



**PERSPECTIVES
THAT DRIVE
ENTERPRISE
SUCCESS**



PERIOD ENDING: APRIL 30, 2016

Participant Plan Performance Review for

West Virginia Investment Management Board

Participant Plans Allocation & Performance Net of Fees

Period Ending: April 30, 2016

	6/30/2015		4/30/2016		Performance %						
	Asset (\$000)	%	Asset (\$000)	%	1 Month	3 Month	FYTD	1 Year	3 Year	5 Year	10 Year
WVIMB Fund Assets	17,180,853	100.0	16,677,978	100.0							
Pension Assets	13,635,608	79.4	13,145,373	78.8							
Public Employees' Retirement System	5,742,388	33.5	5,604,781	33.6	1.4	6.4	(0.5)	(1.1)	6.1	6.6	5.8
Teachers' Retirement System	6,753,118	39.3	6,434,150	38.6	1.3	6.3	(0.6)	(1.1)	6.0	6.5	5.5
EMS Retirement System	56,547	0.3	58,215	0.4	1.3	6.3	(0.6)	(1.1)	6.1	6.5	
Public Safety Retirement System	607,339	3.5	569,849	3.4	1.4	6.4	(0.5)	(1.0)	6.1	6.6	5.8
Judges' Retirement System	170,727	1.0	166,922	1.0	1.4	6.4	(0.5)	(1.0)	6.1	6.6	5.8
State Police Retirement System	131,954	0.8	136,314	0.8	1.3	6.3	(0.5)	(1.0)	6.1	6.6	5.8
Deputy Sheriffs' Retirement System	170,181	1.0	170,847	1.0	1.3	6.4	(0.5)	(1.1)	6.1	6.6	5.8
Municipal Police & Firefighter Retirement System	1,944	0.0	2,954	0.0	1.3	6.0	(0.6)	(1.1)	5.8	7.0	
Municipal Model A	1,410	0.0	1,341	0.0	1.3	6.2	(0.7)	(1.1)			
Insurance Assets	2,550,823	14.8	2,569,693	15.4							
Workers' Compensation Old Fund	1,290,486	7.5	1,309,578	7.8	1.2	5.0	1.0	(0.3)	2.6	3.8	4.2
Workers' Comp. Self-Insured Guaranty Risk Pool	15,756	0.1	33,880	0.2	1.1	4.2	(0.5)	(1.6)	2.8	4.0	3.8
Workers' Comp. Self-Insured Security Risk Pool	9,046	0.0	54,556	0.3	1.1	4.3	(0.4)	(1.5)			
Workers' Comp. Uninsured Employers' Fund	10,889	0.1	10,815	0.1	1.1	4.0	(0.7)	(1.7)	2.7	3.8	3.6
Pneumoconiosis	261,369	1.5	248,634	1.5	1.1	4.2	(0.6)	(1.7)	2.8	3.9	4.6
Board of Risk & Insurance Management	137,824	0.8	131,891	0.8	1.1	4.2	(0.7)	(1.8)	2.7	4.0	5.1
Public Employees' Insurance Agency	218,202	1.3	176,156	1.1	1.2	4.3	(0.5)	(1.6)	2.9	4.4	4.8
WV Retiree Health Benefit Trust Fund	607,251	3.5	604,183	3.6	1.3	6.4	(0.5)	(1.0)	6.0	6.4	
Endowment Assets	994,422	5.8	962,912	5.8							
Berkeley County Development Authority	-	0.0	6,062	0.1	1.4	6.4					
Wildlife Fund	54,655	0.3	54,225	0.3	1.3	6.4	(0.5)	(1.0)	6.0	6.5	5.8
Prepaid Tuition Trust	66,440	0.4	54,727	0.3	1.3	6.0	1.7	0.5	5.2	5.7	5.7
Revenue Shortfall Reserve Fund	376,714	2.2	332,734	2.0	0.7	2.9	2.3	1.1	0.6	3.0	
Revenue Shortfall Reserve Fund - Part B	384,146	2.2	388,176	2.3	1.2	5.1	1.0	(0.3)	2.5	4.0	
WV DEP Trust	8,254	0.1	7,838	0.1	1.4	6.5	(2.3)	(3.8)	4.8		
WV DEP Agency	104,213	0.6	119,150	0.7	1.3	5.0	(1.0)	(2.2)			

Composite Asset Allocation & Performance Net of Fees

Period Ending: April 30, 2016

	Asset (\$000)	%	Performance %						
			1 Month	3 Month	FYTD	1 Year	3 Year	5 Year	10 Year
Investment Pools Composite	16,687,821	100.00							
Total Equity Composite +/- Total Equity Policy Index (b)	8,494,239	50.90	1.69 0.01	9.57 0.62	(2.61) 0.48	(4.70) 0.41	6.45 0.69	6.42 0.92	5.37 1.18
US Equity Composite +/- Russell 3000 Index	4,061,090	24.33	0.39 (0.23)	7.11 (0.56)	(0.50) (0.64)	(0.90) (0.72)	10.72 (0.05)	10.54 0.04	6.84 (0.01)
Large Cap Composite +/- S&P 500 Index	3,254,887	19.50	0.03 (0.36)	6.44 (0.61)	1.51 (0.38)	0.83 (0.38)	11.47 0.21	11.20 0.18	6.96 0.05
Non-Large Cap Composite +/- Russell 2500 Index	806,203	4.83	1.84 0.37	9.94 (0.76)	(9.06) (3.44)	(8.41) (4.14)	7.39 (1.18)	7.90 (0.38)	6.69 0.10
International Equity Composite +/- MSCI AC World ex US IMI Index (c)	4,433,149	26.57	2.92 0.18	11.96 1.73	(4.89) 1.39	(8.49) 1.39	2.11 1.28	2.18 1.60	4.04 1.76
Fixed Income Composite +/- Barclays Capital Universal (d)	3,254,369	19.50	1.30 0.62	3.20 0.56	2.48 (1.43)	1.73 (0.84)	2.30 (0.07)	3.66 (0.16)	4.90 (0.28)
Core Fixed Income +/- Barclays Capital Aggregate	974,855	5.84	0.50 0.12	2.11 0.09	4.19 0.09	3.40 0.68	2.83 0.54	4.19 0.59	
Total Return Fixed Income +/- Barclays Capital Universal	2,279,514	13.66	1.65 0.97	3.66 1.02	1.70 (2.21)	0.96 (1.61)	2.08 (0.29)	3.42 (0.40)	5.09 (0.02)
TIPS Composite +/- Barclays Capital U.S. TIPS	385,615	2.31	0.36 0.02	3.30 0.01	2.96 0.00	1.12 0.01	(0.88) (0.02)	2.56 (0.02)	
Cash Composite +/- Citigroup 90 Day T-Bill (e)	184,911	1.11	0.03 0.01	0.08 0.01	0.17 0.05	0.19 0.07	0.14 0.05	0.13 (0.01)	1.24 0.02
Private Equity Composite +/- Russell 3000 + 3% (f, g)	1,366,792	8.19	1.24	4.57	2.69	7.84	11.60	12.47 (2.15)	
Real Estate Composite +/- NCREIF + 1% (f)	1,482,354	8.88	0.56	3.05	7.19	10.20	9.82	9.62 (3.47)	
Hedge Fund Composite +/- HFRI FOF + 1% (h)	1,519,541	9.11	0.66 0.12	(0.55) (0.69)	(4.93) (0.30)	(4.93) (0.43)	3.00 1.16	3.60 0.75	

Participant Plans Allocation vs. Strategy

Period Ending: April 30, 2016

	Domestic Equity		Int'l Equity		Fixed Income		Private Equity		Real Estate		Hedge Funds		Cash	
	Actual %	Strategy %	Actual %	Strategy %	Actual %	Strategy %	Actual %	Strategy %	Actual %	Strategy %	Actual %	Strategy %	Actual %	Strategy %

Pension Assets

Public Employees' Retirement System	26.5	27.5	29.1	27.5	13.6	15.0	9.9	10.0	10.6	10.0	9.8	10.0	0.5	0.0
Teachers' Retirement System	26.5	27.5	29.0	27.5	13.4	15.0	9.9	10.0	10.8	10.0	10.0	10.0	0.4	0.0
EMS Retirement System	26.9	27.5	28.7	27.5	14.3	15.0	9.8	10.0	10.2	10.0	9.4	10.0	0.7	0.0
Public Safety Retirement System	26.4	27.5	29.3	27.5	13.3	15.0	9.9	10.0	10.9	10.0	9.9	10.0	0.3	0.0
Judges' Retirement System	26.7	27.5	29.1	27.5	13.7	15.0	9.9	10.0	10.7	10.0	9.7	10.0	0.2	0.0
State Police Retirement System	26.8	27.5	28.7	27.5	14.3	15.0	9.8	10.0	10.2	10.0	9.4	10.0	0.8	0.0
Deputy Sheriffs' Retirement System	26.8	27.5	28.9	27.5	14.1	15.0	9.8	10.0	10.4	10.0	9.6	10.0	0.4	0.0
Municipal Police & Firefighter Retirement System	26.3	27.5	27.2	27.5	13.9	15.0	9.3	10.0	9.2	10.0	9.1	10.0	5.0	0.0
Municipal Model A	27.3	27.5	29.2	27.5	13.3	15.0	9.8	10.0	10.4	10.0	9.5	10.0	0.5	0.0

Insurance Assets

Workers' Compensation Old Fund	15.1	15.0	16.2	15.0	65.9	70.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0
Workers' Comp. Self-Insured Guaranty Risk Pool	14.6	15.0	15.6	15.0	42.7	45.0	0.0	0.0	0.0	0.0	19.1	20.0	8.0	5.0
Workers' Comp. Self-Insured Security Risk Pool	15.2	15.0	16.2	15.0	44.7	45.0	0.0	0.0	0.0	0.0	20.0	20.0	3.9	5.0
Workers' Comp. Uninsured Employers Fund	15.1	15.0	16.1	15.0	39.6	40.0	0.0	0.0	0.0	0.0	19.3	20.0	9.9	10.0
Pneumoconiosis	15.1	15.0	16.3	15.0	44.5	45.0	0.0	0.0	0.0	0.0	19.8	20.0	4.3	5.0
Board of Risk & Insurance Mgmt.	15.0	15.0	16.1	15.0	44.4	45.0	0.0	0.0	0.0	0.0	19.4	20.0	5.1	5.0
Public Employees' Insurance Agency	15.1	15.0	16.3	15.0	47.7	50.0	0.0	0.0	0.0	0.0	20.5	20.0	0.4	0.0
WV Retiree Health Benefit Trust Fund	26.7	27.5	29.0	27.5	14.3	15.0	9.9	10.0	10.5	10.0	9.6	10.0	0.0	0.0

Endowment Assets

Berkeley County Development Authority	26.5	27.5	29.0	27.5	14.4	15.0	9.9	10.0	10.5	10.0	9.6	10.0	0.1	0.0
Wildlife Fund	26.7	27.5	29.0	27.5	14.3	15.0	9.8	10.0	10.5	10.0	9.6	10.0	0.1	0.0
Prepaid Tuition Trust	27.7	27.5	23.6	22.5	46.6	50.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0
Revenue Shortfall Reserve Fund	0.0	0.0	0.0	0.0	80.8	100.0	0.0	0.0	0.0	0.0	0.0	0.0	19.2	0.0
Revenue Shortfall Reserve Fund - Part B	15.0	15.0	16.0	15.0	68.7	70.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0
WV DEP Trust	31.7	32.5	34.4	32.5	14.2	15.0	0.0	0.0	0.0	0.0	19.6	20.0	0.1	0.0
WV DEP Agency	19.9	20.0	20.8	20.0	39.0	40.0	0.0	0.0	0.0	0.0	18.9	20.0	1.4	0.0

- (a) As of January 2014, the PERS Policy is 30% Russell 3000, 30% MSCI ACW ex USA (IMI), and 40% Barclays Capital Universal. From April 2008 to December 2013, the PERS Policy was 30% Russell 3000, 30% MSCI ACW ex USA (Standard), and 40% Barclays Capital Universal. Prior periods were 42% Russell 3000, 18% MSCI ACW 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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