



**PERSPECTIVES  
THAT DRIVE  
ENTERPRISE  
SUCCESS**



**PERIOD ENDING: JUNE 30, 2020**

Participant Plan Performance Review for

**West Virginia Investment Management Board**

# Participant Plans Allocation & Performance Net of Fees

Period Ending: June 30, 2020

	6/30/2019		6/30/2020		Performance %							
	Asset (\$000)	%	Asset (\$000)	%	1 Month	3 Month	FYTD	1 Year	3 Year	5 Year	10 Year	20 Year
<b>WVIMB Fund Assets</b>	<b>19,986,151</b>	<b>100.0</b>	<b>20,136,091</b>	<b>100.0</b>								
<b>Pension Assets</b>	<b>16,174,170</b>	<b>80.9</b>	<b>16,181,269</b>	<b>80.4</b>								
Public Employees' Retirement System	6,895,387	34.5	6,899,129	34.3	3.7	11.5	3.2	3.2	6.3	6.8	8.9	6.6
Teachers' Retirement System	7,836,784	39.1	7,820,075	38.8	3.7	11.5	3.2	3.2	6.3	6.8	8.9	6.4
EMS Retirement System	84,650	0.4	88,627	0.4	3.7	11.6	3.3	3.3	6.3	6.8	8.9	
Public Safety Retirement System	689,820	3.5	675,608	3.4	3.7	11.5	3.2	3.2	6.3	6.8	8.9	6.6
Judges' Retirement System	212,655	1.1	215,698	1.1	3.7	11.6	3.3	3.3	6.3	6.8	8.9	6.6
State Police Retirement System	207,101	1.0	220,921	1.1	3.7	11.6	3.3	3.3	6.3	6.8	8.9	6.6
Deputy Sheriffs' Retirement System	232,576	1.2	239,121	1.2	3.7	11.6	3.3	3.3	6.3	6.8	8.9	6.6
Municipal Police & Firefighter Retirement System	11,090	0.1	14,669	0.1	3.6	11.7	3.4	3.4	6.3	6.7	6.9	
Municipal Model A	2,925	0.0	2,970	0.0	3.6	11.5	3.1	3.1	6.4	6.8		
Municipal Model C	1,182	0.0	1,222	0.0	3.1	11.9	3.4	3.4				
Municipal Model D	0	0.0	1,659	0.0	3.0	14.8						
Municipal Model F	0	0.0	1,570	0.0	2.9	13.4	3.6	3.6				
<b>Insurance Assets</b>	<b>2,829,801</b>	<b>14.2</b>	<b>2,910,807</b>	<b>14.5</b>								
Workers' Compensation Old Fund	1,105,721	5.5	1,013,189	5.0	2.3	9.8	4.1	4.1	4.6	4.7	5.1	
Workers' Comp. Self-Insured Guaranty Risk Pool	34,207	0.2	34,115	0.2	2.2	9.7	3.7	3.7	4.5	4.4	4.9	
Workers' Comp. Self-Insured Security Risk Pool	52,220	0.3	50,505	0.3	2.2	9.7	3.7	3.7	4.5	4.5		
Workers' Comp. Uninsured Employers' Fund	13,468	0.1	14,005	0.1	2.2	9.3	3.5	3.5	4.3	4.2	4.6	
Pneumoconiosis	238,605	1.2	223,717	1.1	2.2	9.7	3.7	3.7	4.4	4.4	5.4	5.5
Board of Risk & Insurance Management	158,696	0.8	164,662	0.8	2.2	9.7	3.8	3.8	4.5	4.4	5.5	
Public Employees' Insurance Agency	225,314	1.1	260,386	1.3	2.1	9.1	4.2	4.2	4.6	4.5	5.4	
WV Retiree Health Benefit Trust Fund	1,001,570	5.0	1,150,228	5.7	3.6	11.8	3.4	3.4	6.4	6.9	8.0	
<b>Endowment Assets</b>	<b>982,180</b>	<b>4.9</b>	<b>1,044,015</b>	<b>5.1</b>								
Berkeley County Development Authority	6,177	0.0	6,378	0.0	3.7	11.6	3.2	3.2	6.3			
Wildlife Fund	65,000	0.3	62,699	0.3	3.7	11.6	3.2	3.2	6.3	6.8	8.9	7.2
Revenue Shortfall Reserve Fund	197,342	1.0	272,021	1.4	0.0	4.0	5.7	5.7	4.4	3.6	3.6	
Revenue Shortfall Reserve Fund - Part B	465,189	2.4	492,955	2.4	2.1	8.8	6.0	6.0	5.1	5.1	5.7	
WV DEP Trust	9,258	0.0	9,053	0.0	3.1	14.8	1.5	1.5	4.5	5.2		
WV DEP Agency	204,701	1.0	200,909	1.0	2.6	11.5	3.0	3.0	4.5	4.8		

Composite Asset Allocation & Performance Net of Fees

Period Ending: June 30, 2020

	Asset (\$000)	%	Performance %								
			1 Month	3 Month	FYTD	1 Year	3 Year	5 Year	10 Year	20 Year	
Investment Pools Composite	20,144,708	100.00									
Total Equity Composite +/- Total Equity Base Index (b)	9,355,578	46.44	3.73 0.49	19.68 0.29	0.43 (2.21)	0.43 (2.21)	4.68 (1.72)	6.19 (0.63)	10.00 0.16	6.01 0.75	
Domestic Equity Composite +/- Russell 3000 Index	4,710,362	23.38	2.36 0.07	21.82 (0.21)	5.69 (0.84)	5.69 (0.84)	9.33 (0.71)	9.38 (0.65)	13.66 (0.06)	7.09 0.94	
International Equity Composite +/- MSCI AC World ex US IMI Index (c)	4,645,216	23.06	5.17 0.77	17.44 0.31	(4.68) (0.35)	(4.68) (0.35)	0.22 (1.20)	3.01 0.24	6.29 0.78	5.24 1.35	
Fixed Income Composite +/- Bloomberg Barclays Capital Universal (d)	3,038,012	15.08	1.77 0.94	6.70 2.89	6.72 (1.16)	6.72 (1.16)	4.96 (0.19)	4.64 0.22	4.50 0.38	5.70 0.41	
Core Fixed Income Composite +/- Bloomberg Barclays Capital Aggregate	926,575	4.60	1.19 0.56	4.07 1.17	8.97 0.23	8.97 0.23	5.63 0.31	4.59 0.29	4.39 0.57		
Total Return Fixed Income Composite (k) +/- Bloomberg Barclays Capital Universal	2,111,437	10.48	2.02 1.19	7.87 4.06	5.68 (2.20)	5.68 (2.20)	4.65 (0.50)	4.64 0.22	4.55 0.43	6.06 0.72	
TIPS Composite +/- Bloomberg Barclays Capital U.S. TIPS	290,667	1.44	1.15 0.03	4.40 0.16	8.44 0.16	8.44 0.16	5.14 0.09	3.80 0.05			
Cash Composite +/- FTSE 3 Month US T-Bill (e)	616,587	3.06	0.01 0.00	0.03 (0.11)	1.31 (0.25)	1.31 (0.25)	1.62 (0.11)	1.12 (0.03)	0.62 (0.04)	1.72 (0.03)	
Private Equity Composite +/- Russell 3000 + 3% (f, g)	2,160,896	10.73	12.70	8.95	17.24	17.24	19.78	17.16 4.13	16.06 (1.23)		
Real Estate Composite +/- NCREIF + 1% (f)	1,974,212	9.80	(0.77)	(1.15)	0.37	0.37	5.61	7.19 (1.46)	8.94 (2.23)		
Hedge Fund Composite +/- HFRI FOF + 1% (h)	2,034,275	10.10	1.84 (0.27)	6.20 (1.97)	0.00 (1.51)	0.00 (1.51)	2.97 (0.29)	1.94 (0.56)	4.20 0.69		
Opportunistic Income Composite +/- CS Leveraged Loan + 2% (l)	674,481	3.35	1.62 0.11	(1.87) (12.08)	1.78 2.05	1.78 2.05	4.73 0.60				

# Participant Plans Allocation vs. Strategy

Period Ending: June 30, 2020

	Equity		Fixed Income		Private Equity		Real Estate		Hedge Funds		Opportunistic Income		Cash	
	Actual %	Strategy %	Actual %	Strategy %	Actual %	Strategy %	Actual %	Strategy %	Actual %	Strategy %	Actual %	Strategy %	Actual %	Strategy %

## Pension Assets

Public Employees' Retirement System	50.0	55.0	11.8	15.0	12.6	10.0	11.5	10.0	9.9	10.0	3.9	0.0	0.3	0.0
Teachers' Retirement System	49.4	55.0	11.4	15.0	12.5	10.0	11.4	10.0	9.8	10.0	3.9	0.0	1.6	0.0
EMS Retirement System	49.9	55.0	12.2	15.0	12.2	10.0	11.2	10.0	9.8	10.0	3.8	0.0	0.9	0.0
Public Safety Retirement System	49.1	55.0	11.0	15.0	12.6	10.0	11.5	10.0	9.8	10.0	3.9	0.0	2.1	0.0
Judges' Retirement System	50.1	55.0	12.0	15.0	12.5	10.0	11.4	10.0	9.9	10.0	3.9	0.0	0.2	0.0
State Police Retirement System	50.2	55.0	12.5	15.0	12.1	10.0	11.1	10.0	9.8	10.0	3.8	0.0	0.5	0.0
Deputy Sheriffs' Retirement System	50.0	55.0	12.2	15.0	12.4	10.0	11.3	10.0	9.9	10.0	3.9	0.0	0.3	0.0
Municipal Police & Firefighter Retirement System	49.5	55.0	13.1	15.0	11.0	10.0	10.0	10.0	9.6	10.0	3.4	0.0	3.4	0.0
Municipal Model A	50.3	55.0	11.7	15.0	12.3	10.0	11.3	10.0	9.9	10.0	3.8	0.0	0.7	0.0
Municipal Model C	48.3	50.0	26.7	30.0	6.1	5.0	5.6	5.0	9.8	10.0	1.9	0.0	1.6	0.0
Municipal Model D	66.6	65.0	32.2	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0
Municipal Model F	57.0	55.0	42.8	45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0

## Insurance Assets

Workers' Compensation Old Fund	31.6	30.0	50.4	50.0	0.0	0.0	0.0	0.0	15.1	15.0	0.0	0.0	2.9	5.0
Workers' Comp. Self-Insured Guaranty Risk Pool	31.1	30.0	44.6	45.0	0.0	0.0	0.0	0.0	19.9	20.0	0.0	0.0	4.4	5.0
Workers' Comp. Self-Insured Security Risk Pool	31.1	30.0	44.6	45.0	0.0	0.0	0.0	0.0	19.9	20.0	0.0	0.0	4.4	5.0
Workers' Comp. Uninsured Employers Fund	30.9	30.0	39.3	40.0	0.0	0.0	0.0	0.0	19.8	20.0	0.0	0.0	10.0	10.0
Pneumoconiosis	30.8	30.0	43.8	45.0	0.0	0.0	0.0	0.0	19.6	20.0	0.0	0.0	5.8	5.0
Board of Risk & Insurance Mgmt.	31.0	30.0	44.4	45.0	0.0	0.0	0.0	0.0	19.8	20.0	0.0	0.0	4.8	5.0
Public Employees' Insurance Agency	20.8	25.0	43.6	55.0	0.0	0.0	0.0	0.0	16.0	20.0	0.0	0.0	19.6	0.0
WV Retiree Health Benefit Trust Fund	47.6	55.0	12.5	15.0	10.7	10.0	9.7	10.0	9.2	10.0	3.3	0.0	7.0	0.0

## Endowment Assets

Berkeley County Development Authority	50.2	55.0	12.4	15.0	12.3	10.0	11.3	10.0	9.9	10.0	3.9	0.0	0.0	0.0
Wildlife Fund	49.9	55.0	12.0	15.0	12.6	10.0	11.5	10.0	9.9	10.0	3.9	0.0	0.2	0.0
Revenue Shortfall Reserve Fund	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0
Revenue Shortfall Reserve Fund - Part B	23.3	22.5	76.7	77.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WV DEP Trust	67.0	65.0	13.6	15.0	0.0	0.0	0.0	0.0	19.4	20.0	0.0	0.0	0.0	0.0
WV DEP Agency	41.1	40.0	39.2	40.0	0.0	0.0	0.0	0.0	19.7	20.0	0.0	0.0	0.0	0.0

- (a) As of January 2019, the PERS Base is 60% MSCI ACWI Gross and 40% Bloomberg Barclays Capital Universal. From January 2014 to December 2018, the PERS Base was 30% Russell 3000, 30% MSCI ACWI ex USA (IMI), and 40% Bloomberg Barclays Capital Universal. From April 2008 to December 2013, the PERS Base was 30% Russell 3000, 30% MSCI ACWI ex USA (Standard), and 40% Bloomberg Barclays Capital Universal. Prior periods were 42% Russell 3000, 18% MSCI ACWI ex USA, and 40% Bloomberg Barclays Capital Aggregate.
- (b) As of January 2019, the Total Equity Base Index is 100% MSCI ACWI Gross. From January 2014 to December 2018, the Total Equity Base Index was 50% Russell 3000 and 50% MSCI ACWI ex USA (IMI). From April 2008 to December 2013, the Total Equity Base Index was 50% Russell 3000 and 50% MSCI ACWI ex USA (Standard). Prior periods were 40% S&P 500, 30% Russell 2500, and 30% MSCI ACWI ex USA.
- (c) Prior to January 2014, the index was the MSCI ACW ex USA (Standard).
- (d) Prior to April 2008, the index was Bloomberg Barclays Capital Aggregate.
- (e) Prior to January 2014, the index was FTSE 3 Month US 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) As of July 2019, the Franklin Benchmark is 50% JPM EMBI Global Diversified ex GCC and 50% JPM GBI EM Diversified. Prior periods were 50% JPM EMBI Global Diversified and 50% JPM GBI EM Diversified.
- (j) Prior to April 2008, the index was a custom index.
- (k) From October 2015 to March 2017, performance returns from the Opportunistic Income Pool were included in the Total Return Fixed Income Composite.
- (l) Prior to April 2017, the index was CS Leveraged Loan plus 250 basis points.

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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