6/30/2016 FY 2015 - FY 2016

Plan Asset Allocation										
	MDEP	MTIP	MPEP	MTRP	RFBP	STIP	Total			
Public Employees Retirement	37.7%	15.4%	11.1%	9.3%	23.6%	2.8%	5,024,726,833			
Teachers Retirement	37.8%	15.5%	11.2%	9.3%	23.7%	2.7%	3,624,745,324			
Firefighters Retirement	37.7%	15.4%	11.1%	9.3%	23.6%	2.8%	337,325,464			
Police Retirement	37.7%	15.4%	11.1%	9.3%	23.6%	2.9%	329,527,987			
Sheriffs Retirement	37.7%	15.5%	11.2%	9.3%	23.7%	2.7%	298,638,458			
Game Wardens Retirement	37.6%	15.4%	11.1%	9.2%	23.6%	3.1%	154,411,520			
Highway Patrol Retirement	37.6%	15.4%	11.1%	9.2%	23.6%	3.1%	128,572,000			
Judges Retirement	37.7%	15.4%	11.1%	9.3%	23.6%	2.9%	87,451,667			
Vol. Firefighters Retirement	35.8%	14.6%	10.6%	8.8%	22.4%	7.8%	33,622,275			
06/30/2016	37.7%	15.4%	11.1%	9.3%	23.6%	2.8%	10,019,021,528			
Approved Ranges	28 - 44%	14 - 22%	9 - 15%	6-10%	22 - 30%	1 - 5%				

Allocation Changes from Last Period										
	MDEP	MTIP	MPEP	MTRP	RFBP	STIP	Total			
Public Employees Retirement	(2.0%)	(1.2%)	0.5%	0.4%	1.3%	1.1%	(25,691,719)			
Teachers Retirement	(1.9%)	(1.1%)	0.5%	0.4%	1.3%	0.8%	(53,657,185)			
Firefighters Retirement	(2.0%)	(1.2%)	0.5%	0.4%	1.3%	1.0%	10,560,886			
Police Retirement	(2.1%)	(1.2%)	0.4%	0.4%	1.2%	1.3%	8,295,505			
Sheriffs Retirement	(1.8%)	(1.1%)	0.5%	0.4%	1.4%	0.6%	3,285,032			
Game Wardens Retirement	(2.0%)	(1.2%)	0.5%	0.4%	1.3%	0.9%	6,230,471			
Highway Patrol Retirement	(2.2%)	(1.3%)	0.4%	0.4%	1.2%	1.5%	158,183			
Judges Retirement	(1.9%)	(1.1%)	0.5%	0.4%	1.3%	0.8%	635,782			
Vol. Firefighters Retirement	(1.8%)	(1.1%)	0.5%	0.4%	1.2%	0.9%	(329,473)			
Increase (Decrease) From FY 2015	(2.0%)	(1.2%)	0.5%	0.4%	1.3%	0.9%	(50,512,518)			

Pension and Pool Cash Exposure											
	MDEP	MTIP	MPEP	MTRP	RFBP	STIP	Total				
As Percent of Pool	2.9%	1.8%	5.5%	3.2%	0.7%	100%					
As Percent of Pension	1.1%	0.3%	0.6%	0.3%	0.2%	2.8%	5.2%				
In Dollars	107,927,321	27,567,505	61,746,246	29,499,934	16,445,644	280,410,795	523,597,444				
6/30/2016	3,777,649,896	1,546,568,510	1,116,978,237	928,406,582	2,369,007,508	280,410,795	10,019,021,528				

Net Plan Contributions (Distributions)

	MDEP	MTIP	MPEP	MTRP	RFBP	STIP	Total
Public Employees Retirement	(135,963,671)	11,774,680	(10,859,937)	(34,928,224)	(9,343,483)	52,497,968	(126,822,667)
Teachers Retirement	(106,043,963)	5,841,802	(10,609,014)	(28,024,987)	(12,182,013)	25,918,175	(125,100,000)
Firefighters Retirement	(4,518,968)	2,614,051	667,352	(1,236,244)	2,169,300	3,558,011	3,253,503
Police Retirement	(5,607,156)	2,076,392	328,564	(1,482,323)	1,451,729	4,420,253	1,187,460
Sheriffs Retirement	(5,692,689)	1,667,694	59,561	(1,504,461)	863,261	1,831,671	(2,774,963)
Game Wardens Retirement	(1,391,080)	1,472,523	457,798	(387,180)	1,343,685	1,569,986	3,065,732
Highway Patrol Retirement	(3,401,604)	330,452	(255,891)	(876,398)	(189,724)	1,948,009	(2,445,156)
Judges Retirement	(1,862,741)	406,385	(45,268)	(491,715)	128,521	722,970	(1,141,848)
Vol. Firefighters Retirement	(883,082)	80,519	(88,367)	(244,593)	(91,345)	275,996	(950,871)
6/30/2015 - 06/30/2016	(265,364,954)	26,264,499	(20,345,201)	(69,176,124)	(15,850,069)	92,743,039	(251,728,810)

Pool Changes from Last Period											
	MDEP	MTIP	MPEP	MTRP	RFBP	STIP	Total				
6/30/2015	3,993,206,916	1,671,724,751	1,074,507,359	892,097,470	2,251,249,144	186,748,405	10,069,534,046				
Dollar Value Added	49,807,934	(151,420,740)	62,816,078	105,485,236	133,608,432	919,351	201,216,292				
Dividend and Interest Distributed	(17,864,954)	(9,235,501)	(4,345,201)	(34, 176, 124)	(70,850,069)	(919,351)	(137,391,200)				
Pools Bought (Sold)	(247,500,000)	35,500,000	(16,000,000)	(35,000,000)	55,000,000	93,662,390	(114,337,610)				
6/30/2016	3,777,649,896	1,546,568,510	1,116,978,237	928,406,582	2,369,007,508	280,410,795	10,019,021,528				
\$ Change From 6/30/2015	(215,557,020)	(125,156,241)	42,470,878	36,309,112	117,758,364	93,662,390	(50,512,518)				
% Change From 6/30/2015	(5.4%)	(7.5%)	4.0%	4.1%	5.2%	50.2%	(0.5%)				

Montana Board of Investments Comparative Performance Retirement Plans

	QTD	CYTD	FYTD/ 1 Year	3 Years	5 Years	7 Years	10 Years	2015	2014	2013	2012	2011
Public Employees' Retirement - Net	1.58	2.84	2.07	7.74	7.68	10.33	5.89	1.86	8.07	17.38	13.24	2.13
Public Employees' Benchmark	1.88	4.28	2.84	8.51	8.32	11.04	6.22	1.40	9.08	17.94	14.88	1.67
Difference	-0.30	-1.44	-0.77	-0.77	-0.64	-0.71	-0.33	0.46	-1.01	-0.56	-1.64	0.46
Public Employees' Retirement - Gross	1.71	3.08	2.51	8.24	8.21	10.90	6.40	2.31	8.61	17.96	13.83	2.68
All Public Plans > \$3B Total Fund Median	1.79	2.84	0.55	6.27	6.40	9.20	5.59	0.33	6.81	14.65	13.08	1.24
Rank	54	38	7	1	1	2	6	7	8	6	32	32
Teachers' Retirement - Net	1.59	2.86	2.08	7.75	7.69	10.34	5.89	1.86	8.09	17.38	13.24	2.14
Teachers' Benchmark	1.88	4.28	2.82	8.52	8.32	11.04	6.22	1.40	9.11	17.94	14.89	1.66
Difference	-0.29	-1.42	-0.74	-0.77	-0.63	-0.70	-0.33	0.46	-1.02	-0.56	-1.65	0.48
Teachers' Retirement - Gross	1.71	3.11	2.52	8.26	8.22	10.91	6.41	2.32	8.63	17.96	13.84	2.68
All Public Plans > \$3B Total Fund Median	1.79	2.84	0.55	6.27	6.40	9.20	5.59	0.33	6.81	14.65	13.08	1.24
Rank	54	36	7	1	1	2	6	7	8	6	32	31
Police Retirement - Net	1.58	2.85	2.09	7.75	7.68	10.31	5.85	1.86	8.07	17.41	13.23	2.10
Police Benchmark	1.88	4.28	2.84	8.51	8.31	11.00	6.16	1.41	9.10	17.92	14.80	1.66
Difference	-0.30	-1.43	-0.75	-0.76	-0.63	-0.69	-0.31	0.45	-1.03	-0.51	-1.57	0.44
Police Retirement - Gross	1.71	3.10	2.53	8.26	8.20	10.87	6.36	2.31	8.61	18.00	13.78	2.65
All Public Plans > \$3B Total Fund Median	1.79	2.84	0.55	6.27	6.40	9.20	5.59	0.33	6.81	14.65	13.08	1.24
Rank	54	37	7	1	1	2	7	7	8	5	36	34

