ALASKA RETIREMENT MANAGEMENT BOARD FINANCIAL REPORT

As of August 30, 2019

ALASKA RETIREMENT MANAGEMENT BOARD

Schedule of Investment Income and Changes in Invested Assets by Fund Fiscal Year-to-Date through August 30, 2019

		car-to-Date infough Mugu	,	Ending Image		% Change due
	Beginning Invested Assets	Investment Income (1)	Net Contributions (Withdrawals)	Ending Invested Assets	% Change in Invested Assets	to Investment Income ⁽²⁾
Public Employees' Retirement System (PERS)					III vested Historia	
Defined Benefit Plans:						
Retirement Trust \$	9,465,719,458 \$	3,037,708 \$	65,961,572 \$	9,534,718,738	0.73%	0.03%
Retirement Health Care Trust	7,807,287,545	(32,108)	(55,106,504)	7,752,148,933	-0.71%	0.00%
Total Defined Benefit Plans	17,273,007,003	3,005,600	10,855,068	17,286,867,671	0.08%	0.02%
Defined Contribution Plans:						
Participant Directed Retirement	1,218,753,974	(10,060,764)	14,433,037	1,223,126,247	0.36%	-0.82%
Health Reimbursement Arrangement	419,023,779	(1,326)	6,085,989	425,108,442	1.45%	0.00%
Retiree Medical Plan	117,399,406	1,355	2,393,534	119,794,295	2.04%	0.00%
Defined Benefit Occupational Death and Disability:						
Public Employees	24,859,446	19	443,877	25,303,342	1.79%	0.00%
Police and Firefighters	11,367,334	(128)	189,236	11,556,442	1.66%	0.00%
Total Defined Contribution Plans	1,791,403,939	(10,060,844)	23,545,673	1,804,888,768	0.75%	-0.56%
Total PERS	19,064,410,942	(7,055,244)	34,400,741	19,091,756,439	0.14%	-0.04%
Teachers' Retirement System (TRS)						
Defined Benefit Plans:						
Retirement Trust	5,505,314,103	2,725,992	66,948,706	5,574,988,801	1.27%	0.05%
Retirement Health Care Trust	2,940,744,859	(10,062)	(20,118,055)	2,920,616,742	-0.68%	0.00%
Total Defined Benefit Plans	8,446,058,962	2,715,930	46,830,651	8,495,605,543	0.59%	0.03%
<u>Defined Contribution Plans:</u>						
Participant Directed Retirement	516,072,656	(4,636,805)	1,974,195	513,410,046	-0.52%	-0.90%
Health Reimbursement Arrangement	124,841,136	2,157	1,580,432	126,423,725	1.27%	0.00%
Retiree Medical Plan	41,730,124	(30)	385,828	42,115,922	0.92%	0.00%
Defined Benefit Occupational Death and Disability	4,293,954	(13)	34,805	4,328,746	0.81%	0.00%
Total Defined Contribution Plans	686,937,870	(4,634,691)	3,975,260	686,278,439	-0.10%	-0.67%
Total TRS	9,132,996,832	(1,918,761)	50,805,911	9,181,883,982	0.54%	-0.02%
Judicial Retirement System (JRS)						
Defined Benefit Plan Retirement Trust	183,941,036	97,885	3,610,749	187,649,670	2.02%	0.05%
Defined Benefit Retirement Health Care Trust	33,156,612	(34)	(88,567)	33,068,011	-0.27%	0.00%
Total JRS	217,097,648	97,851	3,522,182	220,717,681	1.67%	0.04%
National Guard/Naval Militia Retirement System (MRS)						
Defined Benefit Plan Retirement Trust	40,994,203	70,639	553,085	41,617,927	1.52%	0.17%
Other Participant Directed Plans						
Supplemental Annuity Plan	4,111,631,106	(1,624,565)	(9,926,125)	4,100,080,416	-0.28%	-0.04%
Deferred Compensation Plan	983,593,517	(557,558)	(3,533,234)	979,502,725	-0.42%	-0.06%
Total All Funds	33,550,724,248	(10,987,638)	75,822,560	33,615,559,170		
Total Non-Participant Directed	26,720,672,995	5,892,054	72,874,687	26,799,439,736	0.29%	0.02%
Total Participant Directed	6,830,051,253	(16,879,692)	2,947,873	6,816,119,434	-0.20%	-0.25%
Total All Funds \$	33,550,724,248	(10,987,638) \$	75,822,560 \$	33,615,559,170	0.19%	-0.03%
NT-4			, ,	, , ,		

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). Actual returns are calculated by Callan and Associates and can be found at: http://www.revenue.state.ak.us/treasury/programs/other/armb/investmentresults.aspx

ALASKA RETIREMENT MANAGEMENT BOARD

Schedule of Investment Income and Changes in Invested Assets by Fund For the Month Ended August 30, 2019

	Beginning Invested Assets	Investment Income (1)	Net Contributions (Withdrawals)	Ending Invested Assets	% Change in Invested Assets	% Change due to Investment Income (2)
Public Employees' Retirement System (PERS)						
Defined Benefit Plans:						
Retirement Trust	\$ 9,602,065,501 \$	(20,605,535) \$	(46,741,228) \$	9,534,718,738	-0.70%	-0.22%
Retirement Health Care Trust	7,798,815,158	(19,458,099)	(27,208,126)	7,752,148,933	-0.60%	-0.25%
Total Defined Benefit Plans	17,400,880,659	(40,063,634)	(73,949,354)	17,286,867,671	-0.66%	-0.23%
Defined Contribution Plans:						
Participant Directed Retirement	1,231,376,469	(15,573,385)	7,323,163	1,223,126,247	-0.67%	-1.26%
Health Reimbursement Arrangement	422,910,078	(1,036,364)	3,234,728	425,108,442	0.52%	-0.24%
Retiree Medical Plan	118,714,159	(288,591)	1,368,727	119,794,295	0.91%	-0.24%
Defined Benefit Occupational Death and Disability:						
Public Employees	25,142,007	(61,326)	222,661	25,303,342	0.64%	-0.24%
Police and Firefighters	11,491,962	(28,152)	92,632	11,556,442	0.56%	-0.24%
Total Defined Contribution Plans	1,809,634,675	(16,987,818)	12,241,911	1,804,888,768	-0.26%	-0.94%
Total PERS	19,210,515,334	(57,051,452)	(61,707,443)	19,091,756,439	-0.62%	-0.30%
Teachers' Retirement System (TRS)						
Defined Benefit Plans:						
Retirement Trust	5,627,253,443	(11,067,599)	(41,197,043)	5,574,988,801	-0.93%	-0.20%
Retirement Health Care Trust	2,938,893,960	(7,325,986)	(10,951,232)	2,920,616,742	-0.62%	-0.25%
Total Defined Benefit Plans	8,566,147,403	(18,393,585)	(52,148,275)	8,495,605,543	-0.82%	-0.22%
Defined Contribution Plans:						
Participant Directed Retirement	521,760,982	(6,905,429)	(1,445,507)	513,410,046	-1.60%	-1.33%
Health Reimbursement Arrangement	126,666,522	(306,208)	63,411	126,423,725	-0.19%	-0.24%
Retiree Medical Plan	42,191,601	(103,121)	27,442	42,115,922	-0.18%	-0.24%
Defined Benefit Occupational Death and Disability	4,339,369	(10,622)	(1)	4,328,746	-0.24%	-0.24%
Total Defined Contribution Plans	694,958,474	(7,325,380)	(1,354,655)	686,278,439	-1.25%	-1.06%
Total TRS	9,261,105,877	(25,718,965)	(53,502,930)	9,181,883,982	-0.86%	-0.28%
Judicial Retirement System (JRS)						
Defined Benefit Plan Retirement Trust	188,706,493	(362,739)	(694,084)	187,649,670	-0.56%	-0.19%
Defined Benefit Retirement Health Care Trust	33,216,798	(82,409)	(66,378)	33,068,011	-0.45%	-0.25%
Total JRS	221,923,291	(445,148)	(760,462)	220,717,681	-0.54%	-0.20%
National Guard/Naval Militia Retirement System (MRS)						
Defined Benefit Plan Retirement Trust	41,809,805	(27,744)	(164,134)	41,617,927	-0.46%	-0.07%
Other Participant Directed Plans				<u> </u>		
Supplemental Annuity Plan	4,126,219,004	(21,625,040)	(4,513,548)	4,100,080,416	-0.63%	-0.52%
			<u> </u>			
Deferred Compensation Plan	989,786,576	(7,979,063)	(2,304,788)	979,502,725	-1.04%	-0.81%
Total All Funds	33,851,359,887	(112,847,412)	(122,953,305)	33,615,559,170		
Total Non-Participant Directed	26,982,216,856	(60,764,495)	(122,012,625)	26,799,439,736	-0.68%	-0.23%
Total Participant Directed	6,869,143,031	(52,082,917)	(940,680)	6,816,119,434	-0.77%	-0.76%
Total All Funds	\$ <u>33,851,359,887</u> \$	(112,847,412) \$	(122,953,305) \$	33,615,559,170	-0.70%	-0.33%

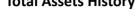
Notes:

⁽¹⁾ Includes interest, dividends, securities lending, expenses, realized and unrealized gains/losses

⁽²⁾ Income divided by beginning assets plus half of net contributions/(withdrawals). Actual returns are calculated by Callan and Associates and can be found at: http://www.revenue.state.ak.us/treasury/programs/programs/other/armb/investmentresults.aspx

Total Non Participant Directed AssetsAs of August 30, 2019

Total Assets History



\$28,000

\$26,000

\$24,000

\$22,000

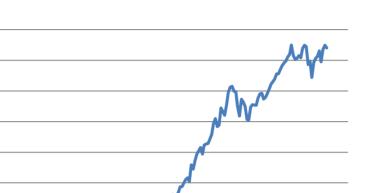
\$16,000

\$14,000

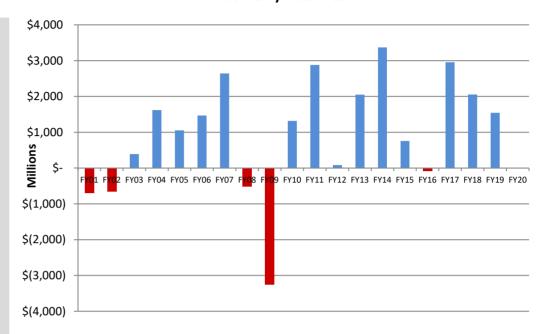
\$12,000

\$10,000

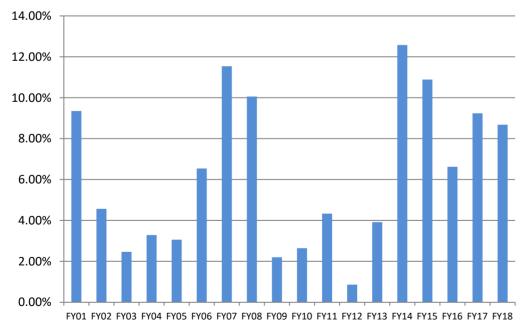
\$20,000 \$18,000



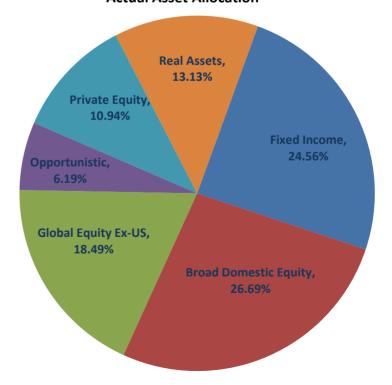
Income by Fiscal Year



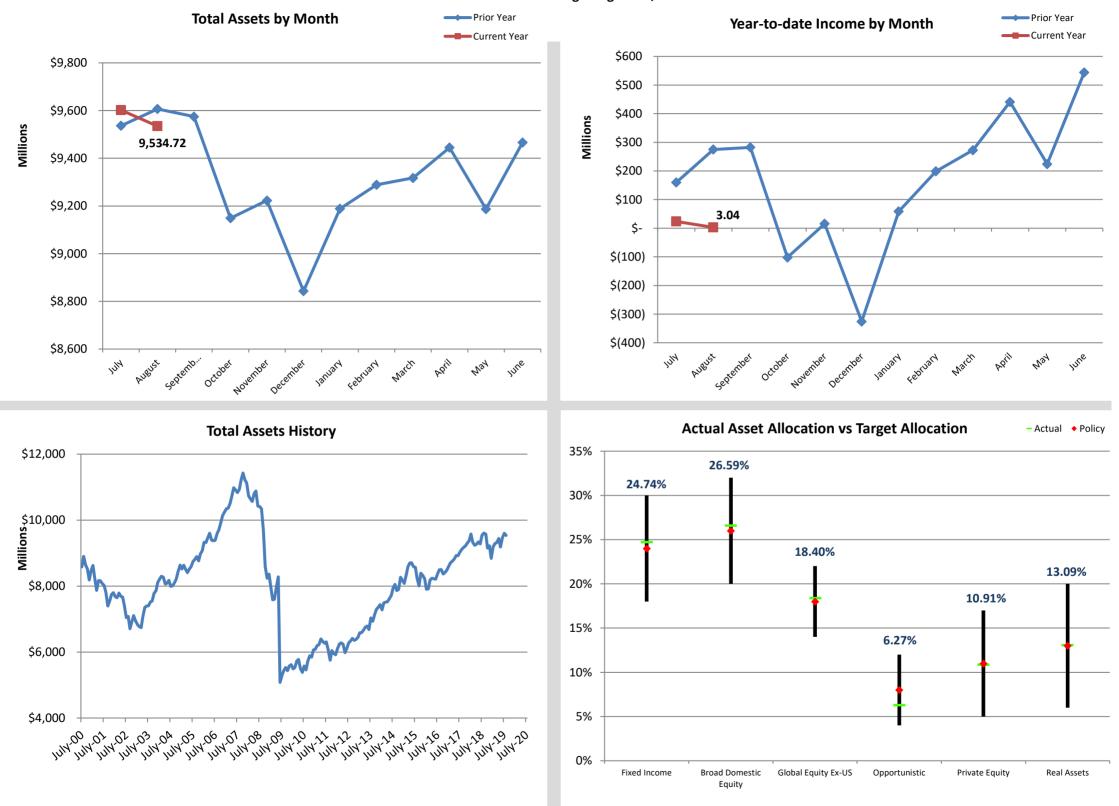




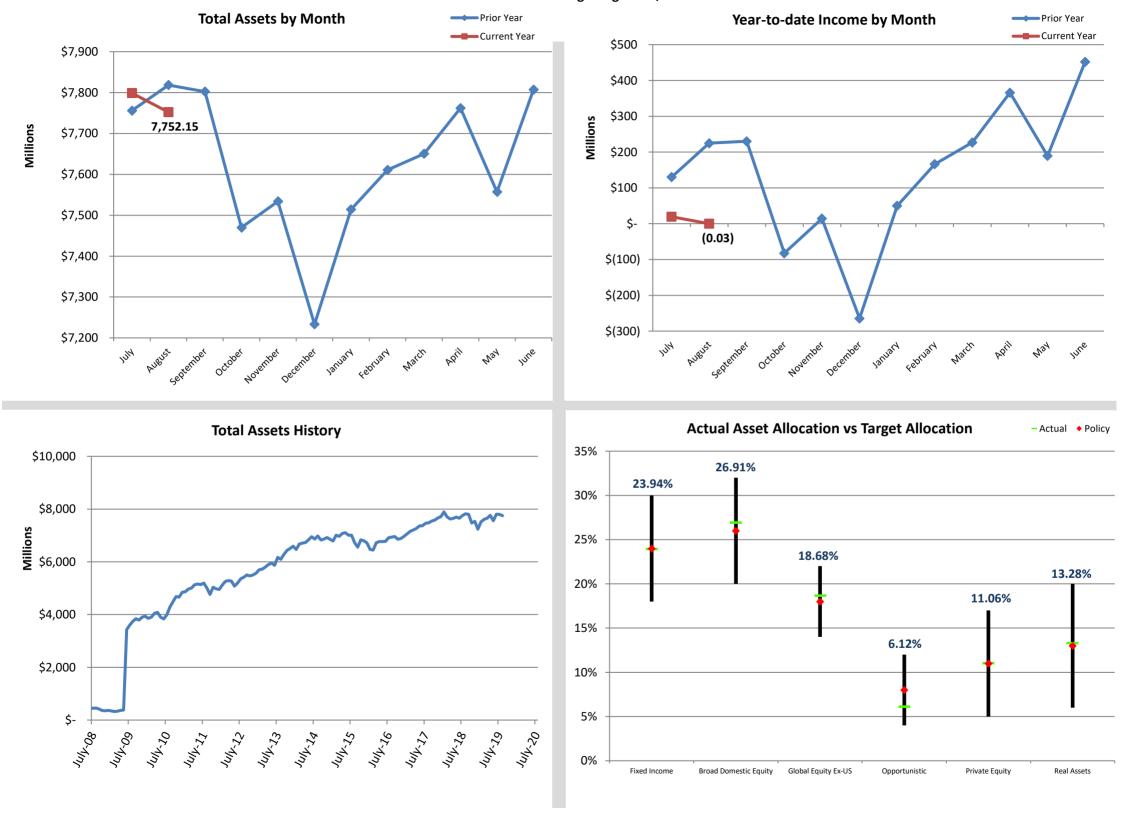
Actual Asset Allocation



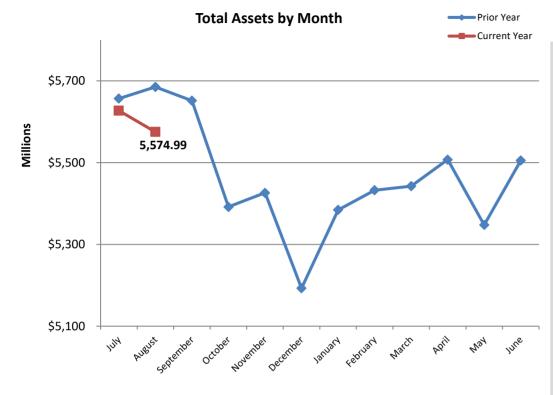
Public Employees' Retirement Pension Trust Fund



Public Employees' Retirement Health Care Trust Fund

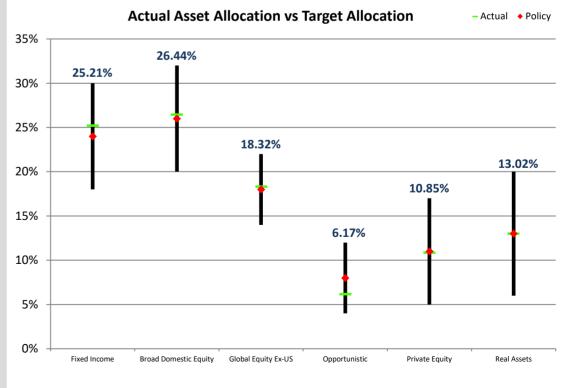


Teachers' Retirement Pension Trust Fund

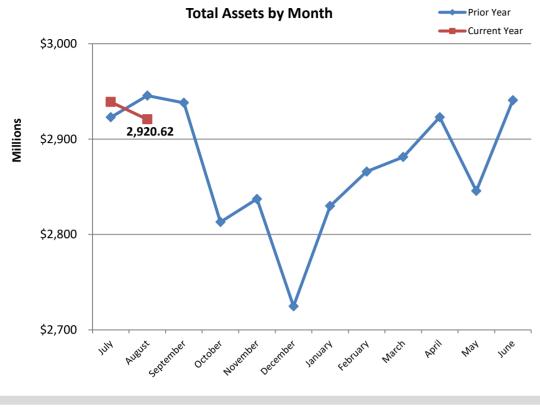


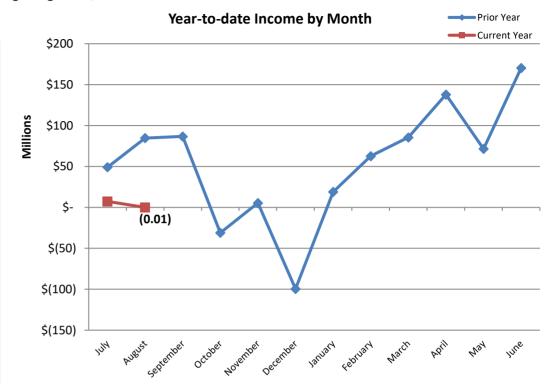


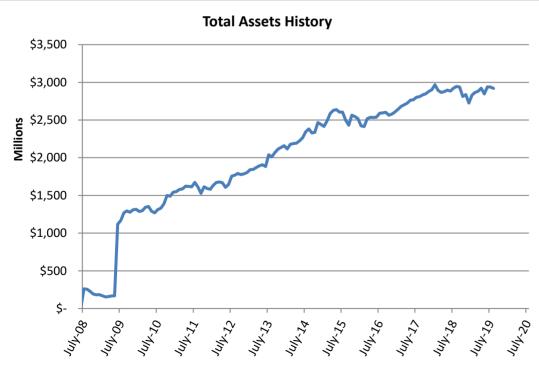


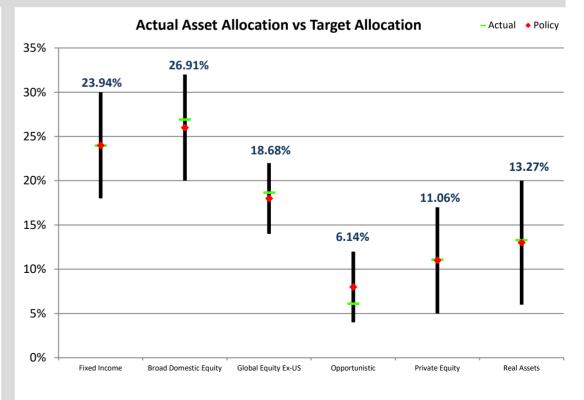


Teachers' Retirement Health Care Trust Fund

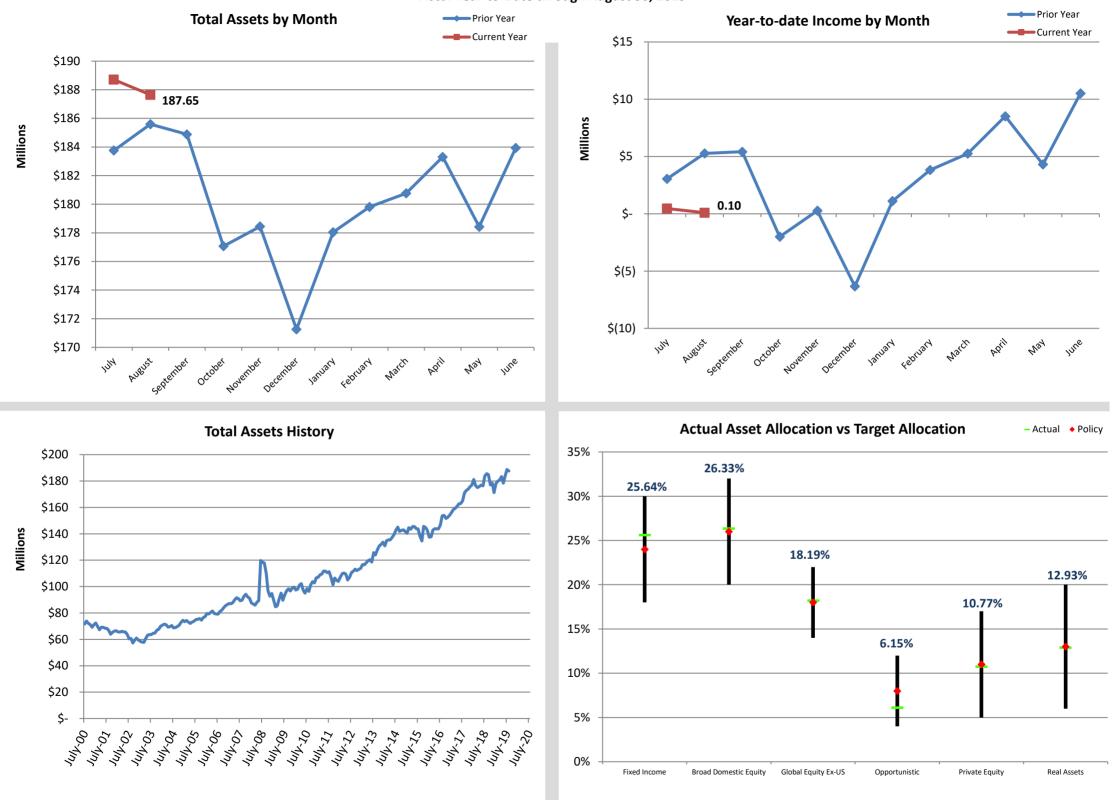




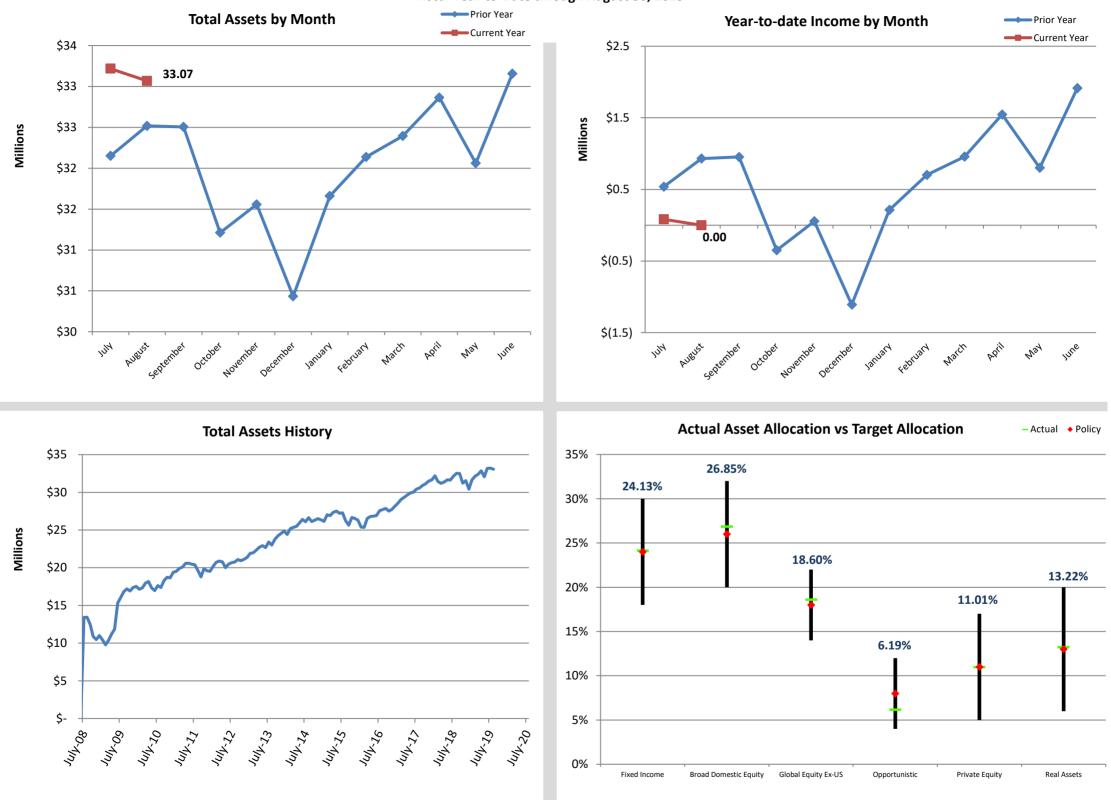




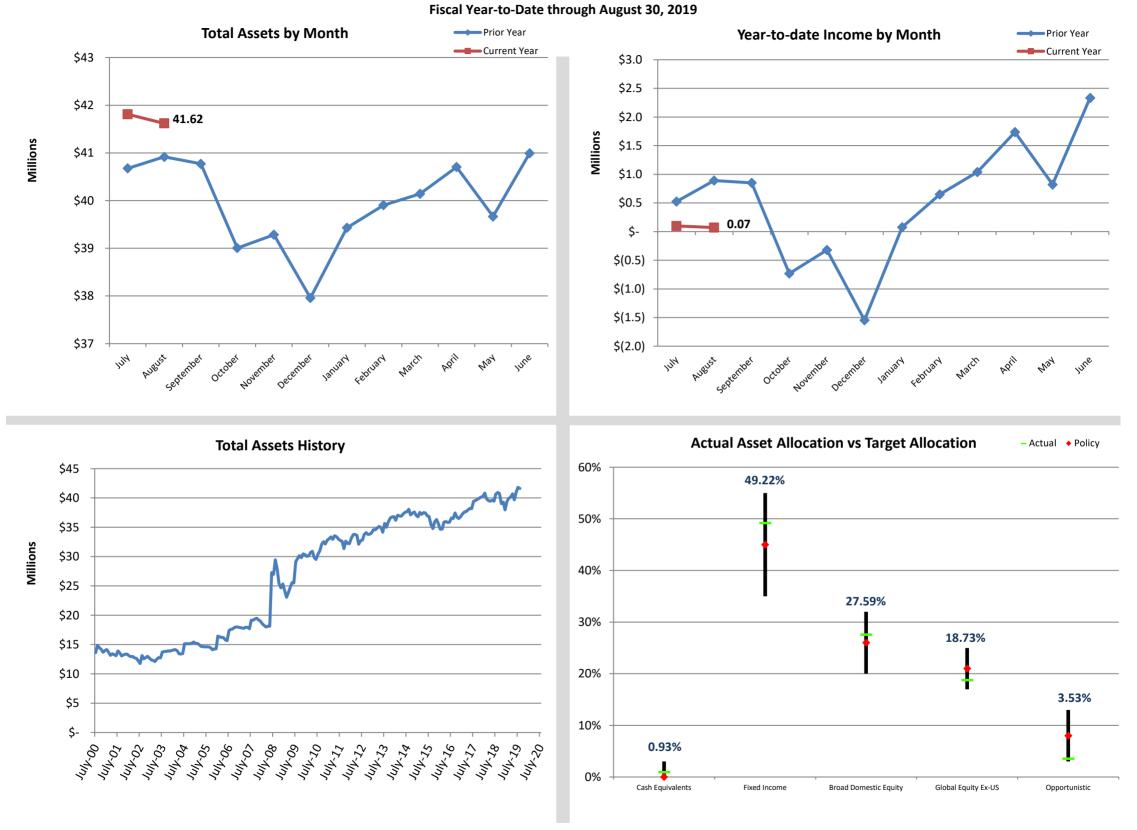
Judicial Retirement Pension Trust Fund



Judicial Retirement Health Care Trust Fund



Military Retirement Trust Fund



ALASKA RETIREMENT MANAGEMENT BOARD

Reporting of Funds by Manager

All Non-Participant Directed Plans

	Beginning Invested Assets	Investment and Income (Withdrawals)		Ending Invested Assets	% increase (decrease)	% Change due to Investment Income	
Cash							
Short-Term Fixed Income Pool	\$ 238,740,422	\$ 576,059	\$ 31,137,182	\$ 270,453,663	13.28%	0.23%	
Securities Lending Income Pool	157,209	56,784	(164,038)	49,955	-68.22%	75.52%	
Total Cash	238,897,631	632,843	30,973,144	270,503,618	13.23%	0.25%	
Fixed Income							
Alternative Fixed Income							
Crestline Investors, Inc.	562,687,062	380,531	(7,791,792)	555,275,801	-1.32%	0.07%	
Prisma Capital Partners	440,867,916	5,115,597	(33,000,000)	412,983,513	-6.32%	1.21%	
Crestline Specialty Fund	29,394,303	-	-	29,394,303	-	-	
Crestline Specialty Lending Fund II	24,907,083	-	-	24,907,083	-	-	
Total Alternative Fixed Income	1,057,856,364	5,496,128	(40,791,792)	1,022,560,700	-3.34%	0.53%	
Opportunistic Fixed Income							
Fidelity Inst. Asset Mgmt. High Yield CMBS	167,760,117	2,443,336	15,000,000	185,203,453	10.40%	1.39%	
Fidelity Institutional Asset Management	352,201,024	5,172,413	184,607	357,558,044	1.52%	1.47%	
MacKay Shields, LLC	5,679,522	235,271	- -	5,914,793	4.14%	4.14%	
Mondrian Investment Partners	473,568	9,106	(413,522)	69,152	-85.40%	3.41%	
Western Asset Management	(1,310)	1,310	-	-	100.00%	100.00%	
Total Opportunistic Fixed Income	526,112,921	7,861,436	14,771,085	548,745,442	4.30%	1.47%	
US Aggregate Bond Index							
Blackrock US Debt Index Non-Lending Fund	13,232,770	343,321	1,428	13,577,519	2.61%	2.59%	
ARMB US Treasury Pool							
ARMB US Treasury Fixed Income	4,705,528,390	71,143,158	(2,654,901,462)	2,121,770,086	-54.91%	2.11%	
ARMB Barclays Agg Bond Fund							
ARMB Barclays Agg Bond Fund		23,250,568	2,582,462,809	2,605,713,377	100.00%	1.80%	
Total Fixed Income	6,302,730,445	108,094,611	(98,457,932)	6,312,367,124	0.15%	1.73%	
Domestic Equities							
Small Cap							
Passively Managed							
ARMB Futures Small Cap	4,012,987	7,151	(4,012,975)	7,163	-99.82%	0.36%	
ARMB S&P 600	559,901,201	(25,907,426)	16,358,414	550,352,189	-1.71%	-4.56%	
SSgA Russell 2000 Growth	6,633	183	(1,135)	5,681	-14.35%	3.02%	
SSgA Russell 2000 Value	8,235	406	(1,263)	7,378	-10.41%	5.34%	
Total Passive	563,929,056	(25,899,686)	12,343,041	550,372,411	-2.40%	-4.54%	

	roi die Midhili i	inucu August 50, 2017				
Actively Managed						
DePrince, Race & Zollo Inc Micro Cap	877,016	41	(877,057)	-	-100.00%	0.01%
Lord Abbett & Co Micro Cap	(176,323)	17,396	158,927	-	-100.00%	17.96%
Transition Account	187,330	(3,186)	(4,770)	179,374	-4.25%	-1.72%
Zebra Capital Management	15,355,795	(11,260)	(15,344,517)	18	-100.00%	-0.15%
Total Active	16,243,818	2,991	(16,067,417)	179,392	-98.90%	0.04%
Total Small Cap	580,172,874	(25,896,695)	(3,724,376)	550,551,803	-5.11%	-4.48%
Large Cap						
Passively Managed						
ARMB Futures Large Cap	4,048,737	7,214	(4,048,708)	7,243	-99.82%	0.36%
ARMB S&P 900	4,199,946,503	(70,028,078)	486,704,327	4,616,622,752	9.92%	-1.58%
ARMB Russell 1000 Value	1,020,353	(91,033)	(934,533)	(5,213)	-100.51%	-16.46%
ARMB Russell Top 200	37,411	(246)	(42,390)	(5,225)	-113.97%	-1.52%
Total Passive	4,205,053,004	(70,112,143)	481,678,696	4,616,619,557	9.79%	-1.58%
Actively Managed						
Allianz Global Investors	9,836	(8)	-	9,828	-0.08%	-0.08%
ARMB Equity Yield	118,475	(21,888)	(91,268)	5,319	-95.51%	-30.05%
ARMB Large Cap Multi-Factor	106,473,421	(2,088,121)	-	104,385,300	-1.96%	-1.96%
ARMB S&P 500 Equal Weight	228,179	(33,363)	(199,697)	(4,881)	-102.14%	-26.00%
ARMB Scientific Beta	1,454,421,660	(15,355,948)	442,280,830	1,881,346,542	29.35%	-0.92%
Barrow, Hanley, Mewhinney & Strauss	16,907	(14)	-	16,893	-0.08%	-0.08%
Lazard Freres	(134,954)	-	131,981	(2,973)	97.80%	-
Portable Alpha	352,095,913	(13,311,024)	(338,927,480)	(142,591)	-100.04%	-7.29%
Transition Account	296,091	(59,514)	(236,202)	375	-99.87%	-33.44%
Total Active	1,913,525,528	(30,869,880)	102,958,164	1,985,613,812	3.77%	-1.57%
Total Large Cap	6,118,578,532	(100,982,023)	584,636,860	6,602,233,369	7.90%	-1.58%
Total Domestic Equity	6,698,751,406	(126,878,718)	580,912,484	7,152,785,172	6.78%	-1.82%
Global Equities Ex US						
Small Cap	4 - 1 - 2 - 2 - 2	(= 0=0 = 1=)	(A = 0.00 0.00)	404 000 000	10.55	
Mondrian Investment Partners	164,090,499	(5,070,242)	(25,000,000)	134,020,257	-18.33%	-3.34%
Schroder Investment Management	161,224,409	(7,549,945)	(25,000,000)	128,674,464	-20.19%	-5.08%
Total Small Cap	325,314,908	(12,620,187)	(50,000,000)	262,694,721	-19.25%	-4.20%

Large Cap						
Allianz Global Investors	131,022	(1,143)	-	129,879	-0.87%	-0.87%
Arrow Street Capital	385,842,721	(11,420,686)	436,219	374,858,254	-2.85%	-2.96%
Baillie Gifford Overseas Limited	390,352,290	(11,044,992)	(49,608,258)	329,699,040	-15.54%	-3.02%
Blackrock ACWI Ex-US IMI	331,377,430	(10,175,125)	127,087	321,329,392	-3.03%	-3.07%
Brandes Investment Partners	723,735,702	(26,176,400)	-	697,559,302	-3.62%	-3.62%
Cap Guardian Trust Co	496,755,285	(6,557,733)	(99,428,498)	390,769,054	-21.34%	-1.47%
Lazard Freres	335,450,255	(10,234,202)	89,644	325,305,697	-3.02%	-3.05%
Legal & General	196,846,296	(3,838,688)	-	193,007,608	-1.95%	-1.95%
McKinley Capital Management	346,334,251	(10,982,680)	(50,000,000)	285,351,571	-17.61%	-3.42%
SSgA MSCI World Ex-US IMI Index Fund	992,875,532	(24,199,612)	-	968,675,920	-2.44%	-2.44%
State Street Global Advisors	3,309,176	3,273	<u>-</u>	3,312,449	0.10%	0.10%
Total Large Cap	4,203,009,960	(114,627,988)	(198,383,806)	3,889,998,166	-7.45%	-2.79%
Emerging Markets Equity						
MSCI Emerging Markets Index Fund	321,373,764	(15,672,936)	-	305,700,828	-4.88%	-4.88%
DePrince, Race, and Zollo Emerging Markets	287,725,493	(18,959,718)	-	268,765,775	-6.59%	-6.59%
Sands Group	-	(3,000)	3,000	-	-	-100.00%
Lazard Asset Management	243,717,337	(14,881,358)		228,835,979	-6.11%	-6.11%
Total Emerging Markets	852,816,594	(49,517,012)	3,000	803,302,582	-5.81%	-5.81%
Total Global Equities	5,381,141,462	(176,765,187)	(248,380,806)	4,955,995,469	-7.90%	-3.36%
Opportunistic						
Alternative Equity Strategy						
Alternative Equity Strategies Transition Account	-	-	-	-	-	-
Analytic Buy Write Account	244,002	26,781	(476,415)	(205,632)	-184.27%	462.18%
ARMB STOXX Minimum Variance	94,470,268	373,641	(94,825,510)	18,399	-99.98%	0.79%
SSgA Managed Volatility-Russell 1000	1,560	-	-	1,560	-	-
McKinley Global Health Care	257,403,611	(7,188,930)	<u>-</u>	250,214,681	-2.79%	-2.79%
Total Alternative Equity Strategy	352,119,441	(6,788,508)	(95,301,925)	250,029,008	-28.99%	-2.23%
Alternative Beta						
JPM Systemic Alpha	169,508,905	2,933,103	-	172,442,008	1.73%	1.73%
Man Group Alternative Risk Premia	329,324,251	1,796,940	-	331,121,191	0.55%	0.55%
Zebra Global Equity Advantage Fund	38,047,678	1,771,505	(37,828,224)	1,990,959	-94.77%	9.26%
Zebra Global Equity Fund	76,604,629	1,462,426	(74,163,702)	3,903,353	-94.90%	3.70%
Total Alternative Beta	613,485,463	7,963,974	(111,991,926)	509,457,511	-16.96%	1.43%
Other Opportunities						
Project Pearl	10,290,795	(284,486)	-	10,006,309	-2.76%	-2.76%
Schroders Insurance Linked Securities	83,359,670	1,167,055	-	84,526,725	1.40%	1.40%
Total Other Opportunities	93,650,465	882,569	-	94,533,034	0.94%	0.94%
				<u> </u>		

Tactical Allocation Strategies						
Fidelity Signals	407,454,875	(724,846)	158,561	406,888,590	-0.14%	-0.18%
PineBridge	408,158,264	(9,853,660)	119,333	398,423,937	-2.38%	-2.41%
Total Tactical Allocation Strategies	815,613,139	(10,578,506)	277,894	805,312,527	-1.26%	-1.30%
Total Opportunistic	1,874,868,508	(8,520,471)	(207,015,957)	1,659,332,080	-11.50%	-0.48%
Private Equity						
Abbott Capital	1,088,706,136	53,685,392	(12,499,453)	1,129,892,075	3.78%	4.96%
Advent International GPE Fund VIII-B	25,078,173	1,484,217	-	26,562,390	5.92%	5.92%
Angelo, Gordon & Co.	3,653	277	_	3,930	7.58%	7.58%
Dyal Capital Partners III	28,270,010	-	400,000	28,670,010	1.41%	-
Dyal Capital Partners IV	1,221,370	-	(554,776)	666,594	-45.42%	-
Glendon Opportunities	41,212,363	1,036,210	-	42,248,573	2.51%	2.51%
KKR Lending Partners II	33,392,476	- -	-	33,392,476	-	_
Lexington Capital Partners VIII	36,221,514	1,111,850	(251,107)	37,082,257	2.38%	3.08%
Lexington Partners VII	18,551,187	761,680	(553,361)	18,759,506	1.12%	4.17%
Merit Capital Partners	13,858,612	524,227	(2,652,782)	11,730,057	-15.36%	4.18%
NB SOF III	27,308,129	-	-	27,308,129	-	-
NB SOF IV	16,335,845	-	-	16,335,845	-	-
New Mountain Partners IV	16,164,856	4,143,496	-	20,308,352	25.63%	25.63%
New Mountain Partners V	22,029,022	483,934	-	22,512,956	2.20%	2.20%
NGP XI	48,063,096	(2,169,558)	(1,485,960)	44,407,578	-7.61%	-4.58%
NGP XII	12,524,422	(189,483)	-	12,334,939	-1.51%	-1.51%
Onex Partnership III	9,476,684	2,592	-	9,479,276	0.03%	0.03%
Pathway Capital Management LLC	1,225,992,735	59,286,083	(11,299,048)	1,273,979,770	3.91%	4.86%
Resolute Fund III	20,376,116	644,387	(534,804)	20,485,699	0.54%	3.20%
Resolute Fund IV	12,113,997	797,697	(84,585)	12,827,109	5.89%	6.61%
Summit Partners GE IX	34,243,525	3,544,346	(4,951,565)	32,836,306	-4.11%	11.16%
Warburg Pincus Global Growth Fund	2,291,329	(171,456)	-	2,119,873	-7.48%	-7.48%
Warburg Pincus X	11,393,877	4,242,018	(636,780)	14,999,115	31.64%	38.30%
Warburg Pincus XI	25,886,997	539,840	(510,000)	25,916,837	0.12%	2.11%
Warburg Pincus XII	59,824,450	2,737,344	3,334,500	65,896,294	10.15%	4.45%
Total Private Equity	2,830,540,574	132,495,093	(32,279,721)	2,930,755,946	3.54%	4.71%
Real Assets						
Farmland						
Hancock Agricultural Investment Group	269,792,674	-	-	269,792,674	-	-
UBS Agrivest, LLC	586,634,062	3,037,751	-	589,671,813	0.52%	0.52%
Total Farmland	856,426,736	3,037,751	-	859,464,487	0.35%	0.35%

Timber						
Hancock Natural Resource Group	99,365,884	-	-	99,365,884	-	-
Timberland Invt Resource LLC	263,570,883	6,918,440	<u>-</u>	270,489,323	2.62%	2.62%
Total Timber	362,936,767	6,918,440		369,855,207	1.91%	1.91%
Energy						
EIG Energy Fund XIV-A	10,084,894	(28,285)	-	10,056,609	-0.28%	-0.28%
EIG Energy Fund XV	22,115,598	111,416	-	22,227,014	0.50%	0.50%
EIG Energy Fund XVI	56,692,264	426,840	-	57,119,104	0.75%	0.75%
Total Energy	88,892,756	509,971		89,402,727	0.57%	0.57%
REIT						
REIT Transition Account	20,994	9,832	(30,524)	302	-98.56%	171.53%
ARMB REIT	94,957,512	3,920,765	-	98,878,277	4.13%	4.13%
Total REIT	94,978,506	3,930,597	(30,524)	98,878,579	4.11%	4.14%
Master Limited Partnerships						
Advisory Research MLP	81,155,887	(3,930,454)	(77,344,615)	(119,182)	-100.15%	-9.25%
Tortoise Capital Advisors	69,513,201	(338,738)	(69,159,165)	15,298	-99.98%	-0.97%
Total Master Limited Partnerships	150,669,088	(4,269,192)	(146,503,780)	(103,884)	-100.07%	-5.51%
Infrastructure Private						
IFM Global Infrastructure Fund-Private	480,543,961	-	-	480,543,961	-	-
JP Morgan Infrastructure Fund-Private	120,492,718	2,644,610	-	123,137,328	2.19%	2.19%
Total Infrastructure Private	601,036,679	2,644,610		603,681,289	0.44%	0.44%
Infrastructure Public						
Brookfield Investment MgmtPublic	155,567	14,473	(156,052)	13,988	-91.01%	18.66%
Lazard Asset MgmtPublic	576,929	40,064	(555,367)	61,626	-89.32%	13.39%
Total Infrastructure Public	732,496	54,537	(711,419)	75,614	-89.68%	14.47%
Real Estate						
Core Commingled Accounts						
BlackRock US Core Property Fund	218,425,000	(2,162,658)	-	216,262,342	-0.99%	-0.99%
JP Morgan	259,374,787	(294,851)	-	259,079,936	-0.11%	-0.11%
UBS Trumbull Property Fund	58,450,042	<u>-</u> _	<u> </u>	58,450,042	-	-
Total Core Commingled	536,249,829	(2,457,509)	-	533,792,320	-0.46%	-0.46%
Core Separate Accounts						
LaSalle Investment Management	127,361,092	(4,989,174)	(383,154)	121,988,764	-4.22%	-3.92%
Sentinel Separate Account	170,967,551	2,344,800	(600,856)	172,711,495	1.02%	1.37%
UBS Realty	533,000,415	757,416	(1,399,438)	532,358,393	-0.12%	0.14%
Total Core Separate	831,329,058	(1,886,958)	(2,383,448)	827,058,652	-0.51%	-0.23%

Non-Core Commingled Accounts						
Almanac Realty Securities V	1,087,610	53,111	-	1,140,721	4.88%	4.88%
Almanac Realty Securities VII	38,055,623	537,551	634,644	39,227,818	3.08%	1.40%
Almanac Realty Securities VIII	2,167,723	(115,634)	-	2,052,089	-5.33%	-5.33%
Clarion Ventures 4	31,764,485	413,657	-	32,178,142	1.30%	1.30%
Colony Investors VIII, L.P.	1,483,767	(110,205)	-	1,373,562	-7.43%	-7.43%
Coventry	241,737	-	-	241,737	-	-
ING Clarion Development Ventures III	2,342,966	284,138	-	2,627,104	12.13%	12.13%
KKR Real Estate Partners Americas II	9,484,773	254,822	1,475,386	11,214,981	18.24%	2.49%
KKR Real Estate Partners Americas L.P.	15,017,907	-	119,774	15,137,681	0.80%	-
Silverpeak Legacy Pension Partners II, L.P.	3,244,233	(379,349)	-	2,864,884	-11.69%	-11.69%
Silverpeak Legacy Pension Partners III, L.P.	4,260,286	8,073	(364,470)	3,903,889	-8.37%	0.20%
Tishman Speyer Real Estate Venture VI	22,336,658	723,144	-	23,059,802	3.24%	3.24%
Tishman Speyer Real Estate Venture VII	547,147	25,779		572,926	4.71%	4.71%
Total Non-Core Commingled	132,034,915	1,695,087	1,865,334	135,595,336	2.70%	1.27%
Total Real Estate	1,499,613,802	(2,649,380)	(518,114)	1,496,446,308	-0.21%	-0.18%
Total Real Assets	3,655,286,830	10,177,334	(147,763,837)	3,517,700,327	-3.76%	0.28%
Total Assets	\$ 26,982,216,856	\$ (60,764,495)	\$ (122,012,625)	\$ 26,799,439,736	-0.68%	-0.23%

ALASKA RETIREMENT MANAGEMENT BOARD

Reporting of Funds by Manager

Participant Directed Plans

Supplemental Annuity Plan Schedule of Investment Income and Changes in Invested Assets for the Month Ended August 30, 2019

			11ugust	200, 2013			0/ (0)	0/ (1 1
		Beginning Invested Assets	Investment Income	Net Contributions (Withdrawals)	Transfers In (Out)	Ending Invested Assets	% Change in Invested Assets	% Change due to Investment Income (1)
Participant Options	=							
T. Rowe Price								
Stable Value Fund	\$	390,930,201 \$	846,333	\$ (2,641,187) \$	10,318,773 \$	399,454,120	2.18%	0.21%
Small Cap Stock Fund		200,645,672	(4,624,999)	134,994	30,977	196,186,644	-2.22%	-2.30%
Alaska Balanced Trust		1,136,112,979	3,709,272	(2,858,913)	(7,000,209)	1,129,963,129	-0.54%	0.33%
Long Term Balanced Fund		684,783,426	(4,478,924)	(662,033)	(3,913,323)	675,729,146	-1.32%	-0.66%
AK Target Date 2010 Trust		10,189,474	(17,149)	(24,106)	(160,705)	9,987,514	-1.98%	-0.17%
AK Target Date 2015 Trust		83,190,480	(313,024)	(372,600)	(554,371)	81,950,485	-1.49%	-0.38%
AK Target Date 2020 Trust		97,904,858	(649,888)	(210,794)	(1,661,301)	95,382,875	-2.58%	-0.67%
AK Target Date 2025 Trust		84,647,115	(781,062)	239,752	348,631	84,454,436	-0.23%	-0.92%
AK Target Date 2030 Trust		66,366,262	(787,987)	327,363	241,128	66,146,766	-0.33%	-1.18%
AK Target Date 2035 Trust		61,812,870	(886,940)	314,017	(388,858)	60,851,089	-1.56%	-1.44%
AK Target Date 2040 Trust		62,428,867	(1,012,896)	189,929	447,792	62,053,692	-0.60%	-1.61%
AK Target Date 2045 Trust		70,964,927	(1,268,482)	525,097	(213,413)	70,008,129	-1.35%	-1.78%
AK Target Date 2050 Trust		80,072,925	(1,426,924)	719,707	(115,627)	79,250,081	-1.03%	-1.78%
AK Target Date 2055 Trust		72,253,155	(1,285,507)	1,395,894	(245,426)	72,118,116	-0.19%	-1.77%
AK Target Date 2060 Trust	_	4,170,948	(71,478)	11,450	78,151	4,189,071	0.43%	-1.70%
Total Investments with T. Rowe Price	_	3,106,474,159	(13,049,655)	(2,911,430)	(2,787,781)	3,087,725,293		
State Street Global Advisors								
Money Market		48,582,569	85,973	(380,638)	3,295,758	51,583,662	6.18%	0.17%
S&P 500 Stock Index Fund Series A		485,855,577	(8,009,516)	(1,152,870)	(18,093,448)	458,599,743	-5.61%	-1.68%
Russell 3000 Index		77,117,808	(1,357,881)	131,138	14,181,298	90,072,363	16.80%	-1.61%
US Real Estate Investment Trust Index		39,340,341	467,888	10,185	(39,818,414)	-	-100.00%	2.41%
World Equity Ex-US Index		70,168,361	(1,893,505)	34,715	1,933,196	70,242,767	0.11%	-2.66%
US Treasury Inflation Protected Securities Index	_	48,875,692	663,319	100,226	(49,639,237)		-100.00%	2.75%
Total Investments with SSgA	-	769,940,348	(10,043,722)	(1,257,244)	(88,140,847)	670,498,535		
BlackRock								
Passive U.S. Bond Index Fund		126,577,517	3,326,706	(139,866)	11,625,589	141,389,946	11.70%	2.51%
Strategic Completion Fund	_	<u>-</u>	618,589	(192,619)	78,328,668	78,754,638	0.00%	1.58%
Total Investments with BlackRock	- -	126,577,517	3,945,295	(332,485)	89,954,257	220,144,584		
Brandes/Baillie Gifford (2)								
AK International Equity Fund		62,923,992	(1,857,415)	(65,768)	(2,916,084)	58,084,725	-7.69%	-3.02%
Northern Trust								
Environmental, Social, and Governance Fund		60,302,988	(619,543)	53,379	3,890,455	63,627,279	5.51%	-0.99%
Total All Funds	\$	4,126,219,004 \$	(21,625,040)	\$ (4,513,548) \$	<u> </u>	4,100,080,416	-0.63%	-0.52%

Notes: Source data provided by the record keeper, Empower Retirement.

⁽¹⁾ Income divided by beginning assets plus half of net contributions/(withdrawals). Actual returns are calculated by Callan and Associates.

⁽²⁾ This investment is comprised of two funds, Brandes International Equity Fund and Baillie Gifford International Equity Fund.

Supplemental Annuity Plan

Schedule of Invested Assets with

Schedule of Investment Income and Changes in Invested Assets

By Month Through the Month Ended

August 30, 2019 \$ (Thousands)

<u>Invested Assets</u> (at fair value)		July		August
Investments with T. Rowe Price		· ·	_	
Stable Value Fund	\$	390,930	\$	399,454
Small Cap Stock Fund		200,646		196,187
Alaska Balanced Trust		1,136,113		1,129,963
Long Term Balanced Fund		684,783		675,729
AK Target Date 2010 Trust		10,189		9,988
AK Target Date 2015 Trust		83,190		81,950
AK Target Date 2020 Trust		97,905		95,383
AK Target Date 2025 Trust		84,647		84,454
AK Target Date 2030 Trust		66,366		66,147
AK Target Date 2035 Trust		61,813		60,851
AK Target Date 2040 Trust		62,429		62,054
AK Target Date 2045 Trust		70,965		70,008
AK Target Date 2050 Trust		80,073		79,250
AK Target Date 2055 Trust		72,253		72,118
AK Target Date 2060 Trust		4,171		4,189
State Street Global Advisors				
Money Market		48,583		51,584
S&P 500 Stock Index Fund Series A		485,856		458,600
Russell 3000 Index		77,118		90,072
US Real Estate Investment Trust Index		39,340		_
World Equity Ex-US Index		70,168		70,243
US Treasury Inflation Protected Securities Index		48,876		-
Investments with BlackRock				
Passive U.S. Bond Index Fund		126,578		141,390
Strategic Completion Fund		-		78,755
Investments with Brandes/Baillie Gifford				
AK International Equity Fund		62,924		58,085
Investments with Northern Trust				
Environmental, Social, and Governance Fund		60,303	_	63,627
Total Invested Assets	\$ _	4,126,219	\$	4,100,080
Change in Invested Assets				
Beginning Assets	\$	4,111,631	\$	4,126,219
Investment Earnings		20,000		(21,625)
Net Contributions (Withdrawals)	_	(5,413)	_	(4,514)
Ending Invested Assets	\$_	4,126,219	\$ _	4,100,080

Deferred Compensation Plan Schedule of Invested Assets and Changes in Invested Assets for the Month Ended August 30, 2019

	Beginning Invested Assets Net Contributions (Withdrawals) Transfers In (Out)		Transfers In (Out)	Ending Invested Assets	% Change in Invested Assets	% Change due to Investment Income (1)			
Participant Options		1155005	-		((((((((((((((((((((1141151015 111 (040)	1100000	110000	meome (1)
T. Rowe Price									
Stable Value Fund	\$	183,473,949	\$	396,358 \$	(891,431) \$	2,963,539 \$	185,942,415	1.35%	0.21%
Small Cap Stock Fund		120,406,018		(2,790,614)	(289,559)	(815,680)	116,510,165	-3.24%	-2.33%
Alaska Balanced Trust		31,506,467		100,023	18,158	(593,602)	31,031,046	-1.51%	0.32%
Long Term Balanced Fund		86,198,463		(561,687)	(530,231)	(346,061)	84,760,484	-1.67%	-0.65%
AK Target Date 2010 Trust		3,977,278		(6,797)	(114,168)	(18,800)	3,837,513	-3.51%	-0.17%
AK Target Date 2015 Trust		9,410,531		(34,623)	(5,512)	(21,293)	9,349,103	-0.65%	-0.37%
AK Target Date 2020 Trust		24,800,931		(160,294)	51,395	(190,953)	24,501,079	-1.21%	-0.65%
AK Target Date 2025 Trust		20,841,391		(192,480)	47,506	(97,010)	20,599,407	-1.16%	-0.92%
AK Target Date 2030 Trust		13,579,945		(168,564)	81,250	(626,461)	12,866,170	-5.26%	-1.27%
AK Target Date 2035 Trust		7,893,144		(108,802)	43,253	204,029	8,031,624	1.75%	-1.36%
AK Target Date 2040 Trust		8,985,183		(143,090)	59,963	97,624	8,999,680	0.16%	-1.58%
AK Target Date 2045 Trust		6,557,097		(116,450)	62,294	(6,777)	6,496,164	-0.93%	-1.77%
AK Target Date 2050 Trust		4,761,559		(84,042)	38,121	10,212	4,725,850	-0.75%	-1.76%
AK Target Date 2055 Trust		4,538,951		(80,470)	37,853	(8,864)	4,487,470	-1.13%	-1.77%
AK Target Date 2060 Trust		892,341		(16,166)	11,726	(43,220)	844,681	-5.34%	-1.84%
Total Investments with T. Rowe Price		527,823,248	-	(3,967,698)	(1,379,382)	506,683	522,982,851		
State Street Global Advisors									
Money Market		15,438,834		27,008	(117,296)	841,273	16,189,819	4.86%	0.17%
Russell 3000 Index		49,810,033		(1,009,846)	(67,980)	(448,620)	48,283,587	-3.06%	-2.04%
US Real Estate Investment Trust Index		14,385,968		171,913	(10,148)	(14,547,733)	-	-100.00%	2.42%
World Equity Ex-US Index		21,943,220		(593,119)	52,832	670,011	22,072,944	0.59%	-2.66%
US Treasury Inflation Protected Securities Index		19,160,622	_	258,555	(7,537)	(19,411,640)		-100.00%	2.74%
Total Investments with SSgA		120,738,677	-	(1,145,489)	(150,129)	(32,896,709)	86,546,350		
BlackRock									
S&P 500 Index Fund		221,136,784		(3,519,926)	(358,692)	(1,676,858)	215,581,308	-2.51%	-1.60%
Strategic Completion Fund		-		238,240	(174,189)	30,176,659	30,240,710	0.00%	1.59%
Passive U.S. Bond Index Fund		62,455,925		1,638,339	(192,573)	3,930,032	67,831,723	8.61%	2.55%
Total Investments with BlackRock		283,592,709	-	(1,643,347)	(725,454)	32,429,833	313,653,741		
Brandes/Baillie Gifford (2)									
AK International Equity Fund		33,579,445		(973,601)	(29,697)	(851,223)	31,724,924	-5.52%	-2.94%
Northern Trust									
Environmental, Social, and Governance Fund		24,052,497		(248,928)	(20,126)	811,416	24,594,859	2.25%	-1.02%
Total All Funds	\$	989,786,576	\$	(7,979,063) \$	(2,304,788) \$	- \$	979,502,725	-1.04%	-0.81%

Notes: Source data provided by the record keeper, Empower Retirement.

⁽¹⁾ Income divided by beginning assets plus half of net contributions/(withdrawals). Actual returns are calculated by Callan and Associates.

⁽²⁾ This investment is comprised of two funds, Brandes International Equity Fund and Baillie Gifford International Equity Fund.

Deferred Compensation Plan

Schedule of Invested Assets with

Schedule of Investment Income and Changes in Invested Assets By Month Through the Month Ended

August 30, 2019

\$ (Thousands)

<u>Invested Assets</u> (at fair value)		July	_	August
Investments with T. Rowe Price				
Stable Value Fund	\$	183,474	\$	185,942
Small Cap Stock Fund		120,406		116,510
Alaska Balanced Trust		31,506		31,031
Long Term Balanced Fund		86,198		84,760
AK Target Date 2010 Trust		3,977		3,838
AK Target Date 2015 Trust		9,411		9,349
AK Target Date 2020 Trust		24,801		24,501
AK Target Date 2025 Trust		20,841		20,599
AK Target Date 2030 Trust		13,580		12,866
AK Target Date 2035 Trust		7,893		8,032
AK Target Date 2040 Trust		8,985		9,000
AK Target Date 2045 Trust		6,557		6,496
AK Target Date 2050 Trust		4,762		4,726
AK Target Date 2055 Trust		4,539		4,487
AK Target Date 2060 Trust		892		845
State Street Global Advisors				
Money Market		15,439		16,190
Russell 3000 Index		49,810		48,284
US Real Estate Investment Trust Index		14,386		-
World Equity Ex-US Index		21,943		22,073
US Treasury Inflation Protected Securities Index		19,161		-
Investments with BlackRock				
S&P 500 Index Fund		221,137		215,581
Strategic Completion Fund		-		30,241
Passive U.S. Bond Index Fund		62,456		67,832
Investments with Brandes/Baillie Gifford				
AK International Equity Fund		33,579		31,725
Investments with Northern Trust				
Environmental, Social, and Governance Fund		24,052		24,595
Total Invested Assets	\$	989,787	\$	979,503
Change in Invested Assets				
Beginning Assets	\$	983,594	\$	989,787
Investment Earnings	·	7,422	•	(7,979)
Net Contributions (Withdrawals)		(1,228)		(2,305)
Ending Invested Assets	\$	989,787	\$	979,503

Defined Contribution Retirement - Participant Directed PERS Schedule of Investment Income and Changes in Invested Assets for the Month Ended August 30, 2019

				rugust		% Change in	% Changa dua			
	Beginning Invested Assets			Net Contributions Investment Income (Withdrawals)		Transfers In (Out)	Ending Invested Assets	Invested Assets	% Change due to Investment Income (1)	
Participant Options	_		-		(, , , , , , , , , , , , , , , , , , ,					
T. Rowe Price										
Stable Value Fund	\$	49,550,085	\$	109,121 \$	(302,354) \$	4,048,008 \$	53,404,860	7.78%	0.21%	
Small Cap Stock Fund		85,587,688		(1,981,197)	102,059	328,515	84,037,065	-1.81%	-2.31%	
Alaska Balanced Trust		25,258,959		61,968	43,596	(3,307,845)	22,056,678	-12.68%	0.26%	
Long Term Balanced Fund		15,569,737		(100,146)	16,358	85,364	15,571,313	0.01%	-0.64%	
AK Target Date 2010 Trust		2,363,583		(3,505)	10,563	36,256	2,406,897	1.83%	-0.15%	
AK Target Date 2015 Trust		12,447,125		(45,164)	70,482	2,480	12,474,923	0.22%	-0.36%	
AK Target Date 2020 Trust		36,312,512		(239,037)	(32,532)	(119,213)	35,921,730	-1.08%	-0.66%	
AK Target Date 2025 Trust		58,997,398		(550,256)	110,188	(279,639)	58,277,691	-1.22%	-0.93%	
AK Target Date 2030 Trust		61,669,339		(740,924)	444,121	(141,393)	61,231,143	-0.71%	-1.20%	
AK Target Date 2035 Trust		74,455,295		(1,063,398)	795,226	(40,605)	74,146,518	-0.41%	-1.42%	
AK Target Date 2040 Trust		88,249,338		(1,438,404)	657,337	534	87,468,805	-0.88%	-1.62%	
AK Target Date 2045 Trust		113,709,640		(2,031,355)	1,090,912	(151,189)	112,618,008	-0.96%	-1.78%	
AK Target Date 2050 Trust		135,191,506		(2,412,721)	1,398,500	(321,904)	133,855,381	-0.99%	-1.78%	
AK Target Date 2055 Trust		123,545,492		(2,205,107)	2,303,879	(459,626)	123,184,638	-0.29%	-1.77%	
AK Target Date 2060 Trust		1,437,113	_	(25,762)	26,287	(1,407)	1,436,231	-0.06%	-1.78%	
Total Investments with T. Rowe Price		884,344,810	_	(12,665,887)	6,734,622	(321,664)	878,091,881			
State Street Global Advisors										
Money Market		11,354,946		20,709	57,195	735,884	12,168,734	7.17%	0.18%	
S&P 500 Stock Index Fund Series A		112,814,575		(2,056,831)	374,359	(17,307,341)	93,824,762	-16.83%	-1.97%	
Russell 3000 Index		13,164,766		(22,777)	54,001	16,473,004	29,668,994	125.37%	-0.11%	
US Real Estate Investment Trust Index		17,236,469		210,417	35,221	(17,482,107)	-	-100.00%	2.47%	
World Equity Ex-US Index		60,410,226		(1,610,408)	138,261	2,703,804	61,641,883	2.04%	-2.60%	
US Treasury Inflation Protected Securities Index		20,051,335		272,361	(4,166)	(20,319,530)	-	-100.00%	2.75%	
Total Investments with SSgA		235,032,317	-	(3,186,529)	654,871	(35,196,286)	197,304,373			
BlackRock										
Passive U.S. Bond Index Fund		52,745,959		1,385,288	(25,324)	4,285,753	58,391,676	10.70%	2.52%	
Strategic Completion Fund		-		239,069	(147,871)	29,968,780	30,059,978	0.00%	1.60%	
Total Investments with BlackRock	_	52,745,959	-	1,624,357	(173,195)	34,254,533	88,451,654			
Draw day/Daillia Cifford (2)			-							
Brandes/Baillie Gifford (2)		20.904.207		(1.100.602)	125 204	(2.925.227)	25 004 402	0.900/	2 120/	
AK International Equity Fund		39,804,207		(1,199,692)	125,304	(2,825,327)	35,904,492	-9.80%	-3.12%	
Northern Trust										
Environmental, Social, and Governance Fund		19,449,176		(145,634)	(18,439)	4,088,744	23,373,847	20.18%	-0.68%	
Total All Funds	\$ _	1,231,376,469	\$	(15,573,385) \$	7,323,163 \$	\$	1,223,126,247	-0.67%	-1.26%	

Notes: Source data provided by the record keeper, Empower Retirement.

⁽¹⁾ Income divided by beginning assets plus half of net contributions/(withdrawals). Actual returns are calculated by Callan and Associates.

⁽²⁾ This investment is comprised of two funds, Brandes International Equity Fund and Baillie Gifford International Equity Fund.

Defined Contribution Retirement - Participant Directed PERS Schedule of Invested Assets with

Schedule of Investment Income and Changes in Invested Assets By Month Through the Month Ended

August 30, 2019 \$ (Thousands)

<u>Invested Assets</u> (at fair value)	_	July	 August
Investments with T. Rowe Price			
Stable Value Fund	\$	49,550	\$ 53,405
Small Cap Stock Fund		85,588	84,037
Alaska Balanced Trust		25,259	22,057
Long Term Balanced Fund		15,570	15,571
AK Target Date 2010 Trust		2,364	2,407
AK Target Date 2015 Trust		12,447	12,475
AK Target Date 2020 Trust		36,313	35,922
AK Target Date 2025 Trust		58,997	58,278
AK Target Date 2030 Trust		61,669	61,231
AK Target Date 2035 Trust		74,455	74,147
AK Target Date 2040 Trust		88,249	87,469
AK Target Date 2045 Trust		113,710	112,618
AK Target Date 2050 Trust		135,192	133,855
AK Target Date 2055 Trust		123,545	123,185
AK Target Date 2060 Trust		1,437	1,436
State Street Global Advisors			
Money Market		11,355	12,169
S&P 500 Stock Index Fund Series A		112,815	93,825
Russell 3000 Index		13,165	29,669
US Real Estate Investment Trust Index		17,236	-
World Equity Ex-US Index		60,410	61,642
US Treasury Inflation Protected Securities Index		20,051	-
Investments with BlackRock			
Passive U.S. Bond Index Fund		52,746	58,392
Strategic Completion Fund		-	30,060
Investments with Brandes/Baillie Gifford			
AK International Equity Fund		39,804	35,904
Investments with Northern Trust			
Environmental, Social, and Governance Fund		19,449	23,374
Total Invested Assets	\$	1,231,376	\$ 1,223,126
Change in Invested Assets			
Beginning Assets	\$	1,218,754	\$ 1,231,376
Investment Earnings		5,513	(15,573)
Net Contributions (Withdrawals)	_	7,110	 7,323
Ending Invested Assets	\$ _	1,231,376	\$ 1,223,126

Defined Contribution Retirement - Participant Directed TRS Schedule of Investment Income and Changes in Invested Assets for the Month Ended August 30, 2019

	Beginning Invested Assets		Investment Income		Net Contributions (Withdrawals)	Transfers In (Out)	Ending Invested Assets	% Change in Invested Assets	% Change due to Investment Income (1)	
Participant Options		1155005			(**************************************			110000	(1)	
T. Rowe Price										
Stable Value Fund	\$	20,539,591	\$	45,221 \$	(47,982)	\$ 1,533,633	\$ 22,070,463	7.45%	0.21%	
Small Cap Stock Fund		36,368,144		(841,383)	(104,849)	166,877	35,588,789	-2.14%	-2.31%	
Alaska Balanced Trust		10,691,660		25,456	(16,393)	(1,499,133)	9,201,590	-13.94%	0.26%	
Long Term Balanced Fund		6,573,869		(43,348)	(7,138)	(45,482)	6,477,901	-1.46%	-0.66%	
AK Target Date 2010 Trust		860,101		(1,348)	(70)	-	858,683	-0.16%	-0.16%	
AK Target Date 2015 Trust		3,718,328		(13,575)	(3,023)	-	3,701,730	-0.45%	-0.37%	
AK Target Date 2020 Trust		10,624,738		(69,853)	(187,361)	-	10,367,524	-2.42%	-0.66%	
AK Target Date 2025 Trust		19,683,860		(188,155)	(157,420)	(217,580)	19,120,705	-2.86%	-0.97%	
AK Target Date 2030 Trust		23,080,542		(276,839)	30,399	(2,000)	22,832,102	-1.08%	-1.20%	
AK Target Date 2035 Trust		34,191,739		(492,398)	21,664	(115,779)	33,605,226	-1.72%	-1.44%	
AK Target Date 2040 Trust		37,135,898		(610,345)	(163,859)	(118,049)	36,243,645	-2.40%	-1.65%	
AK Target Date 2045 Trust		55,300,041		(988,706)	(169,577)	(55,548)	54,086,210	-2.19%	-1.79%	
AK Target Date 2050 Trust		77,799,149		(1,391,469)	(110,926)	-	76,296,754	-1.93%	-1.79%	
AK Target Date 2055 Trust		42,579,221		(763,203)	(141,901)	(6,407)	41,667,710	-2.14%	-1.80%	
AK Target Date 2060 Trust		523,925		(9,346)	50	6,406	521,035	-0.55%	-1.77%	
Total Investments with T. Rowe Price		379,670,806	-	(5,619,291)	(1,058,386)	(353,062)	372,640,067			
State Street Global Advisors										
Money Market		3,143,746		5,664	(4,278)	194,985	3,340,117	6.25%	0.17%	
S&P 500 Stock Index Fund Series A		45,559,091		(837,705)	(152,221)	(7,180,185)	37,388,980	-17.93%	-2.00%	
Russell 3000 Index		4,568,513		12,595	(31,106)	7,030,649	11,580,651	153.49%	0.16%	
US Real Estate Investment Trust Index		7,072,199		86,609	(2,022)	(7,156,786)	-	-100.00%	2.48%	
World Equity Ex-US Index		27,202,719		(725,308)	(35,147)	1,208,177	27,650,441	1.65%	-2.61%	
US Treasury Inflation Protected Securities Index		7,448,758		101,016	(4,323)	(7,545,451)		-100.00%	2.75%	
Total Investments with SSgA		94,995,026		(1,357,129)	(229,097)	(13,448,611)	79,960,189			
BlackRock										
Passive U.S. Bond Index Fund		21,450,748		561,711	(47,663)	1,551,788	23,516,584	9.63%	2.53%	
Strategic Completion Fund		-		93,794	(28,557)	11,778,711	11,843,948	0.00%	1.60%	
Total Investments with BlackRock		21,450,748		655,505	(76,220)	13,330,499	35,360,532			
Brandes/Baillie Gifford (2) AK International Equity Fund		17,368,154		(522,467)	(73,529.00)	(1,228,552)	15,543,606	-10.51%	-3.13%	
Northern Trust										
Environmental, Social, and Governance Fund		8,276,248		(62,047)	(8,275.00)	1,699,726	9,905,652	19.69%	-0.68%	
Total All Funds	\$	521,760,982	\$	(6,905,429) \$	(1,445,507)	\$	\$ 513,410,046	-1.60%	-1.33%	

Notes: Source data provided by the record keeper, Empower Retirement.

⁽¹⁾ Income divided by beginning assets plus half of net contributions/(withdrawals). Actual returns are calculated by Callan and Associates.
(2) This investment is comprised of two funds, Brandes International Equity Fund and Baillie Gifford International Equity Fund.

Defined Contribution Retirement - Participant Directed TRS Schedule of Invested Assets with

Schedule of Investment Income and Changes in Invested Assets By Month Through the Month Ended

August 30, 2019 \$ (Thousands)

<u>Invested Assets</u> (at fair value)	July	 August
Investments with T. Rowe Price		
Stable Value Fund	\$ 20,540	\$ 22,070
Small Cap Stock Fund	36,368	35,589
Alaska Balanced Trust	10,692	9,202
Long Term Balanced Fund	6,574	6,478
AK Target Date 2010 Trust	860	859
AK Target Date 2015 Trust	3,718	3,702
AK Target Date 2020 Trust	10,625	10,368
AK Target Date 2025 Trust	19,684	19,121
AK Target Date 2030 Trust	23,081	22,832
AK Target Date 2035 Trust	34,192	33,605
AK Target Date 2040 Trust	37,136	36,244
AK Target Date 2045 Trust	55,300	54,086
AK Target Date 2050 Trust	77,799	76,297
AK Target Date 2055 Trust	42,579	41,668
AK Target Date 2060 Trust	524	521
State Street Global Advisors		
Money Market	3,144	3,340
S&P 500 Stock Index Fund Series A	45,559	37,389
Russell 3000 Index	4,569	11,581
US Real Estate Investment Trust Index	7,072	-
World Equity Ex-US Index	27,203	27,650
US Treasury Inflation Protected Securities Index	7,449	-
Investments with BlackRock		
Passive U.S. Bond Index Fund	21,451	23,517
Strategic Completion Fund	-	11,844
Investments with Brandes/Baillie Gifford□		
AK International Equity Fund	17,368	15,544
Investments with Northern Trust		
Environmental, Social, and Governance Fund	8,276	9,906
Total Invested Assets	\$ 521,761	\$ 513,410
Change in Invested Assets		
Beginning Assets	\$ 516,073	\$ 521,761
Investment Earnings	2,269	(6,905)
Net Contributions (Withdrawals)	3,420	 (1,446)
Ending Invested Assets	\$ 521,761	\$ 513,410