index Fund CI A	BarCap US TIPS Index	21,899,934
World Gov't Bond ex-US Index Fund CI A	Citi World ex-US Gov't Bond Index	6,311,899
Global ex-US Index Fund CI A	MSCI ACW ex-US Index	16,748,487
Global Asset Allocation Strategy	60% Equity/40% Fixed Income	92,944,092
Total		\$438,829,821

## Non-Retirement Assets<sup>1</sup>

SSgA Investment Strategy	Benchmark	Assets Managed <sup>2</sup>
Russell 3000 Index NL QP CTF	Russell 3000 Index	\$2,989,172,479
MSCI EAFE Index NL QP CTF	MSCI EAFE Index	571,930,155
Total		\$3,561,102,634

<sup>1</sup> Children's Trust Fund, Constitutional Budget Reserve Fund, EVOS Habitat Investment Sub-Fund, EVOS Koniag Investment Fund, EVOS Research Investment Sub-Fund, Illinois Creek Mine Reclamation Trust Fund, Mental Health Trust Authority, Power Cost Equalization Fund, Public Schools Trust Fund, Retiree Health Insurance Fund, Retiree Long-Term Care Health Insurance, University of Alaska. <sup>2</sup> As of 10/31/2010.

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## **University of Alaska Assets**

SSgA Investment Strategy	Benchmark	Assets Managed <sup>1</sup>
US Aggregate Bond NL QP CTF	BarCap US Agg. Bond Index	\$ 29,051,305
Int. U.S. Treasury Index NL QP CTF	BarCap Int. U.S. Treasury Index	15,000,000
Russell 3000 Index NL QP CTF	Russell 3000 Index	49,107,431
MSCI ACW Index NL QP CTF	MSCI All Country World Index	14,515,371
MSCI Emerging Markets Index NL QP CTF	MSCI Emerging Markets Index	10,913,426
Total		\$118,587,533

## Retirement Assets: Defined Benefit/DCR/Retirement Health Trust Plans<sup>1</sup>

Strategy versus Benchmarks	One	Three	Year to	Last 12	Three	Five	Since	Inception
	Month	Months	Date	Months	Years	Years	Inception	Date
Russell Top 200 Index Sep. Acct.	3.89%	7.74%	5.92%	13.95%	-7.03%	N/A	-3.25%	Jan 2007
Russell 1000 Growth Index	3.90%	7.76%	5.86%	13.89%	-7.16%	N/A	-3.40%	
Russell 1000 Growth Index Sep. Acct.	4.76%	10.49%	9.31%	19.60%	-3.92%	N/A	0.22%	Jan 2007
Russell 1000 Growth Index	4.78%	10.52%	9.35%	19.65%	-3.95%	N/A	0.18%	
Russell 1000 Value Index Sep. Acct.	2.99%	6.24%	7.71%	15.88%	-8.14%	N/A	-5.35%	Jan 2007
Russell 1000 Value Index	3.00%	6.24%	7.63%	15.71%	-8.49%	N/A	-5.72%	
Russell 2000 Growth Index Sep. Acct.	4.32%	10.38%	14.88%	28.15%	-4.15%	N/A	-1.54%	Jul 2007
Russell 2000 Growth Index	4.30%	10.39%	14.97%	28.67%	-3.81%	N/A	-0.58%	
Russell 2000 Value Index Sep. Acct.	3.86%	6.37%	12.08%	24.34%	-4.01%	N/A	-5.52%	May 2007
Russell 2000 Value Index	3.87%	6.38%	12.10%	24.43%	-4.13%	N/A	-5.79%	
MSCI ACW ex-US IM Index Sep. Acct.	3.49%	10.95%	8.46%	13.82%	N/A	N/A	11.42%	Sep 2009
MSCI ACW Investable Market Index	3.49%	10.97%	8.30%	13.65%	N/A	N/A	11.26%	

<sup>1</sup> Public Employees' Retirement System, Teachers' Retirement System, Judicial Retirement System, National Guard/Naval Militia Retirement System.

Performance as of 10/31/2010.

Returns are annualized for periods greater than one year.

All performance returns are presented and linked beginning with the first fully invested month.

Historic performance is not necessarily indicative of actual future investment performance, which could differ substantially. All performance

figures contained herein are provided gross of investment management fees. All returns are calculated in US Dollars.

## Retirement Assets: Deferred Compensation/Defined Compensation/Supplemental Annuity Plans<sup>1</sup>

Strategy versus Benchmarks	One	Three	Year to	Last 12	Three	Five	Since	Inception
	Month	Months	Date	Months	Years	Years	Inception	Date
Russell All Cap® Index Fund CI A	3.88%	8.35%	8.89%	18.37%	N/A	N/A	3.93%	Sep 2008
Russell 3000 Index	3.91%	8.37%	8.88%	18.34%	N/A	N/A	3.72%	
S&P 500® Index Fund CI A	3.81%	7.98%	7.90%	16.57%	-6.39%	1.81%	6.18%	Feb 1996
Standard & Poor's 500 Index	3.80%	7.96%	7.84%	16.52%	-6.49%	1.73%	6.14%	
Tuckerman US REIT Index Fund CI A	4.58%	7.72%	24.52%	42.26%	N/A	N/A	-2.09%	Sep 2008
DJ US Select REIT F/F Index	4.63%	7.80%	24.71%	42.63%	N/A	N/A	-1.85%	
Long US Treasury Index NL Fund CL A	-3.32%	1.57%	15.17%	10.61%	N/A	N/A	8.66%	Sep 2008
Barclays Capital Long Treasury Index	-3.31%	1.64%	15.15%	10.56%	N/A	N/A	8.70%	
US Infl. Protected Bond Index Fund CI A	2.62%	5.00%	9.77%	10.34%	N/A	N/A	8.24%	Sep 2008
Barclays Capital US TIPS Index	2.65%	5.05%	9.84%	10.42%	N/A	N/A	8.32%	
World Gov't Bond ex-US Fund CI A	1.95%	7.30%	8.91%	6.34%	N/A	N/A	10.62%	Sep 2008
Citigroup World ex-US Gov't Bond Inde	x 1.99%	7.42%	8.88%	6.40%	N/A	N/A	10.73%	
Global Equity ex-US Index Fund CI A	3.40%	10.54%	7.15%	13.73%	N/A	N/A	8.89%	Sep 2008
MSCI ACW ex-US Index	3.41%	10.57%	7.22%	12.62%	N/A	N/A	8.17%	
Global Asset Allocation Strategy	2.48%	7.05%	8.36%	12.47%	N/A	N/A	8.36%	Jul 2009
MSCI ACW ex-US Index	2.47%	7.03%	8.27%	11.97%	N/A	N/A	8.27%	

<sup>1</sup> Defined Contribution, Deferred Compensation, Supplemental Annuity Plan plans.

Performance as of 10/31/2010.

Returns are annualized for periods greater than one year. All performance returns are presented and linked beginning with the first fully invested month.

Historic performance is not necessarily indicative of actual future investment performance, which could differ substantially.

All performance figures contained herein are provided gross of investment management fees. All returns are calculated in US Dollars.

## **Non-Retirement Assets<sup>1</sup>**

Strategy versus Benchmarks	One	Three	Year to	Last 12	Three	Five	Since	Inception
	Month	Months	Date	Months	Years	Years	Inception	Date
Russell 3000 Index NL CTF	3.89%	8.35%	8.88%	18.38%	-5.94%	2.10%	0.86%	Mar 2003
Russell 3000 Index	3.91%	8.37%	8.88%	18.34%	-5.96%	2.08%	0.81%	
MSCI EAFE Index NL CTF	3.61%	10.22%	4.70%	8.34%	-9.60%	N/A	-6.78%	Jul 2000
MSCI EAFE Index	3.61%	10.23%	4.72%	8.36%	-9.60%	N/A	-6.78%	

<sup>1</sup> Children's Trust Fund, Constitutional Budget Reserve Fund, EVOS Habitat Investment Sub-Fund, EVOS Koniag Investment Fund, EVOS Research Investment Sub-Fund, Illinois Creek Mine Reclamation Trust Fund, Mental Health Trust Authority, Power Cost Equalization Fund, Public Schools Trust Fund, Retiree Health Insurance Fund, Retiree Long-Term Care Health Insurance, University of Alaska. Performance as of 10/31/2010.

Performance shown is that of the longest-tenured account for each Strategy at SSgA. For the Russell 3000 Index CTF, this is the State of Alaska Public Schools Trust Fund account. For the MSCI EAFE Index, all accounts had the same inception date.

Returns are annualized for periods greater than one year. All performance returns are presented and linked beginning with the first fully invested month.

Historic performance is not necessarily indicative of actual future investment performance, which could differ substantially. All performance figures contained herein are provided gross of investment management fees. All returns are calculated in US Dollars.

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## **University of Alaska Assets**

Strategy versus Benchmarks	One	Three	Year to	Last 12	Three	Five	Since	Inception
	Month	Months	Date	Months	Years	Years	Inception	Date
Russell 3000 Index NL CTF	3.89%	8.35%	8.88%	18.38%	-5.94%	2.10%	3.52%	May 2004
Russell 3000 Index	3.91%	8.37%	8.88%	18.34%	-5.96%	2.08%	3.49%	
MSCI ACW Index NL CTF	3.70%	9.69%	7.59%	14.42%	N/A	N/A	11.64%	Sep 2009
MSCI ACW Index	3.61%	9.56%	7.37%	14.10%	N/A	N/A	11.34%	
U.S. Aggregate Bond Index NL CTF	0.37%	1.71%	8.24%	7.88%	7.26%	6.45%	5.28%	Mar 2003
Barclays Capital Aggregate Index	0.36%	1.76%	8.33%	8.01%	7.23%	6.45%	5.30%	

Performance as of 10/31/2010.

Returns are annualized for periods greater than one year. All performance returns are presented and linked beginning with the first fully invested month. Historic performance is not necessarily indicative of actual future investment performance, which could differ substantially. All performance figures contained herein are provided gross of investment management fees. All returns are calculated in US Dollars. STATE STREET GLOBAL ADVISORS.

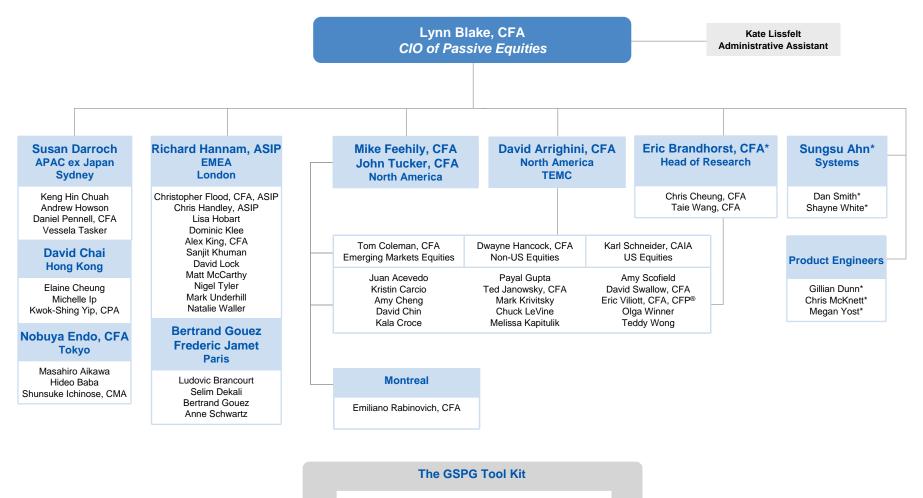
# SSgA Global Structured Products Group Overview

Investing involves risk including the risk of loss of principal.





## **Global Structured Products Group**



Global Trading - 23 global traders

Operations - 80 dedicated professionals

Data Group - 18 dedicated professionals

As of November 1, 2010

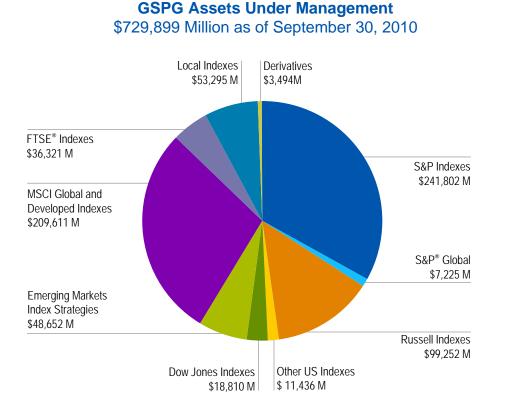
\* Does not manage money

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## A Leading Manager of Global Indexed Assets

- \$65 billion in average net new assets over past five years\*
- 85% of new assets come from existing clients\*\*



## New Strategies SSgA Premia Strategy Rules-Based Strategies Dow Jones Sustainability Index Strategy US Community Investing Index Strategy MSCI Small Cap Indices MSCI Investable Market Indices

\* As of December 31, 2009, includes 5 year GSPG institutional average of \$41 B and 5 year average SSgA ETFof \$24 B, updated annually.

\*\* As of June 30, 2010, firm-wide

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# **Equity Exposure in Any Market Segment**

# Clients can customize their exposure to meet their needs

- All major published US and Global indices
- Fund offerings in over 50 countries\*\*
- Modular fund construction
- Separate account management accounts for one third of our business

#### Large Cap/Broad Market



#### US S&P 500<sup>®</sup> Russell 3000<sup>®</sup> S&P MidCap 400<sup>®</sup> S&P 500<sup>®</sup>/Citigroup Value and Growth Screened S&P 500<sup>®</sup> Screened Russell 3000<sup>®</sup> Russell 2000<sup>®</sup> S&P Small Cap 600<sup>®</sup> S&P<sup>®</sup> SPDRs\* US Total Stock Market (W5000) • Russell Midcap® Growth • Russell Top 200 Value® Conservative S&P 500<sup>®</sup> • Russell Midcap Value Russell 1000 Value and Growth® Stock Performance Index Futures Fund Equal Weighted S&P 500<sup>®</sup> Fortune 500\* Russell 2500<sup>™</sup> Russell Mid Cap Growth<sup>®</sup> Tobacco-Free S&P 500<sup>®</sup> MSCI US Investable Market 2500 Russell Small Cap Completeness<sup>™</sup> Russell 2000 Value and Growth<sup>®</sup> S&P<sup>®</sup> Sector SPDRs\* Dow Jones Diamonds\* • NASDAQ 100 • US Extended Market (W4500) MSCI USA • S&P 100 Small Cap Index Futures Fund Morgan Stanley High Tech 35\* Russell Top 200<sup>®</sup> Small Cap Passive Fund Dow Jones Large Cap Value and Growth\* Russell Top 50 Russell 1000<sup>®</sup> S&P Dividend Aristocrats MSCI US Small Cap Dow Jones Mid Cap Value and Growth\* • US Community Investing Index • Dow Jones Small Cap Value and Growth\* MSCI KLD Social 400 Index S&P MLP Index FTSE RAFI US 1000 Index Non-US MSCI Country Funds Daily MSCI Regional Funds S&P<sup>®</sup>/Citigroup Extended Market Index MSCI Europe Sectors\* **Developed** FTSE Country Funds S&P/Citigroup Primary Market Index S&P<sup>®</sup>/Citigroup Regional Funds MSCI EAFE<sup>®</sup> Sectors S&P<sup>®</sup>/Citigroup Country Funds Dow Jones Euro STOXX<sup>®</sup> 50 MSCI Developed Small Cap MSCI EAFE<sup>®</sup> Index Futures Fund Dow Jones STOXX<sup>®</sup> 50 MSCI EAFE Small Cap MSCI Canada Small Cap Local Country Indices Straits Times\* S&P<sup>®</sup> IFCI Country Funds Taiwan Top 50\* MSCI Emerging Small Cap<sup>SM</sup> Emerging MSCI EM Country Funds S&P BRIC 40\* Markets Daily MSCI Emerging Markets Global MSCI All Country World IMI FTSE World MSCI World Sectors Dow Jones Global Titans\* MSCI All Country World • Dow Jones-UBS Commodity Index MSCI All Country World ex-US IMI S&P/Citigroup Broad Market Index S&P GSCI<sup>™</sup> MSCI All Country World ex-US Daily MSCI ACWI S&P GSCI Light Energy MSCI World Daily MSCI ACWI ex-US MSCI World Natural Resources Index • FTSE/Macquarie Global Infrastructure 100\*

\* Exchange Traded Funds

\*\* September 30, 2010

MINST-2735 Please see Appendix for trademark disclosures

## Low Cost Trading Preserves Client Wealth

## Internal transactions provide low cost trading opportunities

## **Global Structured Products Group**

- Five year average of \$149 billion traded annually
- Over 2000 index equity clients
- Over 1,400 portfolios
- 200+ different benchmarks

#### **Transition management**

- 930 restructurings in 2009
- \$384 billion in assets transitioned

#### Savings from Low Cost Trading

	2009 GSPG Assets Traded*	Low Cost Trading %	Yearly Average Savings <sup>†</sup>
US	\$98 billion	98%	\$336,140,000
Non-US Developed	\$24 billion	86%	\$103,200,000
Emerging Markets	\$5 billion	55%	\$22,000,000
Total	\$127 billion	94%	\$480,760,000

As of December 31, 2009, updated annually

\* Represents 2009 trading in Boston-managed passive equity commingled funds

<sup>†</sup>Based on SSgA estimates of trading costs of 35bps in US equities, 50bps in non-us developed equities, and 80bps in emerging markets equities.

**SSgA Internal Liquidity:** \$42 billion average monthly trading volume in 2009

# **Intelligent Index Management**

## **Pragmatic and realistic**

## Intelligent indexing

- Managing risk
- Capturing index returns
- Minimizing cost

## **Managing Index Changes**

#### Other value-added opportunities

- Stock lending
- Mergers and takeovers
- Rights issues

#### Managing Index changes

- One of the most important aspects of managing an index fund
- Every change is different

#### How do we deal with the changes?

- Detailed analysis before the index change date using pro-forma index files
- Size of change
- Estimated supply/demand
- Volatility/liquidity/bid-ask spread
- Team discussion with equity dealers to create trading strategy
- Post trade analysis

#### Strategies employed

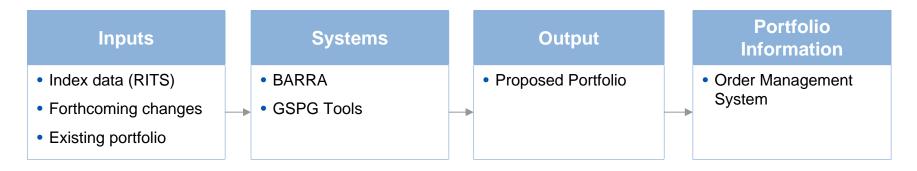
Guarantees/averaging in/crossing/patient trading

# **Risk Control Process Overview**

## We define risk as underperformance or overperformance to the benchmark

## • Tracking Error/Performance

- Monitored on a daily basis
- Single global accounting platform (GURU Global Unified Resource Utility)
- Analysis Tool: pre/post trade analysis
- Analyze tracking error using external systems: BARRA, Factset



Cash and	Cash Flow	Index	Corporate	Compliance/
Exposure Checks	Management	Changes	Actions	Trading Checks
<ul><li>Portfolio Manager</li><li>Head of Team</li></ul>	<ul> <li>CNG Process</li> <li>Dual PM sign-off and review of trades</li> </ul>	<ul> <li>Regional specialists</li> <li>Weekly team meeting</li> </ul>	<ul> <li>Operations</li> <li>Portfolio Manager/ team decision</li> </ul>	<ul> <li>Sentinel</li> <li>Pre-/post-trading verification</li> </ul>

# Full Access to Information and Team

## **Clear and transparent reporting**

- Direct access to portfolio management team
- Transaction cost allocation commingled funds isolated from participant activity
- Separation of lending revenue and portfolio performance
- Availability of portfolio and lending collateral pool holdings



# **GSPG** Research

## We work on more than just seeking to generate Index Returns

## Our three goals of research are:

#### Better portfolio management

- Seeks to minimize costs
- Seeks to minimize risk versus benchmark

Research examples:

- Transaction cost analysis
- Implementation tools full replication, sampling and optimization

Understanding the investment opportunity set

- Benchmark characteristics
- Benchmark dynamics
- Ways to manage exposure

#### Research examples:

- Benchmark comparisons
- Index change analysis
- New passive applications: hedge funds, commodities and wealth weighted benchmarks

#### **Investment themes**

- What investors should be thinking about
- How the investment landscape is changing

#### Research examples:

- · Separating Alpha and Beta
- The passive perspective on valuation errors
- Passive investing versus indexing
- · Rethinking the market portfolio
- Problems with manager universe data
- The equity risk premium
- True costs of active management
- Fundamentals-based Indexing

Dedicated Research staff Eric Brandhorst, CFA Taie Wang, CFA

# **Positive Trends in Indexing Continue**

## Indexing is still a vital component of equity exposure

## **Broad trends**

- Continued separation of beta from alpha ("portable beta")
- Continued growth in assets, especially in non-US markets
- Clients broadening passive exposure (e.g., S&P 500<sup>®</sup> to Russell 3000<sup>®</sup>, EAFE to ACWI)

## Index methodology changes/improvements

- Russell methodology changes
- MSCI Enhanced Standard and Small Cap Indexes

## **Specialty indexes**

- Hedge Fund Beta
- Fundamental Indexing (RAFI and SSgA Valuation Weighted Index Strategies)
- "Tilting" portfolios to express investors' views (e.g., quality tilt)

## Socially screened portfolios

- Continued interest and pressure to divest Sudan exposure
- · Companies involved in Iran and other "terrorist" states gaining attention
- Interest in socially screened MSCI EAFE<sup>®</sup>

## More focused ETFs

- Industry funds, sector funds, style funds
- Smaller shops opening funds with quasi-active indices, leverage, or distinct weighting schemes

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## **Russell Index Strategies**

Investing involves risk including the risk of loss of principal.



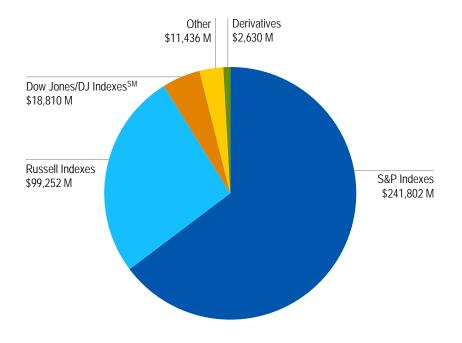


#### SSgA Russell Index Experience

- Managing money against the Russell indexes since 1988
- Currently managing against **18 Russell benchmarks**

Strategy	Assets
Russell 1000 <sup>®</sup>	\$13,467 M
Russell 1000 <sup>®</sup> Growth	5,195
Russell 1000 <sup>®</sup> Value	6,785
Russell Tobacco Free	238
Russell 2000 <sup>®</sup>	11,076
Russell 2000 <sup>®</sup> Growth	486
Russell 2000 <sup>®</sup> Value	922
Russell 2000 Index Futures	73
Russell 2500™	378
Russell 3000 <sup>®</sup>	47,392
Russell 3000 Screened	519
Russell 50 <sup>®</sup>	105
Russell 50 Tobacco Free	158
Russell Small Cap Completeness™	6,303
Russell Top 200 <sup>®</sup>	612
Russell Top 200 <sup>®</sup> Value	682
Russell Top 200 <sup>®</sup> Growth	380
TEMC (Russell 1000)	2,078
TEMC (Russell 3000)	2,403
Total	\$99,252 M

#### **US Index Assets Under Management** \$373,930 Million as of September 30, 2010



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#### **Investment Process**

Our systematic investment process seeks to provide benchmark-like returns by selecting the most efficient construction strategy, while minimizing transaction costs



Strategy	Construction	Execution	Analysis	Risk Review
Timely and precise processing of information:	Process and tools are regularly reviewed for possible enhancements:	Portfolio managers and traders work together to minimize transaction costs:	Portfolio performance is reviewed monthly:	Multidimensional risk approach combined with multiple levels of external review provides robust risk management:
<ul> <li>Portfolio information</li> <li>Benchmark information</li> <li>Market information</li> </ul>	<ul> <li>Flexible portfolio construction</li> <li>Single rebalancing platform</li> <li>Continual software enhancements</li> </ul>	<ul> <li>Seek all sources of liquidity via trading hierarchy</li> <li>Global trading network</li> <li>Analyze trade execution</li> </ul>	<ul> <li>Detailed attribution analysis</li> <li>Quarterly portfolio reviews with unit heads</li> </ul>	<ul> <li>Portfolio Management and Trading Systems</li> <li>SSgA Compliance</li> <li>Risk Management Group</li> <li>SSgA Investment Committee</li> </ul>

### **Russell Reconstitution 2010**

#### Estimated turnover estimates (one-way)

Strategy	Estimates
Russell 1000 <sup>®</sup> Index	3.92%
Russell 2000 <sup>®</sup> Index	9.47
Russell 3000 <sup>®</sup> Index	3.72

#### Preliminary adds and deletes

- Includes migrations for Russell 1000 and Russell 2000

Strategy	Adds	Deletes
Russell 1000 <sup>®</sup> Index	50	22
Russell 2000 <sup>®</sup> Index	255	227
Russell 3000 <sup>®</sup> Index	261	205

### **Russell Reconstitution 2010**

#### **Rule changes for 2010**

- Berkshire Hathaway
  - BRK.B is now eligible for inclusion in the Russell indices
  - Previously, Russell made a special case to exclude Berkshire due to its low liquidity and resemblance to a mutual fund
- New domicile rules
  - Russell looks at incorporation, headquarters and primary exchange as Home Country Indicators (HCI)
    - Uses assets and revenue tests relative to HCIs in an effort to better identify a company's underlying country
  - Many large Russell 1000 companies that were deleted in 2009 due to reincorporating to non-US locations are eligible again
    - Examples include Covidien, Tyco International, Cooper Industries
  - Many Chinese companies that were incorporated in the US but have the majority of their assets/revenues outside of the US were deleted from the Russell indices. Most of these companies were in the Russell 2000.
- Share Class Liquidity
  - Russell will use a rolling two-year share volume measure to determine the primary vehicle
  - Previously, Russell used a three-factor matrix to determine which share class is included in the index

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### **Russell Reconstitution 2010**

#### SSgA crossing estimates

Strategy	Buys	Sells	Total
Russell 1000 <sup>®</sup> Index	16.1%	36.9%	26.1%
Russell 2000 <sup>®</sup> Index	4.8	13.8	9.3
Russell 3000 <sup>®</sup> Index	2.1	34.0	18.1
All Russell Funds	56.3	56.3	56.3



### **Russell 1000 Growth Index Strategy**

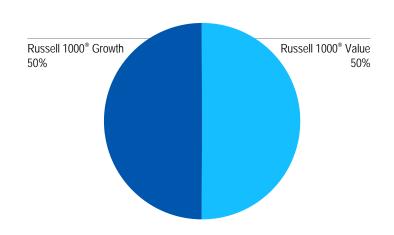




#### **Russell 1000<sup>®</sup> Growth Index Strategy Overview**

#### Objective: Seeks to match the returns and characteristics of the Russell 1000<sup>®</sup> Growth Index as closely as practicable, before expenses

- Russell 1000<sup>®</sup> Growth Index Strategy
  - Replication with additive offsets
  - Daily openings
  - May use exchange traded index futures to achieve equity exposure
- Russell 1000<sup>®</sup> Growth Index
  - Large-cap equity representing approximately 50% of the Russell 1000<sup>®</sup> Index
  - The US securities in the Russell 1000<sup>®</sup> Index that have the greatest growth characteristics
  - Float adjusted market capitalization
  - Annual reconstitution
  - Five year average historical turnover: 14%



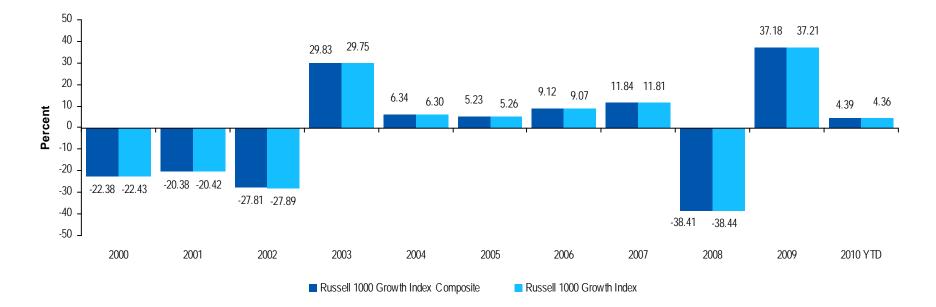
Russell 1000<sup>®</sup>

#### As of September 30, 2010

Although some investments may exhibit certain characteristics of leverage transactions, SSgA will not borrow money or use derivatives for the Russell 1000° Growth Index Strategy in a manner that SSgA considers to have the purpose of creating investment leverage. Investments made by SSgA to hedge or reduce risk will not be considered to have been made for the purpose of creating investment leverage; SSgA generally will determine whether an investment has the effect of creating investment leverage; SSgA generally will determine whether an investment has the effect of creating investment leverage; SSgA generally will determine whether an investment has the effect of creating investment leverage; SSgA generally will determine whether an investment has the effect of creating investment on the exposure and risk profile of the Strategy's portfolio as a whole. The Russell 1000° Growth Index is a trademark of the Russell Investment Group. Russell Investment Group is the source and owner of the trademarks, service marks and copyrights related to the Russell Indexes.

#### Gross annualized returns for the period ending September 30, 2010 (USD)

	Qtr	YTD	1 Year	3 Years	5 Years	10 Years	Since Inception <sup>†</sup>
Russell 1000 <sup>®</sup> Growth Index Composite	12.99%	4.39%	12.66%	-4.34%	2.08%	-3.40%	6.89%
Russell 1000 <sup>®</sup> Growth Index	13.00	4.36	12.65	-4.36	2.06	-3.44	6.89
Difference*	-0.01	0.03	0.01	0.02	0.02	0.04	0.00



<sup>†</sup> Inception date: October 1, 1991

\* The value added returns may show rounding differences.

The performance shown is of a composite created 01/01/09 consisting of all discretionary accounts using this investment strategy. There is no minimum account size required for inclusion in the composite. New funds or accounts are added to the composite upon the first full month of operation and closed funds or accounts are removed from the composite upon the last full month of operation. The above information is considered supplemental. A complete description of this composite as well as a complete presentation that complies with the requirements of the GIPS standards is provided in the Appendix or was previously presented. A GIPS presentation is also available upon request.

Past performance is no guarantee of future results. Performance returns for periods of less than one year are not annualized. The performance figures contained herein are provided on a gross of fees basis and do not reflect the deduction of advisory or other fees which could reduce the return. The performance includes the reinvestment of dividends and other corporate earnings and is calculated in US dollars.

The index returns are unmanaged and do not reflect the deduction of any fees or expenses. The index returns reflect all items of income,

gain and loss and the reinvestment of dividends and other income.

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### **Russell 1000 Value Index Strategy**

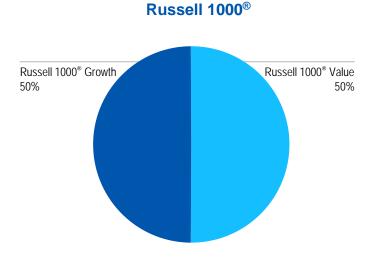




### Russell 1000<sup>®</sup> Value Index Strategy Overview

#### Objective: Seeks to match the returns and characteristics of the Russell 1000<sup>®</sup> Value index as closely as practicable, before expenses

- Russell 1000<sup>®</sup> Value Index Strategy
  - Replication with additive offsets
  - Daily openings
  - May use exchange traded index futures to achieve equity exposure
- Russell 1000<sup>®</sup> Value Index
  - Large-cap value equity representing approximately 50% of the Russell 1000<sup>®</sup> Index
  - Float adjusted market capitalization
  - Annual reconstitution
  - Five year average historical turnover: 14%



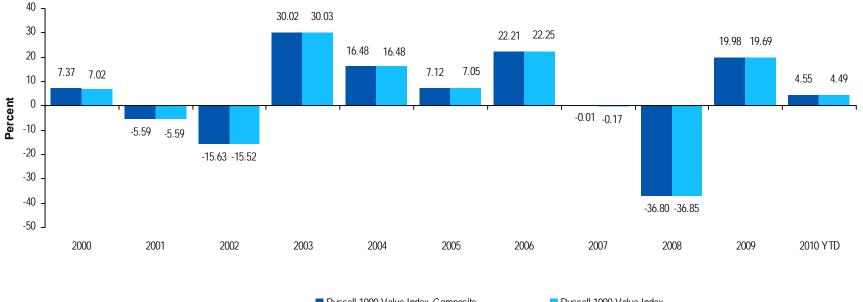
#### As of September 30, 2010

Although some investments may exhibit certain characteristics of leverage transactions, SSgA will not borrow money or use derivatives for the Russell 1000<sup>®</sup> Value Index Strategy in a manner that SSgA considers to have the purpose of creating investment leverage. Investments made by SSgA to hedge or reduce risk will not be considered to have been made for the purpose of creating investment leverage; SSgA generally will determine whether an investment has the effect of creating investment leverage by evaluating the effect of the investment on the exposure and risk profile of the Strategy's portfolio as a whole.

The Russell 1000° Value Index is a trademark of the Russell Investment Group. Russell Investment Group is the source and owner of the trademarks, service marks and copyrights related to the Russell Indexes.

#### Gross annualized returns for the period ending September 30, 2010 (USD)

	Qtr	YTD	1 Year	3 Years	5 Years	10 Years	Since Inception <sup>†</sup>
Russell 1000 <sup>®</sup> Value Composite	10.15%	4.55%	9.01%	-9.26%	-0.38%	2.64%	9.06%
Russell 1000 <sup>®</sup> Value Index	10.13	4.49	8.90	-9.39	-0.48	2.59	9.05
Difference*	0.02	0.05	0.11	0.13	0.10	0.05	0.01



Russell 1000 Value Index Composite

Russell 1000 Value Index

<sup>†</sup> Inception date: October 1, 1991

\*The value added returns may show rounding differences.

The performance shown is of a composite created 01/01/09 consisting of all discretionary accounts using this investment strategy. There is no minimum account size required for inclusion in the composite. New funds or accounts are added to the composite upon the first full month of operation and closed funds or accounts are removed from the composite upon the last full month of operation. The above information is considered supplemental. A complete description of this composite as well as a complete presentation that complies with the requirements of the GIPS standards is provided in the Appendix or was previously presented. A GIPS presentation is also available upon request. Past performance is no guarantee of future results. Performance returns for periods of less than one year are not annualized. The performance figures contained herein are provided on a gross of fees basis and do not reflect the deduction of advisory or other fees which could reduce the return. The performance includes the reinvestment of dividends and other corporate earnings and is calculated in US dollars.

The index returns are unmanaged and do not reflect the deduction of any fees or expenses. The index returns reflect all items of income,

gain and loss and the reinvestment of dividends and other income.

S:R10V/Cg:PAR100V





### **Russell 2000<sup>®</sup> Growth Index Strategy**

Investing involves risk including the risk of loss of principal.

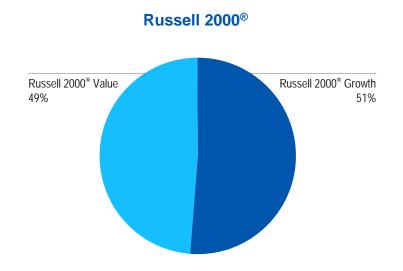




#### **Russell 2000<sup>®</sup> Growth Index Strategy Overview**

# Objective: Seeks to match the returns and characteristics of the Russell 2000<sup>®</sup> Growth index as closely as practicable, before expenses

- Russell 2000<sup>®</sup> Growth Index Strategy
  - Replication with additive offsets
  - Daily openings
  - May use exchange traded index futures to achieve equity exposure
- Russell 2000<sup>®</sup> Growth Index
  - Small-cap growth equity representing approximately 51% of the Russell 2000<sup>®</sup> Index
  - The US securities in the Russell 2000<sup>®</sup> Index that have the greatest growth characteristics
  - Float adjusted market capitalization
  - Annual reconstitution
  - Five year average historical turnover: 35%

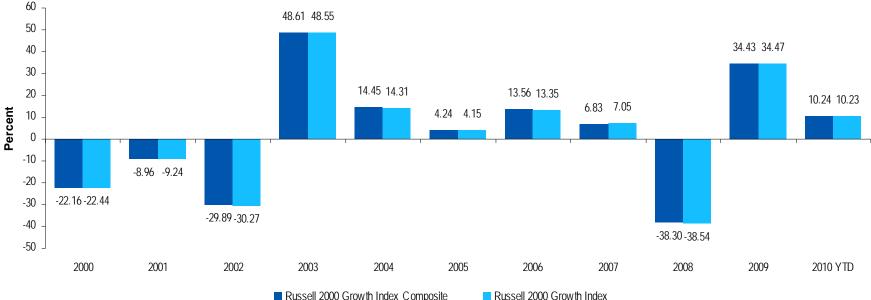


Although some investments may exhibit certain characteristics of leverage transactions, SSgA will not borrow money or use derivatives for the Russell 2000° Growth Index Strategy in a manner that SSgA considers to have the purpose of creating investment leverage. Investments made by SSgA to hedge or reduce risk will not be considered to have been made for the purpose of creating investment leverage; SSgA generally will determine whether an investment has the effect of creating investment leverage by evaluating the effect of the investment on the exposure and risk profile of the Strategy's portfolio as a whole. Russell Investment Group is the source and owner of the trademarks, service marks and copyrights related to the Russell Indexes The Russell 2000° Growth Index is a trademark of Russell Investment Group.

As of September 30, 2010

#### Gross annualized returns for the period ending September 30, 2010 (USD)

	Qtr	YTD	1 Year	3 Years	5 Years	10 Years	Since Inception <sup>†</sup>
Russell 2000 Growth Index Composite	12.80%	10.24%	14.80%	-3.63%	2.24%	0.06%	4.46%
Russell 2000 Growth Index	12.83	10.23	14.79	-3.75	2.35	-0.13	4.37
Difference**	-0.03	0.01	0.01	0.11	0.07	0.18	0.09



Russell 2000 Growth Index Composite

† Inception date: May 1, 1997

\* The value added returns may show rounding differences.

The performance shown is of a composite created 01/01/09 consisting of all discretionary accounts using this investment strategy. There is no minimum account size required for inclusion in the composite. New funds or accounts are added to the composite upon the first full month of operation and closed funds or accounts are removed from the composite upon the last full month of operation. The above information is considered supplemental. A complete description of this composite as well as a complete presentation that complies with the requirements of the GIPS standards is provided in the Appendix or was previously presented. A GIPS presentation is also available upon request.

Past performance is no guarantee of future results. Performance returns for periods of less than one year are not annualized. The performance figures contained herein are provided on a gross of fees basis and do not reflect the deduction of advisory or other fees which could reduce the return. The performance includes the reinvestment of dividends and other corporate earnings and is calculated in US dollars.

The index returns are unmanaged and do not reflect the deduction of any fees or expenses. The index returns reflect all items of income,

gain and loss and the reinvestment of dividends and other income.

S:R20G/C:gPAR200G



### **Russell 2000<sup>®</sup> Value Index Strategy**

Investing involves risk including the risk of loss of principal.

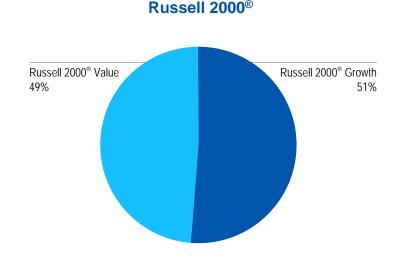




#### **Russell 2000<sup>®</sup> Value Index Strategy Overview**

# Objective: Seeks to match the returns and characteristics of the Russell 2000<sup>®</sup> Value Index as closely as practicable, before expenses

- Russell 2000<sup>®</sup> Value Index Strategy
  - Replication with additive offsets
  - Daily openings
  - May use exchange traded index futures to achieve equity exposure
- Russell 2000<sup>®</sup> Value Index
  - Small-cap value equity representing approximately 49% of the Russell 2000<sup>®</sup> Index
  - The US securities in the Russell 2000<sup>®</sup> Index that have the greatest value characteristics
  - Float adjusted market capitalization
  - Annual reconstitution
  - Five year average historical turnover: 31%



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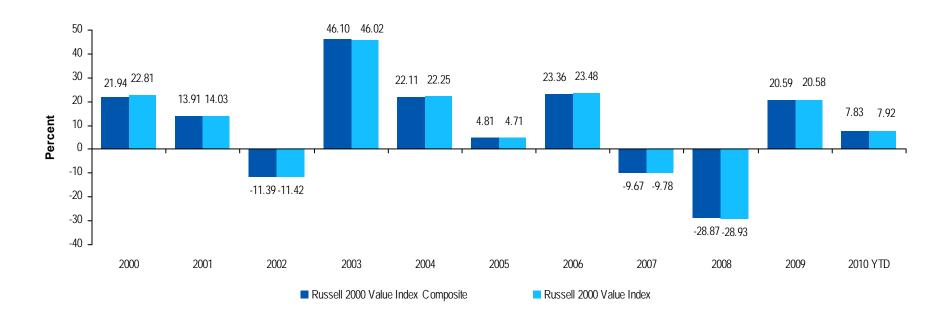
The Russell 2000<sup>®</sup> Value Index is a trademark of Russell Investment Group.

As of September 30, 2010

Although some investments may exhibit certain characteristics of leverage transactions, SSgA will not borrow money or use derivatives for the Russell 2000 Value Index Strategy in a manner that SSgA considers to have the purpose of creating investment leverage. Investments made by SSgA to hedge or reduce risk will not be considered to have been made for the purpose of creating investment leverage; SSgA generally will determine whether an investment has the effect of creating investment leverage by evaluating the effect of the investment on the exposure and risk profile of the Strategy's portfolio as a whole.

#### Gross annualized returns for the period ending September 30, 2010 (USD)

	Qtr	YTD	1 Year	3 Years	5 Years	10 Years	Since Inception <sup>†</sup>
Russell 2000 <sup>®</sup> Value Index Strategy	9.64%	7.83%	11.72%	-4.98%	0.75%	7.71%	8.55%
Russell 2000 <sup>®</sup> Value Index	9.72	7.92	11.84	-4.99	0.73	7.72	8.60
Difference**	-0.08	-0.09	-0.12	0.01	0.02	0.00	-0.04



† Inception date: May, 1996

\* The value added returns may show rounding differences.

The performance shown is of a composite created 01/01/09 consisting of all discretionary accounts using this investment strategy. There is no minimum account size required for inclusion in the composite. New funds or accounts are added to the composite upon the first full month of operation and closed funds or accounts are removed from the composite upon the last full month of operation. The above information is considered supplemental. A complete description of this composite as well as a complete presentation that complies with the requirements of the GIPS standards is provided in the Appendix or was previously presented. A GIPS presentation is also available upon request. Past performance is no guarantee of future results. Performance returns for periods of less than one year are not annualized. The performance figures contained herein are provided on a gross of fees basis and do not reflect the deduction of advisory or other fees which could reduce the return. The performance includes the reinvestment of dividends and other corporate earnings and is calculated in US dollars. The index returns are unmanaged and do not reflect the deduction of any fees or expenses. The index returns reflect all items of income, gain and loss and the reinvestment of dividends and other income. S:R20V/C:gPR2000V



### **Russell 3000 Index<sup>®</sup> Strategy**

Investing involves risk including the risk of loss of principal.

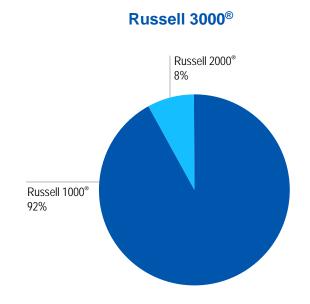




#### **Russell 3000<sup>®</sup> Index Strategy Overview**

#### Objective: Seeks to match the returns and characteristics of the Russell 3000<sup>®</sup> index as closely as practicable, before expenses

- Russell 3000<sup>®</sup> Index Strategy
  - Replication with additive offsets
  - Daily openings
  - May use exchange traded index futures to achieve equity exposure
- Russell 3000<sup>®</sup> Index
  - Broad market equity covering approximately 98% of the investable US equity market
  - Float adjusted market capitalization
  - Annual reconstitution
  - Five year average historical turnover: 3%



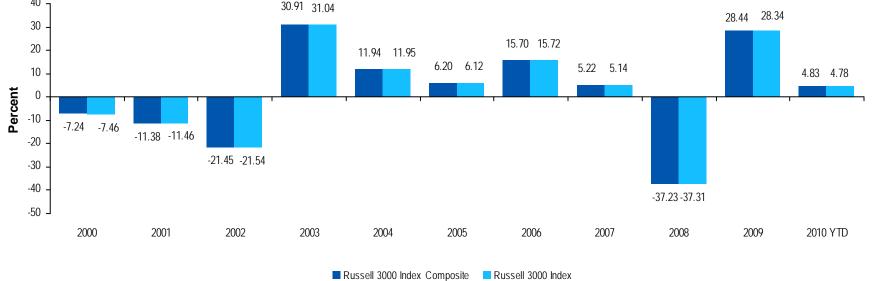
#### As of September 30, 2010

Although some investments may exhibit certain characteristics of leverage transactions, SSgA will not borrow money or use derivatives for the Russell 3000° Index Strategy in a manner that SSgA considers to have the purpose of creating investment leverage. Investments made by SSgA to hedge or reduce risk will not be considered to have been made for the purpose of creating investment leverage; SSgA generally will determine whether an investment has the effect of creating investment leverage by evaluating the effect of the investment on the exposure and risk profile of the Strategy's portfolio as a whole. The Russell 3000° Index is a trademark of the Russell Investment Group. Russell Investment Group is the source and owner of the trademarks, service marks and copyrights related to the Russell Indexes.

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#### Gross annualized returns for the period ending September 30, 2010 (USD)

	Q3 10	YTD	1 Year	3 Years	5 Years	10 Years	Since Inception <sup>†</sup>
Russell 3000 <sup>®</sup> Index Composite	11.55%	4.83%	11.05%	-6.52%	0.98%	0.18%	6.23%
Russell 3000 <sup>®</sup> Index	11.53	4.78	10.96	-6.59	0.92	0.09	6.11
Difference*	0.02	0.05	0.09	0.07	0.06	0.08	0.12



<sup>†</sup> Inception date: September 1, 1996

\* The value added returns may show rounding differences.

The performance shown is of a composite created 01/01/09 consisting of all discretionary accounts using this investment strategy. There is no minimum account size required for inclusion in the composite. New funds or accounts are added to the composite upon the first full month of operation and closed funds or accounts are removed from the composite upon the last full month of operation. The above information is considered supplemental. A complete description of this composite as well as a complete presentation that complies with the requirements of the GIPS standards is provided in the Appendix or was previously presented. A GIPS presentation is also available upon request.

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The index returns are unmanaged and do not reflect the deduction of any fees or expenses. The index returns reflect all items of income, gain and loss and the reinvestment of dividends and other income. S:R30/Cq:PAR3000 CMV1LEN





### **Russell Top 200<sup>®</sup> Strategy**

Investing involves risk including the risk of loss of principal.

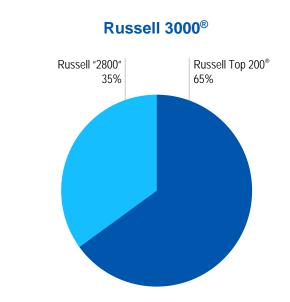




#### **Russell Top 200<sup>®</sup> Index Strategy Overview**

# Objective: Seeks to match the returns and characteristics of the Russell Top 200<sup>®</sup> index as closely as practicable, before expenses

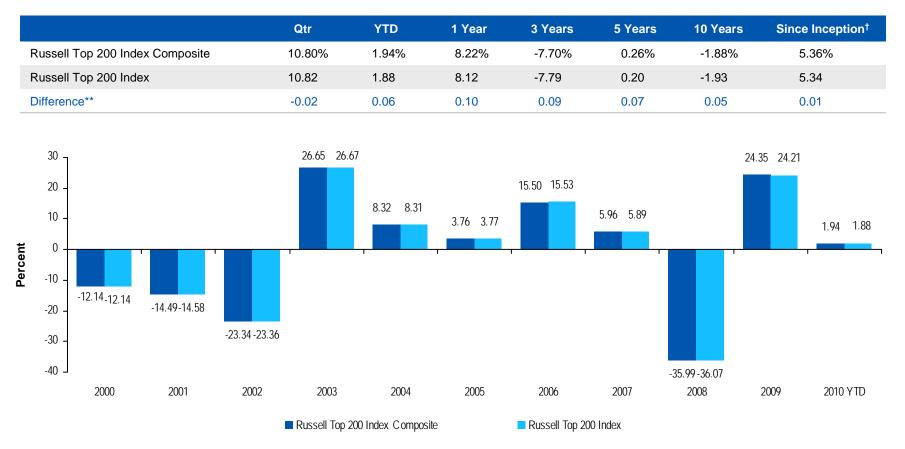
- Russell Top 200<sup>®</sup> Index Strategy
  - Replication with additive offsets
  - Daily openings
  - May use exchange traded index futures to achieve equity exposure
- Russell Top 200<sup>®</sup> Index
  - Largest 200 US securities in the US equity market based on total market capitalization
  - Represents approximately 65% of the broad market Russell 3000<sup>®</sup> Index
  - Float adjusted market capitalization
  - Annual reconstitution
  - Five year average historical turnover: 5%



Although some investments may exhibit certain characteristics of leverage transactions, SSgA will not borrow money or use derivatives for the Russell Top 200 Index Strategy in a manner that SSgA considers to have the purpose of creating investment leverage. Investments made by SSgA to hedge or reduce risk will not be considered to have been made for the purpose of creating investment leverage; SSgA generally will determine whether an investment has the effect of creating investment leverage by evaluating the effect of the investment on the exposure and risk profile of the Strategy's portfolio as a whole. Russell Investment Group is the source and owner of the trademarks, service marks and copyrights related to the Russell Indexes.

As of September 30, 2010

#### Gross annualized returns for the period ending September 30, 2010 (USD)



† Inception date: August, 1996

\* The value added returns may show rounding differences.

The performance shown is of a composite created 01/01/09 consisting of all discretionary accounts using this investment strategy. There is no minimum account size required for inclusion in the composite. New funds or accounts are added to the composite upon the first full month of operation and closed funds or accounts are removed from the composite upon the last full month of operation. The above information is considered supplemental. A complete description of this composite as well as a complete presentation that complies with the requirements of the GIPS standards is provided in the Appendix or was previously presented. A GIPS presentation is also available upon request. Past performance is no guarantee of future results. Performance returns for periods of less than one year are not annualized. The performance figures contained herein are provided on a gross of fees basis and do not reflect the deduction of advisory or other fees which could reduce the return. The performance includes the reinvestment of dividends and other corporate earnings and is calculated in US dollars.

The index returns are unmanaged and do not reflect the deduction of any fees or expenses. The index returns reflect all items of income, gain and loss and the reinvestment of dividends and other income. S:R200/C:gPART200 STATE STREET GLOBAL ADVISORS.

## **S&P Index Strategies**

Investing involves risk including the risk of loss of principal.



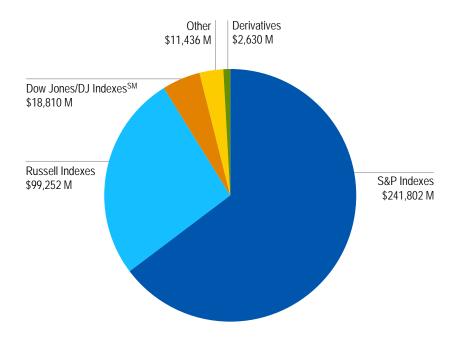


### SSgA S&P Index Experience

- Managing money against the S&P indices since 1978
- Currently managing against 13 S&P benchmarks

Strategy	Assets
S&P 500 <sup>®</sup>	\$102,507 M
SPDRs	78,252
Conservative S&P 500	312
Equal Weighted S&P 500	371
Screened S&P 500	3,707
Tax-Efficient Market Capture S&P	3,223
Tobacco-Free S&P 500	976
S&P MidCap 400 <sup>®</sup>	8,149
S&P MidCap Growth®	80
S&P 500 <sup>®</sup> Value	871
S&P 500 <sup>®</sup> Growth	76
S&P MLP Index	211
US Sector Index	38,838
S&P 100 <sup>®</sup>	235
S&P 500 <sup>®</sup> Index Futures	503
S&P High Yield Div. Aristocrat	3,491
Total	\$241,802 M

#### **US Index Assets Under Management** \$373,930 Million as of September 30, 2010



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Standard & Poor's S&P Indices are registered trademarks of Standard & Poor's Financial Services LLC.

#### **Investment Process**

Our systematic investment process seeks to provide benchmark-like returns by selecting the most efficient construction strategy, while minimizing transaction costs



Strategy	Construction	Execution	Analysis	Risk Review
Timely and precise processing of information:	Process and tools are regularly reviewed for possible enhancements:	Portfolio managers and traders work together to minimize transaction costs:	Portfolio performance is reviewed monthly:	Multidimensional risk approach combined with multiple levels of external review provides robust risk management:
<ul> <li>Portfolio information</li> <li>Benchmark information</li> <li>Market information</li> </ul>	<ul> <li>Flexible portfolio construction</li> <li>Single rebalancing platform</li> <li>Continual software enhancements</li> </ul>	<ul> <li>Seek all sources of liquidity via trading hierarchy</li> <li>Global trading network</li> <li>Analyze trade execution</li> </ul>	<ul> <li>Detailed attribution analysis</li> <li>Quarterly portfolio reviews with unit heads</li> </ul>	<ul> <li>Portfolio Management and Trading Systems</li> <li>SSgA Compliance</li> <li>Risk Management Group</li> <li>SSgA Investment Committee</li> </ul>



### S&P 500<sup>®</sup> Index Strategy

Investing involves risk including the risk of loss of principal.





#### S&P 500<sup>®</sup> Index Strategy Overview

#### Objective: Seeks to match the returns and characteristics of the S&P 500 Index as closely as practicable, before expenses

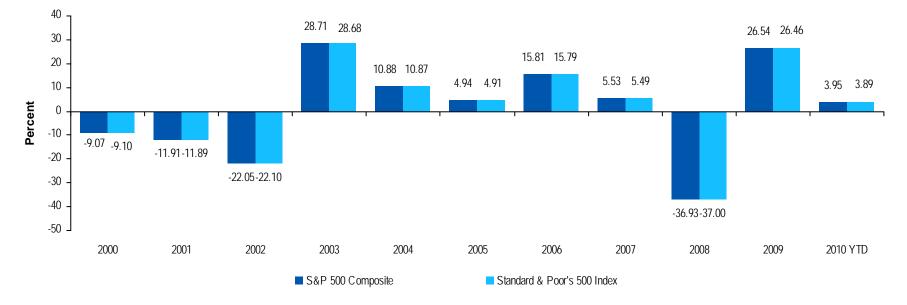
- S&P 500 Index Strategy
  - Replication with additive offsets
  - Daily openings
  - May use exchange traded index futures to achieve equity exposure
- S&P 500 Index: Exposure to 500 leading companies in leading industries
  - Large-cap equity covering about 75% of US market
  - Float-adjusted market capitalization
  - Continuous reconstitution
  - Five year average historical turnover: 4.8%

As of September 30, 2010

Although some investments may exhibit certain characteristics of leverage transactions, SSgA will not borrow money or use derivatives for the S&P 500 Index Strategy in a manner that SSgA considers to have the purpose of creating investment leverage. Investments made by SSgA to hedge or reduce risk will not be considered to have been made for the purpose of creating investment leverage; SSgA generally will determine whether an investment has the effect of creating investment leverage by evaluating the effect of the investment on the exposure and risk profile of the Strategy's portfolio as a whole.

#### Gross annualized returns for the period ending September 30, 2010 (USD)

	Qtr	YTD	1 Year	3 Years	5 Years	10 Years	Since Inception <sup>†</sup>
S&P 500 Index Composite	11.31%	3.95%	10.24%	-7.10%	0.69%	-0.39%	9.62%
S&P 500 Index	11.29	3.89	10.16	-7.16	0.64	-0.43	9.59
Difference*	0.02	0.06	0.08	0.06	0.05	0.04	0.03



<sup>†</sup> Inception date: January 1, 1986

\* The value added returns may show rounding differences.

The performance shown is of a composite created 01/01/09 consisting of all discretionary accounts using this investment strategy. There is no minimum account size required for inclusion in the composite. New funds or accounts are added to the composite upon the first full month of operation and closed funds or accounts are removed from the composite upon the last full month of operation. The above information is considered supplemental. A complete description of this composite as well as a complete presentation that complies with the requirements of the GIPS standards is provided in the Appendix or was previously presented. A GIPS presentation is also available upon request.

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The index returns are unmanaged and do not reflect the deduction of any fees or expenses. The index returns reflect all items of income, gain and loss and the reinvestment of dividends and other income. S:SP5/C:qPASP500 CM11

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## **MSCI Index Strategies**

Investing in foreign domiciled securities may involve risk of capital loss from unfavorable fluctuation in currency values, withholding taxes, from differences in generally accepted accounting principles or from economic or political instability in other nations. Investments in emerging or developing markets may be more volatile and less liquid than investing in developed markets and may involve exposure to economic structures that are generally less diverse and mature and to political systems which have less stability than those of more developed countries.



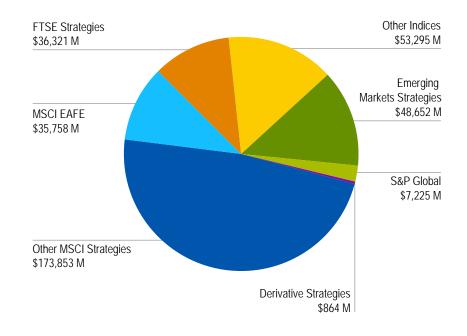
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### SSgA Non-US Index Experience

 Managing money against non-US indexes since 1979 and emerging markets indices since 1991

Strategy	Assets
MSCI ACWI IMI	\$4,062 M
MSCI ACWI	6,310
MSCI ACWI ex US IMI	5,934
MSCI ACWI ex US	12,220
MSCI World	23,620
MSCI World ex local	16,496
MSCI World ex US IMI	8,494
MSCI EAFE	35,758
MSCI EAFE Small Cap	268
MSCI Emerging Mkts	43,086
FTSE Strategies	36,321
S&P Global Indices	7,225

#### Assets Under Management \$355,969 Million as of September 30, 2010



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The MSCI Indexes are trademarks of MSCI, Inc. Standard & Peorle S&P Indexes are registered trademarks of Standard & Peorle Fil

#### **Investment Process**

Our systematic investment process seeks to provide benchmark-like returns by selecting the most efficient construction strategy, while minimizing transaction costs



Strategy	Construction	Execution	Analysis	Risk Review
Timely and precise processing of information:	Process and tools are regularly reviewed for possible enhancements:	Portfolio managers and traders work together to minimize transaction costs:	Portfolio performance is reviewed monthly:	Multidimensional risk approach combined with multiple levels of external review provides robust risk management:
<ul> <li>Portfolio information</li> <li>Benchmark information</li> <li>Market information</li> </ul>	<ul> <li>Flexible portfolio construction</li> <li>Single rebalancing platform</li> <li>Continual software enhancements</li> </ul>	<ul> <li>Seek all sources of liquidity via trading hierarchy</li> <li>Global trading network</li> <li>Analyze trade execution</li> </ul>	<ul> <li>Detailed attribution analysis</li> <li>Quarterly portfolio reviews with unit heads</li> </ul>	<ul> <li>Portfolio Management and Trading Systems</li> <li>SSgA Compliance</li> <li>Risk Management Group</li> <li>SSgA Investment Committee</li> </ul>

### **Recent MSCI Index Change**

#### MSCI moved Israel from Emerging to Developed Market Status on May 26, 2010

- Effective as of the close on May 26, 2010, coinciding with MSCI's semi-annual index review
- Israel will be included in the developed MSCI EAFE and MSCI World Indexes, and exit the MSCI Emerging Markets Index
  - Investors generally agreed that Israel met the criteria for classification as a developed market in terms of its treatment of investors, free flow of capital, cost of investment, and country specific risk
  - There has not been a change in classification from Emerging to Developed status by MSCI since Greece graduated in 2001, and Portugal in 1997
- The estimated weight of Israel as of 3/31/10 in MSCI EAFE is 0.87%, MSCI World ex US is 0.79% and MSCI World is 0.40%
  - The current weight of Israel in the MSCI Emerging Markets Index is 2.84%
- Much of the trading needed to affect this change will net or cross, as developed market clients need to buy, while emerging market clients need to sell
  - There will be net buying in Israel since the assets of passive developed mandates are greater than those of emerging mandates, even on a cap-weighted basis

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### **MSCI EAFE® Index Strategy**

Investing in foreign domiciled securities may involve risk of capital loss from unfavorable fluctuation in currency values, withholding taxes, from differences in generally accepted accounting principles or from economic or political instability in other nations. Investments in emerging or developing markets may be more volatile and less liquid than investing in developed markets and may involve exposure to economic structures that are generally less diverse and mature and to political systems which have less stability than those of more developed countries.





#### **MSCI EAFE® Strategy Overview**

#### Objective: Seeks to match the returns and characteristics of the MSCI EAFE<sup>®</sup> Index as closely as practicable, before expenses

- MSCI EAFE Index Strategy
  - Replication with additive offsets
  - Daily fund for DC Plans
  - Bi-monthly fund to maximize crossing opportunities
  - May use exchange traded index futures to achieve equity exposure
- MSCI EAFE Benchmark: Broad-based international index
  - Consists of approximately 965 stocks in 22 countries outside North and South America
  - Seeks to capture 85% of each sector in each market
  - Quarterly reconstitution
  - Five year average historical turnover: 3%

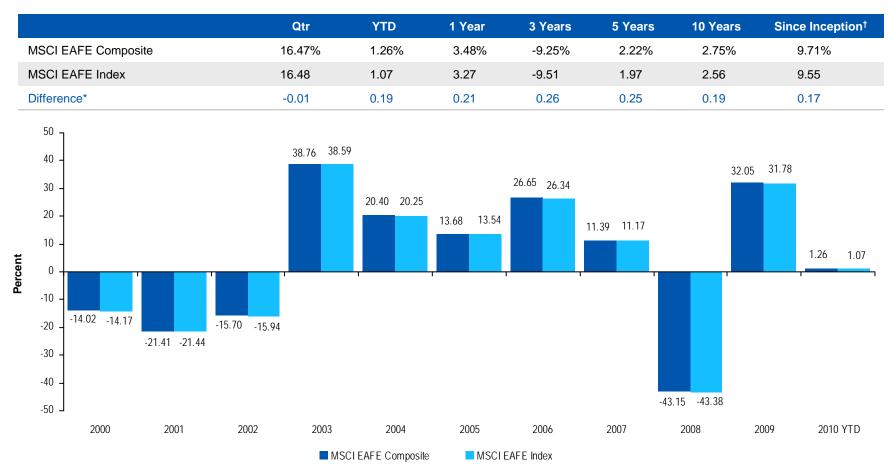
**MSCI EAFE Markets** 

Australia Austria Belgium Denmark Finland France Germany Greece Hong Kong Ireland Israel Italy Japan **Netherlands** New Zealand Norway Portugal Singapore Spain Sweden Switzerland United Kingdom

As of September 30, 2010

Although some investments may exhibit certain characteristics of leverage transactions, SSgA will not borrow money or use derivatives for the MSCI EAFE Strategy in a manner that SSgA considers to have the purpose of creating investment leverage. Investments made by SSgA to hedge or reduce risk will not be considered to have been made for the purpose of creating investment leverage; SSgA generally will determine whether an investment has the effect of creating investment on the exposure and risk profile of the Strategy's portfolio as a whole.

#### Gross annualized returns for the period ending September 30, 2010 (USD)



† Inception date: January 1985

S:EAFE/C:qP-EAFE

\* The value added returns may show rounding differences.

The performance shown is of a composite created 01/01/09 consisting of all discretionary accounts using this investment strategy. There is no minimum account size required for inclusion in the composite. New funds or accounts are added to the composite upon the first full month of operation and closed funds or accounts are removed from the composite upon the last full month of operation. The above information is considered supplemental. A complete description of this composite as well as a complete presentation that complies with the requirements of the GIPS standards is provided in the Appendix or was previously presented. A GIPS presentation is also available upon request. Past performance is no guarantee of future results. Performance returns for periods of less than one year are not annualized. The performance figures contained herein are provided on a gross of fees basis and do not reflect the deduction of advisory or other fees which could reduce the return. The performance includes the reinvestment of dividends and other corporate earnings and is calculated in US dollars. The index returns are unmanaged and do not reflect the deduction of any fees or expenses.

The index returns reflect all items of income, gain and loss and the reinvestment of dividends and other income.

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### **MSCI ACWI Strategy**

Investing in foreign domiciled securities may involve risk of capital loss from unfavorable fluctuation in currency values, withholding taxes, from differences in generally accepted accounting principles or from economic or political instability in other nations. Investments in emerging or developing markets may be more volatile and less liquid than investing in developed markets and may involve exposure to economic structures that are generally less diverse and mature and to political systems which have less stability than those of more developed countries.





## **MSCI ACWI Strategy Overview**

#### Objective: Seeks to match the returns and characteristics of the MSCI ACWI Index as closely as practicable, before expenses

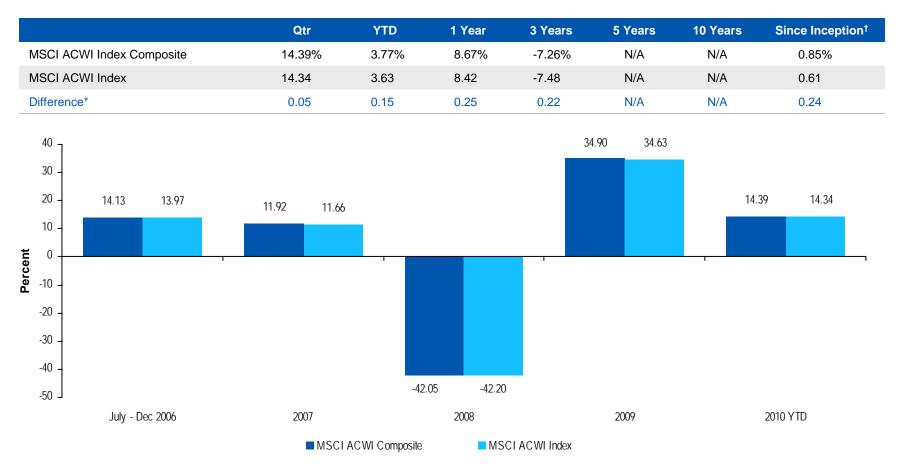
- MSCI ACWI Strategy
  - Replication with additive offsets
  - Bi-monthly fund for maximized crossing opportunities
  - May use exchange traded index futures to achieve equity exposure
- MSCI All Country World Index: Broad-based global index
  - Comprised of approximately 2,400 stocks in 45 countries\*
  - Seeks to capture 85% of the market cap in each country
  - Quarterly reconstitution
  - Five year average historical turnover: 4%

#### **MSCI ACWI Markets**

Developed Emerging Australia Brazil Chile Austria Belgium China Canada Colombia Denmark Czech Rep. Finland Egypt France Hungary Germany India Greece Indonesia Hong Kong Korea Ireland Malaysia Mexico Israel Italy Morocco Japan Peru Netherlands Philippines New Zealand Poland Russia Norway Portugal South Africa Taiwan Singapore Thailand Spain Sweden Turkey Switzerland UK United States

Although some investments may exhibit certain characteristics of leverage transactions, SSgA will not borrow money or use derivatives for the MSCI ACWI Strategy in a manner that SSgA considers to have the purpose of creating investment leverage. Investments made by SSgA to hedge or reduce risk will not be considered to have been made for the purpose of creating investment leverage; SSgA generally will determine whether an investment has the effect of creating investment leverage by evaluating the effect of the investment on the exposure and risk profile of the Strategy's portfolio as a whole.

#### Gross annualized returns for the period ending September 30, 2010 (USD)



<sup>†</sup> Inception date: July 1, 2006

\*The value added returns may show rounding differences.

The performance shown is of a composite created 01/01/09 consisting of all discretionary accounts using this investment strategy. There is no minimum account size required for inclusion in the composite. New funds or accounts are added to the composite upon the first full month of operation and closed funds or accounts are removed from the composite upon the last full month of operation. The above information is considered supplemental. A complete description of this composite as well as a complete presentation that complies with the requirements of the GIPS standards is provided in the Appendix or was previously presented. A GIPS presentation is also available upon request.

Past performance is no guarantee of future results. Performance returns for periods of less than one year are not annualized. The performance figures contained herein are provided on a gross of fees basis and do not reflect the deduction of advisory or other fees which could reduce the return. The performance includes the reinvestment of dividends and other corporate earnings and is calculated in US dollars.

The index returns are unmanaged and do not reflect the deduction of any fees or expenses. The index returns reflect all items of income,

gain and loss and the reinvestment of dividends and other income. gP-ACWI2





## **MSCI ACWI ex-US Index Strategy**

Investing in foreign domiciled securities may involve risk of capital loss from unfavorable fluctuation in currency values, withholding taxes, from differences in generally accepted accounting principles or from economic or political instability in other nations. Investments in emerging or developing markets may be more volatile and less liquid than investing in developed markets and may involve exposure to economic structures that are generally less diverse and mature and to political systems which have less stability than those of more developed countries.





## MSCI All Country World Index ex-US Strategy Overview

### **Objective: Seeks to match the returns and characteristics of the MSCI** ACWI ex-US Index as closely as practicable, before expenses

- MSCI ACWI ex-US Strategy
  - Replication with additive offsets
  - Daily fund for DC Plans
  - Bi-monthly fund for maximized crossing opportunities
  - Securities Lending available
  - May use exchange traded index futures to achieve equity exposure
- MSCI All Country World ex-US Index: Broad-based global index
  - Representative sampling of approximately 1,820 stocks in 44 countries
  - Seeks to capture 85% of the market cap in each country
  - Quarterly reconstitution
  - Five year average historical turnover: 5%

#### MSCI ACWI ex-US Markets

Developed Emerging Australia Brazil Austria Chile China Belaium Canada Colombia Denmark Czech Rep. Finland Egypt France Hungary Germany India Greece Indonesia Hong Kong Korea Ireland Malaysia Israel Mexico Morocco Japan Italy Peru Netherlands Philippines New Zealand Poland Norway Russia Portugal South Africa Singapore Taiwan Spain Thailand Sweden Turkey Switzerland UK

As of September 30, 2010

Although some investments may exhibit certain characteristics of leverage transactions, SSgA will not borrow money or use derivatives for the MSCI ACWI ex-US Strategy in a manner that SSgA considers to have the purpose of creating investment leverage. Investments made by SSgA to hedge or reduce risk will not be considered to have been made for the purpose of creating investment leverage; SSgA generally will determine whether an investment has the effect of creating investment leverage

by evaluating the effect of the investment on the exposure and risk profile of the Strategy's portfolio as a whole.

#### Gross annualized returns for the period ending September 30, 2010 (USD)



<sup>†</sup> Inception date: August 1, 1998

\* The value added returns may show rounding differences.

The performance shown is of a composite created 01/01/09 consisting of all discretionary accounts using this investment strategy. There is no minimum account size required for inclusion in the composite. New funds or accounts are added to the composite upon the first full month of operation and closed funds or accounts are removed from the composite upon the last full month of operation. The above information is considered supplemental. A complete description of this composite as well as a complete presentation that complies with the requirements of the GIPS standards is provided in the Appendix or was previously presented. A GIPS presentation is also available upon request.

Past performance is no guarantee of future results. Performance returns for periods of less than one year are not annualized. The performance figures contained herein are provided on a gross of fees basis and do not reflect the deduction of advisory or other fees which could reduce the return. The performance includes the reinvestment of dividends and other corporate earnings and is calculated in US dollars.

The index returns are unmanaged and do not reflect the deduction of any fees or expenses. The index returns reflect all items of income,

gain and loss and the reinvestment of dividends and other income. gP-ACWI





## MSCI All Country World ex-US Investable Market Index Strategy

Investing in foreign domiciled securities may involve risk of capital loss from unfavorable fluctuation in currency values, withholding taxes, from differences in generally accepted accounting principles or from economic or political instability in other nations. Investments in emerging or developing markets may be more volatile and less liquid than investing in developed markets and may involve exposure to economic structures that are generally less diverse and mature and to political systems which have less stability than those of more developed countries.



### MSCI All Country World ex-US Investable Market Index Strategy Overview

#### Objective: Seeks to match the returns and characteristics of the MSCI All Country World ex-US Investable Market Index as closely as practicable, before expenses

- MSCI ACWI ex-US IM Index Strategy
  - Replication with additive offsets; with some sampling and optimization
  - Bi-monthly fund to maximize crossing opportunities
  - May use exchange traded index futures to achieve equity exposure
- MSCI All Country World ex-US Investable Market Index
  - Broad-based global index
  - Representative sampling of approximately 6,250 stocks in 44 countries
  - Consists of the MSCI All Country World Standard Index and MSCI All Country World Small Cap Index
  - Seeks to capture 99% of investable market universe
  - Quarterly reconstitution

#### **MSCI ACWI ex-US IMI**

**Developed** Australia Austria Belgium Canada Denmark Finland France Germany Greece Hong Kong Ireland Israel Italy Japan Netherlands New Zealand Norway Portugal Singapore Spain Sweden Switzerland UK

Brazil Chile China Colombia Czech Rep. Egypt Hungary India Indonesia Korea Malaysia Mexico Morocco Peru Philippines Poland Russia South Africa Taiwan Thailand Turkey

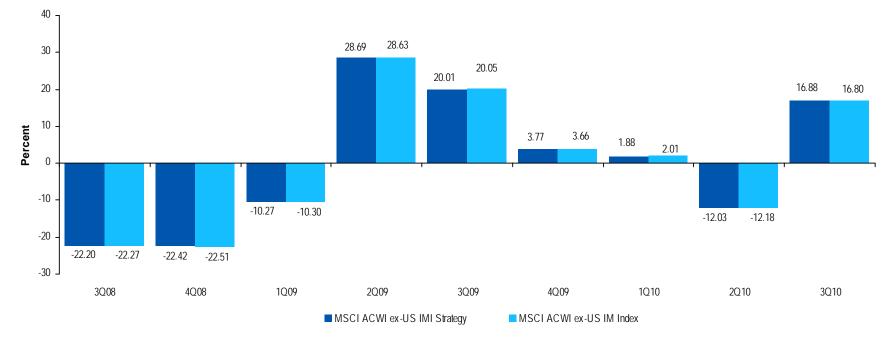
Emerging

As of September 30, 2010

Although some investments may exhibit certain characteristics of leverage transactions, SSgA will not borrow money or use derivatives for the MSCI ACWI IMI Strategy in a manner that SSgA considers to have the purpose of creating investment leverage. Investments made by SSgA to hedge or reduce risk will not be considered to have been made for the purpose of creating investment leverage; SSgA generally will determine whether an investment has the effect of creating investment leverage and risk profile of the Strategy's portfolio as a whole.

#### Gross annualized returns for the period ending September 30, 2010 (USD)

	Q3 10	YTD	1 Year	3 Years	5 Years	10 Years	Since Inception <sup>†</sup>
MSCI ACWI ex USA IMI Index Composite	16.88%	4.74%	8.69%	N/A	N/A	N/A	-7.45%
MSCI ACWI ex US IMI Index	16.80	4.64	8.47	N/A	N/A	N/A	-7.66
Difference*	0.07	0.11	0.22	N/A	N/A	N/A	0.21



<sup>+</sup> Inception date: June 2008. Performance above represents that of the composite and does not include securities lending revenue.

\* The value added returns may show rounding differences.

The performance shown is of a composite created 01/01/09 consisting of all discretionary accounts using this investment strategy. There is no minimum account size required for inclusion in the composite. New funds or accounts are added to the composite upon the first full month of operation and closed funds or accounts are removed from the composite upon the last full month of operation. The above information is considered supplemental. A complete description of this composite as well as a complete presentation that complies with the requirements of the GIPS standards is provided in the Appendix or was previously presented. A GIPS presentation is also available upon request. Past performance is no guarantee of future results. Performance returns for periods of less than one year are not annualized. The performance figures contained herein are provided on a gross of fees basis and do not reflect the deduction of any fees or expenses.

The index returns reflect all items of income, gain and loss and the reinvestment of dividends and other income.

Composite Code: gPACWIMI



# **Innovation in Beta Management**

Investing involves risk including the risk of loss of principal.





### **Alternative Beta**

#### What's Behind Alternative Beta?

- Capture the benefits of passive investing
  - Low cost, transparency, liquidity, diversification and consistency
- Accept a broader definition of beta
  - Any transparent, consistent methodology for maintaining investment exposures
- Reflect some investment thesis
  - Projected returns
  - Diversification or hedging benefit

### **Examples of Beta Investment Themes**

### A Wide Variety of Views can be Expressed

- Emphasize cross-sectional equity or bond characteristics
  - Valuation, Size, Volatility, Momentum, Quality, etc.
- Hedge against unanticipated inflation
  - Breakeven Inflation, Commodities, Gold, etc.
- Hedge against currency depreciation
  - International Equity, Currency, Gold, etc.
- Seek out unique sources of return
  - Merger Arbitrage, Short Volatility, Currency Carry, etc.
- Hedge tail risk
  - Trend Following, Long Volatility, etc.

### **Alternative Beta**

#### What Forms can Alternative Beta Take?

Definition: Any transparent, consistent process for maintaining investment exposures

- 1. Non-traditional Asset Classes
  - Commodities
  - Currency Carry
  - Infrastructure
  - Convertibles
  - Frontier markets
  - Volatility
  - Break-even inflation
- 2. Emulation Strategies
  - Merger arbitrage
  - Hedge fund beta
  - Convertible arbitrage
  - Active manager emulation
  - Trend-following strategies

### **Alternative Beta**

#### Four Categories of Alternative Beta (continued)

- 3. Alternative Asset Class Payoffs
  - Leveraged strategies
  - Inverse strategies
  - Protected strategies
  - Option overwriting strategies
- 4. Alternatives to Cap-weighting
  - Fixed income
    - De-emphasizing the biggest sovereign borrowers
    - Fundamentally scored credit index
  - Equities
    - Valuation tilted strategies (eg, fundamental indexing)
    - Low volatility and low beta strategies (eg, minimum variance)
    - Smaller capitalization strategies
    - Positive momentum strategies
    - Equal-weighted strategies
    - Quality tilted strategies

## **Alternatives to Cap Weighting**

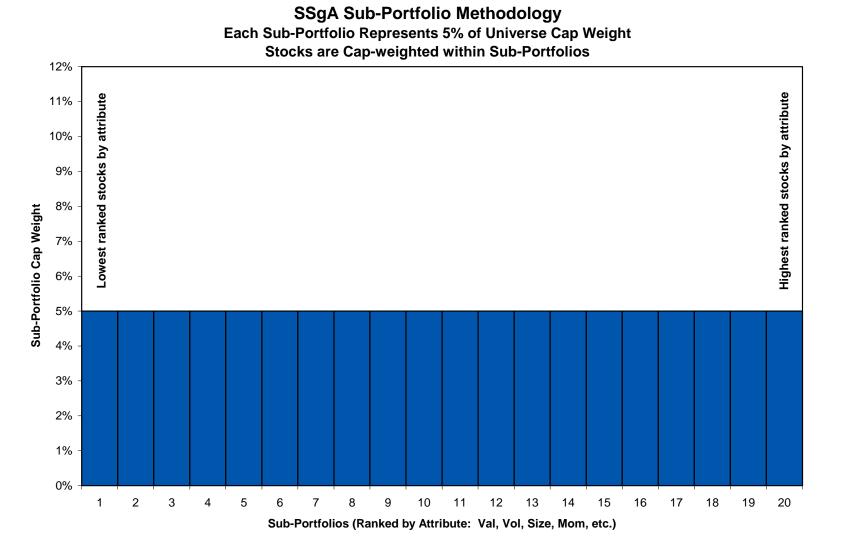
### What Leads Investors to Alternative Equity Weighting Approaches?

- Cross-sectional empirical evidence
  - Beta not rewarded as theory suggests
  - Other attributes explain the cross-section of returns
    - Valuation, Volatility, Size & Momentum
  - Returns not explained by realized volatility of returns
- Academic debate about cross-sectional evidence
  - Reward for risk factors or investor "mistakes"?
- Industry response
  - Many alternative weighting products, indexes or strategies
    - Fundamental Indexing<sup>™</sup>, Wealth weighting, Valuation-tilting, Min Vol, Low Beta, Equal-Weighted, Risk Efficient Indexes, Active Betas, etc.
  - Various marketing claims
  - Most are plays on cross-sectional evidence
    - valuation, beta/volatility, size or momentum (or combinations)

#### **Evaluating the Cross-Sectional Empirical Evidence**

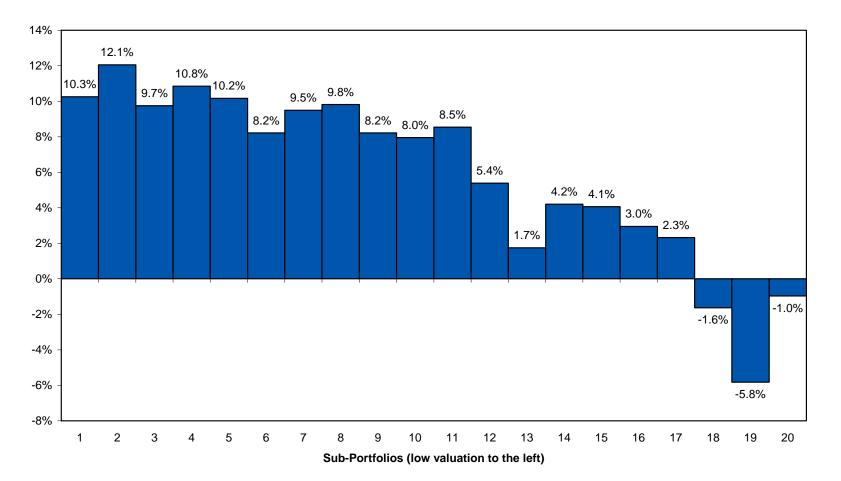
- Create an intuitive way to evaluate cross-sectional equity evidence
- 20 subsets of the market portfolio sorted by each attribute (separately)
  - Valuation, Volatility, Size and Momentum
- Methodology
  - Each subset (sub-portfolio) represents 5% of market cap weight
  - Constituents are cap-weighted within each sub-portfolio
  - For example, valuation sub-portfolio #1 is the 5% of cap weight with the lowest valuation
  - Sub-portfolios reconstituted annually (Momentum reconstituted quarterly)
- Results
  - MSCI World Universe Q2 1990 to Q4 2009
  - Sub-portfolio annualized return
  - Sub-portfolio annualized volatility

### SSgA Sub-Portfolio Methodology



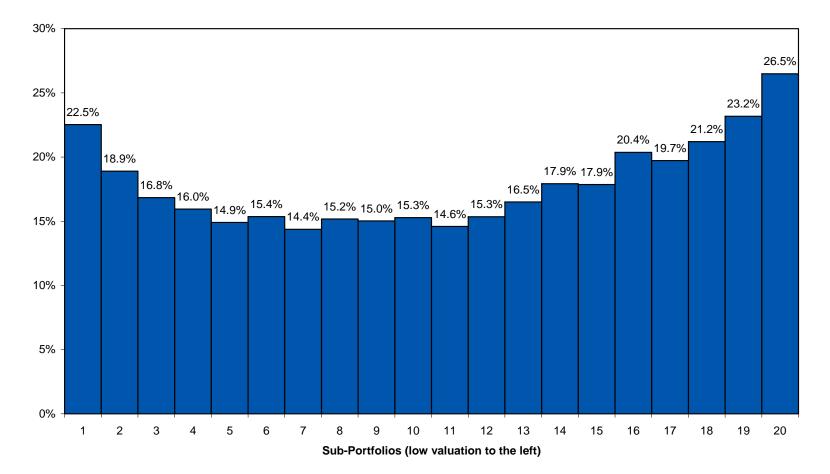
### **Empirical Evidence: Valuation**

Valuation-Sorted Returns MSCI World Sub-Portfolio Annualized US\$ Returns (April 1990 - December 2009)



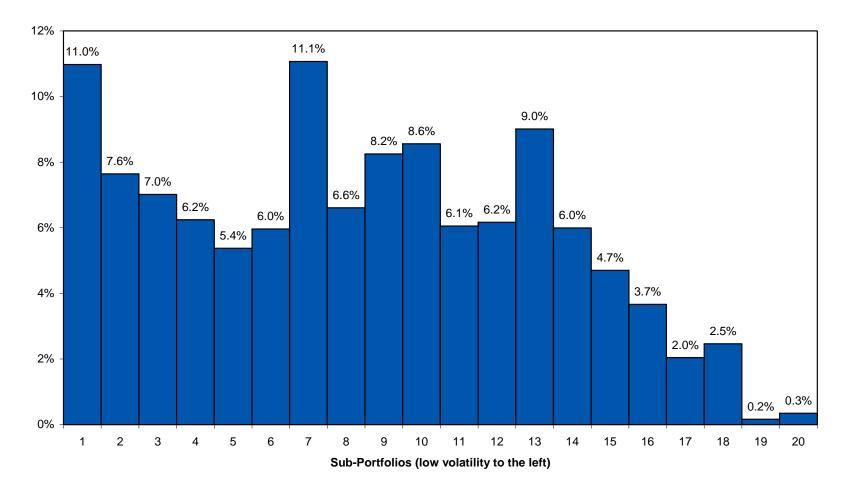
### **Empirical Evidence: Valuation**

Valuation-Sorted Return Volatility MSCI World Sub-Portfolio Annualized US\$ Return Volatility (April 1990 - December 2009)



### **Empirical Evidence: Volatility**

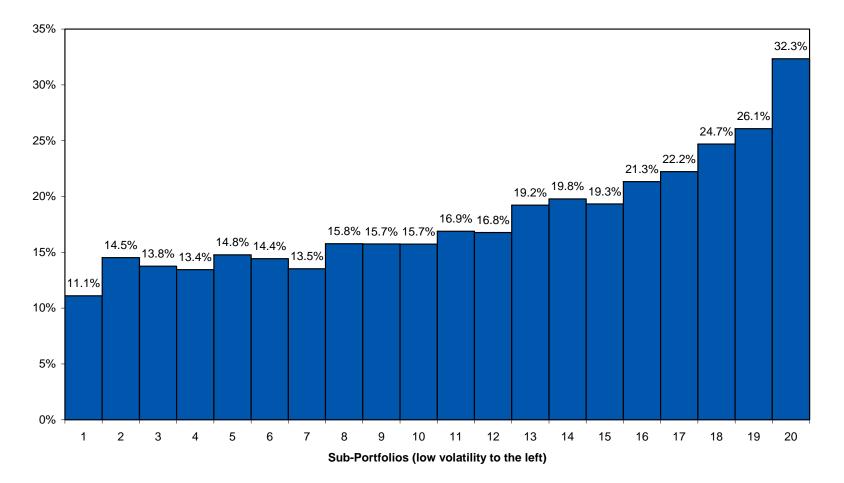
Volatility-Sorted Returns MSCI World Sub-Portfolio Annualized US\$ Returns (April 1990 - December 2009)



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### **Empirical Evidence: Volatility**

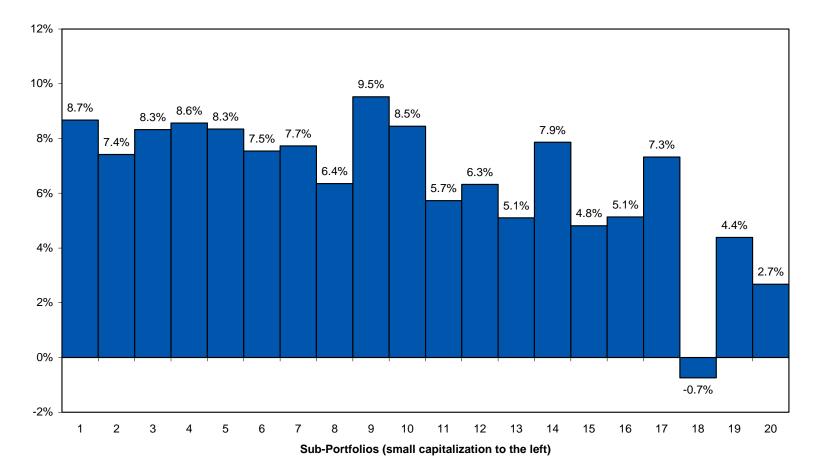
Volatility-Sorted Return Volatility MSCI World Sub-Portfolio Annualized US\$ Return Volatility (April 1990 - December 2009)



Past performance is not a guarantee of future results.

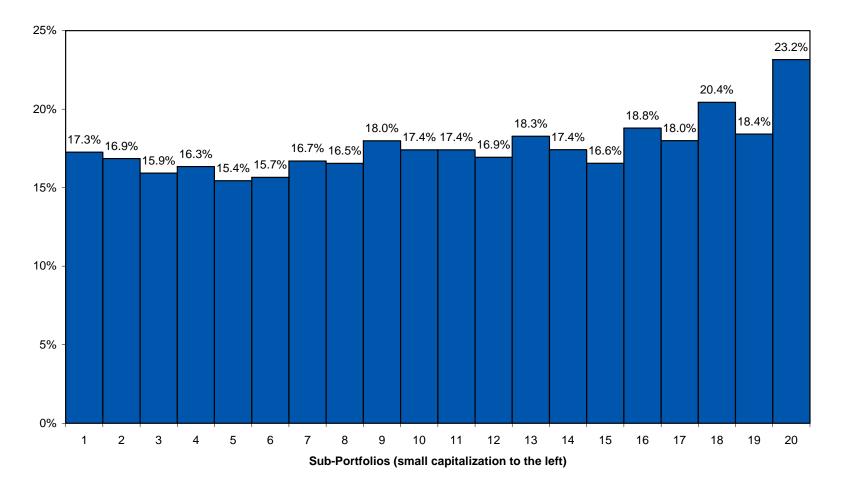
### **Empirical Evidence: Size**

Size-Sorted Returns MSCI World Sub-Portfolio Annualized US\$ Returns (April 1990 - December 2009)



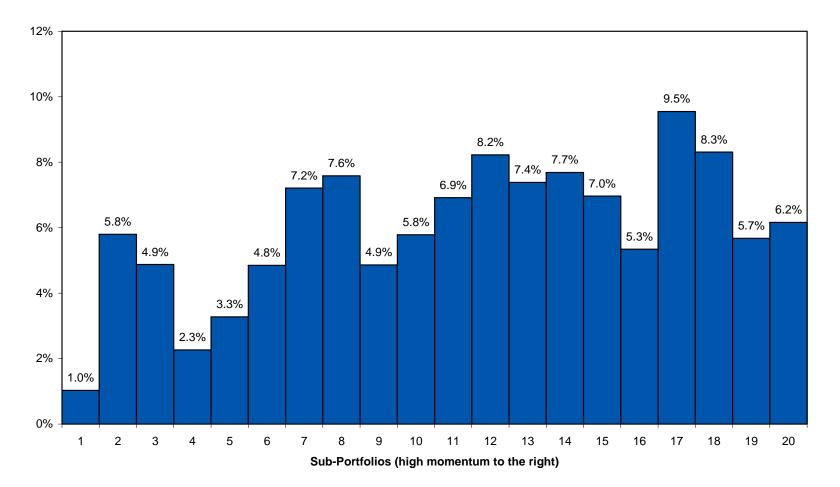
### **Empirical Evidence: Size**

Size-Sorted Return Volatility MSCI World Sub-Portfolio Annualized US\$ Return Volatility (April 1990 - December 2009)



### **Empirical Evidence: Momentum**

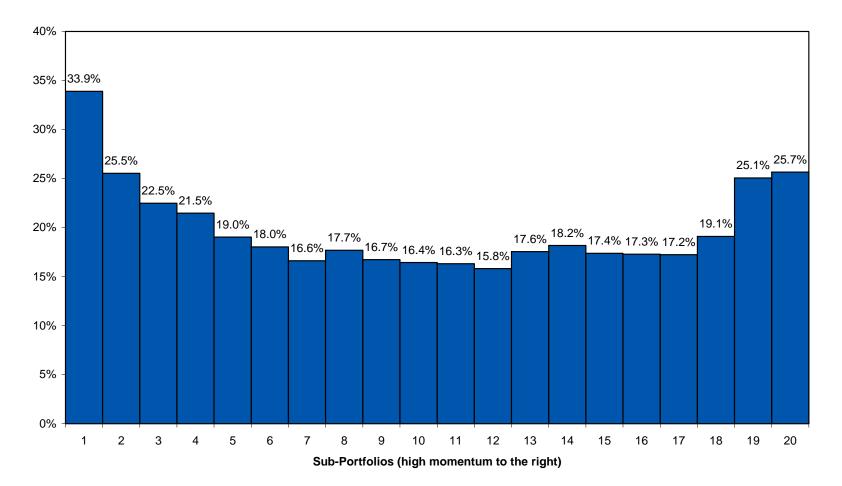
Momentum-Sorted Returns MSCI World Sub-Portfolio Annualized US\$ Returns (April 1990 - December 2009)



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### **Empirical Evidence: Momentum**

Momentum-Sorted Return Volatility MSCI World Sub-Portfolio Annualized US\$ Return Volatility (April 1990 - December 2009)



Past performance is not a guarantee of future results.

## **Alternatives to Cap Weighting**

#### **Potential Benefits of Alternative Equity Allocations**

- Attractive historical risk-adjusted returns
  - Long-term empirical evidence is compelling
- Maintains desirable aspects of traditional indexing
  - Transparency, diversification, liquidity and low cost
- An efficient way to reflect a cross-sectional investment thesis
  - No need to pay active fees if betas are the objective
- Adds potentially rewarding dimensions to investment policy
  - Adds power to strategic asset allocation decisions

## **Alternatives to Cap Weighting**

### **Potential Challenges of Alternative Equity Allocations**

- Can be challenging to back up with investment logic
  - Why is the factor exposure rewarded?
- · Higher costs than traditional indexing
  - Higher turnover, higher license fees, and potential for liquidity demand
- Significant interim volatility vs. cap-weighting
  - Prolonged periods of underperformance have occurred
- Not always clear who owns the investment decision
  - Who gets blame when returns are poor?

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# **SSgA Global Fixed Income Beta Solutions**

In general, fixed income securities carry interest rate risks; the risk of issuer default; and inflation risk. This effect is usually pronounced for longer-term securities. Any fixed income security sold or redeemed prior to maturity may be subject to a substantial gain or loss. Government bonds and corporate bonds have more moderate short-term price fluctuations than stocks, but provide lower potential long-term returns. US Treasury Bills maintain a stable value if held to maturity, but returns are generally only slightly above the inflation rate. Investing involves risk including the risk of loss of principal.



## **SSgA Global Fixed Income Group**

#### Kevin Anderson, PhD Global CIO Fixed Income and Currency

US

**Global Beta Solutions** EMEA Boston Pascal Chiknagi John Kirby John Philpot Peter Gray Patrick Bresnehan, CFA Victoria Husemeyer Michael Brunell, CFA Max DeSantis John Hutson, CFA Pasi Hvttinen Allen Kwong Benjamin Kaden Karen Tsang Abhishek Kumar Antoine Lesne\*\*/\*\*\*\* Singapore Mathias Marta Esther Koon, CFA Benjamin Platret Kheng Siang Ng, CFA, CAIA Joffrey Ricome Ramon Maronilla, CFA\*\*\*/\*\*\*\* Peter Spano, CFA Bertram Sarmago, CFA, FRM\*\*\*\* Stephen Yeats, CFA Tokyo Sydney Peter Morgan Ross Bolton Yuki Nozawa Simon Mullumby, CFA Junichi Takahashi\*\*\*\*,CMA,CFA

#### **Global Active Strategies Bill Cunningham Bill Street** ....

Robert Kania, CFAPhilip Barleggs****Louis Basque, CFA****David Kobuszewski, CFAPaul Lucas, CFAClaudio FerriJohn (Chuck) LaPosta, CFALing Luo, CFAJean Gauthier, CFAJeff Megar, CFAChristophe Pella, CFAVictor Grigore, CFAMatt PappasOssi ValtanenChristian HoffmannMarc Touchette, CFAKheng Siang Ng, CFA, CAIAMerriem MechouatAnurag Wakhlu, CFAJoffrey RicomeOmar Slim, CFA	US Active Strategies	Non-US Active Strategies	<b>Canada</b>
	Bill Cunningham	Bill Street	Denis Senécal, MSc
	David Kobuszewski, CFA John (Chuck) LaPosta, CFA Jeff Megar, CFA Matt Pappas Marc Touchette, CFA	Paul Lucas, CFA Ling Luo, CFA Christophe Pella, CFA Ossi Valtanen Kheng Siang Ng, CFA, CAIA Ross Bolton	Claudio Ferri Jean Gauthier, CFA Victor Grigore, CFA Christian Hoffmann Merriem Mechouat Philippe Nolet

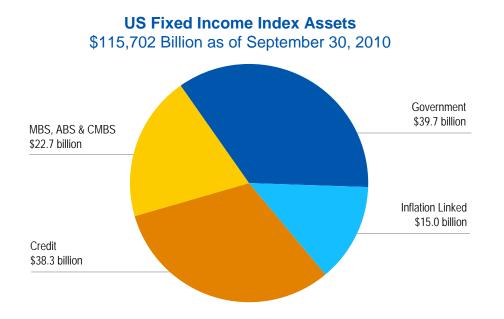
### Government Solutions

Richard Arnott Jay Ladieu Cynthia Moy Suzanne Schwartz

Global Fixed Income Research Bill Cunningham*						
Jay Contis, CFA	James Callahan, CFA, CPA	Jonathan Worraker, CFA				
Ken Berlin, CFA Tim Cronin, CFA Gabriel Kadasi Barbara Meehan	Virginie Pelle Kali Ramachandran, CF Yvonne Tai Lingying Zou	A, CPA				

### Low Cost, Broad Market Exposure

- \$215.3 billion\* total global indexed bonds under management
- Size and scale helps to manage transaction costs
- Seasoned portfolios help to provide low tracking error



New Strategies
Global Aggregate
Global Inflation Linked Bond
International Treasury
20+ Year US Treasury STRIPS
Long US TIPS
High Quality Corporate Bond (1-5 yr, 5-20 yr, 20+ yr)
Pooled Asset Liability Matching Solution (PALMS)
Pooled Asset Liability Matching Solution (PALMS) Overlay
19 Fixed Income SPDR ETFs

# Objective: Seeks to generate index returns while attempting to minimize risk and limit transaction costs

- We believe that our clients choose indexing for three main reasons:
  - Gain broad-based bond market exposure
  - Predictable variance around a given benchmark
  - Exposure at the lowest possible cost
- A strong process is key to identifying risks
  - Differences arise from changes to the portfolio (cash flows) or benchmark (new issuance, downgrades and changes to index rules)
- Aim to achieve goal by sampling at the security level and replicating at issuer level

   Long-term goal is full replication
- Continually assess the trade-offs between transaction costs and tracking error in the context of a well-diversified portfolio

## Fixed Income Exposure in Any Market Segment

	Broad Market	Region, Sector, Q	uality and Maturity	Inflation Linked
Global	<ul> <li>Global Aggregate</li> <li>World Broad Investment Grade</li> <li>World Government</li> <li>World Government ex-Japan</li> <li>World Government ex-US</li> </ul>	International Treasury		<ul> <li>Global Inflation Linked Bond</li> <li>Global Inflation Linked ex-US Bon</li> </ul>
North America	<ul> <li>US Aggregate Bond</li> <li>US Government/Credit Bond</li> <li>Intermediate US Government</li> <li>Intermediate US Government/Credit</li> <li>Long US Government/Credit</li> <li>Socially Responsible US Aggregate Bond</li> <li>Sudan Screened US Aggregate Bond</li> <li>Canadian Aggregate</li> <li>Canadian Long Government</li> </ul>	<ul> <li>1-3 Year US Treasury</li> <li>3-10 Year US Treasury</li> <li>Long US Treasury</li> <li>20+ Year US Treasury STRIPS</li> <li>1-3 Year US Agency</li> <li>3-10 Year US Agency</li> <li>Long US Agency</li> <li>US Mortgage-Backed</li> <li>US Asset-Backed</li> <li>Commercial Mortgage-Backed</li> <li>Constant Duration</li> <li>High Yield Index</li> </ul>	<ul> <li>Intermediate US Credit</li> <li>1-3 Year US Credit</li> <li>3-10 Year US Credit</li> <li>Long US Credit</li> <li>1-5 Year High Quality Corporate Bond</li> <li>5-20 Year High Quality Corporate Bond</li> <li>20+ Year High Quality Corporate Bond</li> <li>Socially Responsible US Credit</li> <li>Sudan Screened US Credit</li> <li>US Pooled Asset Liability Matching Solution (PALMS)</li> <li>US PALMS Overlay</li> </ul>	<ul> <li>US Treasury Inflation Protected Securities</li> <li>Long US Treasury Inflation Protected Securities</li> <li>Canadian Inflation Protected Securities</li> </ul>
Europe/UK	<ul> <li>Euro Broad Investment Grade</li> <li>EMU Government</li> <li>EMU Government Long Bond Index</li> <li>Swiss Government</li> <li>UK Government</li> </ul>	<ul> <li>UK Government Bond</li> <li>5 Years</li> <li>UK Government Bond</li> <li>15 Years</li> <li>Euro Corporate</li> <li>UK Sterling Credit All Stocks</li> <li>UK Sterling Credit &gt; 15 Years</li> </ul>	<ul> <li>Euro Pooled Asset Liability Matching Solution (PALMS)</li> <li>Euro Leveraged PALMS</li> <li>UK Pooled Asset Liability Matching Solution (PALMS)</li> <li>UK Leveraged PALMS</li> </ul>	<ul> <li>Euro Inflation Linked Bond</li> <li>UK Index-Linked Government</li> <li>UK Index-Linked Government</li> <li>5 Years</li> <li>UK Index-Linked Government</li> <li>15 Years</li> </ul>
Asia-Pacific	<ul> <li>Australian Composite Bonds</li> <li>Australian Government</li> <li>Hong Kong Bond Index</li> <li>Japanese Bond Index</li> <li>Japan Government Bond</li> </ul>			Australian Inflation Linked Bond

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# **US Aggregate Bond Index Strategy**

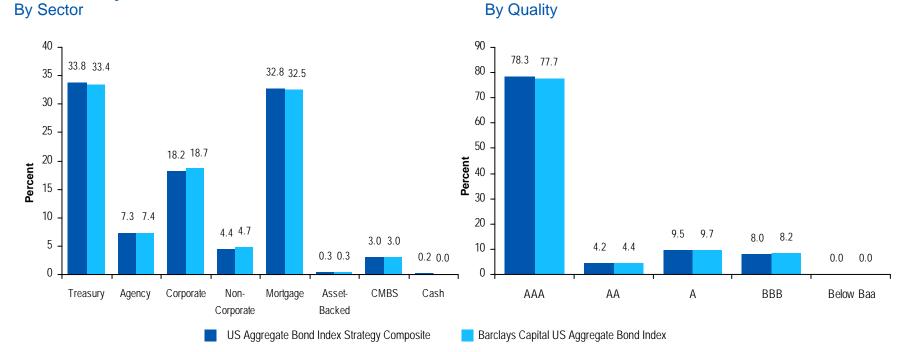




## **US Aggregate Bond Index Strategy Characteristics**

	US Aggregate Bond Index Strategy Composite	Barclays Capital US Aggregate Bond Index
Average Quality	AA2	AA2
Yield to Worst	2.52%	2.56%
Modified Adjusted Duration	4.63	4.67
Average Convexity	-0.23	-0.23

**Breakdown by Market Value** 



As of September 30, 2010

The characteristics, holdings and sectors are as of the date indicated, are subject to change, and should not be relied upon as current thereafter. This information should not be considered a recommendation to invest in any particular sector or to buy or sell any security shown. It is not known whether the sectors or securities shown will be profitable in the future.

The above ratings are created by Barclays Capital, where they use multiple rating agencies to come up with an "Index Rating." For more information on this rating methodology please go to www.barclays.com.

The above information is considered supplemental to the GIPS presentation for this Composite, which can be found in the Appendix

or was previously presented. A GIPS presentation is also available upon request.

#### Gross annualized returns for the period ending September 30, 2010 (USD)

	3 Mos.	YTD	1 Year	3 Years	5 Years	10 Years	Since Inception <sup>†</sup>
US Aggregate Bond Index Strategy Composite	2.46%	7.89%	8.16%	7.46%	6.23%	6.44	6.54%
Barclays Capital US Aggregate Bond Index	2.48	7.94	8.16	7.42	6.20	6.41	6.48



#### † Inception Date: April 1996

"The performance shown is of a composite created 01/01/09 consisting of all discretionary accounts using this investment strategy. There is no minimum account size required for inclusion in the composite. New funds or accounts are added to the composite upon the first full month of operation and closed funds or accounts are removed from the composite upon the last full month of operation. The above information is considered supplemental. A complete description of this composite as well as a complete presentation that complies with the requirements of the GIPS standards is provided in the Appendix or was previously presented. A GIPS presentation is also available upon request. Past performance is no guarantee of future results. Performance returns for periods of less than one year are not annualized. The performance figures contained herein are provided on a gross of fees basis and do not reflect the deduction of advisory or other fees which could reduce the return. The performance includes the reinvestment of dividends and other corporate earnings and is calculated in US dollars. The index returns are unmanaged and do not reflect the deduction of any fees or expenses. The index returns reflect all items of income, gain and loss and the reinvestment of dividends and other rincome."

The Barclays Capital US Aggregate Bond Index is a trademark of Barclays Capital, Inc.

#### gPBMIC CMINST-1828

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# US Treasury Inflation Protection Securities (TIPS) Index Strategy

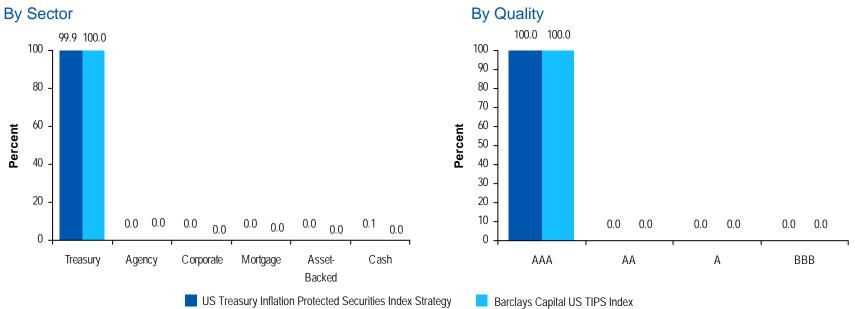




## US Treasury Inflation Protected Securities Index Strategy Composite Characteristics

	US Treasury Inflation Protected Securities Index Strategy	Barclays Capital US TIPS Index
Average Quality	AAA	AAA
Yield to Worst	2.30%	2.30%
Real Yield	0.51%	0.51%
Breakeven Inflation	1.46%	1.46%
Real Duration	7.98	7.98
Average Convexity	1.13	1.13

### **Breakdown by Market Value**



As of September 30, 2010

The characteristics, holdings and sectors are as of the date indicated, are subject to change and should not be relied upon as current thereafter. This information should not be considered a

recommendation to invest in any particular sector or to buy or sell any security shown. It is not known whether the sectors or securities shown will be profitable in the future.

The above ratings are created by Barclays Capital, where they use multiple rating agencies to come up with an "Index Rating."

For more information on this rating methodology please go to www.barclays.com

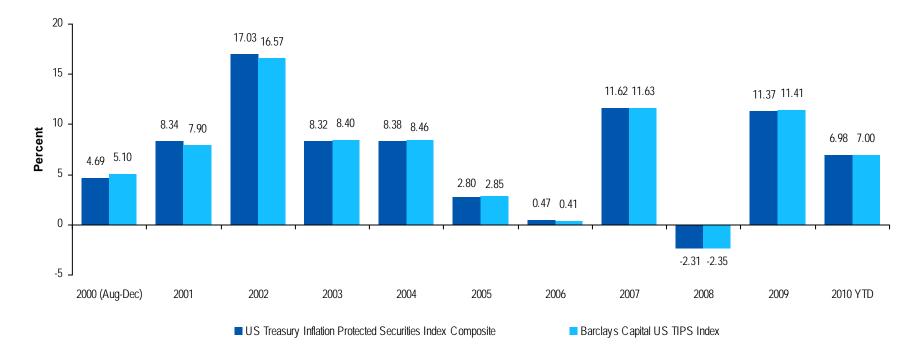
The above information is considered supplemental to the GIPS presentation for this Composite, which can be found in the

Appendix or was previously presented. A GIPS presentation is also available upon request.

The Barclays Capital US TIPS Index is a trademark of Barclays Capital, Inc.

### Gross annualized returns for the period ending September 30, 2010 (USD)

	Q3 10	YTD	1 Year	3 Years	5 Years	10 Years	Since Inception <sup>†</sup>
US Treasury Inflation Protected Securities Index Composite	2.48%	6.98%	8.86%	6.91%	5.49%	7.53%	7.52%
Barclays Capital US TIPS Index	2.48	7.00	8.89	6.91	5.49	7.49	7.50



<sup>†</sup> Inception date: August, 2000

The performance shown is of a composite created 1/01/09 consisting of all discretionary accounts using this investment strategy. There is no minimum account size required for inclusion in the composite. New funds or accounts are added to the composite upon the first full month of operation and closed funds or accounts are removed from the composite upon the last full month of operation. The above information is considered supplemental. A complete description of this composite as well as a complete presentation that complies with the requirements of the GIPS standards is provided in the Appendix or was previously presented. A GIPS presentation is also available upon request.

Historical performance is not necessarily indicative of future performance, which could differ substantially. The performance figures contained herein are provided on a gross of fees basis and do not reflect the deduction of advisory or other fees which could reduce the return. The performance includes the reinvestment of dividends and other corporate earnings and is calculated in US dollars.

The index returns are unmanaged and do not reflect the deduction of any fees or expenses. The index returns reflect all items of income, gain and loss and the reinvestment of dividends and other income. Performance for periods of less than one year are not annualized.

The Barclays Capital US TIPS Index is a trademark of Barclays Capital, Inc.



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# **U.S. Long Treasury Index Strategy**

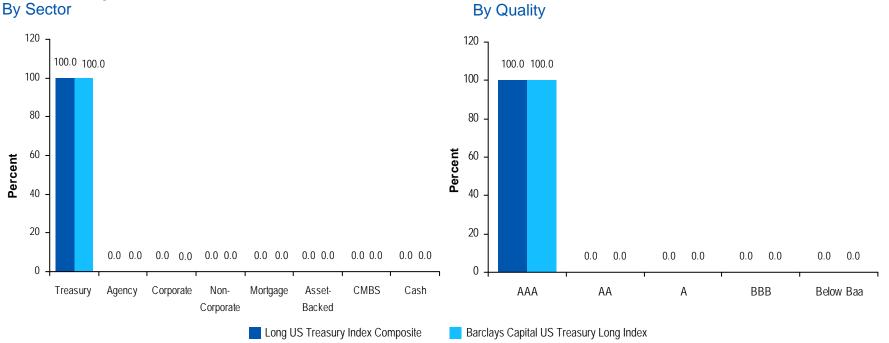




## Long US Treasury Index Strategy Composite Characteristics

	Long US Treasury Index Fund	Barclays Capital US Treasury Long Index
Average Quality	AAA	AAA
Yield to Worst	3.37%	3.37%
Modified Adjusted Duration	14.47	14.46
Average Convexity	3.01	3.01

### **Breakdown by Market Value**



#### As of September 30, 2010

The characteristics, holdings and sectors are as of the date indicated, are subject to change, and should not be relied upon as current thereafter. This information should not be considered a recommendation to invest in any particular sector or to buy or sell any security shown. It is not known whether the sectors or securities shown will be profitable in the future.

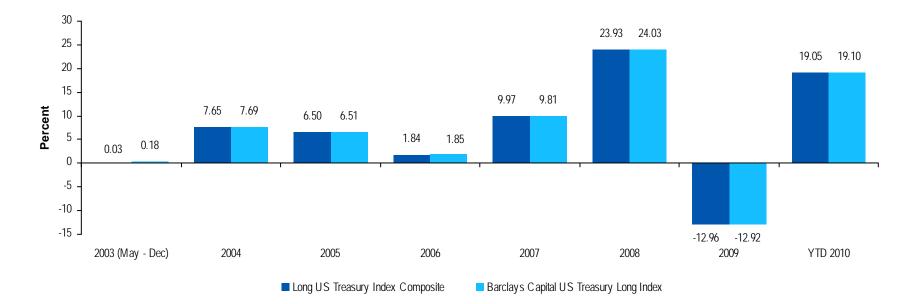
The above ratings are created by Barclays Capital, where they use multiple rating agencies to come up with an "Index Rating." For more information on this rating methodology please go to www.barclays.com.

The above information is considered supplemental to the GIPS presentation for this Composite, which can be found in the Appendix

or was previously presented. A GIPS presentation is also available upon request.

### Gross annualized returns for the period ending September 30, 2010 (USD)

	3 Mos.	YTD	1 Year	3 Years	5 Years	10 Years	Since Inception <sup>†</sup>
Long US Treasury Index Composite	5.18%	19.05%	12.70%	10.70%	7.73%	N/A	6.95%
Barclay Capital US Treasury Long Index	5.21	19.10	12.74	10.76	7.77	N/A	7.01



#### † Inception Date: May 2003

The performance shown is of a composite created 01/01/09 consisting of all discretionary accounts using this investment strategy. There is no minimum account size required for inclusion in the composite. New funds or accounts are added to the composite upon the first full month of operation and closed funds or accounts are removed from the composite upon the last full month of operation. The above information is considered supplemental. A complete description of this composite as well as a complete presentation that complies with the requirements of the GIPS standards is provided in the Appendix or was previously presented. A GIPS presentation is also available upon request. Past performance is no guarantee of future results. Performance returns for periods of less than one year are not annualized. The performance figures contained herein are provided on a net of fees basis, reflecting the deduction of investment management fees. Some members of this composite may accrue administration fees. The performance includes the reinvestment of dividends and other corporate earnings and is calculated in US dollars. The index returns are unmanaged and do not reflect the deduction of any fees or expenses. The index returns reflect all items of income, gain and loss and the reinvestment of dividends and other income.

The Barclays Capital US Treasury Long Index is a trademark of Barclays Capital, Inc.

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# **World Government Bond Index ex-US Strategy**

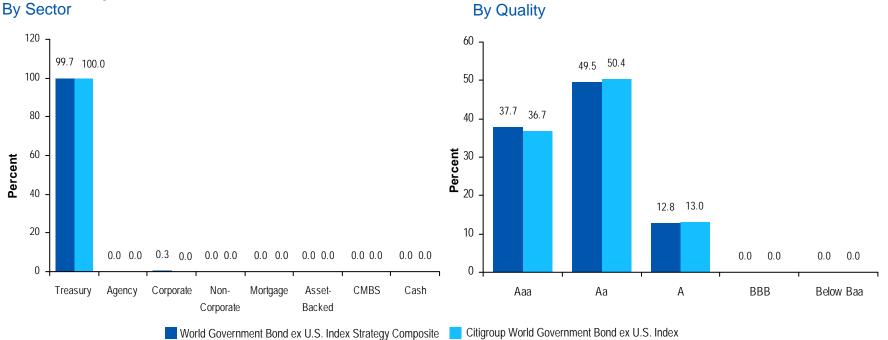




## World Government Bond ex U.S. Index Strategy Composite Characteristics

	World Government Bond Index ex U.S. Index Strategy Composite	Citigroup World Government Bond ex U.S. Index
Average Quality	AA+	AA+
Yield to Worst	1.80%	1.87%
Effective Duration	6.99	7.06
Convexity	1.00	0.96

### **Breakdown by Market Value**



#### As of September 30, 2010

The characteristics, holdings and sectors are as of the date indicated, are subject to change, and should not be relied upon as current thereafter. This information should not be considered a recommendation to invest in any particular sector or to buy or sell any security shown. It is not known whether the sectors or securities shown will be profitable in the future.

The above ratings are created by Citigroup Index LLC, where they use multiple rating agencies to come up with an "Index Rating." For more information on this rating methodology please go to www.citigroup.com

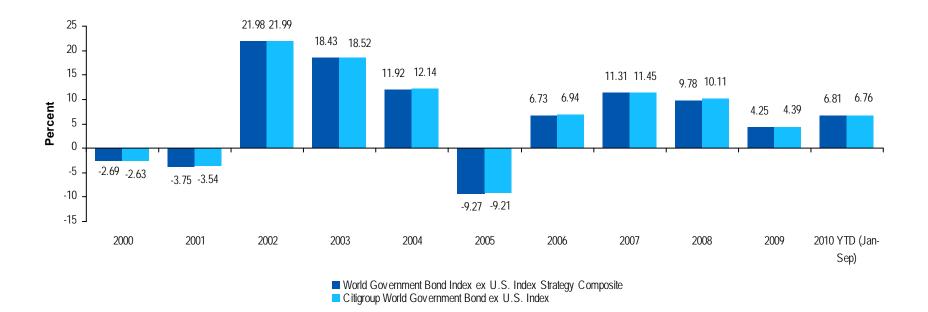
The above information is considered supplemental to the GIPS presentation for this Composite, which can be found in the Appendix

or was previously presented. A GIPS presentation is also available upon request.

## World Government Bond ex U.S. Index Strategy Composite Performance

### Gross annualized returns for the period ending September 30, 2010 (USD)

	3 Mos.	YTD	1 Year	3 Years	5 Years	10 Years	Since Inception <sup>†</sup>
World Government Bond ex U.S. Index Strategy Composite	10.45%	6.81%	4.40%	8.29%	7.16%	7.87%	6.39%
Citigroup World Government Bond ex U.S. Index	10.45	6.76	4.47	8.44	7.33	8.00	6.52



† Inception Date: November 1999.

The performance shown is of a composite created 11/01/99 consisting of all discretionary accounts using this investment strategy. There is no minimum account size required for inclusion in the composite. New funds or accounts are added to the composite upon the first full month of operation and closed funds or accounts are removed from the composite upon the last full month of operation. The above information is considered supplemental. A complete description of this composite as well as a complete presentation that complies with the requirements of the GIPS standards is provided in the Appendix or was previously presented. A GIPS presentation is also available upon request. Past performance is no guarantee of future results. Performance returns for periods of less than one year are not annualized. The performance figures contained herein are provided on a net of fees basis, reflecting the deduction of investment management fees. Some members of this composite may accrue administration fees. The performance includes the reinvestment of dividends and other corporate earnings and is calculated in US dollars. The index returns are unmanaged and do not reflect the deduction of any fees or expenses. The index returns reflect all items of income, gain and loss and the reinvestment of dividends and other income.

The Citigroup World Government Bond Ex-US index is owned and maintained by Citigroup Index LLC.

STATE STREET GLOBAL ADVISORS.

# SSgA Multi Asset Class Solutions (MACS) Group Overview

This material has been prepared solely for the private use of [insert client name] and is not intended for public dissemination. All values expressed in USD.



# Global team focused on seamless design and efficient implementation of client tailored, custom multi asset class solutions

### SSgA Multi Asset Class Solutions Dan Farley, CFA Global Head of Investments

#### North America

#### **Boston**

Brent Bell, CFA Eduardo Borges Ola Folarin, CFA Tim Furbush, CFA Chris Goolgasian, CFA CPA CAIA Rob Guiliano John Gulino Tyhesha Harrington Jerry Holly, CFA Lisa Khatri, CFA Thomas Kennelly Stacey Marino, CFA CAIA Mike Martel Chuck McGinn Dan Peirce, PhD Phuc Vinh, CFA

#### Montreal

Tony Beaulac, CFA

### Europe

#### London

Mama Attiglah, PhD Rafiq Choudhury Sonia Gogna Raymond Haines Joseph Moody Marie-Bénédicte Senou, CFA Andrew Soper Gregory Taieb

#### Paris

Nicolas Didelot Frederic Dodard, CFA, FRM Julien Lepine Benjamin Regnat Marie-Christine Sideratos

### Asia-Pacific

Hong Kong Thomas Poullaouec

### Sydney

Chris Loong Simon Sukhaseume James Park

### Tokyo

Junichi Takahashi

### **Contributing Groups**

Economics Team Chris Probyn, PhD

Advanced Research Center Mark Hooker, PhD

Equity Alistair Lowe

Global Structured Products (Index Equity) Paul Brakke

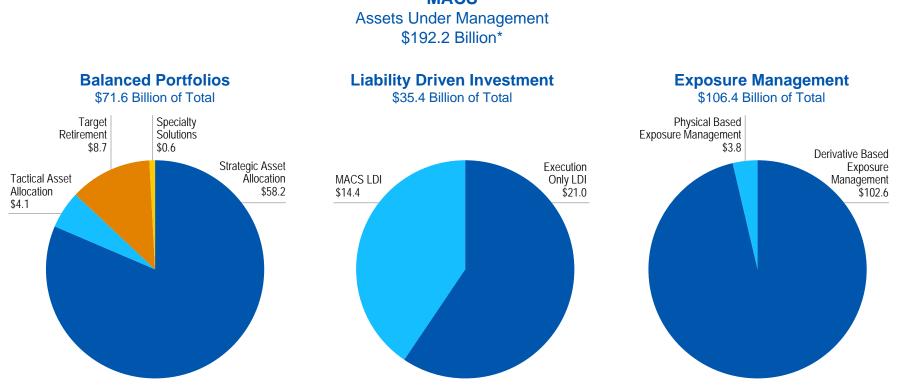
Fixed Income Kevin Anderson, PhD

Cash Steve Meier

Alternatives Ric Thomas

## **SSgA Multi Asset Class Solutions Client Base**

- Experience managing custom multi asset class strategies since 1987
- 34 Investment Professionals Globally
- Provide multi asset class solutions across a broad array of global tactical and strategic benchmarks
- Implementations with either SSgA commingled funds, ETFs or an overlay structure



MACS

As of June 30, 2010 updated bi-annually.

\*Total MACS AUM includes all Balanced Portfolios, Exposure Management, and the MACS LDI component of Liability Driven Investment. Approximately \$180 million is counted for both Tactical Asset Allocation and MACS LDI, but is not double counted in the \$192B total CMINST-2359

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## A Broad Array of Strategies and Solutions

### **Core Expertise**

- Strategic Asset Allocation
- Target Retirement Strategies
- Liability-Driven Investing (LDI) Solutions
- Tactical Asset Allocation
- Exposure Management Solutions

### **Specialty Capabilities**

- Real Assets Strategy
- Multisource Active Commodities Strategy
- Diversified Growth Strategy
- Optimized Beta Strategy

### **Current Research**

- Go Anywhere (Absolute Return TAA)
- Income Strategy Retirement Solution
- Options Based Strategy
- Sector Strategy
- Active Real Assets Strategy

### **Portfolio Insights**

- Asset Allocation Trends
- Quarterly Asset Class Forecasts
- Seminar/Training/Thought Leadership
- Portfolio Advisory Service
- Risk Budgeting and Portfolio Construction



# **State of Alaska Global Asset Allocation Strategy**

Investing includes risk, including the risk of loss of principal.





## State of Alaska Global Asset Allocation Strategy **Portfolio Objectives and Guidelines**

- Objectives
  - Seeks to achieve returns that match the balanced composite benchmark as closely as possible over an entire business cycle
  - Provide diversification of returns via investments across the major asset classes
  - Risk profile similar to the balanced composite benchmark
- Balanced Custom Benchmark
  - 60% MSCI All Country World Index, 30% Barclays Capital U.S. Aggregate Bond Index, 10% Citigroup World Government Bond ex-US Index
- Implementation
  - Blend of passive SSgA commingled funds
- Re-Balance Policy
  - Rebalanced to target weight quarterly or when asset weights drift outside stated bands
- Sources of Return
  - Function of benchmark returns (60% equity and 40% fixed income)

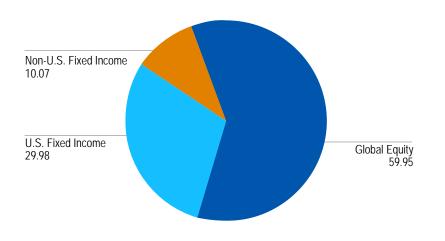
Asset Class	Benchmark	SSgA Strategy	Active/ Passive	Strategic % Weight	Allowable % Range
Global Equity	MSCI All Country World Index	Global Equity Index Fund – Class A	Passive	60	55.0 - 65.0
U.S. Fixed Income	Barclays Capital U.S. Agg. Index	U.S. Bond Index Fund – Class A	Passive	30	27.5 - 32.5
Non-US Fixed Income	Citigroup World Gov't Bond Index ex-US	World Gov't Bond ex-US Index Fund – Class A	Passive	10	7.5 -12.5

CMINST-1453

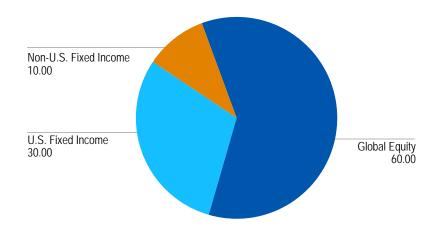
## State of Alaska Global Asset Allocation Strategy – Allocations

Asset Allocation As of 10/31/2010

### State of Alaska Global Asset Allocation Strategy



### **Custom Benchmark**



STATE STREET GLOBAL ADVISORS.

# **Appendix A: GIPS® Presentations**





## **GIPS®** Presentation: Russell 1000 Growth Index Composite

As of December 31, 2009

#### **Gross Returns**

	Quarter	YTD					Inception Oct 1991
Russell 1000 Index Composite	7.92	37.18	37.18	-1.87	1.64	-3.95	6.93
Russell 1000 Growth Index	7.94	37.21	37.21	-1.89	1.63	-3.99	6.93

Year	Russell 1000 Growth Index Composite	Russell 1000 Growth Index
2009	37.18	37.21
2008	-38.41	-38.44
2007	11.84	11.81
2006	9.12	9.07
2005	5.23	5.26
2004	6.34	6.30
2003	29.83	29.75
2002	-27.81	-27.89
2001	-20.38	-20.42
2000	-22.38	-22.43

Year	No. of Portfolios	Composite Dispersion	Total Assets at End of Period	% of Firm's Assets	Total Firm Assets (\$ mil)
2009	5	0.05	9,477,505,203	0.70	1,362,693
2008	*	N/A	7,087,236,273	0.74	952,729
2007	*	N/A	12,775,887,859	1.09	1,172,455
2006	*	N/A	10,402,519,045	1.04	1,002,253
2005	*	N/A	9,955,958,627	1.07	930,586
2004	*	N/A	6,686,825,829	0.79	841,295
2003	*	N/A	5,291,349,178	0.65	814,027
2002	*	N/A	3,219,725,601	0.51	632,277
2001	*	N/A	3,801,323,773	0.49	775,000
2000	*	N/A	3,797,794,587	0.53	711,000

#### Footnotes

Composite description: The Russell 1000 Growth Composite seeks to replicate the returns and characteristics of the Russell 1000 Growth Index.

Firm definition: For the purpose of complying with the Global Investment Performance Standards (GIPS®), the firm (SSgA-Global') here is defined as all portfolios managed across the global offices of State Street Global Advisors (SSgA) and SSgA Funds Management, Inc., with the exception of the following:

Business units which are held out to the market place as distinct business entities – wrap-fee business (Intermediary Business Group (IBG)), the Office of the Fiduciary Advisor (OFA), and Charitable Asset Management (CAM)
 Assets accounted for on a book value basis – global cash and stable value assets.

Compliance statement: SSgA-Global has prepared and presented this report in compliance with the Global Investment Performance Standards (GIPS®). The period prior to January 1, 2000 is not in compliance, as not all actual fee paying portfolios are in a composite.

List available: A complete list of the firm's composites and their descriptions is available upon request. Creation Date: The composite was created on 01-JAN-09.

Benchmark: The benchmark for the composite is the Russell 1000 Growth Index. The index returns are unmanaged and do not reflect the deduction of any fees or expenses. The index returns reflect all items of income, gain and loss. Currency: Performance is presented in USD.

Use of Subadvisors: This composite contains portfolios that were managed on a sub-advised basis for the period from 01/07/01 to 31/08/08.

Fees: Returns are expressed gross of management fees. Some members of this composite may accrue administration fees. The standard fee schedule is shown. The results do not reflect the deduction of investment management fees. The client's return will be reduced by the management fee. For example, if an annualized gross return of 10% was achieved over a 5-year period and a management fee of 1% per year was charged and deducted annually, then the resulting total return would be reduced from 61% to 54%.

For commingled funds, management fees are .08% of the first \$50,000,000; .06% of the next \$50,000,000; and .04% thereafter. The annual minimum management fee for these accounts is \$10,000. For separately managed accounts, management fees are .08% of the first \$50,000,000; .06% of the next \$50,000,000 and .04% thereafter. The minimum annual management fee for separately managed accounts is \$50,000. Management fees maybe adjusted based upon specific client requirements.

**Derivatives Use:** SSgA uses futures, and may use other derivatives from time to time, in the management of the Strategy generally as a temporary substitute for cash investments or for hedging purposes and to equitize cash and not with the purpose of creating investment leverage.

Calculation methodology: Additional information regarding policies for calculating and reporting returns is available upon request.

Annualized returns: All returns for periods greater than one year have been annualized.

Withholding Taxes Differences: None.

Exchange Rates Differences Between Composite & Benchmark: None.

Minimum Asset Level for Inclusion: None.

Dispersion: Asset-Weighted standard deviation is calculated using the annual returns of the accounts that were included in the composite for all periods of the year.

Significant events: None.

Past and future performance: Historic performance is not necessarily indicative of actual future investment performance, which could differ substantially.

gPAR100G \* Less than 5 accounts Quarterly and YTD returns are not annualized

## **GIPS®** Presentation: Russell 1000 Value Index Composite

As of December 31, 2009

#### **Gross Returns**

	Quarter	YTD					Inception Oct 1991
Russell 1000 Value Index Composite	4.27	19.98	19.98	-8.81	-0.15	2.55	9.19
Russell 1000 Value Index	4.22	19.69	19.69	-8.96	-0.25	2.47	9.18

Year	Russell 1000 Value Index Composite	Russell 1000 Value Index
2009	19.98	19.69
2008	-36.80	-36.85
2007	-0.01	-0.17
2006	22.21	22.25
2005	7.12	7.05
2004	16.48	16.48
2003	30.02	30.03
2002	-15.63	-15.52
2001	-5.59	-5.59
2000	7.37	7.02

Year	No. of Portfolios	Composite Dispersion	Total Assets at End of Period	% of Firm's Assets	Total Firm Assets (\$ mil)
2009	5	0.13	9,757,500,406	0.72	1,362,693
2008	*	N/A	8,119,084,473	0.85	952,729
2007	*	N/A	12,962,941,255	1.11	1,172,455
2006	*	N/A	12,844,067,918	1.28	1,002,253
2005	*	N/A	11,558,713,361	1.24	930,586
2004	*	N/A	10,014,236,623	1.19	841,295
2003	*	N/A	6,964,805,987	0.86	814,027
2002	*	N/A	4,960,518,811	0.78	632,277
2001	*	N/A	7,735,934,541	1.00	775,000
2000	*	N/A	8,977,936,269	1.26	711,000

gPAR100V \* Less than 5 accounts Quarterly and YTD returns are not annualized

#### **Footnotes**

Composite description: The Russell 1000 Value Composite seeks to replicate the returns and characteristics of the Russell 1000 Value Index.

Firm definition: For the purpose of complying with the Global Investment Performance Standards (GIPS®), the firm (SSgA-Global') here is defined as all portfolios managed across the global offices of State Street Global Advisors (SSgA) and SSgA Funds Management, Inc., with the exception of the following:

Business units which are held out to the market place as distinct business entities – wrap-fee business (Intermediary Business Group (IBG)), the Office of the Fiduciary Advisor (OFA), and Charitable Asset Management (CAM)
 Assets accounted for on a book value basis – global cash and stable value assets.

Compliance statement: SSgA-Global has prepared and presented this report in compliance with the Global Investment Performance Standards (GIPS<sup>®</sup>). The period prior to January 1, 2000 is not in compliance, as not all actual fee paying portfolios are in a composite.

List available: A complete list of the firm's composites and their descriptions is available upon request. Creation Date: The composite was created on 01-JAN-09.

Benchmark: The benchmark for the composite is the Russell 1000 Value Index. The index returns are unmanaged and do not reflect the deduction of any fees or expenses. The index returns reflect all items of income, gain and loss. Currency: Performance is presented in USD.

Use of Subadvisors: This composite contains portfolios that were managed on a sub-advised basis for the period from 01/07/01 to 31/08/08.

Fees: Returns are expressed gross of management fees. Some members of this composite may accrue administration fees. The standard fee schedule is shown. The results do not reflect the deduction of investment management fees. The client's return will be reduced by the management fee. For example, if an annualized gross return of 10% was achieved over a 5-year period and a management fee of 1% per year was charged and deducted annually, then the resulting total return would be reduced from 61% to 54%.

For commingled funds, management fees are .08% of the first \$50,000,000; .06% of the next \$50,000,000; and .04% thereafter. The annual minimum management fee for these accounts is \$10,000. For separately managed accounts, management fees are .08% of the first \$50,000,000; .06% of the next \$50,000,000 and .04% thereafter. The minimum annual management fee for separately managed accounts is \$50,000. Management fees maybe adjusted based upon specific client requirements.

**Derivatives Use:** SSgA uses futures, and may use other derivatives from time to time, in the management of the Strategy generally as a temporary substitute for cash investments or for hedging purposes and to equitize cash and not with the purpose of creating investment leverage.

Calculation methodology: Additional information regarding policies for calculating and reporting returns is available upon request.

Annualized returns: All returns for periods greater than one year have been annualized.

Withholding Taxes Differences: None.

Exchange Rates Differences Between Composite & Benchmark: None.

Minimum Asset Level for Inclusion: None.

Dispersion: Asset-Weighted standard deviation is calculated using the annual returns of the accounts that were included in the composite for all periods of the year.

Significant events: None.

## GIPS<sup>®</sup> Report: Russell 2000<sup>®</sup> Growth Composite

As of December 31, 2009

#### **Gross Returns**

	Quarter	YTD	1 Year		5 Years	10 Years	Inception May 1997
Russell 2000 <sup>®</sup> Growth Composite	4.13	34.43	34.43	-3.95	0.96	-1.20	3.92
Russell 2000 <sup>®</sup> Growth Index	4.14	34.47	34.47	-4.00	0.87	-1.38	3.83

Year	Russell 2000* Growth Composite	Russell 2000* Growth Index
2009	34.43	34.47
2008	-38.30	-38.54
2007	6.83	7.05
2006	13.56	13.35
2005	4.24	4.15
2004	14.45	14.31
2003	48.61	48.55
2002	-29.89	-30.27
2001	-8.96	-9.24
2000	-22.16	-22.44

Year	No. of Portfolios	Composite Dispersion	Total Assets at End of Period	% of Firm's Assets	Total Firm Assets (\$ mil)
2009	*	N/A	613,477,740	0.05	1,362,693
2008	*	N/A	480,376,569	0.05	952,729
2007	*	N/A	699,367,816	0.06	1,172,455
2006	*	N/A	632,894,594	0.06	1,002,253
2005	*	N/A	573,338,805	0.06	930,586
2004	*	N/A	710,640,197	0.08	841,295
2003	*	N/A	1,037,848,557	0.13	814,027
2002	*	N/A	577,833,317	0.09	632,277
2001	*	N/A	267,550,430	0.03	775,000
2000	*	N/A	256,376,974	0.04	711,000

gPAR200G \* Less than 5 accounts Quarterly and YTD returns are not annualized

#### Footnotes

Composite description: The Russell 2000 Growth Composite seeks to gain exposure to small growth-oriented US companies by closely replicating the returns and characteristics of the Russell 2000 Growth Index.

Firm definition: For the purpose of complying with the Global Investment Performance Standards (GIPS®), the firm ('SSgA-Global') here is defined as all portfolios managed across the global offices of State Street Global Advisors (SSgA) and SSgA Funds Management, Inc., with the exception of the following:

Business units which are held out to the market place as distinct business entities – wrap-fee business (Intermediary Business Group (IBG)), the Office of the Fiduciary Advisor (OFA), and Charitable Asset Management (CAM)
 Assets accounted for on a book value basis – global cash and stable value assets.

Compliance statement: SSgA-Global has prepared and presented this report in compliance with the Global Investment Performance Standards (GIPS®). The period prior to January 1, 2000 is not in compliance, as not all actual fee paying portfolios are in a composite.

List available: A complete list of the firm's composites and their descriptions is available upon request. Creation Date: The composite was created on 01-JAN-09.

Benchmark: The benchmark for the composite is the Russell 2000 Growth Index. The index returns are unmanaged and do not reflect the deduction of any fees or expenses. The index returns reflect all items of income, gain and loss. Currency: Performance is presented in USD.

#### Use of Subadvisors: None.

Fees: Returns are expressed gross of management fees. Some members of this composite may accrue administration fees. The standard fee schedule is shown. The results do not reflect the deduction of investment management fees. The client's return will be reduced by the management fee. For example, if an annualized gross return of 10% was achieved over a 5-year period and a management fee of 1% per year was charged and deducted annually, then the resulting total return would be reduced from 61% to 54%.

For commingled funds, management fees are .08% of the first 50,000,000; .06% of the next \$50,000,000; and .04% thereafter. The annual minimum management fee for these accounts is \$10,000. For separately managed accounts, management fees are .08% of the first \$50,000,000; .06% of the next \$50,000,000 and .04% thereafter. The minimum annual management fee for separately managed accounts is \$50,000. Management fees maybe adjusted based upon specific client requirements.

**Derivatives Use:** SSgA uses futures, and may use other derivatives from time to time, in the management of the Strategy generally as a temporary substitute for cash investments or for hedging purposes and to equitize cash and not with the purpose of creating investment leverage.

Calculation methodology: Additional information regarding policies for calculating and reporting returns is available upon request.

Annualized returns: All returns for periods greater than one year have been annualized.

Withholding Taxes Differences: None.

Exchange Rates Differences Between Composite & Benchmark: None.

Minimum Asset Level for Inclusion: None.

Dispersion: Asset-Weighted standard deviation is calculated using the annual returns of the accounts that were included in the composite for all periods of the year.

Significant events: None.

## GIPS<sup>®</sup> Report: Russell 2000<sup>®</sup> Value Index Composite

As of December 31, 2009

#### **Gross Returns**

	Quarter	YTD		3 Years			Inception May 1996
Russell 2000 Value Index Composite	3.61	20.59	20.59	-8.15	0.04	8.20	8.44
Russell 2000 Value Index	3.63	20.58	20.58	-8.22	-0.01	8.27	8.48

Year	Russell 2000 Value Index Composite	Russell 2000 Value Index
2009	20.59	20.58
2008	-28.87	-28.93
2007	-9.67	-9.78
2006	23.36	23.48
2005	4.81	4.71
2004	22.11	22.25
2003	46.10	46.02
2002	-11.39	-11.42
2001	13.91	14.03
2000	21.94	22.81

Year	No. of Portfolios	Composite Dispersion	Total Assets at End of Period	% of Firm's Assets	Total Firm Assets (\$ mil)
2009	*	N/A	1,261,580,683	0.09	1,362,693
2008	*	N/A	997,166,209	0.10	952,729
2007	*	N/A	1,035,691,320	0.09	1,172,455
2006	*	N/A	1,392,093,308	0.14	1,002,253
2005	*	N/A	998,425,453	0.11	930,586
2004	*	N/A	871,366,367	0.10	841,295
2003	*	N/A	970,752,390	0.12	814,027
2002	*	N/A	561,628,944	0.09	632,277
2001	*	N/A	406,430,238	0.05	775,000
2000	*	N/A	210,867,890	0.03	711,000

gPR2000V \* Less than 5 accounts Quarterly and YTD returns are not annualized

#### **Footnotes**

Composite description: The Russell 2000 Value Composite seeks to gain exposure to small, value-oriented US companies by closely replicating the returns and characteristics of the Russell 2000 Value Index.

Firm definition: For the purpose of complying with the Global Investment Performance Standards (GIPS®), the firm ('SSgA-Global') here is defined as all portfolios managed across the global offices of State Street Global Advisors (SSgA) and SSgA Funds Management, Inc., with the exception of the following:

Business units which are held out to the market place as distinct business entities – wrap-fee business (Intermediary Business Group (IBG)), the Office of the Fiduciary Advisor (OFA), and Charitable Asset Management (CAM)
 Assets accounted for on a book value basis – global cash and stable value assets.

Compliance statement: SSgA-Global has prepared and presented this report in compliance with the Global Investment Performance Standards (GIPS®). The period prior to January 1, 2000 is not in compliance, as not all actual fee paying portfolios are in a composite.

List available: A complete list of the firm's composites and their descriptions is available upon request. Creation Date: The composite was created on 01-JAN-09.

Benchmark: The benchmark for the composite is the Russell 2000 Value Index. The index returns are unmanaged and do not reflect the deduction of any fees or expenses. The index returns reflect all items of income, gain and loss. Currency: Performance is presented in USD.

#### Use of Subadvisors: None.

Fees: Returns are expressed gross of management fees. Some members of this composite may accrue administration fees. The standard fee schedule is shown. The results do not reflect the deduction of investment management fees. The client's return will be reduced by the management fee. For example, if an annualized gross return of 10% was achieved over a 5-year period and a management fee of 1% per year was charged and deducted annually, then the resulting total return would be reduced from 61% to 54%.

For commingled funds, management fees are .08% of the first 50,000,000; .06% of the next \$50,000,000; and .04% thereafter. The annual minimum management fee for these accounts is \$10,000. For separately managed accounts, management fees are .08% of the first \$50,000,000; .06% of the next \$50,000,000 and .04% thereafter. The minimum annual management fee for separately managed accounts is \$50,000. Management fees maybe adjusted based upon specific client requirements.

Derivatives Use: SSgA uses futures, and may use other derivatives from time to time, in the management of the Strategy generally as a temporary substitute for cash investments or for hedging purposes and to equitize cash and not with the purpose of creating investment leverage.

Calculation methodology: Additional information regarding policies for calculating and reporting returns is available upon request.

Annualized returns: All returns for periods greater than one year have been annualized.

Withholding Taxes Differences: None.

Exchange Rates Differences Between Composite & Benchmark: None.

Minimum Asset Level for Inclusion: None.

Dispersion: Asset-Weighted standard deviation is calculated using the annual returns of the accounts that were included in the composite for all periods of the year.

Significant events: None.

## **GIPS®** Presentation: Russell 3000<sup>®</sup> Index Composite

As of December 31, 2009

#### **Gross Returns**

	Quarter	YTD					Inception Sep 1996
Russell 3000® Index Composite	5.94	28.44	28.44	-5.34	0.83	-0.14	6.21
Russell 3000® Index	5.90	28.34	28.34	-5.42	0.76	-0.20	6.09

Year	Russell 3000 <sup>®</sup> Index Composite	Russell 3000 <sup>®</sup> Index
2009	28.44	28.34
2008	-37.23	-37.31
2007	5.22	5.14
2006	15.70	15.72
2005	6.20	6.12
2004	11.94	11.95
2003	30.91	31.04
2002	-21.45	-21.54
2001	-11.38	-11.46
2000	-7.24	-7.46

Year	No. of Portfolios	Composite Dispersion	Total Assets at End of Period	% of Firm's Assets	Total Firm Assets (\$ mil)
YTD 2009	7	0.04	12,408,566,078	0.91	1,362,693
2008	5	0.08	13,388,181,749	1.41	952,729
2007	5	0.03	24,209,717,148	2.06	1,172,455
2006	5	0.02	24,229,083,727	2.42	1,002,253
2005	5	0.01	23,596,894,770	2.54	930,586
2004	*	N/A	36,566,886,304	4.35	841,295
2003	5	0.02	46,429,387,660	5.70	814,027
2002	5	0.04	20,401,777,126	3.23	632,277
2001	6	0.09	25,241,520,317	3.26	775,000
2000	6	0.43	25,679,455,833	3.61	711,000

gPAR3000 \* Less than 5 accounts Quarterly and YTD returns are not annualized

#### **Footnotes**

Composite description: The Russell 3000 Index Composite seeks to match the returns and characteristics of the Russell 3000 Index.

Firm definition: For the purpose of complying with the Global Investment Performance Standards (GIPS®), the firm (SSgA-Global') here is defined as all portfolios managed across the global offices of State Street Global Advisors (SSgA) and SSgA Funds Management, Inc., with the exception of the following:

Business units which are held out to the market place as distinct business entities – wrap-fee business (Intermediary Business Group (IBG)), the Office of the Fiduciary Advisor (OFA), and Charitable Asset Management (CAM)
 Assets accounted for on a book value basis – global cash and stable value assets.

Compliance statement: SSgA-Global has prepared and presented this report in compliance with the Global Investment Performance Standards (GIPS®). The period prior to January 1, 2000 is not in compliance, as not all actual fee paying portfolios are in a composite.

List available: A complete list of the firm's composites and their descriptions is available upon request. Creation Date: The composite was created on 01-JAN-09.

Benchmark: The benchmark for the composite is the Russell 3000 Index. The index returns are unmanaged and do not reflect the deduction of any fees or expenses. The index returns reflect all items of income, gain and loss. Currency: Performance is presented in USD.

Use of Subadvisors: This composite contains portfolios that were managed on a sub-advised basis for the period from the period from 01/09/05 to 31/08/08.

Fees: Returns are expressed gross of management fees. Some members of this composite may accrue administration fees. The standard fee schedule is shown. The results do not reflect the deduction of investment management fees. The client's return will be reduced by the management fee. For example, if an annualized gross return of 10% was achieved over a 5-year period and a management fee of 1% per year was charged and deducted annually, then the resulting total return would be reduced from 61% to 54%.

For commingled funds, management fees are .08% of the first 50,000,000; .06% of the next \$50,000,000; and .04% thereafter. The annual minimum management fee for these accounts is \$10,000. For separately managed accounts, management fees are .08% of the first \$50,000,000; .06% of the next \$50,000,000 and .04% thereafter. The minimum annual management fee for separately managed accounts is \$50,000. Management fees maybe adjusted based upon specific client requirements.

**Derivatives Use:** SSgA uses futures, and may use other derivatives from time to time, in the management of the Strategy generally as a temporary substitute for cash investments or for hedging purposes and to equitize cash and not with the purpose of creating investment leverage.

Calculation methodology: Additional information regarding policies for calculating and reporting returns is available upon request.

Annualized returns: All returns for periods greater than one year have been annualized.

Withholding Taxes Differences: None.

Exchange Rates Differences Between Composite & Benchmark: None.

Minimum Asset Level for Inclusion: None.

Dispersion: Asset-Weighted standard deviation is calculated using the annual returns of the accounts that were included in the composite for all periods of the year.

Significant events: None.

## **GIPS®** Report: Russell Top 200 Index Composite

As of December 31, 2009

#### **Gross Returns**

	Quarter	YTD					Inception Aug 1996
Russell Top 200 Index Composite	6.16	24.35	24.35	-5.52	0.22	-2.22	5.52
Russell Top 200 Index	6.12	24.21	24.21	-5.61	0.16	-2.26	5.50

Year	Russell Top 200 Index Composite	Russell Top 200 Index
2009	24.35	24.21
2008	-35.99	-36.07
2007	5.96	5.89
2006	15.50	15.53
2005	3.76	3.77
2004	8.32	8.31
2003	26.65	26.67
2002	-23.34	-23.36
2001	-14.49	-14.58
2000	-12.14	-12.14

Year	No. of Portfolios	Composite Dispersion	Total Assets at End of Period	% of Firm's Assets	Total Firm Assets (\$ mil)
2009	*	N/A	1,180,005,457	0.09	1,362,693
2008	*	N/A	1,671,787,023	0.18	952,729
2007	*	N/A	1,853,084,781	0.16	1,172,455
2006	*	N/A	718,802,774	0.07	1,002,253
2005	*	N/A	734,217,976	0.08	930,586
2004	*	N/A	703,367,209	0.08	841,295
2003	*	N/A	737,802,762	0.09	814,027
2002	*	N/A	670,498,756	0.11	632,277
2001	*	N/A	689,289,816 0.09 77		775,000
2000	*	N/A	244,365,037	0.03	711,000

gPART200 \* Less than 5 accounts Quarterly and YTD returns are not annualized

#### **Footnotes**

Composite description: The Russell Top 200 Index Composite seeks to replicate the performance of the Russell Top 200 Index.

Firm definition: For the purpose of complying with the Global Investment Performance Standards (GIPS®), the firm (SSgA-Global') here is defined as all portfolios managed across the global offices of State Street Global Advisors (SSgA) and SSgA Funds Management, Inc., with the exception of the following:

• Business units which are held out to the market place as distinct business entities – wrap-fee business (Intermediary Business Group (IBG)), the Office of the Fiduciary Advisor (OFA), and Charitable Asset Management (CAM)

Assets accounted for on a book value basis – global cash and stable value assets.

Compliance statement: SSgA-Global has prepared and presented this report in compliance with the Global Investment Performance Standards (GIPS®). The period prior to January 1, 2000 is not in compliance, as not all actual fee paying portfolios are in a composite.

List available: A complete list of the firm's composites and their descriptions is available upon request. Creation Date: The composite was created on 01-JAN-09.

Benchmark: The benchmark for the composite is the Russell top 200 Index. The index returns are unmanaged and do not reflect the deduction of any fees or expenses. The index returns reflect all items of income, gain and loss. Currency: Performance is presented in USD.

#### Use of Subadvisors: None.

Fees: Returns are expressed gross of management fees. Some members of this composite may accrue administration fees. The standard fee schedule is shown. The results do not reflect the deduction of investment management fees. The client's return will be reduced by the management fee. For example, if an annualized gross return of 10% was achieved over a 5-year period and a management fee of 1% per year was charged and deducted annually, then the resulting total return would be reduced from 61% to 54%.

For commingled funds, management fees are .08% of the first 50,000,000; .06% of the next \$50,000,000; and .04% thereafter. The annual minimum management fee for these accounts is \$10,000. For separately managed accounts, management fees are the same as above with a minimum of \$50,000. Management fees may be adjusted based upon specific client requirements.

Derivatives Use: SSgA uses futures, and may use other derivatives from time to time, in the management of the Strategy generally as a temporary substitute for cash investments or for hedging purposes and to equitize cash and not with the purpose of creating investment leverage.

Calculation methodology: Additional information regarding policies for calculating and reporting returns is available upon request.

Annualized returns: All returns for periods greater than one year have been annualized.

Withholding Taxes Differences: None.

Exchange Rates Differences Between Composite & Benchmark: None.

Minimum Asset Level for Inclusion: None.

Dispersion: Asset-Weighted standard deviation is calculated using the annual returns of the accounts that were included in the composite for all periods of the year.

Significant events: None.

#### **Gross Returns**

	Quarter	YTD					Inception Jan 1986
S&P 500 <sup>®</sup> Index Composite	6.05	26.54	26.54	-5.56	0.47	-0.92	9.75
Standard & Poor's 500 <sup>®</sup> Index	6.04	26.46	26.46	-5.63	0.42	-0.95	9.73

Year	S&P 500® Index Composite	Standard & Poor's 500® Index
2009	26.54	26.46
2008	-36.93	-37.00
2007	5.53	5.49
2006	15.81	15.79
2005	4.94	4.91
2004	10.88	10.87
2003	28.71	28.68
2002	-22.05	-22.10
2001	-11.91	-11.89
2000	-9.07	-9.10

Year	No. of Portfolios	Composite Dispersion	Total Assets at End of Period	% of Firm's Assets	Total Firm Assets (\$ mil)
2009	18	0.06	90,289,708,705	6.63	1,362,693
2008	13	0.02	63,475,691,593	6.66	952,729
2007	13	0.07	105,916,299,878	9.03	1,172,455
2006	15	0.10	105,498,089,610	10.53	1,002,253
2005	15	0.05	102,507,256,676	11.02	930,586
2004	18	0.05	101,019,651,849	12.01	841,295
2003	19	0.08	109,663,641,800	13.47	814,027
2002	21	0.06	82,541,159,751	13.05	632,277
2001	24	0.09	105,014,958,406	13.55	775,000
2000	23	0.18	114,394,682,093	16.09	711,000

#### **Footnotes**

Composite description: The S&P 500 Index Composite seeks to replicate the returns and characteristics of the Standard & Poor's 500 Index.

Firm definition: For the purpose of complying with the Global Investment Performance Standards (GIPS<sup>®</sup>), the firm (SSgA-Global') here is defined as all portfolios managed across the global offices of State Street Global Advisors (SSgA) and SSgA Funds Management, Inc., with the exception of the following:

• Business units which are held out to the market place as distinct business entities – wrap-fee business (Intermediary Business Group (IBG)), the Office of the Fiduciary Advisor (OFA), and Charitable Asset Management (CAM)

· Assets accounted for on a book value basis - global cash and stable value assets.

 $\label{eq:compliance} \mbox{ compliance statement: SSgA-Global has prepared and presented this report in compliance with the Global Investment Performance Standards (GIPS*).$ 

The period prior to January 1, 2000 is not in compliance, as not all actual fee paying portfolios are in a composite. List available: A complete list of the firm's composites and their descriptions is available upon request. Creation Date: The composite was created on 01-JAN-09.

Benchmark: The benchmark for the composite is the Standard & Poor's 500 Index.

The index returns are unmanaged and do not reflect the deduction of any fees or expenses. The index returns reflect all items of income, gain and loss.

Currency: Performance is presented in USD.

Use of Subadvisors: This composite contains portfolios that were managed on a sub-advised basis for the period from 01/09/02 to 31/08/08.

Fees: Returns are expressed gross of management fees. Some members of this composite may accrue administration fees.

The standard fee schedule is shown. The results do not reflect the deduction of investment management fees. The client's return will be reduced by the management fee. For example, if an annualized gross return of 10% was achieved over a 5-year period and a management fee of 1% per year was charged and deducted annually, then the resulting total return would be reduced from 61% to 54%.

For commingled funds, management fees are .05% of the first 50,000,000; .04% of the next \$50,000,000; and .02% thereafter. The annual minimum management fee for these accounts is \$10,000. For separately managed accounts, management fees are .05% of the first \$50,000,000; .04% of the next \$50,000,000 and .02% thereafter. The minimum annual management fee for separately managed accounts is \$50,000. Management fees maybe adjusted based upon specific client requirements.

**Derivatives Use:** SSgA uses futures, and may use other derivatives from time to time, in the management of the Strategy generally as a temporary substitute for cash investments or for hedging purposes and to equitize cash and not with the purpose of creating investment leverage.

Calculation methodology: Additional information regarding policies for calculating and reporting returns is available upon request.

Annualized returns: All returns for periods greater than one year have been annualized.

Withholding Taxes Differences: None.

Exchange Rates Differences Between Composite & Benchmark: None.

Minimum Asset Level for Inclusion: None.

Dispersion: Asset-Weighted standard deviation is calculated using the annual returns of the accounts that were included in the composite for all periods of the year.

Significant events: None.

#### **Gross Returns**

	Quarter	YTD					Inception Jan 1985
MSCI EAFE Index Composite	2.20	32.05	32.05	-5.79	3.78	1.37	9.96
MSCI EAFE Index	2.18	31.78	31.78	-6.04	3.54	1.17	9.80

Year	MSCI EAFE Index Composite	MSCI EAFE Index
2009	32.05	31.78
2008	-43.15	-43.38
2007	11.39	11.17
2006	26.65	26.34
2005	13.68	13.54
2004	20.40	20.25
2003	38.76	38.59
2002	-15.70	-15.94
2001	-21.41	-21.44
2000	-14.02	-14.17

Year	No. of Portfolios	Composite Dispersion	Total Assets at End of Period	% of Firm's Assets	Total Firm Assets (\$ mil)
2009	7	0.24	18,390,127,314	1.35	1,362,693
2008	6	0.09	12,171,065,237	1.28	952,729
2007	11	0.08	7,169,417,726	0.61	1,172,455
2006	17	0.11	17,469,355,884	1.74	1,002,253
2005	16	0.09	18,935,292,298	2.03	930,586
2004	19	0.14	17,026,382,952	2.02	841,295
2003	18	0.13	16,055,620,017	1.97	814,027
2002	20	0.06	11,317,447,055	1.79	632,277
2001	7	0.09	1,941,711,386	0.25	775,000
2000	7	0.06	12,464,282,328	1.75	711,000

#### **Footnotes**

Composite description: The MSCI EAFE Composite seeks to replicate the performance of the MSCI EAFE Index while providing low cost, broadly diversified, non-U.S. exposure.

Firm definition: For the purpose of complying with the Global Investment Performance Standards (GIPS®), the firm (SSgA-Global) here is defined as all portfolios managed across the global offices of State Street Global Advisors (SSgA) and SSgA Funds Management, Inc., with the exception of the following:

• Business units which are held out to the market place as distinct business entities – wrap-fee business (Intermediary Business Group (IBG)), the Office of the Fiduciary Advisor (OFA), and Charitable Asset Management (CAM)

· Assets accounted for on a book value basis - global cash and stable value assets.

Compliance statement: SSgA-Global has prepared and presented this report in compliance with the Global Investment Performance Standards (GIPS®).

The period prior to January 1, 2000 is not in compliance, as not all actual fee paying portfolios are in a composite.

List available: A complete list of the firm's composites and their descriptions is available upon request.

Creation Date: The composite was created on 01-JAN-09.

Benchmark: The benchmark for the composite is the MSCI EAFE Index.

The index returns are unmanaged and do not reflect the deduction of any fees or expenses. The index returns reflect all items of income, gain and loss.

Currency: Performance is presented in USD.

Use of Subadvisors: This composite contains portfolios that were managed on a sub-advised basis for the period from 01/03/97 to 31/08/08.

Fees: Returns are expressed gross of management fees. Some members of this composite may accrue administration fees.

The standard fee schedule is shown. The results do not reflect the deduction of investment management fees. The client's return will be reduced by the management fee. For example, if an annualized gross return of 10% was achieved over a 5-year period and a management fee of 1% per year was charged and deducted annually, then the resulting total return would be reduced from 61% to 54%.

For commingled funds, management fees are .10% of the first 50,000,000; .08% of the next \$50,000,000; and .05% thereafter. The annual minimum management fee for EAFE Umbrella accounts is \$10,000 and for Non-capweighted/separate country funds is \$25,000.For separately managed accounts, management fees are .15% of the first \$50,000,000; .10% of the next \$50,000,000 and .05% thereafter. The minimum annual management fee for separately managed accounts is \$15,000. Management fees maybe adjusted based upon specific client requirements.

Derivatives Use: SSgA uses futures, and may use other derivatives from time to time, in the management of the Strategy generally as a temporary substitute for cash investments or for hedging purposes and to equitize cash and not with the purpose of creating investment leverage.

Calculation methodology: Additional information regarding policies for calculating and reporting returns is available upon request.

Annualized returns: All returns for periods greater than one year have been annualized.

Withholding Taxes Differences: Performance is presented net of withholding taxes for both the composite and the benchmark.

Exchange Rates Differences Between Composite & Benchmark: None.

Minimum Asset Level for Inclusion: None.

Dispersion: Asset-Weighted standard deviation is calculated using the annual returns of the accounts that were included in the composite for all periods of the year.

Significant events: None.

#### **Gross Returns**

	Quarter	YTD					Inception Jul 2006
MSCI ACWI Index Composite	4.72	34.90	34.90	-4.36	N/A	N/A	-0.04
MSCI All Country World Index	4.63	34.63	34.63	-4.57	N/A	N/A	-0.28

Year	MSCI ACWI Index Composite	MSCI All Country World Index
2009	34.90	34.63
2008	-42.05	-42.20
2007	11.92	11.66
(Jul-Dec) 2006	14.13	13.97
2005	—	—
2004	_	—
2003	_	—
2002	_	—
2001	_	_
2000	—	—

Year	No. of Portfolios	Composite Dispersion	Total Assets at End of Period	% of Firm's Assets	Total Firm Assets (\$ mil)
2009	*	N/A	82,378,535	0.01	1,362,693
2008	*	N/A	63,632,613	0.01	952,729
2007	*	N/A	153,662,283 0.01		1,172,455
(Jul-Dec) 2006	*	N/A	70,620,984	0.01	1,002,253
2005	—	—	—	_	—
2004	_	—	—	_	—
2003	—	—	—	_	—
2002	_	_	—	_	—
2001	_	_	—	_	_
2000	_	—	—	_	—

gP-ACWI2 \* Less than 5 accounts Quarterly and YTD returns are not annualized

#### **Footnotes**

Composite description: The MSCI ACWI Index Composite seeks to match the performance and characteristics of the MSCI ACWI Index.

Firm definition: For the purpose of complying with the Global Investment Performance Standards (GIPS®), the firm (SSgA-Global') here is defined as all portfolios managed across the global offices of State Street Global Advisors (SSgA) and SSgA Funds Management, Inc., with the exception of the following:

Business units which are held out to the market place as distinct business entities – wrap-fee business (Intermediary Business Group (IBG)), the Office of the Fiduciary Advisor (OFA), and Charitable Asset Management (CAM)

Assets accounted for on a book value basis – global cash and stable value assets.

Compliance statement: SSgA-Global has prepared and presented this report in compliance with the Global Investment Performance Standards (GIPS®). The period prior to January 1, 2000 is not in compliance, as not all actual fee paying portfolios are in a composite.

List available: A complete list of the firm's composites and their descriptions is available upon request. Creation Date: The composite was created on 01-JAN-09.

Benchmark: The benchmark for the composite is MSCI ACWI Index. The index returns are unmanaged and do not reflect the deduction of any fees or expenses. The index returns reflect all items of income, gain and loss. Currency: Performance is presented in USD.

Use of Subadvisors: None.

Fees: Returns are expressed gross of management fees. Some members of this composite may accrue administration fees. The standard fee schedule is shown. The results do not reflect the deduction of investment management fees. The client's return will be reduced by the management fee. For example, if an annualized gross return of 10% was achieved over a 5-year period and a management fee of 1% per year was charged and deducted annually, then the resulting total return would be reduced from 61% to 54%.

For commingled funds, management fees are .25% of the first 50,000,000; .20% of the next \$50,000,000; and .15% thereafter. The annual minimum management fee \$10,000. For separately managed accounts, management fees are the same as above with a minimum of \$150,000. Management fees maybe adjusted based upon specific client requirements.

**Derivatives Use:** SSgA uses futures, and may use other derivatives from time to time, in the management of the Strategy generally as a temporary substitute for cash investments or for hedging purposes and to equitize cash and not with the purpose of creating investment leverage.

Calculation methodology: Additional information regarding policies for calculating and reporting returns is available upon request.

Annualized returns: All returns for periods greater than one year have been annualized.

Withholding Taxes Differences: Performance is presented net of withholding taxes for both the composite and the benchmark.

Exchange Rates Differences Between Composite & Benchmark: None.

Minimum Asset Level for Inclusion: None.

Dispersion: Asset-Weighted standard deviation is calculated using the annual returns of the accounts that were included in the composite for all periods of the year.

Significant events: None.

## **GIPS®** Report: MSCI ACWI ex-US Index Composite

As of December 31, 2009

#### **Gross Returns**

	Quarter	YTD					Inception Aug 1998
MSCI ACWI ex-US Index Composite	3.83	41.68	41.68	-3.27	6.07	2.92	5.10
MSCI ACWI ex-US Composite Benchmark	3.74	41.45	41.45	-3.49	5.83	2.72	4.90

Year	MSCI ACWI ex-US Index Composite	MSCI ACWI ex-US Composite Benchmark
2009	41.68	41.45
2008	-45.33	-45.53
2007	16.86	16.65
2006	26.99	26.65
2005	16.81	16.62
2004	21.15	20.90
2003	40.97	40.83
2002	-14.65	-14.95
2001	-19.87	-19.75
2000	-14.94	-15.27

Year	No. of Portfolios	Composite Dispersion	Total Assets at End of Period	% of Firm's Assets	Total Firm Assets (\$ mil)
2009	11	0.26	4,921,292,506	0.36	1,362,693
2008	10	0.13	5,443,694,662	0.57	952,729
2007	11	0.17	5,780,959,417	0.49	1,172,455
2006	12	0.08	7,962,029,279	0.79	1,002,253
2005	11	0.14	6,584,611,679	0.71	930,586
2004	10	0.06	2,352,089,094	0.28	841,295
2003	15	0.09	3,084,535,516	0.38	814,027
2002	8	0.00	1,523,464,412	0.24	632,277
2001	*	N/A	838,120,451	0.11	775,000
2000	5	0.11	2,697,757,042	0.38	711,000

gP-ACWI \* Less than 5 accounts Quarterly and YTD returns are not annualized

#### **Footnotes**

Composite description: The MSCI ACWI ex USA Index Composite seeks to match the returns of the MSCI ACWI ex USA Index and provide broad-based, low-cost exposure to both the developed and emerging markets.

Firm definition: For the purpose of complying with the Global Investment Performance Standards (GIPS®), the firm ('SSgA-Global') here is defined as all portfolios managed across the global offices of State Street Global Advisors (SSgA) and SSgA Funds Management, Inc., with the exception of the following:

• Business units which are held out to the market place as distinct business entities – wrap-fee business (Intermediary Business Group (IBG)), the Office of the Fiduciary Advisor (OFA), and Charitable Asset Management (CAM)

· Assets accounted for on a book value basis - global cash and stable value assets.

Compliance statement: SSgA-Global has prepared and presented this report in compliance with the Global Investment Performance Standards (GIPS<sup>®</sup>).

The period prior to January 1, 2000 is not in compliance, as not all actual fee paying portfolios are in a composite.

List available: A complete list of the firm's composites and their descriptions is available upon request.

Creation Date: The composite was created on 01-JAN-09.

Benchmark: The benchmark for the composite is the MSCI ACWI ex-US Index.

The index returns are unmanaged and do not reflect the deduction of any fees or expenses. The index returns reflect all items of income, gain and loss.

Currency: Performance is presented in USD.

#### Use of Subadvisors: None.

Fees: Returns are expressed gross of management fees. Some members of this composite may accrue administration fees. The standard fee schedule is shown. The results do not reflect the deduction of investment management fees. The client's return will be reduced by the management fee. For example, if an annualized gross return of 10% was achieved over a 5-year period and a management fee of 1% per year was charged and deducted annually, then the resulting total return would be reduced from 61% to 54%.

For commingled funds, management fees are .15% of the first \$50,000,000; .10% of the next \$50,000,000; and .07% thereafter. The annual minimum management fee for these accounts is \$10,000. For separately managed accounts, management fees are the same as above with a minimum of \$175,000. Management fees may be adjusted based upon specific client requirements.

**Derivatives Use:** SSgA uses futures, and may use other derivatives from time to time, in the management of the Strategy generally as a temporary substitute for cash investments or for hedging purposes and to equitize cash and not with the purpose of creating investment leverage.

Calculation methodology: Additional information regarding policies for calculating and reporting returns is available upon request.

Annualized returns: All returns for periods greater than one year have been annualized.

Withholding Taxes Differences: Performance is presented net of withholding taxes for both the composite and the benchmark.

Exchange Rates Differences Between Composite & Benchmark: None.

Minimum Asset Level for Inclusion: None.

**Dispersion:** Asset-Weighted standard deviation is calculated using the annual returns of the accounts that were included in the composite for all periods of the year.

Significant events: None.

## **GIPS® Report: MSCI ACWI ex US IMI Index Composite**

As of December 31, 2009

#### **Gross Returns**

	Quarter	YTD			5 Years		Inception Jun 2008
MSCI ACWI ex US IMI Index Composite	3.77	43.79	43.79	N/A	N/A	N/A	-13.36
MSCI ACWI ex US IMI Index	3.66	43.60	43.60	N/A	N/A	N/A	-13.59

Year	MSCI ACWI ex US IMI Index Composite	MSCI ACWI ex US IMI Index
2009	43.79	43.60
(Jun-Dec) 2008	-44.58	-44.74
2007	—	_
2006	—	—
2005	—	_
2004	—	—
2003	_	_
2002	—	—
2001		_
2000	—	_

Year	No. of Portfolios	Composite Dispersion	Total Assets at End of Period	% of Firm's Assets	Total Firm Assets (\$ mil)
2009	8	0.49	4,144,261,387	0.30	1,362,693
2008	8	0.02	2,897,771,584	0.30	952,729
2007	—	—	—	—	—
2006	_	—	_	_	—
2005	—	—	_	—	—
2004	_	_	_	_	—
2003	_	_	—	_	—
2002	_	_	—	_	—
2001	_	_	—	_	—
2000	_	_	_	_	—

gPACWIMI \* Less than 5 accounts Quarterly and YTD returns are not annualized

#### **Footnotes**

Composite description: The MSCI All Country World ex-US IMI Index strategy seeks to match the returns of the MSCI All Country World ex- US IMI Index and provide broad-based, low-cost exposure to both the developed and emerging markets.

Firm definition: For the purpose of complying with the Global Investment Performance Standards (GIPS®), the firm (SSgA-Global') here is defined as all portfolios managed across the global offices of State Street Global Advisors (SSgA) and SSgA Funds Management, Inc., with the exception of the following:

Business units which are held out to the market place as distinct business entities – wrap-fee business (Intermediary Business Group (IBG)), the Office of the Fiduciary Advisor (OFA), and Charitable Asset Management (CAM)
 Assets accounted for on a book value basis – global cash and stable value assets.

Compliance statement: SSgA-Global has prepared and presented this report in compliance with the Global Investment Performance Standards (GIPS®). The period prior to January 1, 2000 is not in compliance, as not all actual fee paying portfolios are in a composite.

List available: A complete list of the firm's composites and their descriptions is available upon request.

Creation Date: The composite was created on 01-JAN-09. The composite name changed from MSCI ACWI World x US IMI Index Composite to MSCI ACWI ex US IMI Index Composite on 01-DEC-09.

Benchmark: The benchmark for the composite is the MSCI ACWI ex US IMI Index.

Currency: Performance is presented in USD.

Use of Subadvisors: None.

Fees: Returns are expressed gross of management fees. Some members of this composite may accrue administration fees. The standard fee schedule is shown. The results do not reflect the deduction of investment management fees. The client's return will be reduced by the management fee. For example, if an annualized gross return of 10% was achieved over a 5-year period and a management fee of 1% per year was charged and deducted annually, then the resulting total return would be reduced from 61% to 54%.

For commingled Funds management fees are .15% of the first \$50,000,000; .10% of the next \$50,000,000; and .07% thereafter. There is a minimum annual fee of \$10,000. For Separate Accounts the management fees are .15% of the first \$50,000,000; .10% of the next \$50,000,000; and .07% thereafter. There is a minimum annual fee of \$175,000.

Derivatives Use: SSgA uses futures, and may use other derivatives from time to time, in the management of the Strategy generally as a temporary substitute for cash investments or for hedging purposes and to equitize cash and not with the purpose of creating investment leverage.

Calculation methodology: Additional information regarding policies for calculating and reporting returns is available upon request.

Annualized returns: All returns for periods greater than one year have been annualized.

Withholding Taxes Differences: Performance is presented net of withholding taxes for both the composite and the benchmark.

Exchange Rates Differences Between Composite & Benchmark: None.

Minimum Asset Level for Inclusion: None.

Dispersion: Asset-Weighted standard deviation is calculated using the annual returns of the accounts that were included in the composite for all periods of the year.

Significant events: None.

## **GIPS®** Report: US Aggregate Bond Index Composite

As of December 31, 2009

#### **Gross Returns**

	Quarter	YTD	1 Year	3 Years		10 Years	Inception Apr 1996
US Aggregate Bond Index Composite	0.25	5.99	5.99	6.11	5.00	6.36	6.32
Barclays Capital Aggregate	0.20	5.93	5.93	6.04	4.97	6.26	6.26

Year	US Aggregate Bond Index Composite	Barclays Capital Aggregate
2009	5.99	5.93
2008	5.37	5.24
2007	6.97	6.97
2006	4.31	4.33
2005	2.42	2.43
2004	4.29	4.34
2003	4.14	4.10
2002	10.41	10.26
2001	8.36	8.44
2000	11.65	11.63

Year	No. of Portfolios	Composite Dispersion	Total Assets at End of Period	% of Firm's Assets	Total Firm Assets (\$ mil)
2009	11	0.10	28,744,023,602	2.11	1,362,693
2008	9	0.09	25,551,854,320	2.68	952,729
2007	8	0.03	32,991,429,103	2.81	1,172,455
2006	8	0.01	44,998,614,342	4.49	1,002,253
2005	8	0.02	29,845,605,723	3.21	930,586
2004	6	0.01	28,708,002,579	3.41	841,295
2003	6	0.02	28,393,352,626	3.49	814,027
2002	6	0.06	21,889,258,340	3.46	632,277
2001	6	0.06	18,182,455,884	2.35	775,000
2000	*	N/A	17,626,909,860	2.48	711,000

gPBMIC \* Less than 5 accounts Quarterly and YTD returns are not annualized

#### **Footnotes**

Composite description: The U.S. Aggregate Bond Index Composite seeks to match the total rate of return of the Barclays Capital U.S. Aggregate Bond Index each calendar year.

Firm definition: For the purpose of complying with the Global Investment Performance Standards (GIPS®), the firm (SSgA-Global') here is defined as all portfolios managed across the global offices of State Street Global Advisors (SSgA) and SSgA Funds Management, Inc., with the exception of the following:

• Business units which are held out to the market place as distinct business entities – wrap-fee business (Intermediary Business Group (IBG)), the Office of the Fiduciary Advisor (OFA), and Charitable Asset Management (CAM)

· Assets accounted for on a book value basis - global cash and stable value assets.

Compliance statement: SSgA-Global has prepared and presented this report in compliance with the Global Investment Performance Standards (GIPS®).

The period prior to January 1, 2000 is not in compliance, as not all actual fee paying portfolios are in a composite. List available: A complete list of the firm's composites and their descriptions is available upon request. Creation Date: The composite was created on 01-JAN-09.

Benchmark: The benchmark for the composite is the Barclays Capital Aggregate Index.

The index returns are unmanaged and do not reflect the deduction of any fees or expenses. The index returns reflect all items of income, gain and loss.

Currency: Performance is presented in USD.

#### Use of Subadvisors: None.

Fees: Returns are expressed gross of management fees. Some members of this composite may accrue administration fees.

The standard fee schedule is shown. The results do not reflect the deduction of investment management fees. The client's return will be reduced by the management fee. For example, if an annualized gross return of 10% was achieved over a 5-year period and a management fee of 1% per year was charged and deducted annually, then the resulting total return would be reduced from 61% to 54%.

For commingled funds, management fees are .06% of the first 50,000,000; .05% of the next \$50,000,000; and .04% thereafter. The annual minimum management fee for these accounts is \$10,000.For separately managed accounts, management fees are the same as above with a minimum of \$200,000. Management fees may be adjusted based upon specific client requirements.

**Derivatives Use:** SSgA may use futures and other derivatives from time to time in the management of the Strategy generally as a temporary substitute for cash investments or for hedging purposes and not with the purpose of creating investment leverage.

Calculation methodology: Additional information regarding policies for calculating and reporting returns is available upon request.

Annualized returns: All returns for periods greater than one year have been annualized.

Withholding Taxes Differences: None.

Exchange Rates Differences Between Composite & Benchmark: None.

Minimum Asset Level for Inclusion: None.

Dispersion: Asset-Weighted standard deviation is calculated using the annual returns of the accounts that were included in the composite for all periods of the year.

Significant events: None.

## **GIPS®** Report: Long US Treasury Index Composite

As of December 31, 2009

#### **Gross Returns**

	Quarter	YTD					Inception May 2003
Long US Treasury Index Composite	-5.34	-12.96	-12.96	5.80	5.13	N/A	4.98
Barclays Capital Long Treasury Index	-5.33	-12.92	-12.92	5.85	5.17	N/A	5.04

Year	Long US Treasury Index Composite	Barclays Capital Long Treasury Index
2009	-12.96	-12.92
2008	23.93	24.03
2007	9.79	9.81
2006	1.84	1.85
2005	6.50	6.51
2004	7.65	7.69
(May-Dec) 2003	0.03	0.18
2002	_	—
2001	_	_
2000	—	—

Year	No. of Portfolios	Composite Dispersion	Total Assets at End of Period	% of Firm's Assets	Total Firm Assets (\$ mil)
2009	*	N/A	2,353,654,527	0.17	1,362,693
2008	*	N/A	4,561,619,030	0.48	952,729
2007	*	N/A	3,935,908,016	0.34	1,172,455
2006	*	N/A	3,087,511,462	0.31	1,002,253
2005	*	N/A	2,944,814,505	0.32	930,586
2004	*	N/A	2,698,350,203	0.32	841,295
(May-Dec) 2003	*	N/A	2,549,850,241	0.31	814,027
2002	_	_	—	—	—
2001	_	_	_	_	_
2000	—	_	_	_	_

gUSTL \* Less than 5 accounts Quarterly and YTD returns are not annualized

#### Footnotes

Composite description: The Long US Treasury Index Composite seeks to match the total rate of return of the Barclays Capital Long U.S. Treasury Bond Index each calendar year.

Firm definition: For the purpose of complying with the Global Investment Performance Standards (GIPS®), the firm (SSgA-Global) here is defined as all portfolios managed across the global offices of State Street Global Advisors (SSgA) and SSgA Funds Management, Inc., with the exception of the following:

• Business units which are held out to the market place as distinct business entities – wrap-fee business (Intermediary Business Group (IBG)), the Office of the Fiduciary Advisor (OFA), and Charitable Asset Management (CAM)

· Assets accounted for on a book value basis - global cash and stable value assets.

Compliance statement: SSgA-Global has prepared and presented this report in compliance with the Global Investment Performance Standards (GIPS<sup>®</sup>). The period prior to January 1, 2000 is not in compliance, as not all actual fee paying portfolios are in a composite.

List available: A complete list of the firm's composites and their descriptions is available upon request.

Creation Date: The composite was created on 01-JAN-09.

Benchmark: The benchmark for the composite is the Barclays Capital Long U.S. Treasury Bond Index. The index returns are unmanaged and do not reflect the deduction of any fees or expenses. The index returns reflect all items of income, gain and loss.

Currency: Performance is presented in USD.

Use of Subadvisors: None.

Fees: Returns are expressed gross of management fees. Some members of this composite may accrue administration fees. The standard fee schedule is shown. The results do not reflect the deduction of investment management fees. The client's return will be reduced by the management fee. For example, if an annualized gross return of 10% was achieved over a 5-year period and a management fee of 1% per year was charged and deducted annually, then the resulting total return would be reduced from 61% to 54%.

For commingled funds, management fees are .06% of the first 50,000,000; .05% of the next \$50,000,000; and .04% thereafter. The annual minimum management fee for commingled accounts is \$10,000.For separately managed accounts, management fees are the same as above with a minimum management fee of \$200,000. Management fees may be adjusted based upon specific client requirements.

Derivatives Use: SSgA may use futures and other derivatives from time to time in the management of the Strategy generally as a temporary substitute for cash investments or for hedging purposes and not with the purpose of creating investment leverage.

Calculation methodology: Additional information regarding policies for calculating and reporting returns is available upon request.

Annualized returns: All returns for periods greater than one year have been annualized.

Withholding Taxes Differences: None.

Exchange Rates Differences Between Composite & Benchmark: None.

Minimum Asset Level for Inclusion: None.

**Dispersion:** Asset-Weighted standard deviation is calculated using the annual returns of the accounts that were included in the composite for all periods of the year.

Significant events: None.

#### **Gross Returns**

	Quarter	YTD					Inception Aug 2000
US TIPS Index Composite	1.76	11.37	11.37	6.69	4.63	N/A	7.38
Barclays Capital US TIPS Index	1.76	11.41	11.41	6.69	4.63	N/A	7.34

Year	US TIPS Index Stock Composite	Barclays Capital US TIPS Index
2009	11.37	11.41
2008	-2.31	-2.35
2007	11.62	11.63
2006	0.47	0.41
2005	2.80	2.85
2004	8.38	8.46
2003	8.32	8.40
2002	17.03	16.57
2001	8.34	7.90
(Aug-Dec) 2000	4.69	5.10

Year	No. of Portfolios	Composite Dispersion	Total Assets at End of Period	% of Firm's Assets	Total Firm Assets (\$ mil)
2009	12	0.06	11,740,388,855	0.86	1,362,693
2008	8	0.08	9,144,823,596	0.96	952,729
2007	7	0.09	9,475,120,589	0.81	1,172,455
2006	5	0.06	5,235,572,252	0.52	1,002,253
2005	*	N/A	4,555,714,998	0.49	930,586
2004	*	N/A	2,874,749,550	0.34	841,295
2003	*	N/A	1,421,801,481	0.17	814,027
2002	*	N/A	909,265,957	0.14	632,277
2001	*	N/A	495,433,597	0.06	775,000
(Aug-Dec) 2000	*	N/A	15,155,370	0.00	711,000

gTPCMP \* Less than 5 accounts Quarterly and YTD returns are not annualized

#### **Footnotes**

Composite description: The U.S. TIPS Index Composite seeks to match the total rate of return of the Barclays Capital U.S. TIPS Index during each calendar year.

Firm definition: For the purpose of complying with the Global Investment Performance Standards (GIPS®), the firm (SSgA-Global') here is defined as all portfolios managed across the global offices of State Street Global Advisors (SSgA) and SSgA Funds Management, Inc., with the exception of the following:

• Business units which are held out to the market place as distinct business entities – wrap-fee business (Intermediary Business Group (IBG)), the Office of the Fiduciary Advisor (OFA), and Charitable Asset Management (CAM)

· Assets accounted for on a book value basis - global cash and stable value assets.

Compliance statement: SSgA-Global has prepared and presented this report in compliance with the Global Investment Performance Standards (GIPS®).

The period prior to January 1, 2000 is not in compliance, as not all actual fee paying portfolios are in a composite.

List available: A complete list of the firm's composites and their descriptions is available upon request.

Creation Date: The composite was created on 01-JAN-09.

Benchmark: The benchmark for the composite is the Barclays Capital US TIPS.

The index returns are unmanaged and do not reflect the deduction of any fees or expenses. The index returns reflect all items of income, gain and loss.

Currency: Performance is presented in USD.

Use of Subadvisors: None.

Fees: Returns are expressed gross of management fees. Some members of this composite may accrue administration fees.

The standard fee schedule is shown. The results do not reflect the deduction of investment management fees. The client's return will be reduced by the management fee. For example, if an annualized gross return of 10% was achieved over a 5-year period and a management fee of 1% per year was charged and deducted annually, then the resulting total return would be reduced from 61% to 54%.

For commingled funds, management fees are .06% of the first \$50,000,000; .05% of the next \$50,000,000; and .04% thereafter. The annual minimum management fee for commingled accounts is \$10,000.For separately managed accounts, management fees are the same as above with a minimum of \$200,000. Management fees may be adjusted based upon specific client requirements.

**Derivatives Use:** SSgA may use futures and other derivatives from time to time in the management of the Strategy generally as a temporary substitute for cash investments or for hedging purposes and not with the purpose of creating investment leverage.

Calculation methodology: Additional information regarding policies for calculating and reporting returns is available upon request.

Annualized returns: All returns for periods greater than one year have been annualized.

Withholding Taxes Differences: None.

Exchange Rates Differences Between Composite & Benchmark: None.

Minimum Asset Level for Inclusion: None.

Dispersion: Asset-Weighted standard deviation is calculated using the annual returns of the accounts that were included in the composite for all periods of the year.

Significant events: None.

## **GIPS®** Report: World Government Bond ex US Index Composite

As of December 31, 2009

#### **Gross Returns**

	Quarter	YTD					Inception Nov 1999
World Government Bond ex US Index Comp	-2.25	4.25	4.25	8.41	4.29	6.45	6.18
Citigroup World ex-US Govt. Bond Index	-2.15	4.39	4.39	8.61	4.46	6.60	6.33

Year	World Government Bond ex US Index Comp	Citigroup World ex-US Govt. Bond Index
2009	4.25	4.39
2008	9.78	10.11
2007	11.31	11.45
2006	6.73	6.94
2005	-9.27	-9.21
2004	11.92	12.14
2003	18.43	18.52
2002	21.98	21.99
2001	-3.75	-3.54
2000	-2.69	-2.63

Year	No. of Portfolios	Composite Dispersion	Total Assets at End of Period	% of Firm's Assets	Total Firm Assets (\$ mil)
2009	*	N/A	438,600,684	0.03	1,362,693
2008	*	N/A	370,126,251	0.04	952,729
2007	*	N/A	429,143,967	0.04	1,172,455
2006	*	N/A	354,074,060	0.04	1,002,253
2005	*	N/A	382,754,474	0.04	930,586
2004	*	N/A	257,535,633	0.03	841,295
2003	*	N/A	172,928,348	0.02	814,027
2002	*	N/A	170,357,702	0.03	632,277
2001	*	N/A	159,007,807	0.02	775,000
2000	*	N/A	71,406,438	0.01	711,000

gPWXUS \* Less than 5 accounts Quarterly and YTD returns are not annualized

#### **Footnotes**

Composite description: The World Government Bond ex US Index Composite seeks to match the performance and characteristics of the Citigroup World ex-US Government Bond Index.

Firm definition: For the purpose of complying with the Global Investment Performance Standards (GIPS®), the firm (SSgA-Global') here is defined as all portfolios managed across the global offices of State Street Global Advisors (SSgA) and SSgA Funds Management, Inc., with the exception of the following:

• Business units which are held out to the market place as distinct business entities – wrap-fee business (Intermediary Business Group (IBG)), the Office of the Fiduciary Advisor (OFA), and Charitable Asset Management (CAM)

· Assets accounted for on a book value basis - global cash and stable value assets.

Compliance statement: SSgA-Global has prepared and presented this report in compliance with the Global Investment Performance Standards (GIPS®).

The period prior to January 1, 2000 is not in compliance, as not all actual fee paying portfolios are in a composite. List available: A complete list of the firm's composites and their descriptions is available upon request. Creation Date: The composite was created on 01-JAN-09.

Benchmark: The benchmark for the composite is the Citigroup World ex-US Government Bond Index.

The index returns are unmanaged and do not reflect the deduction of any fees or expenses. The index returns reflect all items of income, gain and loss.

Currency: Performance is presented in USD.

#### Use of Subadvisors: None.

Fees: Returns are expressed gross of management fees. Some members of this composite may accrue administration fees.

The standard fee schedule is shown. The results do not reflect the deduction of investment management fees. The client's return will be reduced by the management fee. For example, if an annualized gross return of 10% was achieved over a 5-year period and a management fee of 1% per year was charged and deducted annually, then the resulting total return would be reduced from 61% to 54%.

For commingled funds, management fees are .07% of the first \$25,000,000; .045% of the next \$75,000,000; and .04% thereafter. The annual minimum management fee for these accounts is \$10,000. For separately managed accounts, management fees are .07% of the first \$25,000,000; .045% of the next \$75,000,000 and .04% thereafter. The minimum annual management fee for separately managed accounts is \$200,000. Management fees maybe adjusted based upon specific client requirements.

**Derivatives Use: SSgA** may use futures, forwards and other derivatives from time to time in the management of the Strategy generally as a temporary substitute for cash investments or for hedging purposes and not with the purpose of creating investment leverage.

Calculation methodology: Additional information regarding policies for calculating and reporting returns is available upon request.

Annualized returns: All returns for periods greater than one year have been annualized.

Withholding Taxes Differences: Composite returns are calculated net of withholding tax on interest income whereas benchmark returns are calculated gross of withholding tax on interest income.

Exchange Rates Differences Between Composite & Benchmark: None.

Minimum Asset Level for Inclusion: None.

**Dispersion:** Asset-Weighted standard deviation is calculated using the annual returns of the accounts that were included in the composite for all periods of the year.

Significant events: None.



# **Appendix B: Important Disclosures**





## Disclaimers

# This material is solely for the private use of SSgA clients and is not intended for public dissemination.

The views expressed in this material are the views of Multi Asset Class Solutions (MACS) through the period ended June 14, 2010 and are subject to change based on market and other conditions. The information provided does not constitute investment advice and it should not be relied on as such. All material has been obtained from sources believed to be reliable, but its accuracy is not guaranteed. This document contains certain statements that may be deemed forward-looking statements. Please note that any such statements are not guarantees of any future performance and actual results or developments may differ materially from those projected Past performance is not a guarantee of future results.

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STATE STREET GLOBAL ADVISORS.

# **Appendix C: Biographies**





# **Biographies**



#### Lynn Blake, CFA

Lynn is a Senior Managing Director of State Street Global Advisors and the Head of Non-US Markets in the Global Structured Products Group. Lynn joined SSgA in 1987, and is currently responsible for overseeing the management of all non-U.S. equity index strategies as well as serving as portfolio manager for several non-US equity index portfolios. In addition, Lynn is a member of the Senior Management Group and the Fiduciary Review Committee.

Lynn holds a Master of Business Administration degree in Finance from Northeastern University and a Bachelor of Science degree from the School of Management at Boston College. She also earned the Chartered Financial Analyst designation. In addition, Lynn is a member of the Boston Security Analysts Society.



#### Eric Brandhorst, CFA

Eric is a Senior Managing Director of State Street Global Advisors and is Director of Research for the Global Structured Products Group. Eric also contributes to investment research for the Multi Asset Class Solutions (MACS) Group and has directed investment strategy for State Street's Office of the Fiduciary Advisor (OFA).

Prior to joining State Street Global Advisors in 1994, Eric was an Asset Allocation Strategist for Wellington Management Company and a Portfolio Manager for quantitative equity and currency strategies at the Travelers Investment Management Company. He has been working in the investment management field since 1988. Eric holds an MBA in Finance from the University of Chicago, an MS in Economics from the London School of Economics, and a BS in Engineering from the University of Vermont. Eric also earned the Chartered Financial Analyst designation.

# **Biographies**



#### Neil J. Tremblay

Neil is a Vice President of State Street Global Advisors and a Senior Relationship Manager in the firm's West Coast office. He is primarily responsible for managing relationships within State Street Global Advisors' existing client base, with a particular focus on corporate and public funds. He was formerly the Director of Sales and Marketing for the Firm's western U.S. corporate, foundation and endowment businesses. Neil joined SSgA in 1996 as a senior sales professional responsible for marketing the firm's defined contribution services. Prior to joining SSgA, Neil was with Wyatt Preferred Choice, Watson Wyatt and Company's benefits outsourcing subsidiary. He also spent four years as an Institutional Trust Officer with First Colonial Bankshares and five years with Merrill Lynch.

Neil holds a BS degree in Finance and a MBA from Marquette University.

SUBJECT:	Absolute Return Rebalance	ACTION:	X
DATE:	December 3, 2010	INFORMATION:	

#### BACKGROUND

In October of 2009, the Alaska Retirement Management Board hired Global Asset Management (GAM) and Prisma Capital (Prisma) to add manager and strategy diversification to the ARMB's absolute return program. The ARMB took subsequent action in December of 2009 to liquidate the Cadogan Management absolute return portfolio. ARMB staff planned on phasing the new managers into the absolute return program first by liquidating the Cadogan portfolio and then by more active portfolio rebalancing to balance manager and strategy risk to a greater degree.

#### **STATUS**

GAM and Prisma's portfolios were funded in January of 2010 and have grown to \$116 million each from portfolio performance and the liquidation proceeds from Cadogan's portfolio. Both new managers have met staff portfolio management expectations and Cadogan's portfolio is now 90% liquidated. At this point, staff recommends rebalancing the absolute return portfolio in the following fashion:

Manager	11/2009 Assets	9/2010 Assets	Proposed Rebalance	Ро	st Rebalance Assets
Cadogan Management	114,740,068	12,364,976			12,364,976
Crestline Investors	224,688,526	232,893,902	(40,000,000)		192,893,902
Global Asset Management		115,646,367	45,000,000		160,646,367
Mariner Investment Group	234,468,084	239,812,220	(50,000,000)		189,812,220
Prisma Capital Partners		116,240,074	45,000,000		161,240,074
Total	\$ 573,896,678	\$ 716,957,539	\$-	\$	716,957,539
% of ARMB Assets	4.1%	4.9%			4.9%

This rebalancing should result in more balanced manager and strategy risk and will likely take one or two quarters to accomplish. Additional rebalancing will be considered in the future.

#### **RECOMMENDATION**

That the Alaska Retirement Management Board direct staff to rebalance the absolute return portfolio as described.

SUBJECT:	Request Authority to Amend Backup	ACTION:	X
	Fixed Income Portfolio Manager	nener.	
DATE:	Contract	INFORMATION:	
	December 2-3, 2010		

#### BACKGROUND:

Staff, located within the Treasury Division of the Department of Revenue, manages a U.S. Treasury fixed income portfolio, a Treasury Inflation Protected Securities (TIPS) portfolio and a residual core domestic fixed income portfolio for the Alaska Retirement Management Board (ARMB). The portfolios are presently approximately \$2.1 billion in size.

In 2006, the ARMB entered into an agreement with State Street Global Advisors (SSGA) whereby SSGA would serve as a back-up portfolio manager for the ARMB's fixed income portfolios in the event that portfolio staff become incapacitated or are otherwise unable to manage the portfolio.

The cost to caretake the domestic fixed income portfolio is a sliding scale and depends upon the total size of the portfolio. The approximate all-in cost to manage the portfolio on a temporary basis would be between five and six basis points based on the current size of the portfolio. This cost is only incurred in the event that the ARMB requests that SSGA take over management of the portfolio.

The original agreement does not specifically name the new U.S. Treasury and TIPS portfolios now managed by staff for the ARMB.

#### STATUS:

Staff has worked with SSGA to craft an amendment to the original agreement. The amendment incorporates the two new portfolios managed by staff.

#### **RECOMMENDATION:**

The ARMB approve an amendment to the original agreement, reflecting the changing fixed income mandates managed by staff.

SUBJECT:	Approval to Engage Mondrian to Alter International Fixed Income Investment Mandate	ACTION:	X
DATE:	December 2-3, 2010	INFORMATION:	

#### **BACKGROUND:**

Mondrian was hired in 1997 to manage a developed markets international fixed income mandate, benchmarked against the Citigroup World Government Bond Index. The firm develops a proprietary prospective real yield for each country, and allocates the portfolio to countries with higher prospective real yields. Mondrian's annualized inception-to-date performance through June 2010 is 7.05%, compared with a benchmark return of 5.68%. Over this time period, Mondrian has outperformed 85% of Callan's international fixed income universe.

Mondrian has employed the same process for managing local currency emerging market bond portfolios since December 31, 2005. As of September 2010, the Mondrian emerging market debt composite has an annualized return of 16.79% since inception, compared to a return of 11.63% for the JP Morgan Government Bond Index-Emerging markets Broad Diversified Index.

#### **STATUS:**

Expanding Mondrian's mandate to include local currency emerging market debt provides the prospect of improved diversification, potentially higher returns and greater manager outperformance resulting from applying the firm's proprietary process over a broader country set. Investing in local currency emerging market debt is likely to increase the volatility of the portfolio performance with potentially lower returns during stressed markets. This is mitigated by the relatively modest allocation of the overall portfolio to the mandate.

#### **STAFF IS REQUESTING:**

(1) to amend the investment management contract with Mondrian Investment Partners, changing the benchmark to a blend of 70% Citigroup World Government Bond Index and 30% JP Morgan Government Bond Index-Emerging markets Broad Diversified Index; (2) to alter the existing constraints on country exposures to be consistent with managing a portfolio to this blended index; and, (3) to negotiate fees consistent with this mandate. In addition, authorize staff to initiate the registration process to allow for direct investment into the necessary set of countries for which the ARMB has not registered and to allow Mondrian to invest in the firm's commingled emerging market debt commingled vehicle until such time as the ARMB is registered in the necessary countries to effect this strategy on a separate account basis.

#### **RECOMMENDATION:**

Approve staff's request.

SUBJECT:	Expansion of Real Estate Committee to Real Assets Committee	ACTION:	<u> </u>
DATE:	December 3, 2010	INFORMATION:	

#### BACKGROUND

The Alaska Retirement Management Board has a standing Real Estate Committee. The responsibilities and duties of the committee, as delineated in its charter, are as follows:

- 1. In consultation with staff, the real estate consultant and other experts, consider and review the strategic annual real estate portfolio plan, and the policies, procedures, and guidelines necessary for implementation of the plan as may from time to time come before it and make appropriate recommendations for action to the Board.
- 2. Review and assess the adequacy of this Charter at least annually and submit recommended changes to it to the Board for approval.
- 3. Periodically perform self-assessment of the Committee's performance.

The Real Estate Committee was established when the Alaska State Pension Investment Board first began investing in real estate. More recently, the board has invested in farmland, timber, TIPs, and energy. Additionally, the Real Assets asset class was created to aggregate all of these formerly separate categories of investment – real estate, farmland, timber, TIPS, and energy. As a result of this evolution, at its September board meeting, trustees asked staff to consider whether the Real Estate Committee should be expanded to capture the entire Real Assets asset class and become the Real Assets Committee.

#### STATUS

Staff believes it would be beneficial to expand the scope of the Real Estate Committee to include all real assets and become the Real Assets Committee. Reviewing all real assets investment strategies at the committee level will permit a review of each strategy within the context of the asset class and an evaluation of the asset class as a whole. Currently, only real estate is reviewed by the committee. The other real assets strategies are reviewed by the Board at various times throughout the year.

If the ARMB desires to create a Real Assets Committee staff will revise the committee charter and associated policies and procedures to reflect the transition of the Real Estate Committee to the Real Assets Committee and incorporate selected recommendations from the recent IFS review. These revisions will be brought to the Board at a meeting this Spring for Board approval.

#### RECOMMENDATION

The Real Estate Committee be renamed the Real Assets Committee and include a review of all investment strategies within the Real Assets asset class.

SUBJECT:	EIG Energy Fund XV	ACTION:	X
DATE:	December 3, 2010	INFORMATION:	

#### BACKGROUND

The Energy & Infrastructure Group (EIG) has been a leading provider of institutional capital to the global energy sector since 1982. In that 28 year period, EIG has invested \$10 billion in 250 energy-related projects around the world. The EIG team consists of 38 experienced investment professionals operating out of Houston, New York, Washington D.C., London, and Sydney. The EIG group spun out of TCW in 2009 and currently manages energy funds in a joint venture with TCW.

The Alaska Retirement Management Board committed \$80 million to TCW Energy Fund X in 2004 and \$100 million to TCW Energy Fund XIV in 2006. These funds are mezzanine debt funds which target negotiated private placement debt investments in mid-sized energy projects secured by hard assets with long useful lives. The target investments have strong current cash flows and meaningful upside potential through equity participation.

#### **STATUS**

The ARMB's investments with EIG have met performance expectations. Through June 30, 2010, Fund X has distributed 110% of paid-in capital and has a net internal rate of return (IRR) of 13.4%. The early results for Fund XIV have also been good -- the fund is generating strong cash income and has a net IRR of 15.4%. Both funds are well diversified and the performance has not been driven by concentrated winning or losing investments. Instead, strong returns have been generated in all industry sectors and geographies.

EIG is in the process of raising Energy Fund XV to pursue the same secured debt energy investment strategy utilized in Funds X and XIV. Staff recommends an investment in EIG Energy Fund XV as an opportunity to continue to enhance the return profile and diversification of the ARMB funds.

#### **RECOMMENDATION**

That the Alaska Retirement Management Board commit \$50 million to EIG Energy Fund XV subject to the satisfactory completion of due diligence and negotiation.

SUBJECT: Modify Investment Guidelines Intermediate US Treasury Portfolio ACTION: X

DATE: December 3, 2010

INFORMATION:

#### **BACKGROUND:**

At its February 2010 meeting the Alaska Retirement Management Board (Board) authorized staff to transition the domestic fixed income portfolio from a Barclays Capital Aggregate Index mandate to one benchmarked against a Barclays Capital intermediate Treasury index. This transition has essentially been completed.

#### STATUS:

The investment guidelines for the intermediate Treasury portfolio limit the proportion of the portfolio that can be invested in non-Treasury securities to under 10% and the proportion that can be invested in securities that are not full faith and credit obligations of the U.S. Government to under 5%.

Staff believes that we can add more value to the portfolio while maintaining a high level of liquidity by relaxing these constraints. For this reason, staff has proposed modifications to the existing guidelines, as indicated in the attached red-line version.

The under-5%-restriction on securities that are not full faith and credit obligations of the U.S. Government has been removed. Cash invested in the Treasury Division's short-term portfolio has been included when evaluating the requirement that more than 90% of the portfolio that must be invested in Treasuries. The requirement that the Treasury securities be coupon-paying has been removed.

#### **RECOMMENDATION:**

That the Board adopt Resolution 2010-19 approving changes to the Intermediate U.S. Treasury Fixed Income Guidelines as indicated in the attached red-line version.

#### State of Alaska ALASKA RETIREMENT MANAGEMENT BOARD Relating to Intermediate U.S. Treasury Fixed Income Guidelines

#### Resolution 2010-19

WHEREAS, the Alaska Retirement Management Board (Board) was established by law to serve as trustee to the assets of the State's retirement systems; and

WHEREAS, under AS 37.10.210-220, the Board is to establish and determine the investment objectives and policy for the funds of the Public Employees' Retirement System, Teachers' Retirement System, Judicial Retirement System, and Alaska National Guard and Naval Militia Retirement System; and

WHEREAS, AS 37.10.071 and AS 37.10.210-220 require the Board to apply the prudent investor rule and exercise the fiduciary duty in the sole financial best interest of the funds entrusted to it and treat beneficiaries thereof with impartiality; and

WHEREAS, the Board contracts an independent consultant to provide experience and expertise in asset allocation and other investment matters to come before the Board; and

WHEREAS, the Board has established an asset allocation for the funds that considers earnings and liabilities on a current as well as a future basis; and

WHEREAS, the Board has authorized investment in fixed income securities; and

WHEREAS, the Board will establish and from time to time as necessary modify guidelines for fixed income securities.

NOW THEREFORE BE IT RESOLVED THAT THE ALASKA RETIREMENT MANAGEMENT BOARD adopts the attached Intermediate U.S. Treasury Fixed Income Guidelines, attached hereto and made a part hereof, regarding investment in domestic fixed income securities.

This resolution repeals and replaces Resolution 2010-3.

DATED at Anchorage, Alaska this \_\_\_\_\_ day of December, 2010.

Chair

ATTEST:

Secretary

#### **INTERMEDIATE U.S. TREASURY INVESTMENT GUIDELINES**

**A. Purpose.** The emphasis of investments in fixed income securities shall be diversification, subject to defined constraints, to minimize risk.

#### B. Barclays Capital U.S. Treasury: Intermediate Index Portfolio.

- **1. Investment Structure.** Permissible U.S. dollar denominated debt investments shall be limited to the following:
  - a. Money market investments comprising:
    - 1. Repurchase agreements collateralized only by U.S. Treasury obligations, including bills, notes, and bonds, and only when the collateral carries a market value equal to or greater than 102% of the amount of the repurchase agreements, and only when the custodial bank appointed by retirement funds will take custody of the collateral; and
    - 2. Commercial paper rated at least Prime-1 by Moody's Investor Services, Inc. and A-1 by Standard and Poor's Corporation; and
    - 3. Negotiable certificates of deposit and bankers acceptances; provided that an issuing bank must have total assets in excess of \$5 billion.
  - b. United States Treasury obligations including bills, notes, bonds, other debt obligations issued by the United States Treasury, and backed by the full faith and credit of the U.S. Government.
  - c. Other full faith and credit obligations of the U.S. Government.
  - d. Securities issued or guaranteed by agencies and instrumentalities of the U.S. Government, but not explicitly backed by the full faith and credit of the U.S. Government.
  - e. Securities issued or guaranteed by municipalities in the United States.
  - f. Obligations of foreign governments, sovereign states, supranational entities, and their instrumentalities denominated

in U.S. dollars.

- g. Investment grade corporate debt securities comprising:
  - 1. Corporate debt issued in the U.S. capital markets by U.S. companies; and
  - 2. Euro-dollar debt (that is, U.S. dollar-denominated securities issued outside the U.S. capital markets by U.S. companies or by foreign issuers); and
  - 3. Yankee debt (that is, U.S. dollar denominated obligations and issued in the U.S. capital markets by foreign issuers).
- h. Asset-backed Securities (ABS).
- i. Agency and non-agency mortgage-backed securities backed by loans secured by residential, multifamily and commercial properties including, but not limited to pass-throughs, collateralized mortgage loans (CMO's), project loans, construction loans and adjustable rate mortgages.
- j. Total return swaps referenced to components or sub-components of fixed income indices. To mitigate interest rate risk, the proceeds may not be invested in securities with a maturity beyond 90 days, unless invested in the Department of Revenue internally-managed Short-Term Fixed Income Pool.
- k. The internally managed short-term or substantially similar portfolio.
- 2. Limitation on Holdings. The manager of the fixed-income portfolio shall apply appropriate diversification standards subject, however, to the following limitations based on the current market value of assets:
  - a. The portfolio's effective duration may not exceed a band of +/-20% around the modified adjusted duration (or effective duration) of the Barclays Capital U.S. Treasury: Intermediate Index, unless the investment agreement with an external manager specifically allows for a different band.
  - b. Investments in fixed-income securities shall be placed solely in U.S. dollar denominated debt instruments.
  - c. The manager may not invest more than 5% of the portfolio in securities that are not full faith and credit obligations of the U.S. Government at the time of purchase.

- d. The manager may not invest more than 10% of the portfolio in securities that are not nominal, coupon paying United States Treasury obligations or the internally managed short-term or substantially similar portfolio at the time of purchase.
- e. Corporate, asset-backed and non-agency mortgage securities must be rated investment grade. The investment grade rating is defined as the median rating of the following three rating agencies: Standard & Poor's Corporation, Moody's and Fitch. Asset-backed and non-agency mortgage securities may be purchased if only rated by one of these agencies if they are rated AAA. Corporate bonds may be purchased if rated by two of these agencies.
- f. The manager may not purchase more than 10% of the currently outstanding par value of any corporate bond issue.
- g. The manager may not invest more than 5% of the portfolio's assets in corporate bonds of any one company or affiliated group.
- **3. Coverage.** The manager will execute trades with dealers that will execute orders promptly at the most favorable prices reasonably attainable.
  - a. **Internally managed assets.** The manager may only execute trades with U.S. Treasury primary dealers; provided that the dealer shall have a minimum of \$200,000,000 in capital. This requirement does not apply to or restrict trades with direct issuers of commercial paper and mortgage-backed securities otherwise eligible for investment under these guidelines. The dealers must be able to execute orders promptly at the most favorable prices reasonably attainable.
  - b. **Externally managed assets.** Internal cross trades are permitted at prevailing market levels, in accordance with Department of Labor's Prohibited Transaction Exemption 95-66.
- 4. **Specific Exclusions on Investments.** The manager shall apply appropriate limitations designed to reduce risk exposure at the time investment securities are purchased, and shall, at a minimum, apply the following limitations:
  - a. There shall be no investment in private placements, except Rule 144A securities.
  - b. The manager shall not sell securities short.
  - c. The manager shall not purchase securities on margin.

- d. The manager shall not utilize options or futures.
- 5. **Required Remedies.** Recognizing that ratings and relative asset worth may change, the manager shall liquidate invested securities with care and prudence when the credit rating of a security falls below the minimum standards set in these guidelines or when the relative market value of that investment type exceeds the levels of holdings permitted in these guidelines. The manager is required to notify the chief investment officer to discuss the situation and the proposed liquidation strategy if it is not prudent simply to liquidate immediately.

#### **INTERMEDIATE U.S. TREASURY INVESTMENT GUIDELINES**

**A. Purpose.** The emphasis of investments in fixed income securities shall be diversification, subject to defined constraints, to minimize risk.

#### B. Barclays Capital U.S. Treasury: Intermediate Index Portfolio.

- **1. Investment Structure.** Permissible U.S. dollar denominated debt investments shall be limited to the following:
  - a. Money market investments comprising:
    - 1. Repurchase agreements collateralized only by U.S. Treasury obligations, including bills, notes, and bonds, and only when the collateral carries a market value equal to or greater than 102% of the amount of the repurchase agreements, and only when the custodial bank appointed by retirement funds will take custody of the collateral; and
    - 2. Commercial paper rated at least Prime-1 by Moody's Investor Services, Inc. and A-1 by Standard and Poor's Corporation; and
    - 3. Negotiable certificates of deposit and bankers acceptances; provided that an issuing bank must have total assets in excess of \$5 billion.
  - b. United States Treasury obligations including bills, notes, bonds, other debt obligations issued by the United States Treasury, and backed by the full faith and credit of the U.S. Government.
  - c. Other full faith and credit obligations of the U.S. Government.
  - d. Securities issued or guaranteed by agencies and instrumentalities of the U.S. Government, but not explicitly backed by the full faith and credit of the U.S. Government.
  - e. Securities issued or guaranteed by municipalities in the United States.
  - f. Obligations of foreign governments, sovereign states, supranational entities, and their instrumentalities denominated in U.S. dollars.
  - g. Investment grade corporate debt securities comprising:

- 1. Corporate debt issued in the U.S. capital markets by U.S. companies; and
- 2. Euro-dollar debt (that is, U.S. dollar-denominated securities issued outside the U.S. capital markets by U.S. companies or by foreign issuers); and
- 3. Yankee debt (that is, U.S. dollar denominated obligations and issued in the U.S. capital markets by foreign issuers).
- h. Asset-backed Securities (ABS).
- i. Agency and non-agency mortgage-backed securities backed by loans secured by residential, multifamily and commercial properties including, but not limited to pass-throughs, collateralized mortgage loans (CMO's), project loans, construction loans and adjustable rate mortgages.
- j. Total return swaps referenced to components or sub-components of fixed income indices. To mitigate interest rate risk, the proceeds may not be invested in securities with a maturity beyond 90 days, unless invested in the Department of Revenue internally-managed Short-Term Fixed Income Pool.
- k. The internally managed short-term or substantially similar portfolio.
- 2. Limitation on Holdings. The manager of the fixed-income portfolio shall apply appropriate diversification standards subject, however, to the following limitations based on the current market value of assets:
  - a. The portfolio's effective duration may not exceed a band of +/-20% around the modified adjusted duration (or effective duration) of the Barclays Capital U.S. Treasury: Intermediate Index, unless the investment agreement with an external manager specifically allows for a different band.
  - b. Investments in fixed-income securities shall be placed solely in U.S. dollar denominated debt instruments.
  - c. The manager may not invest more than 10% of the portfolio in securities that are not nominal United States Treasury obligations or the internally managed short-term or substantially similar portfolio at the time of purchase.
  - d. Corporate, asset-backed and non-agency mortgage securities must be rated investment grade. The investment grade rating is defined as the median rating of the following three rating agencies: Standard & Poor's Corporation, Moody's and Fitch. Asset-backed and non-

agency mortgage securities may be purchased if only rated by one of these agencies if they are rated AAA. Corporate bonds may be purchased if rated by two of these agencies.

- e. The manager may not purchase more than 10% of the currently outstanding par value of any corporate bond issue.
- f. The manager may not invest more than 5% of the portfolio's assets in corporate bonds of any one company or affiliated group.
- **3. Coverage.** The manager will execute trades with dealers that will execute orders promptly at the most favorable prices reasonably attainable.
  - a. **Internally managed assets.** The manager may only execute trades with U.S. Treasury primary dealers; provided that the dealer shall have a minimum of \$200,000,000 in capital. This requirement does not apply to or restrict trades with direct issuers of commercial paper and mortgage-backed securities otherwise eligible for investment under these guidelines. The dealers must be able to execute orders promptly at the most favorable prices reasonably attainable.
  - b. **Externally managed assets.** Internal cross trades are permitted at prevailing market levels, in accordance with Department of Labor's Prohibited Transaction Exemption 95-66.
- 4. **Specific Exclusions on Investments.** The manager shall apply appropriate limitations designed to reduce risk exposure at the time investment securities are purchased, and shall, at a minimum, apply the following limitations:
  - a. There shall be no investment in private placements, except Rule 144A securities.
  - b. The manager shall not sell securities short.
  - c. The manager shall not purchase securities on margin.
  - d. The manager shall not utilize options or futures.
- 5. **Required Remedies.** Recognizing that ratings and relative asset worth may change, the manager shall liquidate invested securities with care and prudence when the credit rating of a security falls below the minimum standards set in these guidelines or when the relative market value of that investment type exceeds the levels of holdings permitted in these guidelines. The manager is required to notify the chief investment officer to discuss the situation and the proposed liquidation strategy if it is not prudent simply to liquidate immediately.

SUBJECT: Recommend Adjustments to Rebalancing Policy and to Delegation of Authority		ACTION:	Х
DATE:	December 3, 2010	INFORMATION:	

#### BACKGROUND:

Each year, the Alaska Retirement Management Board (ARMB) establishes an asset allocation for several pension, and health care-related funds. Resolution 2010-5 establishes the asset allocation for the following funds: Public Employees', Teachers' and Judicial Retirement Systems; Public Employees', Teachers', and Judicial Retirement Health Trust Funds; Retiree Major Health Insurance Fund; Health Reimbursement Arrangement Fund; PERS Peace Officers/Fighters Occupational Death & Disability Fund; and, PERS, TRS, All Other Death & Disability Fund. This allocation currently is:

Asset class Allocation Range	Target	Range	Min.	Max.	
Broad Domestic Equity	29%	± 6%	23%	35%	
Global Equity Ex-U.S	23%	$\pm 4\%$	19%	27%	
Private Equity	7%	± 5%	2%	12%	
Real Assets	16%	$\pm 8\%$	8%	24%	
Absolute Return	5%	± 4%	1%	9%	
Fixed Income	19%	± 3%	16%	22%	
Cash Equivalents	1%	-1%/5%	0%	6%	
Expected Return —5 Year Geometric Mean 8.07%					
Standard Deviation 13.46%					

Resolution 2010-6 establishes the asset allocation for the Alaska National Guard and Naval Militia Retirement Systems. This allocation currently is:

Asset class Allocation Range	Target	Range	Min.	Max.	
Broad Domestic Equity	27%	± 5%	22%	32%	
International Equity	15%	± 5%	10%	20%	
Domestic Fixed Income	57%	$\pm 10\%$	47%	67%	
Cash Equivalents	1%	-1%/+3%	0%	4%	
Expected Return 5 Year Geometric Mean 6.59%					
Standard Deviation 8.02%					

Resolution 2009-1 authorizes the chief investment officer (CIO) to rebalance the asset allocation of the funds if an asset class weighting for a fund falls outside of the allowable band for that asset class. Under these circumstances, the CIO will take steps to rebalance the fund's portfolio to return the asset allocation to within the approved band unless the CIO judges the cost of doing so to exceed the benefit.

Resolution 2006-24 delegates investment authority to the CIO. Included in this delegation is the authority for the CIO to adjust asset allocation within Board approved parameters, subject to the limit that an investment manager's assets under management are not adjusted by more than 25%.

#### STATUS:

Fixed income yields have historically been a good predictor of future fixed income total returns. Global fixed income yields have fallen to very low levels. This impairs the attractiveness of the fixed income asset class for two reasons. First, prospective returns are diminished. Second, the diversification benefit is reduced as the potential for total return in stressed markets is diminished due to the inability for bond yields to fall significantly from current levels.

If one assumes higher returns from fixed income than indicated by their existing yields over an intermediate time horizon, yields have to rise from current levels. This rise in yields will cause capital losses in the ARMB's fixed income portfolio. As a result, yields have to rise by more than the assumed return to overcome these capital losses.

Either yields will remain near existing levels, resulting in modest returns and a relatively limited diversification benefit, or, yields will rise from existing levels impairing bond performance over the near term.

Staff believes it desirable to lower the weighting to fixed income investments at this time. Existing constraints in Resolutions 2009-1 and 2006-24 limit staff's ability to express this view in the portfolio.

#### **STAFF IS REQUESTING:**

(1) Modify Resolution 2009-1 to allow the CIO the discretion to adjust asset allocation tactically, while staying within policy ranges. The recently concluded IFS study of the ARMB's performance consultant and investment policies indicates that this is a practice that some funds allow. (2) Modify Resolution 2006-24 to remove the 25% limit on the CIO's ability to invest or divest from an existing investment manager.

#### **RECOMMENDATIONS:**

That the Board adopt Resolution 2010-20, modifying the existing rebalancing policy and adopt Resolution 2010-21, modifying the authority of the CIO to invest or divest from an existing investment manager.

#### State of Alaska ALASKA RETIREMENT MANAGEMENT BOARD Relating to Rebalancing Policy

#### Resolution 2010-20

WHEREAS the Alaska Retirement Management Board (Board) was established by law to provide prudent and productive management and investment of certain trusts or other State funds; and

WHEREAS the Board shall establish investment policies for the funds for which it is responsible; and

WHEREAS the Board contracts an independent consultant to provide experience and expertise in asset allocation and other investment matters to come before the Board; and

WHEREAS a prudent, diversified portfolio reduces risk and volatility and considers short term and long term earnings requirements for the funds; and

WHEREAS, for each fund for which it is responsible, the Board establishes the asset allocation specified as a long term target asset allocation and an allowable range or band for each asset class; and

WHEREAS the Board continues to review, evaluate and make appropriate adjustments to each fund's asset allocation on a periodic basis; and

WHEREAS a prudent process for investing fund assets includes monitoring each fund's asset allocation and rebalancing each fund's portfolio if necessary; and

WHEREAS AS 37.10.260(a) establishes that the Department of Revenue shall provide staff for the Board; and

WHEREAS the Board has delegated to the Chief Investment Officer of the Department of Revenue certain powers including authority to adjust each fund's asset allocation within Board approved parameters.

NOW THEREFORE, BE IT RESOLVED that the Alaska Retirement Management Board adopts the following rebalancing policy which repeals and replaces Resolution 2009-01:

#### **Rebalancing Policy**

Two situations may give rise to a need to rebalance a fund's portfolio to within Board approved bands: (1) changes in asset class weightings due to relative performance of the various asset classes; and (2) Board approved changes to a fund's asset allocation, for example, due to the introduction of a new asset class or changes to the projected return and volatility characteristics of the various asset classes.

The staff of the Department of Revenue shall be responsible for reviewing the actual asset allocation of each fund on a monthly basis, typically within the first five working days after the end of a month. If an asset class weighting for a fund falls outside the allowable band for that asset class, the Chief Investment Officer (CIO), pursuant to authority delegated by the Board, will take steps within a reasonable period of time to rebalance the fund's portfolio in order to return the actual asset allocation within the approved band unless the CIO judges the cost of rebalancing to exceed the benefit of rebalancing. For example, if the act of rebalancing forces the sale of assets at distressed values the CIO may opt to delay rebalancing until such time as assets can be sold at non-distressed values.

Additionally, the CIO is allowed the discretion to adjust asset class weights subject to the constraint that the weights must lie within the board approved bands.

The CIO will advise the Board at its next regularly scheduled meeting.

The CIO may delegate this responsibility to a senior investment officer should portfolio rebalancing be necessary during the CIO's absence.

DATED at Anchorage, Alaska this \_\_\_\_\_ day of December, 2010.

Chair

ATTEST:

Secretary

#### State of Alaska ALASKA RETIREMENT MANAGEMENT BOARD Relating to Rebalancing Policy

#### Resolution 2010-20

WHEREAS the Alaska Retirement Management Board (Board) was established by law to provide prudent and productive management and investment of certain trusts or other State funds; and

WHEREAS the Board shall establish investment policies for the funds for which it is responsible; and

WHEREAS the Board contracts an independent consultant to provide experience and expertise in asset allocation and other investment matters to come before the Board; and

WHEREAS a prudent, diversified portfolio reduces risk and volatility and considers short term and long term earnings requirements for the funds; and

WHEREAS, for each fund for which it is responsible, the Board establishes the asset allocation specified as a long term target asset allocation and an allowable range or band for each asset class; and

WHEREAS the Board continues to review, evaluate and make appropriate adjustments to each fund's asset allocation on a periodic basis; and

WHEREAS a prudent process for investing fund assets includes monitoring each fund's asset allocation and rebalancing each fund's portfolio if necessary; and

WHEREAS AS 37.10.260(a) establishes that the Department of Revenue shall provide staff for the Board; and

WHEREAS the Board has delegated to the Chief Investment Officer of the Department of Revenue certain powers including authority to adjust each fund's asset allocation within Board approved parameters.

NOW THEREFORE, BE IT RESOLVED that the Alaska Retirement Management Board adopts the following rebalancing policy which repeals and replaces Resolution 2009-01:

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Additionally, the CIO is allowed the discretion to adjust asset class weights subject to the constraint that the weights must lie within the board approved bands.

The CIO will advise the Board at its next regularly scheduled meeting.

The CIO may delegate this responsibility to a senior investment officer should portfolio rebalancing be necessary during the CIO's absence.

DATED at Anchorage, Alaska this \_\_\_\_\_ day of December, 2010.

Chair

ATTEST:

Secretary

#### State of Alaska ALASKA RETIREMENT MANAGEMENT BOARD Relating to Delegation of Authority

#### Resolution 2010-21

WHEREAS AS 37.10.210 established the Alaska Retirement Management Board (Board) to provide prudent and productive management and investment of trusts or other State funds; and

WHEREAS the Board shall establish investment policies for the funds for which it is responsible; and

WHEREAS the Board shall select and retain certain external and internal money managers; and

WHEREAS the Board may contract certain services to carry out its powers and duties; and

WHEREAS AS 37.10.260(a) establishes that the Department of Revenue shall provide staff for the Board; and

WHEREAS AS 37.10.260(b) authorizes the Board of Trustees to be responsible for designating a trustee or an officer or an employee of the Department of Revenue to sign on behalf of the Board any deed, contract, or other document that must be executed by or on behalf of the Board;

NOW THEREFORE BE IT RESOLVED BY THE ALASKA RETIREMENT MANAGEMENT BOARD, as follows: (1) To expedite business between meetings, either the Chairman or the Secretary of the Board is authorized to sign all deeds, contracts or other documents. All documents so signed shall be effective immediately but shall be presented to the Board at the succeeding meeting for Board information. (2) The Board will delegate to the Chief Investment Officer, Gary M. Bader, or his designee, certain powers noted in the attachment entitled "Delegation Investment Authority." (3) This resolution repeals and replaces Resolution 2006-24.

DATED at Anchorage, Alaska this \_\_\_\_\_ day of December, 2010.

Chair

ATTEST:

Secretary

Pursuant to Resolution 2010-21, Gary M. Bader, Chief Investment Officer, is hereby authorized to commit, bind, and obligate the State of Alaska for transactions for all funds under the Alaska Retirement Management Board's management, consistent with actions and directions from the Board. He is not authorized to significantly alter credit quality or duration parameters of any portfolios without prior approval from the Board or its designee.

Mr. Bader is authorized to open an account or accounts with one or more firms or financial institutions for the purpose of engaging in transactions to purchase, sell, assign, or transfer the assets, or to otherwise enter into agreements, contracts, commitments or similar arrangements, including for cash or forward settlement or futures or options contracts relating to the investment of the above funds.

He is authorized to execute those transactions, and in connection therewith to deliver securities and monies, to sign and deliver agreements, contracts, commitments and confirmations and other necessary, desirable or customary documents. Other parties to the transactions may rely and act upon any verbal or written orders and instructions from him in connection with such accounts and transactions.

Mr. Bader is further authorized to delegate the above responsibilities to other individuals. The Board shall be notified at the next meeting as to which individuals have received such delegation.

With respect to security transactions for all funds, including funds other than fixed income portfolio, he is authorized to adjust asset allocation within Board approved parameters, but may not adjust any manager's assets under management by more than 25%. All asset allocation adjustments, with a complete explanation for the action, must be reported to the Board at the next meeting. He will also be required to submit quarterly reports to the Board discussing market conditions, performance, and portfolio conditions.

In Mr. Bader's absence, Mr. Bader may delegate responsibilities to a senior investment officer, who will assume Mr. Bader's delegated investment authority.

#### State of Alaska ALASKA RETIREMENT MANAGEMENT BOARD Relating to Delegation of Authority

#### Resolution 2010-21

WHEREAS AS 37.10.210 established the Alaska Retirement Management Board (Board) to provide prudent and productive management and investment of trusts or other State funds; and

WHEREAS the Board shall establish investment policies for the funds for which it is responsible; and

WHEREAS the Board shall select and retain certain external and internal money managers; and

WHEREAS the Board may contract certain services to carry out its powers and duties; and

WHEREAS AS 37.10.260(a) establishes that the Department of Revenue shall provide staff for the Board; and

WHEREAS AS 37.10.260(b) authorizes the Board of Trustees to be responsible for designating a trustee or an officer or an employee of the Department of Revenue to sign on behalf of the Board any deed, contract, or other document that must be executed by or on behalf of the Board;

NOW THEREFORE BE IT RESOLVED BY THE ALASKA RETIREMENT MANAGEMENT BOARD, as follows: (1) To expedite business between meetings, either the Chairman or the Secretary of the Board is authorized to sign all deeds, contracts or other documents. All documents so signed shall be effective immediately but shall be presented to the Board at the succeeding meeting for Board information. (2) The Board will delegate to the Chief Investment Officer, Gary M. Bader, or his designee, certain powers noted in the attachment entitled "Delegation Investment Authority." (3) This resolution repeals and replaces Resolution 2006-24.

DATED at Anchorage, Alaska this \_\_\_\_\_ day of December, 2010.

Chair

ATTEST:

Secretary

Pursuant to Resolution 2010-21, Gary M. Bader, Chief Investment Officer, is hereby authorized to commit, bind, and obligate the State of Alaska for transactions for all funds under the Alaska Retirement Management Board's management, consistent with actions and directions from the Board. He is not authorized to significantly alter credit quality or duration parameters of any portfolios without prior approval from the Board or its designee.

Mr. Bader is authorized to open an account or accounts with one or more firms or financial institutions for the purpose of engaging in transactions to purchase, sell, assign, or transfer the assets, or to otherwise enter into agreements, contracts, commitments or similar arrangements, including for cash or forward settlement or futures or options contracts relating to the investment of the above funds.

He is authorized to execute those transactions, and in connection therewith to deliver securities and monies, to sign and deliver agreements, contracts, commitments and confirmations and other necessary, desirable or customary documents. Other parties to the transactions may rely and act upon any verbal or written orders and instructions from him in connection with such accounts and transactions.

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With respect to security transactions for all funds, including funds other than fixed income portfolio, he is authorized to adjust asset allocation within Board approved parameters. All asset allocation adjustments, with a complete explanation for the action, must be reported to the Board at the next meeting. He will also be required to submit quarterly reports to the Board discussing market conditions, performance, and portfolio conditions.

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1						
February 10-11	*Review Capital Market Assumptions					
Thursday-Friday	*Manager Presentations					
Juneau	*Actuarial Audit Report					
April 28-29	*Adopt Asset Allocation					
Thursday-Friday	*Performance Measurement - 4 <sup>th</sup> Quarter					
Anchorage	*Buck Consulting Actuary Report					
	*GRS Actuary Certification					
	*Review Private Equity Annual Plan					
	Abbott Capital Management					
	Pathway Capital Management					
	*Manager Presentations					
June 15	Committee Meetings: Audit					
June 16-17	*Final Actuary Report/Adopt Valuation/Contribution Rates					
Thursday-Friday	*Performance Measurement - 1 <sup>st</sup> Quarter					
Anchorage	*Manager Presentations					
September	Committee Meetings: Budget, Real Estate, Salary Review					
September 21	Committee Meetings: Audit					
September 22-23	*Audit Results/Assets - KPMG					
Thursday-Friday	*Approve Budget					
Fairbanks	*Performance Measurement - 2 <sup>nd</sup> Quarter					
	*Real Estate Annual Plan					
	*Real Estate Evaluation - Townsend Group					
	*Manager Presentations					
	Education Conference					
December 1-2	Audit Report					
Thursday-Friday	Performance Measurement - 3 <sup>rd</sup> Quarter					
Anchorage	Manager Review (Questionnaire)					
	Private Equity Review					
	Economic Round Table					
	*Manager Presentations					

#### ALASKA RETIREMENT MANAGEMENT BOARD M E M O R A N D U M

To: ARMB Trustees From: Judy Hall Date: September 9, 2010 Subject: Financial Disclosures

As required by AS 37.10.230 and Alaska Retirement Management Board policy relating to investment conduct and reporting, trustees and staff must disclose certain financial interests. We are hereby submitting to you a list of disclosures for individual transactions made by trustees and staff.

Name	Position Title	Disclosure Type	Disclosure Date
Victor Djajalie	Investment Officer	Equities	10/11/10 11/5/10
Bob Mitchell	Investment Officer	Equities	10/19/10 11/16/10
Nicholas Orr	Investment Officer	Equities	11/4/10