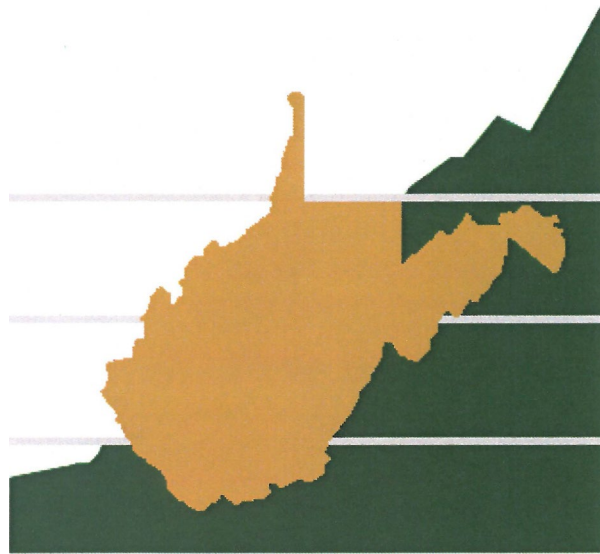


# West Virginia Investment Management Board



## 2023 Schedule of Investment Performance



September 27, 2023

Board of Trustees  
West Virginia Investment Management Board

We have conducted a performance audit of the accompanying Schedule of Investment Performance (the, "Schedule") of the individual investment pools operated by the West Virginia Investment Management Board (WVIMB). The audit was conducted in accordance with Chapter 12, Article 6, Section 6 of the *West Virginia Code*, as amended, for the year ending June 30, 2023.

Our examination included such testing, as we believed adequate, to verify that the performance information provided in the Schedule has been prepared and fairly presented in accordance with the Performance Presentation Standards as detailed in the footnotes to the Schedule.

This Schedule is the responsibility of WVIMB's management. Our responsibility is to express an opinion on the Schedule based on our audit.

In our opinion, the Schedule referred to above presents fairly, in all material respects, the performance of the individual investment pools as of June 30, 2023, in conformity with the Performance Presentation Standards as detailed in the footnotes to the Schedule.

Yours Sincerely,

A handwritten signature in black ink that reads "Justin Hatley". The signature is written in a cursive style with a long, sweeping underline.

**Justin Hatley**  
Director | Portfolio Analytics  
Verus

**Schedule of Investment Performance - Final  
West Virginia Investment Management Board  
For the Period July 1, 2022 to June 30, 2023**

**Participant Accounts**

	<b>Total Rate of Return*</b>
Public Employees' Retirement System	8.6%
Teachers' Retirement System	8.5
Emergency Medical Services Retirement System	8.5
State Police Death, Disability and Retirement Fund	8.6
Judges' Retirement System	8.5
State Police Retirement System	8.5
Deputy Sheriff's Retirement System	8.5
Municipal Police Officers' and Firefighters' Retirement System	8.4
Natural Resources Police Officer Retirement System	8.5
Municipal Policemen's or Firemen's Pension and Relief Funds – Model A	9.5
Municipal Policemen's or Firemen's Pension and Relief Funds – Model B	9.5
Workers' Compensation Old Fund	5.1
Workers' Compensation Self-Insured Employer Guaranty Risk Pool	5.4
Workers' Compensation Self-Insured Employer Security Risk Pool	5.4
Workers' Compensation Uninsured Employers' Fund	5.5
Coal Workers' Pneumoconiosis Fund	5.4
Board of Risk and Insurance Management	5.4
Public Employees Insurance Agency	4.8
West Virginia Retiree Health Benefit Trust Fund	8.5
Berkeley County Development Authority	8.5
Wildlife Endowment Fund	8.5
West Virginia State Parks and Recreation Endowment Fund	8.9
Revenue Shortfall Reserve Fund	1.2
Revenue Shortfall Reserve Fund – Part B	3.2
West Virginia Department of Environmental Protection Trust	11.5
West Virginia Department of Environmental Protection Agency	7.4

\* - Returns are net of all fees. See Note 2.

**Schedule of Investment Performance - Final  
West Virginia Investment Management Board  
For the Period July 1, 2022 to June 30, 2023**

**Investment Pools**

	<b>Total Rates of Return</b>		
	<u>Gross of all fees</u>	<u>Net of manager fees</u>	<u>Net of all fees</u>
Portable Alpha Pool	17.7%	17.7%	17.7%
Large Cap Domestic Equity Pool	19.5	19.5	19.4
Non-Large Cap Domestic Equity Pool	25.5	24.5	24.4
International Qualified Equity Pool	18.2	17.6	17.5
International Non-Qualified Equity Pool	17.7	17.0	17.0
International Equity Pool	9.7	9.1	9.0
Short-Term Fixed Income Pool	3.7	3.7	3.7
Total Return Fixed Income Pool	2.8	2.6	2.6
Core Fixed Income Pool	0.1	(0.1)	(0.1)
TIPS Pool	(1.4)	(1.4)	(1.5)
Private Markets Pool	0.6	0.6	0.6
Hedge Fund Pool	5.2	5.2	5.1

**Monthly Money Market Yield (annualized %)**  
(See Note 3)

	<u>Short-Term Fixed Income Pool</u>
July 2022	1.37%
August 2022	2.04
September 2022	2.24
October 2022	2.78
November 2022	3.40
December 2022	3.80
January 2023	4.10
February 2023	4.47
March 2023	4.56
April 2023	4.64
May 2023	4.66
June 2023	4.94

**Schedule of Investment Performance - Final  
West Virginia Investment Management Board  
For the Period July 1, 2022 to June 30, 2023**

**Note 1**

This report represents the performance returns of the West Virginia Investment Management Board (WVIMB). It is prepared to comply with *West Virginia Code § 12-6-6(d)*, and is intended solely as an attestation of the returns for the periods indicated. For a more in-depth discussion of the investment pools and participant plans, including returns for additional time periods, please refer to the WVIMB's annual report which may be requested directly from the WVIMB at 500 Virginia Street East, Suite 200, Charleston, WV 25301 or on the web at [www.wvimb.org](http://www.wvimb.org).

**Note 2**

The Total Rate of Return for the trust accounts and the investment pools is calculated using the Modified Dietz time weighted rate of return method. The Modified Dietz method weights each cash flow by the amount of time it is held in the portfolio. The formula for the Modified Dietz method is:

$$\text{Return} = \frac{\text{MVE} - \text{MVB} - \text{F}}{\text{MVB} + \text{FW}}$$

Where: MVE = market value end of period

MVB = market value beginning of period

F = total external cash flows within the measurement period

FW = total external cash flows weighted by days invested within the measurement period

**Note 3**

The monthly money market yield represents the rate of income, net of expenses, earned during the respective month. The return is annualized over a 365-day or 366-day year, assuming no reinvestment of earnings.