





PERIOD ENDING: JULY 31, 2016

Participant Plan Performance Review for

West Virginia Investment Management Board

	6/30/2016 7/31/2016					Performance %							
	Asset (\$000)	%	Asset (\$000)	%	1 Month	3 Month	FYTD	1 Year	3 Year	5 Year	10 Year		
WVIMB Fund Assets	16,747,244	100.0	16,996,818	100.0									
Pension Assets	13,230,134	79.0	13,551,977	79.7									
Public Employees' Retirement System	5,597,558	33.4	5,748,789	33.8	2.9	3.4	2.9	2.5	7.0	7.6	6.4		
Teachers' Retirement System	6,513,312	38.9	6,655,074	39.2	2.9	3.3	2.9	2.4	7.0	7.5	6.1		
EMS Retirement System	58,844	0.4	60,700	0.4	2.9	3.4	2.9	2.5	7.0	7.5			
Public Safety Retirement System	578,762	3.5	591,740	3.5	2.8	3.3	2.8	2.5	7.0	7.6	6.4		
Judges' Retirement System	167,178	1.0	171,661	1.0	2.9	3.4	2.9	2.5	7.0	7.6	6.4		
State Police Retirement System	138,127	8.0	142,435	8.0	2.9	3.4	2.9	2.5	7.0	7.5	6.4		
Deputy Sheriffs' Retirement System	171,949	1.0	176,966	1.0	2.9	3.4	2.9	2.5	7.0	7.6	6.4		
Municipal Police & Firefighter Retirement System	3,080	0.0	3,249	0.0	2.8	3.3	2.8	2.3	6.7	7.7			
Municipal Model A	1,324	0.0	1,363	0.0	2.9	3.3	2.9	2.4	6.8				
Insurance Assets	2,545,860	15.2	2,559,336	15.1									
Workers' Compensation Old Fund	1,284,843	7.7	1,304,523	7.7	2.1	2.7	2.1	3.4	4.1	4.3	4.5		
Workers' Comp. Self-Insured Guaranty Risk Pool	33,418	0.2	34,035	0.2	2.1	2.5	2.1	1.7	4.1	4.5	3.9		
Workers' Comp. Self-Insured Security Risk Pool	53,881	0.3	54,769	0.3	2.1	2.6	2.1	1.9					
Workers' Comp. Uninsured Employers' Fund	10,841	0.1	11,058	0.1	2.0	2.2	2.0	1.3	3.8	4.3	3.7		
Pneumoconiosis	246,635	1.5	250,846	1.5	2.1	2.4	2.1	1.5	4.0	4.4	4.8		
Board of Risk & Insurance Management	132,322	8.0	135,063	8.0	2.1	2.4	2.1	1.4	4.0	4.5	5.3		
Public Employees' Insurance Agency	176,829	1.0	144,243	0.8	2.0	2.4	2.0	1.6	4.1	4.7	5.0		
WV Retiree Health Benefit Trust Fund	607,091	3.6	624,799	3.7	2.9	3.4	2.9	2.6	7.0	7.4			
Endowment Assets	971,250	5.8	885,505	5.2									
Berkeley County Development Authority	6,089	0.0	6,266	0.0	2.9	3.4	2.9						
Wildlife Fund	54,571	0.3	56,194	0.3	2.9	3.4	2.9	2.6	7.0	7.5	6.4		
Prepaid Tuition Trust	54,948	0.3	53,368	0.3	2.7	3.1	2.7	4.1	6.2	6.6	6.2		
Revenue Shortfall Reserve Fund	336,013	2.0	238,361	1.4	0.9	1.9	0.9	4.0	2.8	2.8	2.7		
Revenue Shortfall Reserve Fund - Part B	390,670	2.4	399,066	2.4	2.1	2.8	2.1	3.6	4.1	4.4	4.0		
WV DEP Trust	7,808	0.1	8,072	0.1	3.4	3.0	3.4	0.3	5.7	6.8			
WV DEP Agency	121,151	0.7	124,178	0.7	2.5	2.7	2.5	1.5					



		_	Performance %									
_	Asset (\$000)	%	1 Month	3 Month	FYTD	1 Year	3 Year	5 Year	10 Year			
Investment Pools Composite	17,008,092	100.00										
Total Equity Composite +/- Total Equity Policy Index (b)	8,564,601	50.35	4.72 0.21	3.72 (0.20)	4.72 0.21	0.68 <i>0.58</i>	6.99 <i>0.60</i>	8.24 <i>0.76</i>	6.22 1.17			
US Equity Composite +/- Russell 3000 Index	4,088,238	24.04	3.55 (0.42)	5.61 <i>(0.44)</i>	3.55 (0.42)	3.03 <i>(1.41)</i>	10.41 <i>(0.18)</i>	12.91 <i>(0.08)</i>	7.82 <i>0.00</i>			
Large Cap Composite +/- S&P 500 Index	3,275,499	19.25	3.08 <i>(0.61)</i>	5.75 (0.07)	3.08 <i>(0.61)</i>	4.75 (0.86)	11.41 <i>0.25</i>	13.52 <i>0.14</i>	7.82 <i>0.07</i>			
Non-Large Cap Composite +/- Russell 2500 Index	812,739	4.79	5.48 <i>0.2</i> 6	5.01 (2.38)	5.48 <i>0.26</i>	(4.46) (6.00)	6.35 (1.81)	10.34 <i>(1.12)</i>	7.86 <i>(0.35)</i>			
International Equity Composite +/- MSCI AC World ex US IMI Index (c,	4,476,363)	26.31	5.82 <i>0.7</i> 6	1.95 <i>0.16</i>	5.82 <i>0.76</i>	(1.73) 2.41	3.40 1.17	3.50 1.43	4.84 1.99			
Fixed Income Composite +/- Barclays Capital Universal (d)	3,268,095	19.22	1.13 <i>0.31</i>	2.39 (0.29)	1.13 <i>0.31</i>	4.54 (1.53)	3.87 <i>(0.50)</i>	3.85 (0.01)	5.00 (0.31)			
Core Fixed Income +/- Barclays Capital Aggregate	1,020,535	6.01	0.62 (0.01)	2.48 <i>0.01</i>	0.62 (0.01)	6.11 <i>0.17</i>	4.61 <i>0.</i> 38	4.13 <i>0.56</i>				
Total Return Fixed Income +/- Barclays Capital Universal	2,247,560	13.21	1.36 <i>0.54</i>	2.36 (0.32)	1.36 <i>0.54</i>	3.83 (2.24)	3.54 (0.83)	3.74 (0.12)	5.18 (0.07)			
TIPS Composite +/- Barclays Capital U.S.TIPS	379,452	2.23	0.87 0.00	2.22 (0.01)	0.87 <i>0.00</i>	5.00 <i>(0.04)</i>	2.33 (0.03)	2.01 <i>(</i> 0.01)				
Cash Composite +/- Citigroup 90 Day T-Bill (e)	199,871	1.18	0.03 <i>0.01</i>	0.08 <i>0.01</i>	0.03 <i>0.01</i>	0.25 <i>0.06</i>	0.15 <i>0.05</i>	0.15 <i>0.00</i>	1.11 <i>0.01</i>			
Private Equity Composite +/- Russell 3000 + 3% (f, g)	1,446,206	8.50	0.68	5.26	0.68	8.17	13.55	12.12 <i>(4.80)</i>				
Real Estate Composite +/- NCREIF + 1% (f)	1,535,693	9.03	0.33	3.72	0.33	10.56	10.75	9.94 <i>(2.85)</i>				
Hedge Fund Composite +/- HFRI FOF + 1% (h)	1,614,174	9.49	0.99 (0.61)	1.28 (0.52)	0.99 (0.61)	(3.91) (0.76)	3.23 1.14	4.07 1.07				



	Domestic		Int'l Eq Actual % S		Fixed In Actual %			Equity Strategy %	Real E		Hedge F Actual % St		Cash	
Pension Assets														
Public Employees' Retirement System	25.9	27.5	28.5	27.5	13.8	15.0	10.2	10.0	10.8	10.0	10.5	10.0	0.3	0.0
Teachers' Retirement System	26.2	27.5	28.4	27.5	13.2	15.0	10.1	10.0	10.9	10.0	10.1	10.0	1.1	0.0
EMS Retirement System	26.1	27.5	28.4	27.5	13.8	15.0	10.1	10.0	10.1	10.0	10.6	10.0	0.9	0.0
Public Safety Retirement System	25.8	27.5	28.2	27.5	13.1	15.0	10.0	10.0	10.9	10.0	9.8	10.0	2.2	0.0
Judges' Retirement System	26.3	27.5	28.7	27.5	13.9	15.0	10.2	10.0	10.1	10.0	10.7	10.0	0.1	0.0
State Police Retirement System	26.1	27.5	28.5	27.5	14.1	15.0	10.1	10.0	10.0	10.0	10.7	10.0	0.5	0.0
Deputy Sheriffs' Retirement System	26.2	27.5	28.5	27.5	13.6	15.0	10.1	10.0	10.4	10.0	10.7	10.0	0.5	0.0
Municipal Police & Firefighter Retirement System	25.7	27.5	27.7	27.5	13.8	15.0	9.8	10.0	9.6	10.0	10.0	10.0	3.4	0.0
Municipal Model A	26.3	27.5	28.4	27.5	13.1	15.0	10.1	10.0	10.1	10.0	10.8	10.0	1.2	0.0
Insurance Assets														
Workers' Compensation Old Fund	14.4	15.0	16.3	15.0	65.3	70.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0
Workers' Comp. Self-Insured Guaranty Risk Pool	14.3	15.0	16.3	15.0	43.3	45.0	0.0	0.0	0.0	0.0	22.1	20.0	4.0	5.0
Workers' Comp. Self-Insured Security Risk Pool	14.3	15.0	16.6	15.0	45.2	45.0	0.0	0.0	0.0	0.0	20.2	20.0	3.7	5.0
Workers' Comp. Uninsured Employers Fund	14.0	15.0	15.9	15.0	38.5	40.0	0.0	0.0	0.0	0.0	21.8	20.0	9.8	10.0
Pneumoconiosis	14.5	15.0	16.1	15.0	44.8	45.0	0.0	0.0	0.0	0.0	20.2	20.0	4.4	5.0
Board of Risk & Insurance Mgmt.	14.3	15.0	16.0	15.0	43.2	45.0	0.0	0.0	0.0	0.0	21.5	20.0	5.0	5.0
Public Employees' Insurance Agency	14.5	15.0	16.1	15.0	48.0	50.0	0.0	0.0	0.0	0.0	14.7	20.0	6.7	0.0
WV Retiree Health Benefit Trust Fund	26.2	27.5	28.9	27.5	13.6	15.0	10.2	10.0	10.4	10.0	10.7	10.0	0.0	0.0
Endowment Assets														
Berkeley County Development Authority	26.2	27.5	28.7	27.5	13.6	15.0	10.2	10.0	10.6	10.0	10.7	10.0	0.0	0.0
Wildlife Fund	26.0	27.5	28.8	27.5	13.8	15.0	10.2	10.0	10.5	10.0	10.6	10.0	0.1	0.0
Prepaid Tuition Trust	27.2	27.5	23.0	22.5	47.9	50.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.0
Revenue Shortfall Reserve Fund	0.0	0.0	0.0	0.0	100.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Revenue Shortfall Reserve Fund - Part B	14.3	15.0	16.0	15.0	69.7	70.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WV DEP Trust	30.2	32.5	34.3	32.5	14.4	15.0	0.0	0.0	0.0	0.0	21.1	20.0	0.0	0.0
WV DEP Agency	18.6	20.0	21.4	20.0	37.8	40.0	0.0	0.0	0.0	0.0	21.3	20.0	0.9	0.0



- (a) As of January 2014, the PERS Policy is 30% Russell 3000, 30% MSCIACW ex USA (IMI), and 40% Barclays Capital Universal. From April 2008 to December 2013, the PERS Policy was 30% Russell 3000, 30% MSCIACW ex USA (Standard), and 40% Barclays Capital Universal. Prior periods were 42% Russell 3000, 18% MSCIACW ex USA, and 40% Barclays Capital Aggregate.
- (b) As of January 2014, the Total Equity Policy Index is 50% Russell 3000 and 50% MSCI ACW ex USA (IMI). From April 2008 to December 2013, the Total Equity Policy Index was 50% Russell 3000 and 50% MSCI ACW ex USA (Standard). Prior periods were 40% S&P 500, 30% Russell 2500, and 30% MSCI ACW ex USA.
- (c) Prior to January 2014, the index was the MSCI ACW ex USA (Standard).
- (d) Prior to April 2008, the index was Barclays Capital Aggregate.
- (e) Prior to January 2014, the index was Citigroup 90 Day T-Bill plus 15 basis points.
- (f) The Private Equity Composite and Real Estate Composite are long-term programs whose benchmarks are only reported for 5 years and beyond.
- (g) Prior to January 2014, the index was S&P 500 plus 500 basis points.
- (h) Prior to January 2014, the index was Libor plus 400 basis points.
- (i) Franklin Benchmark is 50% JPM EMBI Global Diversified and 50% JPM GBI EM Diversified.
- (j) Prior to April 2008, the index was a custom index.

Note: Participant returns are net of fees. Portfolio returns are net of management fees. Returns shorter than one year are unannualized.



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