ALASKA RETIREMENT MANAGEMENT BOARD FINANCIAL REPORT

As of November 30, 2018

ALASKA RETIREMENT MANAGEMENT BOARD Schedule of Investment Income and Changes in Invested Assets by Fund Fiscal Year-to-Date through November 30, 2018

	Beginning Invested Assets	Investment Income ⁽¹⁾	Net Contributions (Withdrawals)	Ending Invested Assets	% Change in	% Change due to Investment Income ⁽²⁾
Public Employees' Retirement System (PERS)	A55C15			A55015	Invested Assets	Income
Defined Benefit Plans:						
Retirement Trust	9,279,978,252 \$	15,685,831 \$	(72,760,009) \$	9,222,904,074	-0.62%	0.17%
Retirement Health Care Trust	7,653,992,293	14,292,485	(134,293,882)	7,533,990,896	-1.57%	0.19%
Total Defined Benefit Plans	16,933,970,545	29,978,316	(207,053,891)	16,756,894,970	-1.05%	0.18%
Defined Contribution Plans:						
Participant Directed Retirement	1,041,422,342	(10,357,893)	37,984,041	1,069,048,491	2.65%	-0.98%
Health Reimbursement Arrangement	356,026,985	467,902	16,204,020	372,698,907	4.68%	0.13%
Retiree Medical Plan	99,169,627	127,593	4,576,466	103,873,686	4.74%	0.13%
Defined Benefit Occupational Death and Disability:		,	, ,	, ,		
Public Employees	20,872,152	27,158	966,318	21,865,628	4.76%	0.13%
Police and Firefighters	9,776,610	13,027	371,569	10,161,206	3.93%	0.13%
Total Defined Contribution Plans	1,527,267,716	(9,722,213)	60,102,414	1,577,647,918	3.30%	-0.62%
Total PERS	18,461,238,261	20,256,103	(146,951,477)	18,334,542,888	-0.69%	0.11%
Teachers' Retirement System (TRS)						
Defined Benefit Plans:						
Retirement Trust	5,466,056,988	9,547,558	(49,369,305)	5,426,235,241	-0.73%	0.18%
Retirement Health Care Trust	2,883,838,182	5,437,027	(52,031,765)	2,837,243,444	-1.62%	0.19%
Total Defined Benefit Plans	8,349,895,170	14,984,585	(101,401,070)	8,263,478,685	-1.03%	0.18%
Defined Contribution Plans:						
Participant Directed Retirement	442,323,051	(4,316,711)	8,415,225	446,421,565	0.93%	-0.97%
Health Reimbursement Arrangement	105,665,716	166,873	3,455,556	109,288,145	3.43%	0.16%
Retiree Medical Plan	36,357,065	58,490	922,472	37,338,027	2.70%	0.16%
Defined Benefit Occupational Death and Disability	3,797,783	6,546	55,052	3,859,381	1.62%	0.17%
Total Defined Contribution Plans	588,143,615	(4,084,802)	12,848,305	596,907,118	1.49%	-0.69%
Total TRS	8,938,038,785	10,899,783	(88,552,765)	8,860,385,803	-0.87%	0.12%
<u>Judicial Retirement System (JRS)</u>						
Defined Benefit Plan Retirement Trust	176,358,294	269,647	1,816,311	178,444,252	1.18%	0.15%
Defined Benefit Retirement Health Care Trust	31,621,813	54,875	(119,101)	31,557,587	-0.20%	0.17%
Total JRS	207,980,107	324,522	1,697,210	210,001,839	0.97%	0.16%
<u>National Guard/Naval Militia Retirement System (MRS)</u>						
Defined Benefit Plan Retirement Trust	39,449,053	(319,787)	155,681	39,284,947	-0.42%	-0.81%
Other Participant Directed Plans						
Supplemental Annuity Plan	3,905,659,481	(4,326,207)	(16,370,297)	3,884,962,976	-0.53%	-0.11%
Deferred Compensation Plan	938,806,799	1,424,800	(8,363,227)	931,868,372	-0.74%	0.15%
Total All Funds	32,491,172,486	28,259,214	(258,384,875)	32,261,046,825		
Total Non-Participant Directed	26,162,960,813	45,835,225	(280,050,617)	25,928,745,421	-0.90%	0.18%
Total Participant Directed	6,328,211,673	(17,576,011)	21,665,742	6,332,301,404	0.06%	-0.28%
Total All Funds	32,491,172,486 \$		(258,384,875) \$	32,261,046,825	-0.71%	0.09%
Notes:			(- ,,,	··· _ / v	···· / •

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: <u>http://www.revenue.state.ak.us/treasury/programs/other/armb/investmentresults.aspx</u>

ALASKA RETIREMENT MANAGEMENT BOARD Schedule of Investment Income and Changes in Invested Assets by Fund For the Month Ended November 30, 2018

	Beginning Invested Assets	Investment Income	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	\$ 9,148,988,585 \$	117,679,016 \$	(43,763,527) \$	9,222,904,074	0.81%	1.29%
Retirement Health Care Trust	7,470,026,512	96,741,174	(32,776,790)	7,533,990,896	0.86%	1.30%
Total Defined Benefit Plans	16,619,015,097	214,420,190	(76,540,317)	16,756,894,970	0.83%	1.29%
Defined Contribution Plans:						
Participant Directed Retirement	1,044,943,250	15,087,012	9,018,229	1,069,048,491	2.31%	1.44%
Health Reimbursement Arrangement	364,590,698	4,716,319	3,391,890	372,698,907	2.22%	1.29%
Retiree Medical Plan	101,661,923	1,315,185	896,578	103,873,686	2.18%	1.29%
Defined Benefit Occupational Death and Disability:						
Public Employees	21,374,024	276,626	214,978	21,865,628	2.30%	1.29%
Police and Firefighters	9,962,251	128,971	69,984	10,161,206	2.00%	1.29%
Total Defined Contribution Plans	1,542,532,146	21,524,113	13,591,659	1,577,647,918	2.28%	1.39%
Total PERS	18,161,547,243	235,944,303	(62,948,658)	18,334,542,888	0.95%	1.30%
<u>Teachers' Retirement System (TRS)</u>						
Defined Benefit Plans:						
Retirement Trust	5,391,775,677	69,315,467	(34,855,903)	5,426,235,241	0.64%	1.29%
Retirement Health Care Trust	2,813,119,956	36,420,626	(12,297,138)	2,837,243,444	0.86%	1.30%
Total Defined Benefit Plans	8,204,895,633	105,736,093	(47,153,041)	8,263,478,685	0.71%	1.29%
Defined Contribution Plans:						
Participant Directed Retirement	437,483,046	6,395,379	2,543,140	446,421,565	2.04%	1.46%
Health Reimbursement Arrangement	106,964,873	1,380,351	942,921	109,288,145	2.17%	1.28%
Retiree Medical Plan	36,624,123	472,951	240,953	37,338,027	1.95%	1.29%
Defined Benefit Occupational Death and Disability	3,787,746	48,931	22,704	3,859,381	1.89%	1.29%
Total Defined Contribution Plans	584,859,788	8,297,612	3,749,718	596,907,118	2.06%	1.41%
Total TRS	8,789,755,421	114,033,705	(43,403,323)	8,860,385,803	0.80%	1.30%
Judicial Retirement System (JRS)						
Defined Benefit Plan Retirement Trust	177,065,830	2,273,975	(895,553)	178,444,252	0.78%	1.29%
Defined Benefit Retirement Health Care Trust	31,211,211	403,821	(57,445)	31,557,587	1.11%	1.30%
Total JRS	208,277,041	2,677,796	(952,998)	210,001,839	0.83%	1.29%
National Guard/Naval Militia Retirement System (MRS)						
Defined Benefit Plan Retirement Trust	39,006,010	411,269	(132,332)	39,284,947	0.72%	1.06%
Other Participant Directed Plans						
Supplemental Annuity Plan	3,842,792,414	46,201,622	(4,031,060)	3,884,962,976	1.10%	1.20%
Deferred Compensation Plan	921,685,024	12,333,254	(2,149,906)	931,868,372	1.10%	1.34%
*					1.1070	1.3470
Total All Funds	31,963,063,153	411,601,949	(113,618,277)	32,261,046,825		
Total Non-Participant Directed	25,716,159,419	331,584,682	(118,998,680)	25,928,745,421	0.83%	1.29%
Total Participant Directed	6,246,903,734	80,017,267	5,380,403	6,332,301,404	1.37%	1.28%
Total All Funds Notes:	\$ <u>31,963,063,153</u> \$	411,601,949 \$	(113,618,277) \$	32,261,046,825	0.93%	1.29%

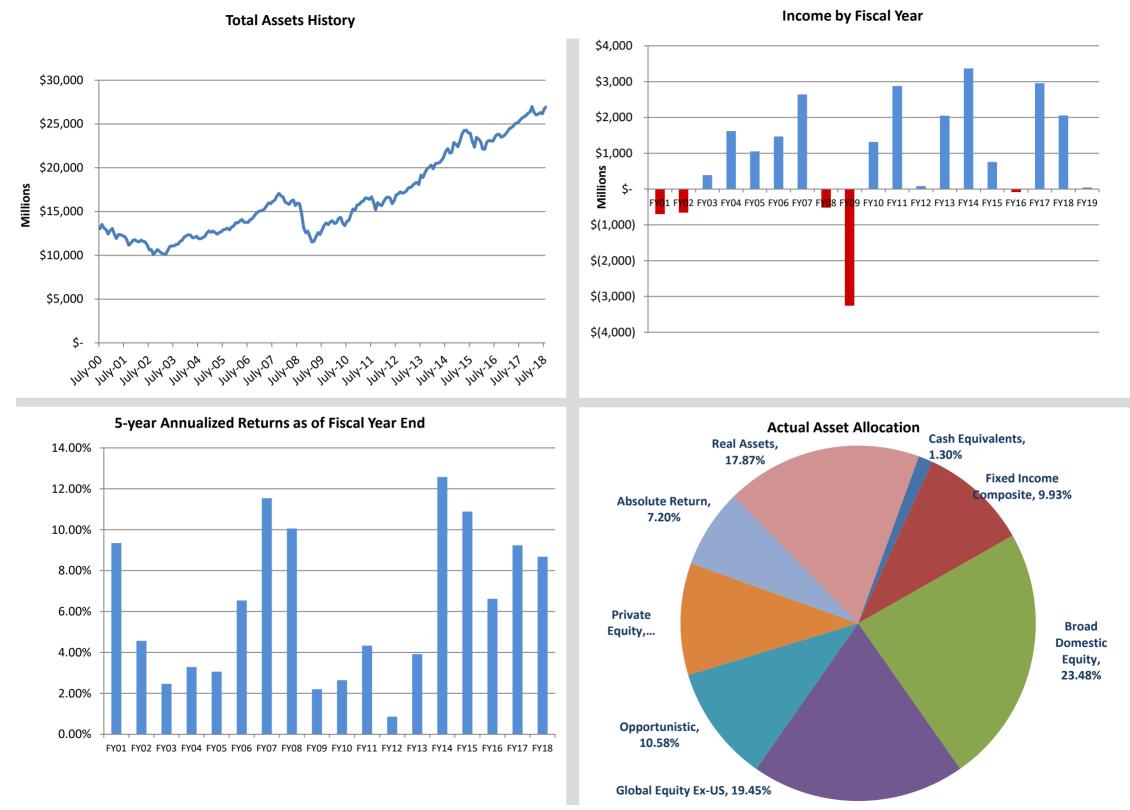
Notes:

(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: <u>http://www.revenue.state.ak.us/treasury/programs/other/armb/investmentresults.aspx</u>

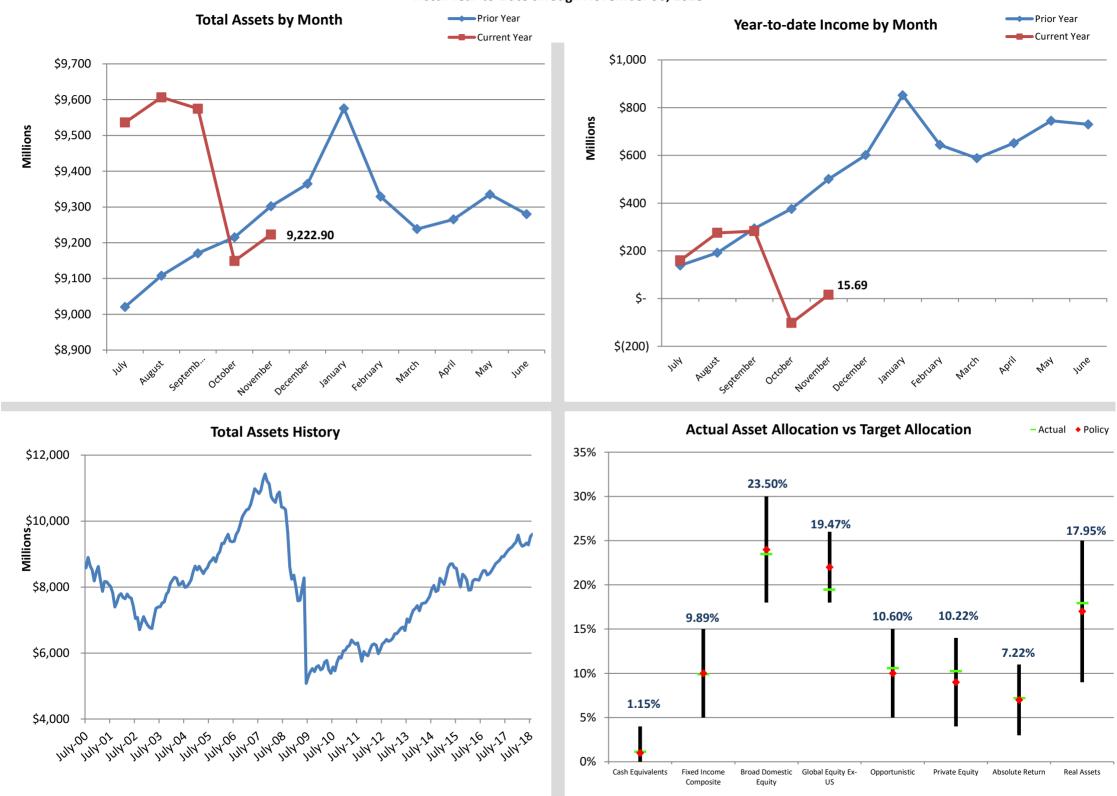
Total Non Participant Directed Assets

As of November 30, 2018



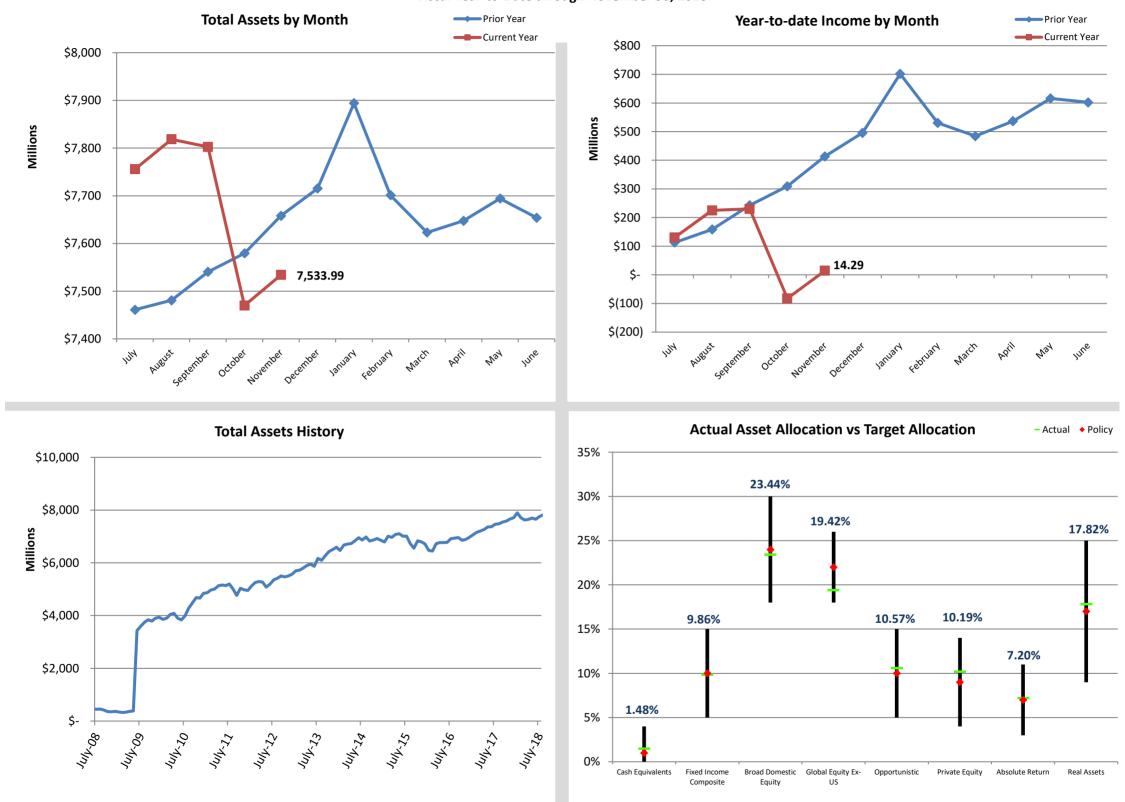
Public Employees' Retirement Pension Trust Fund

Fiscal Year-to-Date through November 30, 2018



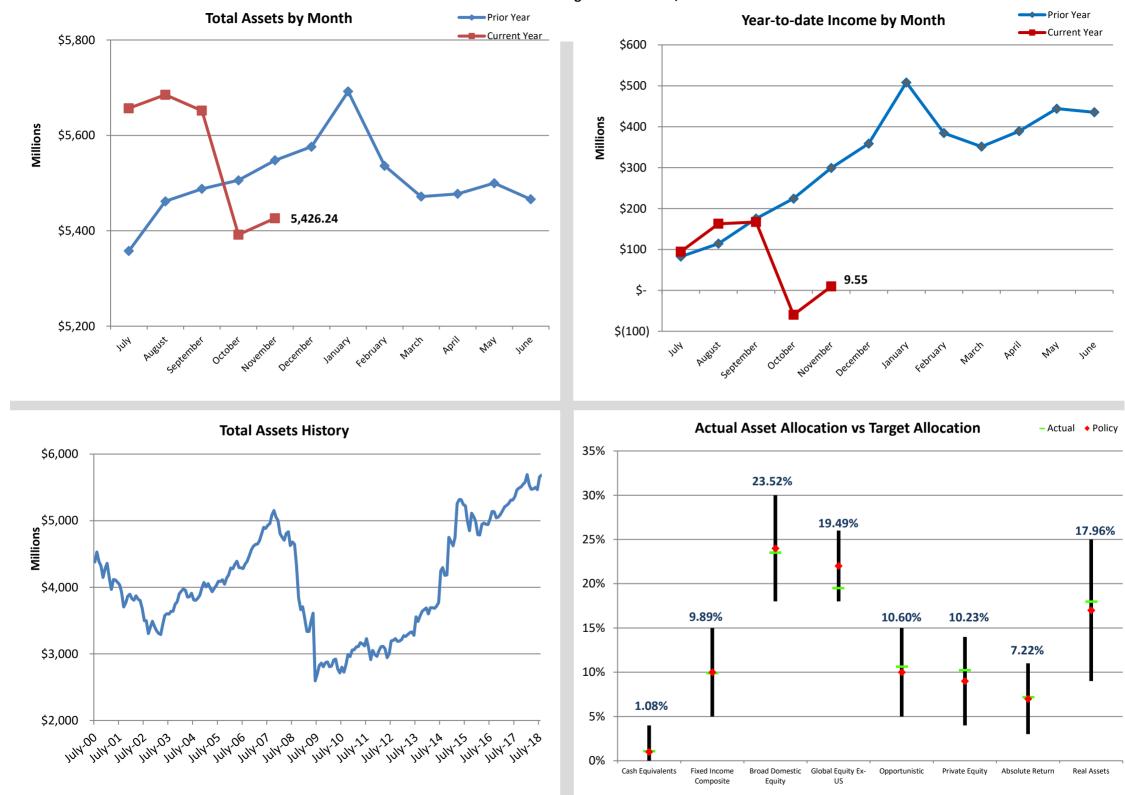
Public Employees' Retirement Health Care Trust Fund

Fiscal Year-to-Date through November 30, 2018



Teachers' Retirement Pension Trust Fund

Fiscal Year-to-Date through November 30, 2018



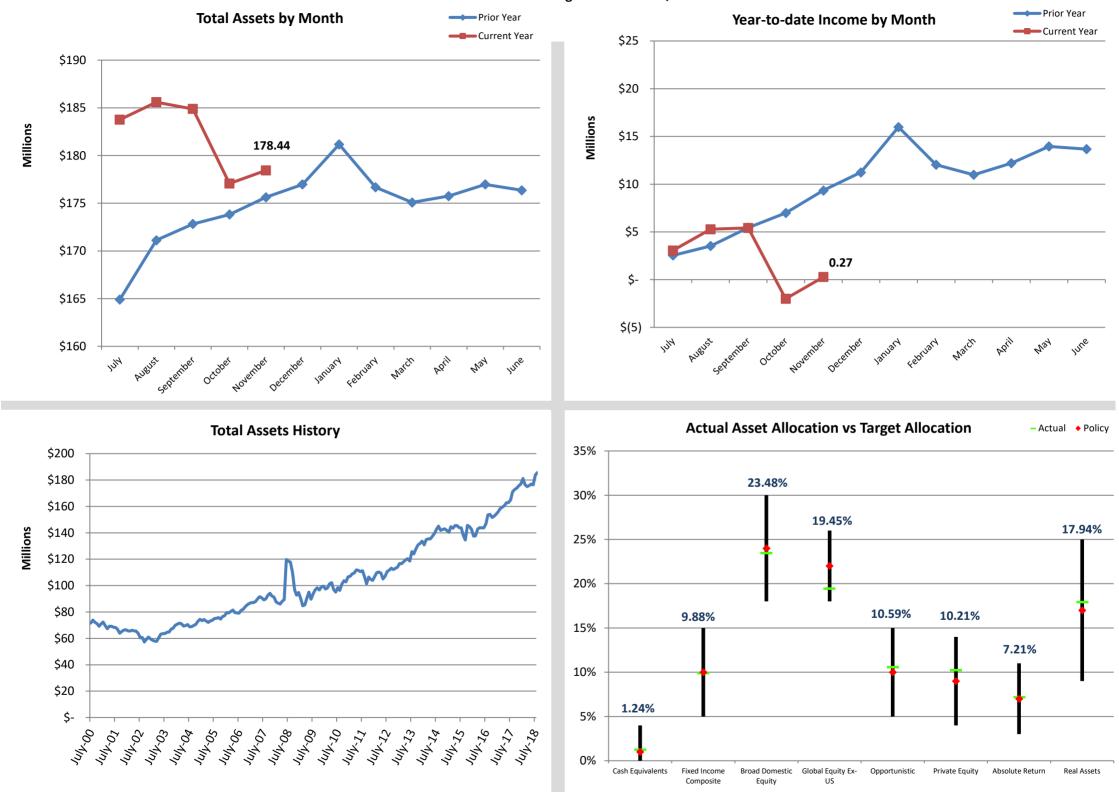
Teachers' Retirement Health Care Trust Fund

Fiscal Year-to-Date through November 30, 2018



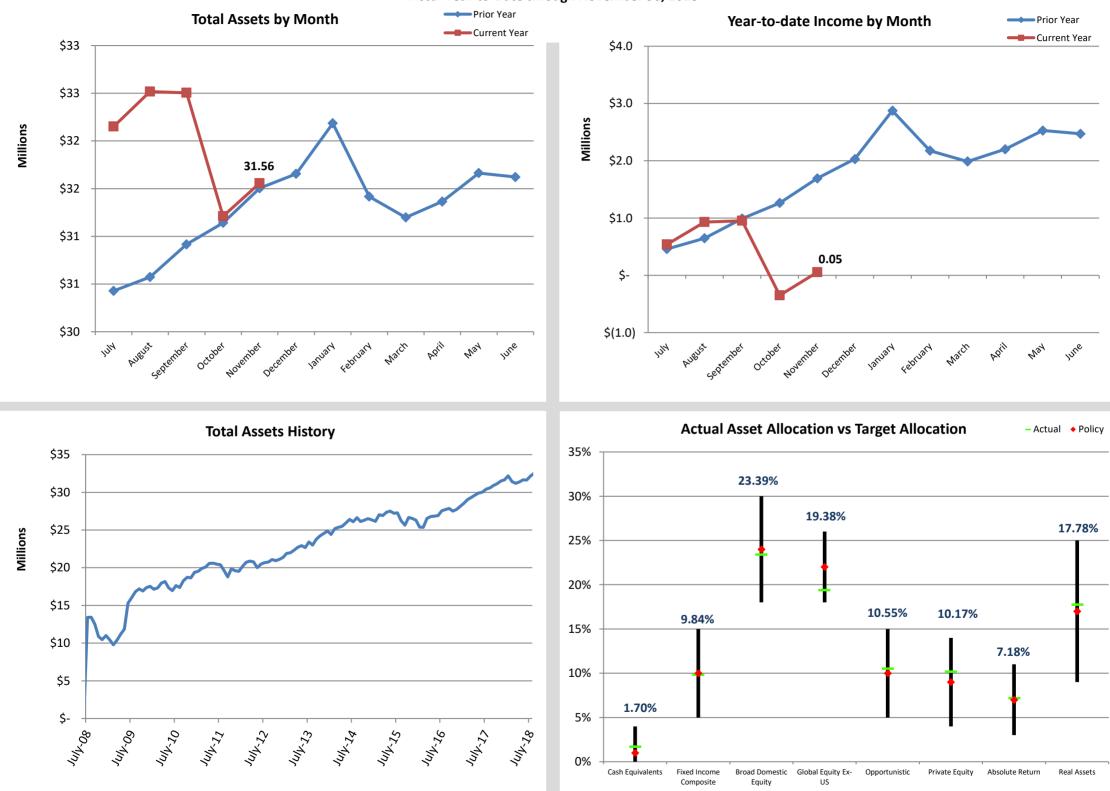
Judicial Retirement Pension Trust Fund

Fiscal Year-to-Date through November 30, 2018



Judicial Retirement Health Care Trust Fund

Fiscal Year-to-Date through November 30, 2018



Military Retirement Trust Fund

Fiscal Year-to-Date through November 30, 2018



ALASKA RETIREMENT MANAGEMENT BOARD

Reporting of Funds by Manager

All Non-Participant Directed Plans

	Beginning Invested Assets	Investment Income	Net Contributions and (Withdrawals)	Ending Invested Assets	% increase (decrease)	% Change due to Investment Income
Cash						
Short-Term Fixed Income Pool	\$ 314,448,554	\$ 589,334	\$ 22,625,523	\$ 337,663,411	7.38%	0.18%
Securities Lending Income Pool	175,478	141,818	-	317,296	80.82%	80.82%
Total Cash	314,624,032	731,152	22,625,523	337,980,707	7.42%	0.22%
Fixed Income						
ARMB US Treasury Fixed Income	2,607,453,338	16,584,977	(50,300,000)	2,573,738,315	-1.29%	0.64%
Domestic Equities						
Small Cap						
Passively Managed						
ARMB S&P 600	152,279,706	2,376,972	-	154,656,678	1.56%	1.56%
SSgA Russell 2000 Growth	18,236	647	(13,315)	5,568	-69.47%	5.59%
SSgA Russell 2000 Value	30,394	7,062	(24,508)	12,948	-57.40%	38.93%
Total Passive	152,328,336	2,384,681	(37,823)	154,675,194	1.54%	1.57%
Actively Managed						
ARMB Futures Small Cap	956,174	177,625	-	1,133,799	18.58%	18.58%
Arrowmark	52,204,390	691,897	-	52,896,287	1.33%	1.33%
BMO Global Asset Management	48,836,381	299,526	81,705	49,217,612	0.78%	0.61%
DePrince, Race & Zollo Inc Micro Cap	84,204,897	700,892	-	84,905,789	0.83%	0.83%
Fidelity (FIAM) Small Company	(9,019)	9,019	-	-	-100.00%	-100.00%
Frontier Capital Mgmt. Co.	94,287,151	(300,383)	-	93,986,768	-0.32%	-0.32%
Jennison Associates, LLC	67,544,268	756,813	146,068	68,447,149	1.34%	1.12%
Lord Abbett & Co Micro Cap	78,112,618	1,445,636	241,669	79,799,923	2.16%	1.85%
T. Rowe Small Cap Growth	45,275,166	866,773	-	46,141,939	1.91%	1.91%
Transition Account	(1,520)	-	-	(1,520)	-	-
Lord Abbett Small Cap Growth Fund	-	5,373	(5,373)	-	-	-200.00%
Victory Capital Management	117,402,152	3,558,511	193,624	121,154,287	3.20%	3.03%
Zebra Capital Management	85,961,766	(1,074,766)	-	84,887,000	-1.25%	-1.25%
Total Active	674,774,424	7,136,916	657,693	682,569,033	1.16%	1.06%
Total Small Cap	827,102,760	9,521,597	619,870	837,244,227	1.23%	1.15%

Large C	ap
---------	----

Passively Managed						
ARMB Russell 1000 Growth	1,549,136,747	16,501,632	4,167	1,565,642,546	1.07%	1.07%
ARMB Russell 1000 Value	1,350,753,023	40,560,805	4,167	1,391,317,995	3.00%	3.00%
ARMB Russell Top 200	389,475,542	7,308,155	4,167	396,787,864	1.88%	1.88%
Total Passive	3,289,365,312	64,370,592	12,501	3,353,748,405	1.96%	1.96%
Actively Managed						
Allianz Global Investors	5,640	(7)	(5,633)	-	-100.00%	-0.25%
ARMB Equity Yield	365,613,819	12,533,210	-	378,147,029	3.43%	3.43%
ARMB Futures Large Cap	3,317,484	248,991	-	3,566,475	7.51%	7.51%
ARMB Portable Alpha	429,546,236	7,655,100	(835,040)	436,366,296	1.59%	1.78%
ARMB S&P 500 Equal Weight	357,951,238	9,914,002	-	367,865,240	2.77%	2.77%
ARMB Scientific Beta	366,762,446	8,348,438	-	375,110,884	2.28%	2.28%
Barrow, Hanley, Mewhinney & Strauss	18,019	(59)	(17,594)	366	-97.97%	-0.64%
Lazard Freres	328,789,983	7,503,125	-	336,293,108	2.28%	2.28%
McKinley Capital Mgmt	45	-	(45)	-	-100.00%	-
Transition Account	2	-	(2)	-	-100.00%	-
Total Active	1,852,004,912	46,202,800	(858,314)	1,897,349,398	2.45%	2.50%
Total Large Cap	5,141,370,224	110,573,392	(845,813)	5,251,097,803	2.13%	2.15%
Total Domestic Equity	5,968,472,984	120,094,989	(225,943)	6,088,342,030	2.01%	2.01%
Global Equities Ex US						
Small Cap						
Mondrian Investment Partners	173,553,655	2,696,997	-	176,250,652	1.55%	1.55%
Schroder Investment Management	183,153,143	378,191	-	183,531,334	0.21%	0.21%
Total Small Cap	356,706,798	3,075,188		359,781,986	0.86%	0.86%
Large Cap						
Allianz Global Investors	1,040,044	1,167	-	1,041,211	0.11%	0.11%
Arrow Street Capital	358,809,041	(676,589)	443,910	358,576,362	-0.06%	-0.19%
Baillie Gifford Overseas Limited	335,259,665	3,565,483	-	338,825,148	1.06%	1.06%
Blackrock ACWI Ex-US IMI	488,293,047	3,938,442	-	492,231,489	0.81%	0.81%
Brandes Investment Partners	767,153,042	(10,544,376)	-	756,608,666	-1.37%	-1.37%
Cap Guardian Trust Co	521,569,649	1,068,812	568,537	523,206,998	0.31%	0.20%
Lazard Freres	307,380,732	2,310,561	-	309,691,293	0.75%	0.75%
McKinley Capital Management	327,062,410	(4,790,257)	-	322,272,153	-1.46%	-1.46%
State Street Global Advisors	918,823,827	8,176,729	-	927,000,556	0.89%	0.89%
Total Large Cap	4,025,391,457	3,049,972	1,012,447	4,029,453,876	0.10%	0.08%

Emerging Markets Equity						
DePrince, Race, and Zollo Emerging Markets	256,888,885	12,145,306	-	269,034,191	4.73%	4.73%
Lazard Asset Management	371,649,219	12,237,230	-	383,886,449	3.29%	3.29%
Total Emerging Markets	628,538,104	24,382,536	-	652,920,640	3.88%	3.88%
Total Global Equities	5,010,636,359	30,507,696	1,012,447	5,042,156,502	0.63%	0.61%
Opportunistic						
Alternative Equity Strategy						
Analytic Buy Write Account	719,310,464	16,944,166	-	736,254,630	2.36%	2.36%
ARMB STOXX Minimum Variance	617,592,060	13,442,952	-	631,035,012	2.18%	2.18%
Quantitative Management Associates MPS	(1,836,690)	443,107		(1,393,583)	24.13%	24.13%
Total Alternative Equity Strategy	1,335,065,834	30,830,225		1,365,896,059	2.31%	2.31%
Opportunistic Fixed Income						
Fidelity Inst. Asset Mgmt. High Yield CMBS	103,837,261	99,414	-	103,936,675	0.10%	0.10%
Fidelity Institutional Asset Management	202,424,336	(385,746)	-	202,038,590	-0.19%	-0.19%
Lazard Emerging Income	66,140,403	826,411	-	66,966,814	1.25%	1.25%
MacKay Shields, LLC	105,726,457	(125,725)	(6,800,000)	98,800,732	-6.55%	-0.12%
Mondrian Investment Partners	95,315,528	784,938	-	96,100,466	0.82%	0.82%
Western Asset Management	55,713,652	411,020	-	56,124,672	0.74%	0.74%
Total Opportunistic Fixed Income	629,157,637	1,610,312	(6,800,000)	623,967,949	-0.82%	0.26%
Other Opportunities						
Project Pearl	10,049,468	-	(500)	10,048,968	0.00%	-
Schroders Insurance Linked Securities	343,339,388	(2,618,655)	642,350	341,363,083	-0.58%	-0.76%
Total Other Opportunities	353,388,856	(2,618,655)	641,850	351,412,051	-0.56%	-0.74%
Tactical Allocation Strategies						
Columbia Threadneedle	585	-	-	585	-	-
Eaton Vance High Yield	23,404	-	-	23,404	-	-
Fidelity Signals	200,000,000	2,354,659	-	202,354,659	1.18%	1.18%
PineBridge	200,000,000	613,202	-	200,613,202	0.31%	0.31%
Total Tactical Allocation Strategies	400,023,989	2,967,861	-	402,991,850	0.74%	0.74%
Total Opportunistic	2,717,636,316	32,789,743	(6,158,150)	2,744,267,909	0.98%	1.21%
-						

			0			
Private Equity						
Abbott Capital	971,155,925	45,950,443	(1,045,286)	1,016,061,082	4.62%	4.73%
Advent International GPE Fund VIII-B	17,473,014	1,347,889	-	18,820,903	7.71%	7.71%
Angelo, Gordon & Co.	64,699	228	-	64,927	0.35%	0.35%
Dyal Capital Partners III	23,881,207	-	-	23,881,207	-	-
Glendon Opportunities	37,800,497	740,676	-	38,541,173	1.96%	1.96%
Glendon Opportunities II	-	-	-	-	-	-
KKR Lending Partners II	55,693,996	-	-	55,693,996	-	-
Lexington Capital Partners VIII	30,294,015	1,010,856	-	31,304,871	3.34%	3.34%
Lexington Partners VII	22,382,595	1,141,625	(332,014)	23,192,206	3.62%	5.14%
Merit Capital Partners	13,676,672	-	-	13,676,672	-	-
NB SOF III	30,035,517	-	-	30,035,517	-	-
NB SOF IV	7,001,339	-	-	7,001,339	-	-
New Mountain Partners IV	23,528,357	1,159,675	(339,027)	24,349,005	3.49%	4.96%
New Mountain Partners V	12,514,884	(178,385)	1,372,135	13,708,634	9.54%	-1.35%
NGP XI	52,051,628	940,576	-	52,992,204	1.81%	1.81%
Onex Partnership III	13,812,348	(868,722)	-	12,943,626	-6.29%	-6.29%
Pathway Capital Management LLC	1,100,386,076	50,176,339	(1,602,422)	1,148,959,993	4.41%	4.56%
Resolute Fund III	19,639,835	1,045,349	-	20,685,184	5.32%	5.32%
Summit Partners GE IX	18,093,544	355,590	2,464,000	20,913,134	15.58%	1.84%
Warburg Pincus X	14,220,090	(339,724)	(432,750)	13,447,616	-5.43%	-2.43%
Warburg Pincus XI	28,394,311	275,823	-	28,670,134	0.97%	0.97%
Warburg Pincus XII	46,417,040	1,448,353	-	47,865,393	3.12%	3.12%
Total Private Equity	2,538,517,589	104,206,591	84,636	2,642,808,816	4.11%	4.10%

		ucu 1107 chibel 50, 201	0			
Absolute Return						
Allianz Global Investors	354,429,261	-	-	354,429,261	-	-
Crestline Investors, Inc.	460,905,103	-	-	460,905,103	-	-
Crestline Specialty Fund	36,487,787	-	(6,124,044)	30,363,743	-16.78%	-
Crestline Specialty Lending Fund II	14,387,413	-	(2,570,743)	11,816,670	-17.87%	-
JPM Systemic Alpha	176,118,248	(1,229,017)	-	174,889,231	-0.70%	-0.70%
KKR Apex Equity Fund	80,993,842	-	-	80,993,842	-	-
Man Group Alternative Risk Premia	213,814,781	(6,070,536)	-	207,744,245	-2.84%	-2.84%
Prisma Capital Partners	428,129,338	4,701,555	-	432,830,893	1.10%	1.10%
Zebra Global Equity Advantage Fund	36,565,374	820,948	-	37,386,322	2.25%	2.25%
Zebra Global Equity Fund	74,858,818	427,055	-	75,285,873	0.57%	0.57%
Total Absolute Return Investments	1,876,689,965	(1,349,995)	(8,694,787)	1,866,645,183	-0.54%	-0.07%
Real Assets						
Farmland						
Hancock Agricultural Investment Group	267,540,263	2,117,930	-	269,658,193	0.79%	0.79%
UBS Agrivest, LLC	580,502,027	2,610,823	-	583,112,850	0.45%	0.45%
Total Farmland	848,042,290	4,728,753	-	852,771,043	0.56%	0.56%
Timber						
Hancock Natural Resource Group	96,533,654	61,247	-	96,594,901	0.06%	0.06%
Timberland Invt Resource LLC	262,618,531	1,585,291	500	264,204,322	0.60%	0.60%
Total Timber	359,152,185	1,646,538	500	360,799,223	0.46%	0.46%
Energy						
EIG Energy Fund XIV-A	14,353,496	(21,376)	-	14,332,120	-0.15%	-0.15%
EIG Energy Fund XV	26,739,753	108,434	-	26,848,187	0.41%	0.41%
EIG Energy Fund XVI	57,723,029	2,157,733	-	59,880,762	3.74%	3.74%
Total Energy	98,816,278	2,244,791	-	101,061,069	2.27%	2.27%
REIT						
REIT Transition Account	-	_	-	-	-	_
ARMB REIT	198,262,789	9,412,607	-	207,675,396	4.75%	4.75%
Total REIT	198,262,789	9,412,607	-	207,675,396	4.75%	4.75%
TIPS						
ARMB Treasury Inflation Protected Securities					-	-
Master Limited Partnerships						
Advisory Research MLP	292,442,444	(4,631,500)	_	287,810,944	-1.58%	-1.58%
Tortoise Capital Advisors	464,728,843	(3,880,784)	_	460,848,059	-0.84%	-0.84%
Total Master Limited Partnerships	757,171,287	(8,512,284)		748,659,003	-1.12%	-0.84%
	131,111,201	(0, J12, 207)		70,057,005	-1.12/0	-1.12/0

Infrastructure Private						
IFM Global Infrastructure Fund-Private	425,858,977	(1,824,954)	-	424,034,023	-0.43%	-0.43%
JP Morgan Infrastructure Fund-Private	115,395,118	2,361,637	-	117,756,755	2.05%	2.05%
Total Infrastructure Private	541,254,095	536,683	-	541,790,778	0.10%	0.10%
Infrastructure Public						
Brookfield Investment MgmtPublic	103,202,528	1,275,221	_	104,477,749	1.24%	1.24%
Lazard Asset MgmtPublic	146,365,495	(986,103)	247,563	145,626,955	-0.50%	-0.67%
Total Infrastructure Public	249,568,023	289,118	247,563	250,104,704	0.22%	0.12%
Real Estate						
Core Commingled Accounts	257 019 560	1 106 072		250 024 641	0.420/	0.43%
JP Morgan UBS Trumbull Property Fund	257,918,569 91,167,249	1,106,072	-	259,024,641 91,167,249	0.43%	0.43%
Total Core Commingled	349,085,818	1,106,072		350,191,890	0.32%	0.32%
0	549,065,616	1,100,072		330,191,090	0.3270	0.32%
Core Separate Accounts LaSalle Investment Management	199,558,832	2,562,951	(978,840)	201,142,943	0.79%	1.29%
Sentinel Separate Account	241,171,550	3,532,657	(73,403,540)	171,300,667	-28.97%	1.73%
UBS Realty	508,450,957	9,231,422	(1,438,305)	516,244,074	1.53%	1.82%
Total Core Separate	949,181,339	15,327,030	(75,820,685)	888,687,684	-6.37%	1.68%
Non-Core Commingled Accounts	,101,335	13,527,050	(15,020,005)	000,007,001	0.5770	1.0070
Almanac Realty Securities V	2,020,878	(5,266)	(559,358)	1,456,254	-27.94%	-0.30%
Almanac Realty Securities VII	33,753,045	683,198	501,192	34,937,435	3.51%	2.01%
BlackRock Diamond Property Fund	68,967	-	-	68,967	-	-
BlackRock US Core Property Fund	205,044,855	-	-	205,044,855	-	-
Clarion Ventures 4	23,108,222	87,662	-	23,195,884	0.38%	0.38%
Colony Investors VIII, L.P.	1,637,059	(3,435)	-	1,633,624	-0.21%	-0.21%
Coventry	265,083	(9,280)	-	255,803	-3.50%	-3.50%
ING Clarion Development Ventures III	2,482,226	37,654	-	2,519,880	1.52%	1.52%
KKR Real Estate Partners Americas II	5,630,883	-	1,061,751	6,692,634	18.86%	
KKR Real Estate Partners Americas LP.	23,847,599	-	(2,773,369)	21,074,230	-11.63%	-
Silverpeak Legacy Pension Partners II, L.P.	6,091,339	(13,729)	(_,,c.;,c.;,) -	6,077,610	-0.23%	-0.23%
Silverpeak Legacy Pension Partners III, L.P.	4,487,072	(14,128)	-	4,472,944	-0.31%	-0.31%
Tishman Speyer Real Estate Venture VI	22,157,920	563,985	_	22,721,905	2.55%	2.55%
Tishman Speyer Real Estate Venture VII	999,584	(86,440)	-	913,144	-8.65%	-8.65%
Total Non-Core Commingled	331,594,732	1,240,221	(1,769,784)	331,065,169	-0.16%	0.38%
Total Real Estate	1,629,861,889	17,673,323	(77,590,469)	1,569,944,743	-3.68%	1.11%
Total Real Assets	4,682,128,836	28,019,529	(77,342,406)	4,632,805,959	-1.05%	0.60%
Total Assets	\$ 25,716,159,419	\$ 331,584,682	\$ (118,998,680)	\$ 25,928,745,421	0.83%	1.29%

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 November 30, 2018

	В	eginning 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	\$	373,440,541	\$	765,926	\$	(1,039,971) \$	1,328,884 \$	374,495,380	0.28%	0.21%
Small Cap Stock Fund		172,923,499		3,714,848		(15,375)	385,921	177,008,893	2.36%	2.15%
Alaska Balanced Trust		1,104,105,584		9,874,671		(3,466,095)	(1,596,109)	1,108,918,051	0.44%	0.90%
Long Term Balanced Fund		654,860,809		7,704,055		(576,026)	(1,438,043)	660,550,795	0.87%	1.18%
AK Target Date 2010 Trust		10,539,645		99,687		(249)	(102,457)	10,536,626	-0.03%	0.95%
AK Target Date 2015 Trust		81,245,973		848,548		161,228	(211,883)	82,043,866	0.98%	1.04%
AK Target Date 2020 Trust		93,194,415		1,097,567		(7,974)	(452,991)	93,831,017	0.68%	1.18%
AK Target Date 2025 Trust		75,436,996		980,976		215,495	(77,930)	76,555,537	1.48%	1.30%
AK Target Date 2030 Trust		57,511,549		810,566		143,698	233,605	58,699,418	2.07%	1.40%
AK Target Date 2035 Trust		53,521,408		795,206		243,600	(382,975)	54,177,239	1.23%	1.49%
AK Target Date 2040 Trust		53,607,601		836,100		119,908	(215,309)	54,348,300	1.38%	1.56%
AK Target Date 2045 Trust		60,953,525		977,060		116,285	136,797	62,183,667	2.02%	1.60%
AK Target Date 2050 Trust		69,233,559		1,115,830		389,351	(172,623)	70,566,117	1.92%	1.61%
AK Target Date 2055 Trust		58,773,569		939,473		353,474	(153,729)	59,912,787	1.94%	1.60%
AK Target Date 2060 Trust		4,344,722		84,671	_	8,485	519,200	4,957,078	14.09%	1.84%
Total Investments with T. Rowe Price		2,923,693,395	_	30,645,184	_	(3,354,166)	(2,199,642)	2,948,784,771		
State Street Global Advisors										
Money Market		46,117,609		81,075		3,534	65,424	46,267,642	0.33%	0.18%
S&P 500 Stock Index Fund Series A		461,004,768		9,369,270		(741,328)	1,151,474	470,784,184	2.12%	2.03%
Russell 3000 Index		72,899,984		1,450,207		90,590	(419,910)	74,020,871	1.54%	1.99%
US Real Estate Investment Trust Index		34,077,800		1,666,746		38,041	749,236	36,531,823	7.20%	4.84%
World Equity Ex-US Index		54,599,752		520,412		61,503	265,002	55,446,669	1.55%	0.95%
US Treasury Inflation Protected Securities Index		39,322,196		187,689		(131,973)	718,584	40,096,496	1.97%	0.47%
Total Investments with SSgA		708,022,109	_	13,275,399	_	(679,633)	2,529,810	723,147,685		
BlackRock										
Passive U.S. Bond Index Fund		100,001,111		593,259		(79,826)	(306,723)	100,207,821	0.21%	0.59%
Brandes/Baillie Gifford AK International Equity Fund		61,818,698		(137,508)		71,808	(182,063)	61,570,935	-0.40%	-0.22%
Northern Trust Environmental, Social, and Governance Fund		49,257,101		1,825,288		10,757	158,618	51,251,764	4.05%	3.70%
Total All Funds	\$	3,842,792,414	\$	46,201,622	\$	(4,031,060) \$	- \$	3,884,962,976	1.10%	1.20%

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 November 30, 2018

\$ (Thousands)

-	July	. -	August		September		October		November
_				-		-			
\$	355,917	\$	363,879	\$	369,544	\$	373,441	\$	374,495
	181,818		192,895		189,729		172,923		177,009
	1,149,694		1,155,054		1,144,920		1,104,106		1,108,918
	690,744		693,992		690,403		654,861		660,551
	10,224		10,332		10,477		10,540		10,537
	85,669		85,913		85,682		81,246		82,044
	95,933		97,261		97,663		93,194		93,831
	77,962		79,810		79,145		75,437		76,556
	58,998		60,191		60,272		57,512		58,699
	54,648		56,123		56,190		53,521		54,177
	54,939		56,321		56,549		53,608		54,348
	62,116		63,775		64,636		60,954		62,184
	71,313		72,734		73,411		69,234		70,566
	58,693		60,532		61,791		58,774		59,913
	3,459		4,069		4,121		4,345		4,957
	42,005		40,850		43,080		46,118		46,268
	469,954		484,173		488,706		461,005		470,784
	76,432		78,281		77,681		72,900		74,021
	35,067		36,342		35,138		34,078		36,532
	55,690		55,661		58,202		54,600		55,447
	12,732		-		-		-		-
	33,228		36,218		38,180		39,322		40,096
	12,569		-		-		-		-
	-		111,572		107,003		100,001		100,208
	49,922		-		-		-		-
	41,183		-		-		-		-
	69,890		68,052		68,018		61,819		61,571
_	54,712		53,437		53,544		49,257		51,252
\$	3,965,512	\$	4,017,465	\$	4,014,083	\$_	3,842,792	\$	3,884,963
\$	3,905,659	\$	3,965,512	\$	4,017,465	\$	4,014,083	\$	3,842,792
	64,770		58,603		(2,073)		(171,828)		46,202
_					(1,309)	·	537		(4,031)
\$ _	3,965,512	- \$ -	4,017,465	\$	4,014,083	\$	3,842,792	\$	3,884,963
	Daga 19								
	\$ \$	\$ 355,917 181,818 1,149,694 690,744 10,224 85,669 95,933 77,962 58,998 54,648 54,939 62,116 71,313 58,693 3,459 42,005 469,954 76,432 35,067 55,690 12,732 33,228 12,569 \$ 3,905,659 64,770 (4,918) \$ 3,905,659 64,770 (4,918)	\$ 355,917 \$ 181,818 1,149,694 690,744 10,224 85,669 95,933 77,962 58,998 54,648 54,939 62,116 71,313 58,693 3,459 42,005 469,954 76,432 35,067 55,690 12,732 33,228 12,569 49,922 41,183 69,890 54,712 \$ 3,905,659 \$ 64,770 (4,918) \$ 3,965,512 \$	\$ 355,917 \$ 363,879 181,818 192,895 1,149,694 1,155,054 690,744 693,992 10,224 10,332 85,669 85,913 95,933 97,261 77,962 79,810 58,998 60,191 54,648 56,123 54,939 56,321 62,116 63,775 71,313 72,734 58,693 60,532 3,459 4,069 42,005 40,850 469,954 484,173 76,432 78,281 35,067 36,342 55,690 55,661 12,732 - 33,228 36,218 12,569 - - 111,572 49,922 - 41,183 - 69,890 68,052 \$4,017,465 \$6,630 \$4,9922 - 41,183 - 69,890 68,052 \$4,017,465 \$8,603 (4,918)<	355,917 $363,879$ $181,818$ $192,895$ $1,149,694$ $1,155,054$ $690,744$ $693,992$ $10,224$ $10,332$ $85,669$ $85,913$ $95,933$ $97,261$ $77,962$ $79,810$ $58,998$ $60,191$ $54,648$ $56,123$ $54,939$ $56,321$ $62,116$ $63,775$ $71,313$ $72,734$ $58,693$ $60,532$ $3,459$ $4,069$ $42,005$ $40,850$ $469,954$ $484,173$ $76,432$ $78,281$ $35,067$ $36,342$ $55,690$ $55,661$ $12,732$ - $33,228$ $36,218$ $12,569$ - $41,183$ - $69,890$ $68,052$ $4,1183$ - $69,890$ $68,052$ $54,712$ $53,437$ $54,712$ $53,437$ $8,039,05,659$ $3,965,512$ $8,039,05,5$	355,917 $363,879$ $369,544$ 181,818 192,895 189,729 1,149,694 1,155,054 1,144,920 690,744 693,992 690,403 10,224 10,332 10,477 85,669 85,913 85,682 95,933 97,261 97,663 77,962 79,810 79,145 58,998 60,191 60,272 54,648 56,123 56,190 54,939 56,321 56,549 62,116 63,775 64,636 71,313 72,734 73,411 58,693 60,532 61,791 3,459 4,069 4,121 42,005 40,850 43,080 469,954 484,173 488,706 76,432 78,281 77,681 35,067 36,342 35,138 55,690 55,661 58,202 12,732 - - - 111,572 107,003 49,922 - - - 111,572 107,003 <	\$ 355,917 \$ 363,879 \$ 369,544 \$ 181,818 192,895 189,729 1,149,694 1,155,054 1,144,920 690,744 693,992 690,403 10,224 10,332 10,477 85,669 85,913 85,682 95,933 97,261 97,663 77,962 79,810 79,145 58,998 60,191 60,272 54,648 56,123 56,190 54,939 56,321 56,549 62,116 63,775 64,636 71,313 72,734 73,411 58,693 60,532 61,791 3,459 4,069 4,121 42,005 40,850 43,080 469,954 484,173 488,706 76,432 78,281 77,681 35,067 36,342 35,138 55,690 55,661 58,202 12,732 - - 33,228 36,218 38,180 12,569 - - 69,890 68,052 68,018 54,712 53,437<	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

Deferred Compensation Plan Schedule of Invested Assets and Changes in Invested Assets for the Month Ended November 30, 2018

							% Change in	% Change due
	Begin	ning Invested Assets	Investment Income	Net Contributions (Withdrawals)	Transfers In (Out)	Ending Invested Assets	Invested Assets	to Investment Income (1)
Participant Options				((_)
T. Rowe Price								
Stable Value Fund	\$	181,148,231 \$	371,281	\$ (635,394) \$	5 236,102 \$	181,120,220	-0.02%	0.21%
Small Cap Stock Fund	·	108,520,436	2,335,639	(412,822)	(257,226)	110,186,027	1.53%	2.16%
Alaska Balanced Trust		29,783,329	261,134	770	(458,060)	29,587,173	-0.66%	0.88%
Long Term Balanced Fund		84,959,960	999,327	(336,947)	(87,060)	85,535,280	0.68%	1.18%
AK Target Date 2010 Trust		3,718,802	34,991	(3,551)	(35,954)	3,714,288	-0.12%	0.95%
AK Target Date 2015 Trust		8,904,185	92,219	(48,039)	(29,616)	8,918,749	0.16%	1.04%
AK Target Date 2020 Trust		24,788,032	292,085	(131,293)	8,437	24,957,261	0.68%	1.18%
AK Target Date 2025 Trust		17,894,890	233,131	42,869	(219,592)	17,951,298	0.32%	1.31%
AK Target Date 2030 Trust		11,761,136	164,989	31,009	20,049	11,977,183	1.84%	1.40%
AK Target Date 2035 Trust		7,003,456	104,884	30,749	106,399	7,245,488	3.46%	1.48%
AK Target Date 2040 Trust		7,660,652	119,792	23,203	(5,990)	7,797,657	1.79%	1.56%
AK Target Date 2045 Trust		5,585,231	89,643	23,494	21	5,698,389	2.03%	1.60%
AK Target Date 2050 Trust		3,927,031	66,838	38,128	136,804	4,168,801	6.16%	1.66%
AK Target Date 2055 Trust		3,992,933	63,979	8,365	(6,822)	4,058,455	1.64%	1.60%
AK Target Date 2060 Trust		870,593	13,931	5,035	1,812	891,371	2.39%	1.59%
Total Investments with T. Rowe Price		500,518,897	5,243,863	(1,364,424)	(590,696)	503,807,640		
State Street Global Advisors								
Money Market		13,870,731	24,131	(207,293)	30,995	13,718,564	-1.10%	0.18%
Russell 3000 Index		44,548,784	899,964	74,502	(200,857)	45,322,393	1.74%	2.02%
US Real Estate Investment Trust Index		12,567,590	613,165	26,123	204,875	13,411,753	6.72%	4.83%
World Equity Ex-US Index		17,577,597	165,976	58,125	(64,132)	17,737,566	0.91%	0.94%
US Treasury Inflation Protected Securities Index		15,686,134	74,305	26,787	122,564	15,909,790	1.43%	0.47%
Total Investments with SSgA		104,250,836	1,777,541	(21,756)	93,445	106,100,066		
BlackRock								
S&P 500 Index Fund		210,345,516	4,284,292	(546,404)	(69,646)	214,013,758	1.74%	2.04%
Passive U.S. Bond Index Fund		52,868,342	315,466	(212,247)	281,077	53,252,638	0.73%	0.60%
Total Investments with BlackRock		263,213,858	4,599,758	(758,651)	211,431	267,266,396		
Brandes/Baillie Gifford								
AK International Equity Fund		32,597,998	(70,313)	3,871	(64,635)	32,466,921	-0.40%	-0.22%
Northern Trust								
Environmental, Social, and Governance Fund		21,103,435	782,405	(8,946)	350,455	22,227,349	5.33%	3.68%
Total All Funds	\$	921,685,024 \$	12,333,254	\$ (2,149,906)	- \$	931,868,372	1.10%	1.34%

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 November 30, 2018

\$ (Thousands)

<u>Invested Assets</u> (at fair value)		July	 August	 September	 October		November
Investments with T. Rowe Price						_	
Interest Income Fund	\$	175,629	\$ -	\$ -	\$ -	\$	-
Stable Value Fund		-	179,111	178,901	181,148		181,12
Small Cap Stock Fund		114,946	121,797	119,170	108,520		110,18
Alaska Balanced Trust		29,501	30,253	30,453	29,783		29,58
Long Term Balanced Fund		91,224	91,105	90,275	84,960		85,53
AK Target Date 2010 Trust		4,051	4,078	4,033	3,719		3,714
AK Target Date 2015 Trust		9,541	9,477	9,462	8,904		8,91
AK Target Date 2020 Trust		26,229	26,594	26,248	24,788		24,95
AK Target Date 2025 Trust		17,470	18,025	18,796	17,895		17,95
AK Target Date 2030 Trust		11,744	12,182	12,394	11,761		11,97′
AK Target Date 2035 Trust		6,910	7,082	7,175	7,003		7,24
AK Target Date 2040 Trust		7,998	8,245	8,258	7,661		7,798
AK Target Date 2045 Trust		5,688	5,882	6,020	5,585		5,69
AK Target Date 2050 Trust		3,958	4,104	4,123	3,927		4,16
AK Target Date 2055 Trust		4,248	4,300	4,309	3,993		4,05
AK Target Date 2060 Trust		399	873	885	871		89
State Street Global Advisors							
Money Market		13,653	13,538	13,947	13,871		13,71
Russell 3000 Index		43,890	45,212	46,616	44,549		45,32
US Real Estate Investment Trust Index		12,810	13,334	12,770	12,568		13,41
World Equity Ex-US Index		18,373	18,043	18,531	17,578		17,73
Long US Treasury Bond Index		5,169	-	-	-		-
US Treasury Inflation Protected Securities Index		13,533	14,313	15,603	15,686		15,91
World Government Bond Ex-US Index		4,626	-	-	-		-
Investments with BlackRock							
S&P 500 Index Fund		220,701	226,134	226,417	210,346		214,01
Passive U.S. Bond Index Fund		-	57,464	55,702	52,868		53,25
Government/Credit Bond Fund		27,364	-	-	-		-
Intermediate Bond Fund		22,131	-	-	-		-
Investments with Brandes/Baillie Gifford							
AK International Equity Fund		38,417	37,121	36,340	32,598		32,46
Investments with Northern Trust							
Environmental, Social, and Governance Fund	_	23,391	 23,420	 23,413	 21,103	. -	22,22
Total Invested Assets	\$	953,592	\$ 971,688	\$ 969,841	\$ 921,685	\$	931,86
Change in Invested Assets							
Beginning Assets	\$	938,807	\$ 953,592	\$ 971,688	\$ 969,841	\$	921,68
Investment Earnings		17,321	18,962	(977)	(46,214)		12,33
Net Contributions (Withdrawals)		(2,536)	 (866)	 (869)	 (1,943)		(2,15
Ending Invested Assets	\$	953,592	\$ 971,688	\$ 969,841	\$ 921,685	\$	931,86

Defined Contribution Retirement - Participant Directed PERS Schedule of Investment Income and Changes in Invested Assets for the Month Ended November 30, 2018

	Beginning Invest			Net Contributions		Ending Invested	% Change in Invested	% Change due to Investment
Participant Options	Assets	Investment I	ncome	(Withdrawals)	Transfers In (Out)	Assets	Assets	Income (1)
T. Rowe Price								
Stable Value Fund	\$ 43,006,34	0 \$ 8	8,677 \$	(80,530) \$	(91,070) \$	42,923,417	-0.19%	0.21%
Small Cap Stock Fund	¢ 13,000,3 70,927,82		2,758	304,170	230,158	72,994,913	2.91%	2.15%
Alaska Balanced Trust	26,475,70		4,985	73,473	(394,479)	26,389,745	-0.32%	0.89%
Long Term Balanced Fund	18,340,43		3,874	8,702	(228,449)	18,334,561	-0.03%	1.17%
AK Target Date 2010 Trust	2,475,09		3,496	28,039	(29,047)	2,497,580	0.91%	0.95%
AK Target Date 2015 Trust	11,559,70		0,996	(49,528)	(21,542)	11,609,688	0.43%	1.05%
AK Target Date 2020 Trust	31,732,90		6,986	367,273	(104,517)	32,372,702	2.02%	1.18%
AK Target Date 2025 Trust	50,610,1		0,797	642,566	(71,435)	51,842,082	2.43%	1.30%
AK Target Date 2030 Trust	52,673,9		1,716	545,915	(37,364)	53,924,186	2.37%	1.40%
AK Target Date 2035 Trust	62,955,3		6,347	805,278	(67,788)	64,639,150	2.67%	1.49%
AK Target Date 2040 Trust	74,522,10		1,960	927,905	(135,591)	76,486,375	2.64%	1.56%
AK Target Date 2045 Trust	95,950,18		0,711	1,149,463	(67,973)	98,572,389	2.73%	1.60%
AK Target Date 2050 Trust	113,789,65		9,553	1,488,314	(245,129)	116,862,393	2.70%	1.60%
AK Target Date 2055 Trust	95,643,20		5,378	1,539,546	(206,254)	98,511,938	3.00%	1.59%
AK Target Date 2060 Trust	910,03	51 1	4,970	20,887	(75,080)	870,828	-4.31%	1.70%
Total Investments with T. Rowe Price	751,572,83	11,03	3,204	7,771,473	(1,545,560)	768,831,947		
State Street Global Advisors								
Money Market	10,920,20	i0 1	9,139	(29,481)	(78,874)	10,831,044	-0.82%	0.18%
S&P 500 Stock Index Fund Series A	98,753,29		2,055	499,639	903,244	102,188,233	3.48%	2.04%
Russell 3000 Index	10,947,88	22	0,491	121,007	(85,849)	11,203,529	2.34%	2.01%
US Real Estate Investment Trust Index	15,381,90	94 74	4,556	67,402	(13,751)	16,180,111	5.19%	4.83%
World Equity Ex-US Index	46,658,44	-6 44	5,570	214,902	670,551	47,989,469	2.85%	0.95%
US Treasury Inflation Protected Securities Index	18,781,38	83 8	7,733	(3,107)	(39,369)	18,826,640	0.24%	0.47%
Total Investments with SSgA	201,443,1	3,54	9,544	870,362	1,355,952	207,219,026		
BlackRock								
Passive U.S. Bond Index Fund	40,665,4	5 24	1,231	66,276	(314,406)	40,658,516	-0.02%	0.60%
Brandes/Baillie Gifford								
AK International Equity Fund	41,822,90	61 (9	3,790)	240,646	342,830	42,312,647	1.17%	-0.22%
Northern Trust								
Environmental, Social, and Governance Fund	9,438,87	⁶ 35	6,823	69,472	161,184	10,026,355	6.22%	3.73%
Total All Funds	\$ 1,044,943,23	<u>50</u> \$ <u>15,08</u>	7,012 \$	9,018,229 \$	\$	1,069,048,491	2.31%	1.44%

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

November 30, 2018

\$ (Thousands)

Invested Assets (at fair value)	_	July	_	August	S	eptember		October		November
Investments with T. Rowe Price										
Alaska Money Market	\$	5,386	\$	-	\$	-	\$	-	\$	-
Stable Value Fund		-		14,421		27,852		43,006		42,923
Small Cap Stock Fund		78,194		80,707		78,140		70,928		72,995
Alaska Balanced Trust		27,299		27,398		27,772		26,476		26,390
Long Term Balanced Fund		24,785		23,022		21,415		18,340		18,335
AK Target Date 2010 Trust		2,508		2,531		2,485		2,475		2,498
AK Target Date 2015 Trust		11,859		12,041		12,061		11,560		11,610
AK Target Date 2020 Trust		32,186		32,603		32,961		31,733		32,373
AK Target Date 2025 Trust		51,239		52,236		52,640		50,610		51,842
AK Target Date 2030 Trust		54,629		55,604		55,869		52,674		53,924
AK Target Date 2035 Trust		64,604		65,985		66,600		62,955		64,639
AK Target Date 2040 Trust		76,369		78,405		79,081		74,522		76,486
AK Target Date 2045 Trust		98,208		100,893		102,389		95,950		98,572
AK Target Date 2050 Trust		116,864		119,654		121,128		113,790		116,862
AK Target Date 2055 Trust		95,705		98,774		100,844		95,643		98,512
AK Target Date 2060 Trust		815		862		993		910		871
State Street Global Advisors										
Money Market		4,623		10,005		10,109		10,920		10,831
S&P 500 Stock Index Fund Series A		98,610		102,254		104,741		98,753		102,188
Russell 3000 Index		10,944		11,591		11,693		10,948		11,204
US Real Estate Investment Trust Index		16,265		16,461		15,806		15,382		16,180
World Equity Ex-US Index		46,988		47,280		49,117		46,658		47,989
Long US Treasury Bond Index		1,210		-		-		-		-
US Treasury Inflation Protected Securities Index		14,922		16,824		17,904		18,781		18,827
World Government Bond Ex-US Index		7,351		-		-		-		-
Investments with BlackRock										
Government/Credit Bond Fund		49,222		-		-		-		-
Passive U.S. Bond Index Fund		-		68,174		55,842		40,665		40,659
Intermediate Bond Fund		22,335		-		-		-		-
Investments with Brandes/Baillie Gifford										
AK International Equity Fund		45,645		45,336		45,452		41,823		42,313
Investments with Northern Trust										
Environmental, Social, and Governance Fund		10,616	_	10,404	_	10,307	_	9,439	_	10,026
Total Invested Assets	\$	1,069,378	\$	1,093,466	\$	1,103,203	\$	1,044,943	\$	1,069,048
Change in Invested Assets										
Beginning Assets	\$	1,041,422	\$	1,069,378	\$	1,093,466	\$	1,103,203	\$	1,044,943
Investment Earnings		23,080		17,895		(334)		(66,086)		15,087
Net Contributions (Withdrawals)		4,876		6,192		10,071		7,826		9,018
Ending Invested Assets	\$	1,069,378	\$	1,093,466	\$	1,103,203	\$	1,044,943	\$	1,069,048

Defined Contribution Retirement - Participant Directed TRS Schedule of Investment Income and Changes in Invested Assets for the Month Ended November 30, 2018

		ginning Invested Assets	Investment Income	Net Contributions (Withdrawals) Transfers In (O		Ending Invested Assets	% Change in Invested Assets	% Change due to Investment Income (1)	
Participant Options								(_)	
T. Rowe Price									
Stable Value Fund	\$	17,254,122 \$	35,805 \$	(33,984) \$	229,137 \$	17,485,080	1.34%	0.21%	
Small Cap Stock Fund		30,706,827	661,961	(29,716)	29,307	31,368,379	2.15%	2.16%	
Alaska Balanced Trust		11,077,238	98,034	(8,763)	(209,175)	10,957,334	-1.08%	0.89%	
Long Term Balanced Fund		7,620,521	89,392	3,473	(65,815)	7,647,571	0.35%	1.18%	
AK Target Date 2010 Trust		725,098	6,931	(5,044)	-	726,985	0.26%	0.96%	
AK Target Date 2015 Trust		3,220,953	34,777	27,198	77,185	3,360,113	4.32%	1.06%	
AK Target Date 2020 Trust		9,600,314	114,290	75,159	(47,091)	9,742,672	1.48%	1.19%	
AK Target Date 2025 Trust		16,473,744	215,118	200,563	(128,282)	16,761,143	1.74%	1.30%	
AK Target Date 2030 Trust		19,384,069	275,403	99,536	(118,261)	19,640,747	1.32%	1.42%	
AK Target Date 2035 Trust		28,527,631	430,711	380,186	(3,044)	29,335,484	2.83%	1.50%	
AK Target Date 2040 Trust		30,213,766	477,706	399,011	1,540	31,092,023	2.91%	1.57%	
AK Target Date 2045 Trust		46,683,254	750,860	314,633	(139,121)	47,609,626	1.98%	1.61%	
AK Target Date 2050 Trust		65,045,822	1,049,395	330,939	58,747	66,484,903	2.21%	1.61%	
AK Target Date 2055 Trust		31,326,680	512,385	657,787	(12,128)	32,484,724	3.70%	1.62%	
AK Target Date 2060 Trust		237,687	3,823	2,026	-	243,536	2.46%	1.60%	
Total Investments with T. Rowe Price		318,097,726	4,756,591	2,413,004	(327,001)	324,940,320			
State Street Global Advisors									
Money Market		2,893,926	4,902	(43,646)	(108,740)	2,746,442	-5.10%	0.17%	
S&P 500 Stock Index Fund Series A		40,386,259	828,972	83,277	153,777	41,452,285	2.64%	2.05%	
Russell 3000 Index		3,504,712	72,264	29,830	27,477	3,634,283	3.70%	2.05%	
US Real Estate Investment Trust Index		6,212,207	301,142	2,150	61,002	6,576,501	5.86%	4.82%	
World Equity Ex-US Index		21,073,971	201,147	35,168	212,473	21,522,759	2.13%	0.95%	
US Treasury Inflation Protected Securities Index		6,938,854	32,255	(32,342)	(15,120)	6,923,647	-0.22%	0.47%	
Total Investments with SSgA		81,009,929	1,440,682	74,437	330,869	82,855,917			
BlackRock									
Passive U.S. Bond Index Fund		15,809,406	93,592	(9,058)	(97,769)	15,796,171	-0.08%	0.59%	
Brandes/Baillie Gifford AK International Equity Fund		18,707,496	(40,348)	51,438.00	63,101	18,781,687	0.40%	-0.22%	
Northern Trust Environmental, Social, and Governance Fund		3,858,489	144,862	13,319.00	30,800	4,047,470	4.90%	3.73%	
Total All Funds	\$	437,483,046 \$				446,421,565	2.04%	1.46%	

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

November 30, 2018

\$ (Thousands)

Invested Assets (at fair value)		July	 August	September	•	October		November
Investments with T. Rowe Price								
Alaska Money Market	\$	1,894	\$ -	\$ -	\$	-	\$	-
Stable Value Fund		-	5,764	10,959)	17,254		17,485
Small Cap Stock Fund		34,424	35,326	33,876)	30,707		31,368
Alaska Balanced Trust		11,394	11,458	11,456)	11,077		10,957
Long Term Balanced Fund		10,335	9,630	8,893	5	7,621		7,648
AK Target Date 2010 Trust		826	836	843	5	725		727
AK Target Date 2015 Trust		3,397	3,396	3,354	ŀ	3,221		3,360
AK Target Date 2020 Trust		9,951	9,943	9,992	2	9,600		9,743
AK Target Date 2025 Trust		16,938	17,131	17,113	3	16,474		16,761
AK Target Date 2030 Trust		20,121	20,288	20,233	5	19,384		19,641
AK Target Date 2035 Trust		29,766	29,990	30,167	7	28,528		29,335
AK Target Date 2040 Trust		31,409	31,857	32,148	8	30,214		31,092
AK Target Date 2045 Trust		48,740	49,511	49,641	-	46,683		47,610
AK Target Date 2050 Trust		68,156	69,233	69,024	ŀ	65,046		66,485
AK Target Date 2055 Trust		32,138	32,606	32,751		31,327		32,485
AK Target Date 2060 Trust		179	195	250)	238		244
State Street Global Advisors								
Money Market		690	2,573	2,677	,	2,894		2,746
S&P 500 Stock Index Fund Series A		41,127	42,492	42,944	ŀ	40,386		41,452
Russell 3000 Index		3,621	3,663	3,757	,	3,505		3,634
US Real Estate Investment Trust Index		6,751	6,695	6,396	<u>,</u>	6,212		6,577
World Equity Ex-US Index		21,323	21,370	22,069)	21,074		21,523
Long US Treasury Bond Index		306	-	-		_		-
US Treasury Inflation Protected Securities Index		5,367	6,094	6,486)	6,939		6,924
World Government Bond Ex-US Index		2,765	-	-		-		-
Investments with BlackRock								
Government/Credit Bond Fund		20,232	-	-		-		-
Passive U.S. Bond Index Fund		-	26,480	21,597	7	15,809		15,796
Intermediate Bond Fund		8,292	-	-		-		-
Investments with Brandes/Baillie Gifford								
AK International Equity Fund		20,619	20,325	20,320)	18,707		18,782
Investments with Northern Trust								
Environmental, Social, and Governance Fund	_	4,614	 4,398	4,270)	3,858		4,047
Total Invested Assets	\$	455,376	\$ 461,254	\$ 461,219	\$	437,483	\$	446,422
Change in Invested Assets								
Beginning Assets	\$	442,323	\$ 455,376	\$ 461,254	\$	461,219	\$	437,483
Investment Earnings		10,017	7,587	(129))	(28,187)		6,395
Net Contributions (Withdrawals)		3,036	 (1,709)		_	4,451	· _	2,543
Ending Invested Assets	\$	455,376	\$ 461,254	\$ 461,219	_ \$	437,483	\$	446,422