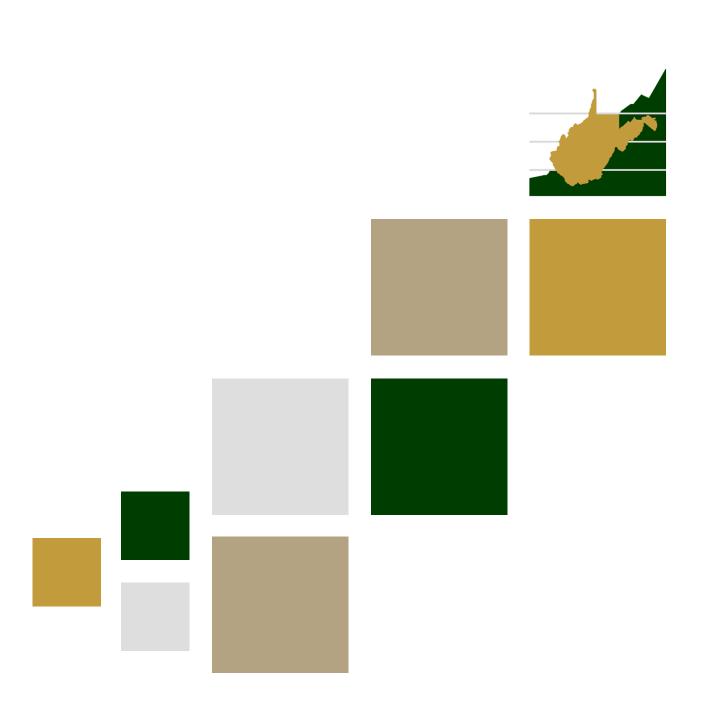
West Virginia Investment Management Board

2021 ANNUAL REPORT







Our mission is to exercise our best independent judgment in providing prudent and professional investment management for the exclusive benefit of the beneficiaries.

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Definition of Terms and Abbreviations

The following terms and abbreviations are used throughout the West Virginia Investment Management Board's Annual Report and are listed here to help with the overall understanding and readability of this document.

Allocation Committee The Allocation Committee is a committee of the West Virginia Investment Management Board's

general investment consultant, as approved by the Board, and the West Virginia Investment Management Board's investment officers: The Executive Director, who is also the Chief Investment Officer, and the Investment Officers with specific asset class responsibilities. The Allocation Committee is permitted to make adjustments within set ranges around the Strategic

Allocation, based upon current market conditions and forward looking market views.

Base Allocation The allocation between the three major asset classes – global equity, fixed income, and cash –

whose purpose is to serve as return generators, or diversifiers, or some combination of both.

Board The thirteen-member Board of Trustees that governs the West Virginia Investment Management

Board.

(Participant)

Cap Abbreviation for "capitalization," referring to the size of the investment market for that particular

asset style.

IMB The "West Virginia Investment Management Board" including its Trustees, plan

Representatives, Committee Members, and staff.

Neutral TargetThe absolute percentage weighting assigned to an asset class or the secondary components within

an allocation to which rebalancing should ultimately occur in the absence of an Allocation

Committee modification.

Participant Plan A specific group of assets entrusted to the West Virginia Investment Management Board.

Retirement plans, endowments, and insurance trusts, for example, are all Participant Plans.

Pool Refers to the specific investment pool created and operated by the West Virginia Investment

Management Board for a specific investment asset class.

Range Allocation The Board has placed ranges (Allocation Ranges) around the Strategic Allocation in order to

maintain appropriate risk controls. Allocation decisions made by the Allocation Committee are

defined as the Range Allocation.

Strategic Allocation The first level of adjustment to the Base Allocation is the principal focus of the asset allocation

process and results in the Strategic Allocation. The broad types of assets considered at the Strategic Allocation level include global equities, fixed income, TIPS, private credit and income, private equity, real estate, and cash, as well as the opportunity set and management style of hedge

funds.

Definition of Terms and Abbreviations

The following terms and abbreviations refer to the investment performance benchmarks used for comparison purposes in the Investment Objectives and Financial Highlights section.

Bloomberg Barclays U.S. Aggregate Bond	A market capitalization weighted index that includes most U. S. traded investment grade bonds.
Bloomberg Barclays U.S. TIPS	An index that measures the performance of U.S. Treasury Inflation Protected Securities.
Bloomberg Barclays U.S. Universal Bond	The index covers U.S. dollar-denominated, taxable bonds that are rated either investment-grade or below investment-grade.
FTSE 3 Month U.S. T-Bill	An index intended to track the daily performance of 3-month U.S. Treasury bills.
Credit Suisse Leveraged Loan	An index designed to mirror the investable universe of the U.S. dollar-denominated leveraged loan market.
HRFI FoF	Hedge Fund Research, Inc.'s composite index of fund of funds.
MSCI ACWI (IMI)	A market capitalization weighted index that is designed to measure the equity market performance of developed and emerging markets. The "IMI" qualifier limits the index to investable markets. It is maintained by MSCI Barra, formerly Morgan Stanley Capital International.
MSCI ACWI ex U.S. (IMI)	A market capitalization weighted index that is designed to measure the equity market performance of developed and emerging markets. The "ex U.S." qualifier indicates that the index excludes the United States markets. The "IMI" qualifier further limits the index to investable markets. It is maintained by MSCI Barra, formerly Morgan Stanley Capital International.
MSCI EAFE	A stock market index that is designed to measure the equity market performance of developed markets outside of the U.S. & Canada. It is maintained by MSCI Barra, formerly Morgan Stanley Capital International. The EAFE acronym stands for Europe, Australasia and Far East.
NCREIF Property Index	National Council of Real Estate Investment Fiduciaries' property index.
Russell 2500/ Russell 3000	The Russell 2500 Index is comprised of the smallest 2,500 securities in the Russell 3000 Index, which is a broad market index comprised of the largest 3,000 publicly held U.S. companies, as determined by market capitalization.
S&P 500	Standard & Poor's 500 is a stock market index based on the market capitalizations of 500 large companies having common stock listed on the New York Stock Exchange or NASDAQ.

INTRODUCTION

Message from Chairman

November 11, 2021

Dear Fellow West Virginians:

On behalf of the trustees of the West Virginia Investment Management Board (IMB), I present the IMB's Annual Financial Report for the fiscal year ending June 30, 2021. Please note that additional information about the IMB may be accessed electronically on its website, www.wvimb.org.

The IMB generated an unprecedented return of 32.1 percent in the fiscal year 2021 (using the Public Employees' Retirement System as a proxy for all long-term assets). This is an astounding result, especially after the modest returns of the fiscal year 2020. Then, we cautioned readers not to become overly focused on any one year's results. The capital markets can be fickle, with dramatic year-to-year swings. The last two years are a stark reminder of that. The pandemic that precipitated the economic shutdown of last year brought us meager returns, but provided the impetus for fiscal stimulation, vaccines, and remote work innovations, that set the stage for an economic recovery and great returns this year. The IMB, however, is a long-term investor, with an asset allocation plan to achieve its return goals fully cognizant that year-to-year volatility is the price one pays for return on one's money. Fiscal year 2021 was one where the volatility was in our favor. It remains important to maintain a long-term perspective and temper expectations.

I wish to thank fellow trustees and the staff for their dedicated service. I commend the IMB on its professionalism, commitment to the mission, and customer service.

Sincerely,

Jim Justice

Governor of the State of West Virginia Chairman of the Board of Trustees

Message from Executive Director

November 11, 2021

It is with great pleasure that I submit the Annual Report of the West Virginia Investment Management Board (IMB). The IMB is considered an internal service fund of the State of West Virginia for financial reporting purposes, and as such, the significant financial information contained in the report is also included in the State of West Virginia's comprehensive annual financial report. The information presented in this report is the responsibility of the management of the IMB, and sufficient internal accounting controls exist to provide reasonable assurance regarding the safekeeping of assets and fair presentation of the financial statements, supporting schedules, and statistical tables. The report is also designed to comply with the reporting requirements of Chapter 12, Article 6, Section 6 of the *West Virginia Code*, as amended. This report is divided into the following sections:

- **Organization** Contains general information regarding Trustees and staff, history of the IMB, statutory mandate, administrative mandate, and investment philosophy.
- Investment Objectives and Financial Highlights Outlines the more specific objectives and performance of each of the investment pools.
- Participant Plans Contains a brief description of each of the participant plans whose assets are entrusted to the IMB.

Please note that the audited financial statements of the investment pools administered by the IMB and the IMB's Administrative Fund are published as separate documents. The audited financial statements are available on the IMB website.

As an investment organization, the IMB's constant focus is the performance of its investments as it seeks to satisfy the investment needs of the beneficiaries of the participant plans entrusted to it. To a large extent, each participant plan's performance is a function of the asset classes in which it invests. As such, a review of asset class performance for the year may be helpful.

The fiscal year ending June 30, 2021, was dominated by the COVID-19 pandemic and efforts to deal with it. After what was likely the most sudden economic recession in American history (real GDP contracted at a quarterly annualized rate of negative 31.2 percent from April 1, 2020, to June 30, 2020), or even the world, the economic trajectory reversed and started to trend up with a summer respite from infections and massive fiscal stimulation. Despite "stay at home mandates" and limits on travel, people and businesses found ways to function. New technologies, waiting in the wings, were ready to solve the problem. Kitchens and spare rooms became offices with laptops, the internet, virtual private networks for security, and virtual meetings replacing the daily commute and many hours spent traveling. The real GDP quarterly annualized growth rate rebounded to 33.8 percent in the first quarter of the fiscal year. Meanwhile, reports on the efficacy of vaccines developed with innovative mRNA technology were promising. Although surges in infections continued to ripple around the globe, the economic recovery continued in the second quarter of the fiscal year. In the U.S., November saw the end of the Trump presidency and the election of a Democratic Congress. December 2020 brought the approval of the first vaccine. Building off the perceived success of cash infusions in the economy in the Spring of 2020, Congress passed a second round, and newly-elected President Biden announced a multi-trillion spending plan consisting of traditional physical infrastructure and "human infrastructure." Although there was little bipartisan support, especially for the human infrastructure portions of the plan, optimism seemed to prevail generally as the vaccination of the population proceeded at an unprecedented pace, suggesting that the President's target for lifting restrictions on July 4 was possible. Globally, the story was mixed. China initiated shutdowns and other strict measures, successfully containing the spread of the virus, and providing a bright spot in global economic activity in the early part of the year. India and other developing countries suffered to varying degrees. Few had the resources available to take advantage of the vaccines as quickly as developed countries, putting them at the mercy of the SARS-CoV-2 virus. Throughout the year, central bankers around the world maintained easy monetary policy stances. Fearing deflation more than inflation, the Federal Reserve Bank of the U.S. signaled that it would err on the side of growth as economic activity picked up. Other central bankers followed suit. U.S. stocks lead all asset classes with a one-year return of 44.2 percent (Russell 3000). Technology stocks were the darling for much of the year but value stocks, especially smaller company names, finally saw a run of outperformance. The China A-share market (MSCI China A) produced strong returns as well, up 40.4 percent. Meanwhile, international stocks were up 37.7 percent (MSCI ACWI ex U.S. IMI) and fixed income was up 1.1 percent (Bloomberg Barclays U.S. Universal Bond).

The IMB experienced relative outperformance in almost all major asset classes for the fiscal year ending June 30, 2021. The IMB's large-cap U.S. public stock portfolio returned 43.1 percent, beating its benchmark (S&P 500) by 2.3 percent with the help of the portable alpha structure implemented at the start of the year. The non-large cap U.S. public stock portfolio was one

Message from Executive Director

of the few areas of underperformance. Although it returned an astounding 54.0 percent it was 3.8 percent short of the benchmark (Russell 2500). The IMB's international public stock portfolio returns matched the returns of the U.S. large-cap public stock portfolio but only because of outperformance. It returned 43.1 percent, 5.4 percent better than the benchmark (MSCI ACWI ex U.S. IMI). Performance was driven by the international value bias and the significant contribution from the 59.3 percent return in the IMB's dedicated portfolio of China A-share stocks. The fixed income portfolio also outperformed with a return of 4.5 percent, 3.4 percent better than the benchmark (Bloomberg Barclays U.S. Universal Bond). The underweight to U.S. Treasuries that hurt the portfolio in fiscal year 2020 was a positive contribution in fiscal year 2021, along with its short duration relative to peers. Performance measurement of private market assets, which includes private equity, private real estate, and private credit, is fraught with measurement issues, so it is less meaningful over shorter time periods. Regardless, the private equity portfolio returned 58.9 percent and the real estate portfolio returned 11.3 percent. The private credit portfolio underperformed its benchmark by 1.3 percent (Credit Suisse Leveraged Loan plus 2.0 percent) returning 12.3 percent for the year. The hedge fund portfolio, which is intended to be a diversifying component of the entire portfolio, returned 18.6 percent, which was short of its benchmark (HFRI FOF plus 1 percent) by 0.7 percent.

The majority of assets managed by the IMB are for participants with longer time horizons. These include the defined benefit pension plans, some employment security plans, and other trust assets. Still others, like Revenue Shortfall Reserve Funds A and B, have shorter time horizons of varying degrees.

Defined benefit pension plans make up approximately 81 percent of the IMB's total assets under management. For general comparison purposes, the IMB uses the Public Employees' Retirement System (PERS) as a proxy for the other pension plans because of its similarity to other statewide public pension plans throughout the nation. As of June 30, 2021, the return for PERS was 32.1 percent, net of expenses, for the fiscal year. Of greater significance is the longer-term performance. In that regard, over the ten-year period ending June 30, 2021, the IMB's annualized return was 9.9 percent versus the base portfolio benchmark of 8.0 percent. This difference represents millions of dollars in value, added by Trustees and staff. The other defined benefit pension plans' returns for the fiscal year ending June 30, 2021, were essentially identical to PERS. Since asset allocations are virtually the same for each plan, any differences in the returns for the various pension plans are a function of the differences in the timing of cash flows into and out of each plan and relative levels of cash equivalent securities necessary to make benefit payments. The Wildlife Endowment Fund and the West Virginia Retiree Health Benefit Trust Fund have similar asset allocations to the defined benefit pension plans, respectively, returning 31.9 and 31.8 percent.

With regard to employment security assets, the reader will note a significant difference in returns from defined benefit plans. This is primarily a function of differences in the time horizon and liquidity needs, which vary quite significantly by plan. This leads to a wide divergence in the respective plans' allocations to various asset classes. The returns for employment security assets for the fiscal year ending June 30, 2021, ranged from 18.4 percent for the Coal Workers' Pneumoconiosis Fund to 17.6 percent for the Workers' Compensation Old Fund. The IMB manages assets for other state entities as well. Specific data on the returns and objectives of all Participant Plans may be found in the pages that follow.

As an investor, the IMB's capacity to generate a return on assets is largely a function of growth in the world capital markets. Diversification helps reduce short-term volatility in the capital markets (commonly referred to as risk), but it is generally at the expense of long-term growth. Growth is the engine of returns. The IMB's asset allocation is tilted towards long-term growth for those assets with long time horizons, such as defined benefit pension plans. These plans are structured to spread risk and cost over multiple generations. The correct target rate of return is one that fairly does this. While the IMB does not set that rate, it has an obligation to advise those that do. The IMB believes that the current target is attainable over very long time periods. That being said, the state of the capital markets will make it very difficult to achieve that rate in the near term. As one looks out on the horizon, there are many concerns that look eerily similar to those discussed in the Message last year. The SARS-CoV-2 virus is still with us, with the promise of cyclical surges around the globe into the indefinite future. With regard to its ability to disrupt economic activity, however, much has changed. The prevalence of vaccines and the advent of new treatments promise a return to normal. It appears as if the world is coming to accept a reality where the virus is managed and possibly, never eliminated. Regardless, the fiscal spending required to combat the immediate effects of the pandemic leaves the developed world with an overhang of debt. This is especially true in the U.S. where infrastructure spending, some of which is certainly needed, will only add to it, increasing inflationary pressures. Meanwhile, the geopolitical tensions between the U.S. and China, unlikely to abate any time soon, will likely spawn global changes in patterns of economic activity that have only just begun to be explored. Of no less importance are the threats to free market systems and democracy, as autocrats and wannabe autocrats exploit tensions in societies to gain political power.

There is much to be concerned about. Nevertheless, the future is unknowable. The IMB's portfolio is built for the long-term, seeking return from risky assets while diversifying to reduce risk. The IMB will continue to monitor its portfolio, moderate the

Message from Executive Director

structure on the margins to accommodate what we believe the markets are offering, but not so much as to compromise the portfolio's ability to take advantage of long-term growth. The staff looks forward to helping Trustees meet these challenges as fiscal year 2022 unfolds.

Respectfully Submitted,

Craig Slaughter, JD, CFA

Executive Director

ORGANIZATION

Jim Justice, Chairman

Governor of the State of West Virginia

John B. McCuskey

Auditor of the State of West Virginia

Riley Moore

Treasurer of the State of West Virginia Appointed January 18, 2021

John D. Perdue

Treasurer of the State of West Virginia Served through January 17, 2021

Patrick Bond

General Partner, Mountaineer Capital, LP

G. Kurt Dettinger

Member in Steptoe & Johnson, PLLC

David H. Gardner

Chief Business Development Officer, Stonerise Healthcare LLC Appointed February 1, 2021

Georgette Rashid George

CEO, Monarch Holdings, LLC

Mike Hall Appointed February 12, 2021

David A. Haney

Executive Director of the West Virginia Education Association Served through November 6, 2020

Charles S. Houck

Director of Public Relations, Little General Stores, Inc

David H. McKinley

President and Managing Director of McKinley | Carter Wealth Services Served through January 31, 2021

Marie L. Prezioso

Executive Director, West Virginia Water Development Authority

Jack Rossi

Executive Vice President of Business Development, Summit Community Bank

Steven L. Smith

Administrator of the West Virginia Laborers Trust Funds

Randall E. Snider

Executive Chairman of the Board, Community Bank

Deputy Sheriff's Retirement System

David Gentry, Representative

J. Scott Gittings, Committee Member

Judges' Retirement System

Vacancy

Public Employees' Retirement System

Terasa L. Miller, Representative

State Police Death, Disability and Retirement Fund

David M. Nelson, Representative

State Police Retirement System

Christopher Joe White, Representative

Teachers' Retirement System

Tony Lautar, Jr., Representative

Robert L. Brown, Committee Member

Dale Lee, Committee Member

Emergency Medical Services Retirement System

Mark Kerns, Representative

Workers' Compensation Old Fund and Coal Workers' Pneumoconiosis Fund

Melinda Kiss, Representative

Cheri Harpold, Committee Member

Rhonda Hartwell, Committee Member

By statute, the Consolidated Public Retirement Board and the West Virginia Offices of the Insurance Commissioner are responsible for appointing a representative for each plan who may select a committee of up to three individuals. The Representative and Committee Members work with the Investment Management Board to develop the investment policy for their respective plan. They are appointed on an annual basis.

Executive Staff

Craig Slaughter, J.D., CFA, Executive Director / Chief Investment Officer

Matthew Jones, CPA, CCM, CGMA, Chief Financial Officer / Chief Operating Officer

Deborah Sink, J.D., General Counsel / Corporate Secretary

Internal Audit

Melissa Petit, CPA, CIA, CIDA, CISA, MBA, Director of Internal Audit Johnna Campbell, CPA, Internal Auditor

Investments Division

Rod Livingston, CFA, CAIA, CCM, MBA, Senior Investment Officer

Tom Sauvageot, CAIA, MBA, Fixed Income and Real Estate Investment Officer

Jim Herrington, CFA, CAIA, MBA/MSM, Private Equity Investment Officer

Trent Gregory, Public Equity Investment Officer

Operations Division

Steve Frenchik, CPA, CGMA, MBA, Director of Operations

Anna Scott, CPA, CGMA, MS, Financial Reporting Manager

Brian DuBois, Senior Investment Accountant

Crystal Hunt, Investment Accountant

Aaron Souza, CPA, Investment Accountant

Brittney Medley, Investment Accountant

Kesa Young, CPA, Investment Accountant

James Atkins, CPA, CAIA, CGMA, Senior Alternative Investment Analyst

Mallory Engel, CPA, Alternative Investment Analyst

Mika Hubbard, CPA, Alternative Investment Analyst

Support Staff

Shane Jividen, CPA, MA, Human Resources and Office Administrator

Milly Torman, Senior Administrative Assistant

Margy McCroskey, Administrative Assistant

Technology Division

Darius Walker, MSCE, CompTIA Security+, CEH, Director of Technology

Fred Branham, MSCE, MCSA, CompTIA Security+, Senior Network Engineer

Rick Greathouse, CompTIA A+, CompTIA Security+, Network+, Network Administrator

Rebecca King, CPA-Inactive, Enterprise Information Architect

Organizational History

The West Virginia Investment Management Board came into existence in the spring of 1997 after years of hard work modernizing the State's investment management structure. This structural modernization was widely acknowledged as a necessary precursor to the passage of a constitutional referendum to allow investment in stocks. The risks were perceived to be too great to be managed by anything but a modern, professional entity.

Although the West Virginia Investment Management Board's predecessors, the West Virginia State Board of Investments and the West Virginia Trust Fund, Inc., brought about vast improvements, each had significant shortcomings. However, with the creation of the West Virginia Investment Management Board, the State achieved a balance between control and independence that helps foster efficient and prudent investment management of long-term assets well into the future.

The beginning of the modern era in investment management by the State goes back to the late 1970s with the consolidation of the investment authority for the State's defined benefit plans, employment security plans, and other assets into a newly created West Virginia State Board of Investments. One of the goals of the legislation was to achieve economies of scale by commingling like assets.

Significantly, this newly created West Virginia Board of Investments was staffed by the State Treasury and the board itself was made up of the State's Governor, Treasurer, and Auditor.

Although a step in the right direction, the initial West Virginia State Board of Investments lacked proper or sufficient control features. After a few problems in the 1980s, principally involving its short-term pool, the Consolidated Fund, the board was expanded to seven members, adding four members from the private sector including an attorney experienced in financial matters and a Certified Public Accountant.

In the fall of 1990, the Legislature took a huge leap forward by creating a staff for the West Virginia State Board of Investments separate from the staff of the Treasury. This provided clear accountability to the Board of Investments – something that did not exist previously. Other very important control features included: (1) a statutory requirement for an Internal Auditor, (2) an annual external audit by a certified public accounting firm, and (3) monthly reporting requirements to government leaders in accordance with generally accepted accounting principles. This last feature dictated that all pools with a weighted average maturity in excess of 90 days must be marked-to-market (carried at market value), something that had not been done in the 1980s.

At the same time, the West Virginia Board of Investments made its first tepid step towards a diversified portfolio to be invested in stocks domiciled in the United States. Although it made some initial stock purchases in 1993, which were subsequently liquidated at a gain, the statute was challenged and the West Virginia Supreme Court ruled that investing in equities was unconstitutional.

In 1996, in an effort to satisfy the constitutional strictures, the Legislature carved out the pension and employment security funds with long time horizons and placed them in a trust to be managed by a new entity called the West Virginia Trust Fund, Inc. The creation of the trust as a vehicle to allow investment in stocks was also challenged and was struck down, failing to satisfy the constitutional concerns of the Supreme Court. It did, however, bring about three very important changes. The Legislature, demonstrating impeccable managerial foresight, granted the West Virginia Trust Fund, Inc. control over its own budget. With the same foresight, the Legislature imposed personal fiduciary liability on the board and staff of the West Virginia Trust Fund, Inc. Of no less importance was the creation of representative roles for members of the retirement systems and employment security systems.

With the failure of the West Virginia Trust Fund, Inc., it and the West Virginia State Board of Investments were replaced in 1997 by a new entity, the present day West Virginia Investment Management Board. The basic modernization process was complete. All of the improvements made in the Board of Investments and the West Virginia Trust Fund, Inc. were incorporated into the new entity.

The Legislature, for policy reasons, transferred the Consolidated Fund on July 8, 2005 to a newly created West Virginia Board of Treasury Investments, chaired by the State Treasurer. This was widely perceived as a policy move to ensure direct governmental oversight of State general and special revenue funds. The West Virginia Investment Management Board continues to manage the retirement funds, the employment security funds, and other assets with long time horizons.

In 2007, the Legislature expanded the investable universe of assets, increasing the allowable allocation to public equity and international securities, while also providing for a significant allocation to "alternative investments," loosely defined as hedge funds and private equity. Then, in 2014, the Legislature eliminated the percentage limitations on allowable asset classes or securities, joining most of its peers in recognizing the prudent investor standard of care is the most effective control on investor behavior for institutions.

Statutory Mandate

The bill creating the West Virginia Investment Management Board passed during the 1997 legislative session and is cited as the West Virginia Investment Management Board Act (the Act). The legislative findings of the Act make it clear that the West Virginia Investment Management Board was intended to be a professional, apolitical, financial management organization dedicated to the interests of the State's teachers, public employees and workers in general. The Act was intended to give the West Virginia Investment Management Board "...the authority to develop, implement and maintain an efficient and modern system for the investment and management of the State's money." In order to accomplish this purpose, the Act further stated that the West Virginia Investment Management Board must "...operate as an independent board with its own full-time staff of financial professionals immune to changing political climates...." [West Virginia Code §12-6-1(a)(b)] The Act also mandates that the assets contributed by the public employee and employer to the 401(a) Plans and the assets of the Workers' Compensation Fund and the Coal Workers' Pneumoconiosis Fund, are "declared to be irrevocable trusts, available for no use or purpose other than for the benefit of those public employees...workers, miners and their beneficiaries...." [West Virginia Code §12-6-1(c)(d)] The West Virginia Investment Management Board is further "empowered by this Article to act as Trustee of the irrevocable trusts created by this Article, and to manage and invest other state funds." [West Virginia Code §12-6-1a(f)]

The standard of care mandated by the Statute is that codified in the "Uniform Prudent Investor Act," Article 6C of Chapter 44 of the *West Virginia Code*. The West Virginia Investment Management Board is further subject to the following requirements:

- (a) Trustees shall discharge their duties with respect to the 401(a) Plans for the exclusive purpose of providing benefits to participants and their beneficiaries;
- (b) Trustees shall diversify fund investments so as to minimize the risk of large losses unless, under the circumstances, it is clearly prudent not to do so;
- (c) Trustees shall defray reasonable expenses of investing and operating the funds under management;
- (d) Trustees shall discharge their duties in accordance with the trust documents and instruments governing the trusts or other funds under the management insofar as the documents and instruments are consistent with provisions of this Article; and
- (e) The duties of the Board apply only with respect to those assets deposited with or otherwise held by it. [West Virginia Code §12-6-11]

Administrative Mandate

Governance of the West Virginia Investment Management Board is vested, by statute, in a thirteen-member Board of Trustees. Three members of the Board serve by virtue of their office: the Governor, the Auditor, and the Treasurer. The other ten are appointed by the Governor and confirmed by the Senate. All appointees must have experience in pension management, institutional management or financial markets. In addition, one must be an attorney experienced in finance and investment matters and another must be a Certified Public Accountant. Only six of the ten appointed Trustees may be from the same political party. The Governor serves as Chairman of the Board. A Vice-Chairman is elected by the Trustees. A Secretary, who need not be a member of the Board, is also elected by the Trustees to keep a record of the proceedings of the Board.

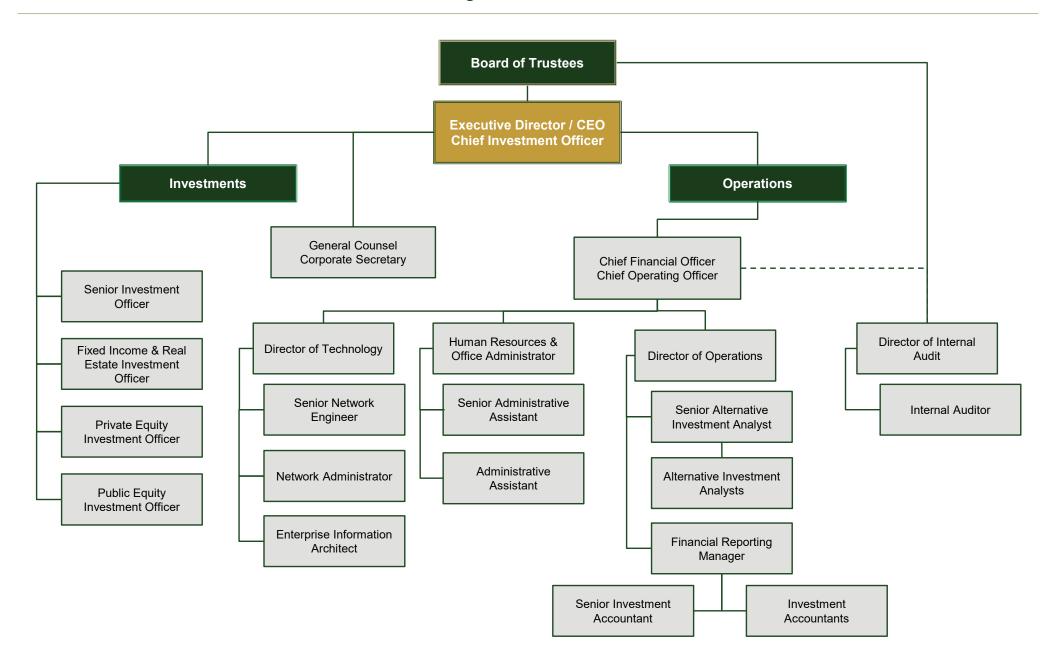
A member of each defined benefit retirement plan is designated by the Consolidated Public Retirement Board to represent the Participant Plans' interests. Likewise, the West Virginia Insurance Commission designates a representative for the Coal Workers' Pneumoconiosis Fund and the Workers' Compensation Old Fund. Each of the Representatives may designate up to three persons to comprise a committee representing their respective plan's beneficiaries. The Representatives and Committee Members do not have a vote but have the right to be heard at the annual meetings of the Board and are subject to the same code of conduct and requirements of confidentiality that apply to the Trustees.

The day-to-day management of the West Virginia Investment Management Board is delegated to the Executive Director who is appointed by the Board and serves at its will and pleasure. The Executive Director acts as an advisor to the Board on all matters.

The staff of the West Virginia Investment Management Board is divided into two principal divisions-Investments and Operations.

The Operations Division is focused on providing the back office support necessary for the organization to function on a day-to-day basis. The Investments Division is structured to devote its time and resources to staying current with new developments and research in the investment field and being prepared to apply this knowledge to the investment of assets for the West Virginia Investment Management Board. See the organization chart on the following page.

Organization Chart



Investment Philosophy

The primary objective of the investment pools is to provide benefits to its participants and beneficiaries. Based on general beliefs about the investment return available from a well-diversified, prudently invested portfolio, the Board has adopted specific investment objectives for each Participant Plan.

In order to achieve the investment objectives for each Participant Plan, the IMB relies on prevailing financial theory. This is a philosophy that is generally characterized by prudent diversification across different asset classes (stocks, bonds, cash, non-traditional, etc.) to reduce risk, taking into account each Participant Plan's time horizon, liquidity needs, financial condition (funded status), and return objectives in determining each Participant Plan's appropriate allocation to various assets. Diversification is not just limited to asset classes although it is, generally, considered the most significant factor. Other factors, including, but not limited to, geography/country, industry, and maturity, are also considered from the Participant Plan's perspective. These factors may also dictate the extent to which the Participant Plan may be impacted by general business conditions. Importantly, the factors mentioned here are not intended to be limiting; rather, they are outlined as a general indication of the importance of diversification and customization to proper asset allocation. The Board determines the proper allocation among asset classes and managers, based on advice and analysis provided by the IMB and an external general investment consultant.

The Board recognizes that even though its investments may be subject to short-term volatility, it is critical that the IMB maintain a focus on longer time horizons for most Participant Plans, during which time the impact of short-term market volatility generally averages out. Impulsive reactions to short-term market events are not conducive to achieving long-term investment objectives. The strategies employed for each Participant Plan factor in an acceptable level of expected volatility given the relevant time horizon and liquidity needs for that Participant Plan. This prevents ad-hoc revisions to its philosophy and policies in reaction to either speculation or short-term market fluctuations. It is important to note that the Board recognizes that markets may become dislocated due to behavioral or other factors. When major dislocations occur, the Board has allowed for minor adjustments to the asset allocation for each Participant Plan through its Allocation Committee. In order to preserve a longer-term perspective generally, however, the Board of Trustees has adopted the following formal review schedule:

Agenda Item	Review Schedule
Investment Performance	Quarterly
Investment Policy	Every Year
Allocation Ranges	Every Three Years
Asset Allocation Review for Each Participant Plan	At Least Every Three Years

The Board may hire investment managers to implement its objectives. These managers will be given specific tactical roles within the overall strategic investment plan. Depending on their assignments, the managers may be judged on some or all of the following: (1) consistency of philosophy, style and key personnel, (2) performance relative to an appropriate index or proxy group, and (3) ability to add incremental value after costs. The Board and staff shall monitor performance and supervise all fund managers.

In determining the appropriate level of risk, the Board considers, in addition to its fiduciary obligations and statutory requirements, each entity's purpose and characteristics, financial condition, liquidity needs, sources and level of contributions, income and general business conditions. Based upon these many factors, the Board identifies where either a more aggressive or more conservative investment approach is warranted, on an individual plan-by-plan basis.

INVESTMENT OBJECTIVES

"Trustees, at the annual meeting...shall review, establish and modify, if necessary, the investment objectives of the individual participant plans, as incorporated in the investment policy statements of the respective trusts so as to provide for the financial security of the trust funds giving consideration to the following: (1) Preservation of Capital; (2) Diversification; (3) Risk Tolerance; (4) Rate of Return; (5) Stability; (6) Turnover; (7) Liquidity; and (8) Reasonable Costs of Fees." [West Virginia Code §12-6-11(a)(5)]

PARTICIPANT PLANS

The Board's objective is to manage the Participant Plans' moneys in an efficient and economical manner, managing risk as it seeks to achieve the specific goals set out in each Participant Plan's investment program.

INVESTMENT OBJECTIVES & FINANCIAL HIGHLIGHTS

Equity Pool

OBJECTIVES

The main objective for the Equity Pool is to provide for long-term growth for all participants. The Equity Pool is comprised of sub-components that enable adequate diversification when taken in aggregate. Separate investment pools have been established for each investment style or to comply with specific legal and accounting requirements.

Each Participant invested in the Equity Pool has its own Equity Strategic Allocation, set out in each Participant Plan Description within Appendix A of the IMB's Investment Policy Statement. The Allocation Committee has the authority to adjust a Participant's Equity Strategic Allocation 10 percent of the approved allocation. As an example, if a Participant has a 50 percent Strategic Allocation to Equity, the Strategic Range would be 45 to 55 percent.

The Allocation Committee also has the authority to adjust strategic asset class sub-components of the Equity Pool, as outlined below:

Strategic Asset Class Sub-Components	Neutral Target*	Allocation Range
Domestic vs.	Domestic vs. International	0.5 to 2.5 times benchmark weight
International	Percentage in MSCI ACWI (IMI)	Sum must equal 100% of Equity allocation
U.S. Large Cap vs.	Large = 1 minus Non-Large	0.5 to 2.5 times benchmark weight
U.S. Non-Large Cap	Non-Large = Russell 2500/Russell 3000	Sum must equal 100% of Domestic Equity allocation
U.S. Non-Large Value vs.	Value vs. Growth	0.5 to 2.5 times benchmark weight
U.S. Non-Large Growth	Percentage in Russell 2500	Sum must equal 100% of Non-Large Cap Domestic Equity allocation
International Large Cap vs. International Small Capvs. Emerging Markets	Large vs. Small vs. Emerging Percentage in MSCI ACWI ex U.S. (IMI)	0.5 to 2.5 times benchmark weight Sum must equal 100% of International Equity allocation

^{*} The Neutral Target is established based on these index weights every June 30.

MANAGEMENT STRUCTURE

The equity pools are managed by the following firms, in accordance with a particular investment style.

Manager	Style
Portable Alpha Pool	
U.S. Large Capitalization	
Russell Investments Implementation Services, LLC	Equity Beta Replication (including margin accounts)
BlackRock Institutional Trust Company, N.A.	Index Core
Hedge Fund Committee/Albourne America, LLC (consultant)	Alternative Risk Premia
Large Cap Domestic Equity Pool	
BlackRock Institutional Trust Company, N.A.	Index Core
Non-Large Domestic Equity Pool	
Westfield Capital Management Company, LLC	Growth at a Reasonable Price
Russell Investments Implementation Services, LLC	Relative Value
International Qualified and International Nonqualified Pools International Large Capitalization	
Silchester International Investors	All Country, Value
International Equity Pool	•
International Large Capitalization	
LSV Asset Management	All Country, Relative Value
International Small Capitalization	•
Oberweis Asset Management, Inc.	All Country, Growth
Acadian Asset Management, LLC	All Country, Quantitative Value
Emerging Markets	
Brandes Investment Partners, L.P.	Emerging Market, Value
Allianz Global Investors U.S. LLC	China, Growth at a Reasonable Price
Axiom International Investors, LLC	Emerging Market, Growth at a Reasonable Price

FINANCIAL HIGHLIGHTS (in \$000s)

Audited financial statements are prepared for each of the equity pools and are available at www.WVIMB.org. Financial Highlights for each pool are presented below:

Condensed Statement of Net Position	Portable Alpha		Large Cap Domestic Equity		Non-Large Cap Domestic Equity	
Investments	\$	5,142,215	\$	372,898	\$	995,522
Investment derivatives		32,308				-
Payable upon return of securities loaned		-		-		(54,346)
Cash received from brokers for						
derivative contracts		(14,557)		-		-
Receivable for investments sold		-		-		1,419
Payable for investments purchased		(75,000)				(16,201)
Other assets and liabilities, net		1,219		(21)		260
Net position - June 30, 2021	\$	5,086,185	\$	372,877	\$	926,654

FINANCIAL HIGHLIGHTS (continued in \$000s)

Condensed Statement of Net Position	International Qualified		International Nonqualified		Ir	nternational Equity
Investments	\$	1,451,822	\$	219,112	\$	3,936,878
Payable upon return of securities loaned		-		-		(45,134)
Cash		-		-		11,799
Receivable for investments sold		-		-		2,307
Payable for investments purchased		-		-		(1,841)
Other assets and liabilities, net		(51)		(8)		9,121
Net position - June 30, 2021	\$	1,451,771	\$	219,104	\$	3,913,130

Investments	Portable Alpha				
	Fair Value		Percent of Securities		
Notional value of S&P 500 derivatives	\$	2,420,700	46.8%		
S&P 500 index fund		2,852,933	55.2		
Total S&P 500 exposure		5,273,633	102.0		
Margin accounts:					
Money market mutual fund		427,319	8.3		
Enhanced cash collateral		332,996	6.4		
Downside protection (U.S. TIPS and Treasuries)		342,844	6.6		
Total available margin		1,103,159	21.3		
Alternative risk premia funds		1,186,123	22.9		
Total investment exposure		7,562,915	146.2		
Reconciliation to total investments:					
Less: Notional value of S&P 500 derivatives		(2,420,700)	(46.8)		
Add: Unrealized appreciation of S&P 500 derivatives		32,308	0.6		
Total	\$	5,174,523	100.0%		

Large Cap Domestic Equity **Investments**

	Fair Value		Securities
S&P 500 index fund	\$	367,198	98.5%
Money market mutual fund		5,700	1.5
Total	\$	372,898	100.0%

FINANCIAL HIGHLIGHTS (continued in \$000s)

Investments

Non-Large Cap Domestic Equity

	F	air Value	Securities
Equity sector exposure:			
Basic Materials	\$	20,130	2.0%
Communications Services		31,345	3.1
Consumer Discretionary		167,778	16.9
Consumer Staples		8,582	0.9
Energy		80,657	8.1
Financial Services		57,569	5.7
Health Care		125,129	12.6
Industrials		150,526	15.1
Real Estate		17,038	1.7
Technology		157,051	15.8
Total equities		815,805	81.9
Money market mutual funds		125,371	12.6
Investments made with cash collateral for			
securities loaned		54,346	5.5
Total	\$	995,522	100.0%

Investments

International Qualified

International Nonqualified

Fair Value	Percent of Securities	F	air Value	Percent of Securities
\$ 1,451,822	100.0%	\$	219,112	100.0%

Investments

MSCI EAFE commingled fund

International Equity

	I	Fair Value	Percent of Securities
International equities country exposure:			
Australia	\$	103,869	2.6%
Brazil		91,488	2.3
Canada		140,647	3.6
China		913,273	23.2
France		143,313	3.6
Germany		135,773	3.4
Hong Kong		110,707	2.8
India		132,998	3.4
Japan		383,783	9.7
Korea		258,055	6.6
Russia		84,454	2.1
Sweden		103,571	2.6
Switzerland		102,804	2.6
Taiwan		230,598	5.9
United Kingdom		264,421	6.7
All others (none greater than 2%)		612,906	15.8
Total international equities		3,812,660	96.9
Money market mutual fund		79,084	2.0
Securities lending collateral		45,134	1.1
Total	\$	3,936,878	100.0%

FINANCIAL HIGHLIGHTS (continued in \$000s)

Progression of Net Position	Portable Alpha		Large Cap Domestic Equity		Non-Large Cap Domestic Equity	
Net position - June 30, 2020	\$	-	\$	-	\$	-
Net investment income		1,404,349		274,082		382,249
Net in-kind transfers		3,778,171		141,139		790,270
Net decrease from unit transactions		(96,335)		(42,344)		(245,865)
Net position - June 30, 2021	\$	5,086,185	\$	372,877	\$	926,654

Progression of Net Position	International Qualified		International Nonqualified		It	nternational Equity
Net position - June 30, 2020	\$	1,029,324	\$	163,129	\$	3,448,856
Net investment income		372,113		55,924		1,403,779
Net increase (decrease) from unit transactions		50,334		51		(939,505)
Net position - June 30, 2021	\$	1,451,771	\$	219,104	\$	3,913,130

INVESTMENT PERFORMANCE

The IMB calculates total rates of return using the time-weighted rate of return methodology. The time-weighted method determines the rate of return exclusive of the effects of participant contributions or withdrawals. Actual rates of return are net of investment advisor fees.

Portable Alpha				ge Cap ic Equity	Non-Large Cap Domestic Equity		
Period	Actual	S&P 500	Actual	S&P 500	Actual	Russell 2500	
One-year	43.0%	40.8%	40.7%	40.8%	54.0%	57.8%	
Three-year	N/A	N/A	18.4%	18.7%	12.9%	15.2%	
Five-year	N/A	N/A	17.2%	17.7%	16.3%	16.4%	
Ten-year	N/A	N/A	14.8%	14.9%	12.3%	12.9%	
Twenty-year	N/A	N/A	8.6%	8.6%	10.3%	10.1%	

	Internation	nal Qualified	Internationa	l Nonqualified	International Equity		
Period	Actual	MSCI EAFE	Actual	MSCI EAFE	Actual	MSCI ACWI ex U.S.(IMI)*	
One-year	34.5%	32.9%	34.3%	32.9%	46.3%	37.7%	
Three-year	6.0%	8.8%	5.7%	8.8%	12.3%	9.9%	
Five-year	9.6%	10.8%	9.4%	10.8%	13.8%	11.7%	
Ten-year	7.9%	6.4%	7.7%	6.4%	6.7%	6.1%	
Twenty-year	9.9%	6.3%	9.6%	6.3%	6.9%	7.0%	

^{*}Prior to January 2014, the International Equity Pool index was the MSCI ACWI ex U.S. (Standard).

Equity Pool

EXPENSES

The IMB charges each investment pool for its direct investment-related expenses, such as investment advisor fees, custodian bank fees, and certain professional service fees, and an allocated share of other expenses. Expense ratios and trading costs do not reflect the pool's proportionate share of expenses of the underlying investee funds. The Equity Pool's expenses for the year, divided by the average net position, are as follows:

Expense Ratios (in basis points)	Portable Alpha	Large Cap Domestic Equity	Non-Large Cap Domestic Equity	International Qualified	International Nonqualified	International Equity
Investment advisor fees	2.2	0.7	8.6	52.2	59.8	44.8
Trustee fees	0.0*	0.0*	0.0*	0.0*	0.0*	0.0*
Custodian bank fees	0.1	0.0*	0.7	N/A	N/A	2.6
Management fees	2.3	2.1	2.2	2.3	2.3	2.3
Fiduciary bond fees	0.0*	0.0*	0.0*	0.0*	0.0*	0.0*
Professional service fees	0.9	0.4	0.4	0.4	0.4	0.4
Total	5.5	3.2	11.9	54.9	62.5	50.1

^{*} Expense Ratio rounds to less than 0.1 basis points.

Tra	ading Costs
(in	\$000s)

Net commission costs

Portable Alpha	Large Cap Domestic Equity	 on-Large Domestic Equity	International Qualified	International Nonqualified	Int	ernational Equity
\$ 539	N/A	\$ 915	N/A	N/A	\$	2,896

OBJECTIVES

The Short-Term Fixed Income Pool was created to maintain sufficient liquidity to meet the daily disbursements requested by the Participants and to invest any contributions until the time the money is transferred to other asset classes without sustaining capital losses and while earning a small return above inflation. The Short-Term Fixed Income Pool is structured as a money market fund where the goal is a stable dollar value per share, thus preserving principal. The pool's risk factor is low and managed through numerous maturity restrictions, diversification guidelines, and credit limits. The participants are paid on an income basis that includes interest income net of expenses.

MANAGEMENT STRUCTURE

The Short-Term Fixed Income Pool is managed by JPMorgan Investment Advisors, Inc.

FINANCIAL HIGHLIGHTS (in \$000s)

Audited financial statements for the Short-Term Fixed Income Pool are available at www.WVIMB.org. Financial Highlights are presented below.

Condensed Statement of Net Position

Investments	\$ 217,229
Payable for investments purchased	(24,996)
Other liabilities	(11)
Net position - June 30, 2021	\$ 192,222

Investments	Fair Value		Percent of Securities	
Commercial paper	\$	26,920	12.4%	
Money market mutual funds		39,753	18.3	
Repurchase agreement		47,669	21.9	

 Money market mutual funds
 39,753
 18.3

 Repurchase agreement
 47,669
 21.9

 U.S. Treasury bonds
 102,887
 47.4

 Total
 \$ 217,229
 100.0%

Progression of Net Position

Net position - June 30, 2020	\$ 616,541
Net investment income	70
Distributions to unitholders	(70)
Net decrease from unit transactions	(424,319)
Net position - June 30, 2021	\$ 192,222

INVESTMENT PERFORMANCE

The IMB calculates total rates of return using the time-weighted rate of return methodology. The time-weighted method determines the rate of return exclusive of the effects of participant contributions or withdrawals. Actual rates of return are net of investment advisor fees.

Period	Actual	FTSE 3 Month US T-Bill*
One-year	0.0%	0.1%
Three-year	1.2%	1.3%
Five-year	1.1%	1.1%
Ten-year	0.6%	0.6%
Twenty-year	1.4%	1.4%

^{*}Prior to January 2014, the Short-Term Fixed Income Pool index was the Citigroup 90 Day Treasury Bill plus 15 basis points.

EXPENSES

The IMB charges the pool for its direct investment-related expenses, such as investment advisor fees, custodian bank fees, and certain professional service fees, and an allocated share of other expenses. Expense ratios do not reflect the pool's proportionate share of expenses of the underlying investee funds. The Short-Term Fixed Income Pool's expenses for the year, divided by the average net position, are as follows:

Expense Ratios (in basis points)

3.5
0.0*
0.2
2.5
0.0*
0.5
6.7

^{*} Expense Ratio rounds to less than 0.1 basis points.

OBJECTIVES

The main objectives for the Fixed Income Pool are to generate investment income, provide stability, and enhance diversification but not at the expense of total return. Separate investment pools have been established for particular investment styles or to comply with specific accounting requirements. The strategic asset class, the Neutral Target allocation to the sub-component of the strategic asset class, as well as the approved Allocation Ranges within which the Allocation Committee can operate, are outlined below:

Category	Strategic Allocation	Allocation Range
Core Fixed Income		
Total Return Fixed Income		
Fixed Income Pool	20.0%	+/- 5% (15% to 25%)

Note: Each Participant has its own unique Strategic Allocation. The above example is for clarification purposes only.

Neutral Target	Allocation Range
30% Core Fixed Income	Minimum 20% to Maximum 70%
70% Total Return Fixed Income	Minimum 30% to Maximum 80%
	Sum must equal 100% of the Fixed Income allocation

^{*}The Neutral Target is approved by the Board.

MANAGEMENT STRUCTURE

The fixed income pools are managed by the following firms, in accordance with a particular investment style.

Manager	Style		
Total Return Fixed Income Pool			
Western Asset Management Company	Core Plus Fixed Income		
Dodge & Cox	Core Plus Fixed Income		
Franklin Templeton Investments	Emerging Markets Fixed Income		
Core Fixed Income Pool			
JPMorgan Investment Advisors, Inc.	Core Fixed Income		

FINANCIAL HIGHLIGHTS (in \$000s)

Audited financial statements are prepared for each of the fixed income pools and are available at www.WVIMB.org. Financial Highlights for each pool are presented below.

Condensed Statement of Net Position	Total Return Fixed Income	Core Fixed Income	
Investments	\$ 3,169,176	\$ 1,385,345	
Investment derivatives	12,779	-	
Payable upon return of securities loaned	(62,253)	(33,706)	
Cash	19,362	-	
Receivable for investments sold	96,960	24,707	
Payable for investments purchased	(186,187)	(65,308)	
Other assets and liabilities, net	14,966	4,789	
Net position – June 30, 2021	\$ 3,064,803	\$ 1,315,827	

FINANCIAL HIGHLIGHTS (continued in \$000s)

Investments	Total Return Fixed Income		Core Fixed Income	
	Fair Value	Percentage of Securities	Fair Value	Percentage of Securities
Commingled debt funds	\$ 415,969	13.2%	\$ -	0.0%
Corporate asset backed issues	89,782	2.8	122,533	8.8
Corporate CMO	68,176	2.1	96,733	7.0
Corporate preferred security	10,851	0.3	1,226	0.1
Foreign asset backed issues	45,895	1.4	3,508	0.3
Foreign corporate bonds	294,249	9.2	116,081	8.4
Foreign currency forward contracts	(1,653) (0.1)	-	0.0
Foreign equity investments	739	0.0	-	0.0
Foreign government bonds	331,607	10.4	6,606	0.5
Futures contracts	(1,415	0.0	-	0.0
Money market mutual fund	304,104	9.6	112,553	8.1
Municipal bonds	28,917	0.9	12,058	0.9
Option contracts purchased	1,453	0.0	-	0.0
Option contracts written	(1,911) (0.1)	-	0.0
Securities lending collateral	62,253	2.0	33,706	2.4
Swaps	16,305	0.5	-	0.0
U.S. corporate bonds	406,148	12.8	295,067	21.3
U.S. government agency bonds	170	0.0	-	0.0
U.S. government agency CMO	68,277	2.1	115,299	8.3
U.S. government agency MBS	440,128	13.9	208,278	15.0
U.S. Treasury issues	601,911	19.0	261,697	18.9
Total	\$ 3,181,955	100.0%	\$ 1,385,345	100.0%

Progression of Net Position

Net position - June 30, 2020
Net investment income
Net increase from unit transactions
Net position - June 30, 2021

	otal Return xed Income	Core Fixed Income	
\$	2,110,145	\$	926,249
	141,027		13,336
	813,631		376,242
\$	3,064,803	\$	1,315,827

INVESTMENT PERFORMANCE

Total Return Fixed Income	Core Fixed Income

Period	Actual	Bloomberg Barclays U.S. Universal Bond*	Actual	Bloomberg Barclays U.S. Aggregate Bond
One-year	5.9%	1.1%	1.4%	(0.3)%
Three-year	6.4%	5.6%	6.1%	5.4%
Five-year	5.3%	3.5%	3.6%	3.0%
Ten-year	4.4%	3.7%	4.0%	3.4%
Twenty-year	5.8%	5.0%	N/A	N/A

^{*} Prior to April 2008, the Total Return Fixed Income Pool index was a custom index.

EXPENSES

The IMB charges each investment pool for its direct investment-related expenses, such as investment advisor fees, custodian bank fees, and certain professional service fees, and an allocated share of other expenses. Expense ratios and trading costs do not reflect the pool's proportionate share of expenses of the underlying investee funds. The Fixed Income Pools' expenses for the operating period, divided by the average net position, are as follows:

Expense Ratios (in basis points)	Total Return Fixed Income	Core Fixed Income
Investment advisor fees	22.0	14.2
Trustee fees	0.0*	0.0*
Custodian bank fees	0.5	0.3
Management fees	2.3	2.3
Fiduciary bond fees	0.0*	0.0*
Professional service fees	0.4	0.4
Total	25.2	17.2

^{*} Expense Ratio rounds to less than 0.1 basis points.

Tra	ading Costs
(in	\$000s)

Commission costs

Total	Return	Core Fixed
Fixed	Income	Income
\$	994	N/A



OBJECTIVES

The TIPS Pool was established to offer an additional level of diversification over and above nominal fixed income securities in an attempt to mitigate the risk of inflation. The main objective for the pool is to generate a return that exceeds the rate of inflation over a market cycle, to provide investment income and stability of principal, and to diversify interest rate exposure.

MANAGEMENT STRUCTURE

The TIPS Pool is managed by BlackRock Institutional Trust Company, N.A.

FINANCIAL HIGHLIGHTS (in \$000s)

Audited financial statements for the TIPS Pool are available at www.WVIMB.org. Financial Highlights are presented below.

Condensed Statement of Net Position	
Investments	\$ 478,962
Other liabilities	 (34)
Net position - June 30, 2021	\$ 478,928

Investments	F	air Value	Percent of Securities
U.S. TIPS commingled fund	\$	478,962	100.0%
Progression of Net Position Net position - June 30, 2020	\$	290,634	
Net investment income		23,275	
Net increase from unit transactions		165,019	
Net position - June 30, 2021	\$	478,928	

INVESTMENT PERFORMANCE

Period	Actual	Bloomberg Barclays U.S. TIPS
One-year	6.6%	6.5%
Three-year	6.6%	6.5%
Five-year	4.3%	4.2%
Ten-year	3.4%	3.4%

TIPS Pool

EXPENSES

The IMB charges the pool for its direct investment-related expenses, such as investment advisor fees, custodian bank fees, and certain professional service fees, and an allocated share of other expenses. Expense ratios do not reflect the pool's proportionate share of expenses of the underlying investee funds. The TIPS Pool's expenses for the operating period, divided by the average net position, are as follows:

Expense Ratios (in basis points)

Investment advisor fees	1.8
Trustee fees	0.0*
Custodian bank fees	0.0*
Management fees	2.3
Fiduciary bond fees	0.0*
Professional service fees	0.4
Total	4.5

^{*} Expense Ratio rounds to less than 0.1 basis points.

OBJECTIVES

The objective of the Private Markets Pool is to enhance the diversification and stability of the portfolio, while generating a higher level of income than generally available in the public fixed income markets and to provide for long-term growth of participants' assets and risk-reduction through diversification. The Private Markets Pool is comprised of the private credit & income, private equity, and real estate strategies. Prior to July 1, 2017, each of these strategies were operated as individual investment pools. For operational efficiencies, the three pools were combined on July 1, 2017 to form the Private Markets Pool. Investment performance for each of these strategies is tracked separately and presented on the following page.

The private credit & income strategy is to invest in a broad spectrum of non-traditional income-oriented assets.

The private equity strategy is comprised of the following categories and target range allocations:

Category	Target Range
Corporate Finance	90-100%
Venture Capital	0-10%
U.S.	80-100%
Non-U.S.	0-20%

The real estate strategy is comprised of the following categories and target range allocations:

Category	Target	Target Range
Core	50%	+/- 20% (30% to 70%)
Value-Added	30%	+/- 20% (10% to 50%)
Opportunistic	20%	+/- 10% (10% to 30%)

MANAGEMENT STRUCTURE

Franklin Park, StepStone Group LP, and Verus have been retained by the IMB to provide consulting services related to the selection of limited partnerships and funds. The selection of investments are approved by the Private Equity or Real Estate Committees.

FINANCIAL HIGHLIGHTS (in \$000s)

Audited financial statements for the Private Markets Pool are available at www.WVIMB.org. Financial Highlights are presented below.

Investments	\$ 5,915,403
Payable upon return of securities loaned	(6,501)
Cash	13
Fund distributions receivable	12,838
Receivable for investments sold	379
Payable for investments purchased	(45)
Other assets and liabilities, net	(1,343)
Net position - June 30, 2021	\$ 5,920,744

FINANCIAL HIGHLIGHTS (in \$000s) (continued)

Investments	Fair Value		Percent of Securities
Corporate bonds	\$	13,267	0.2%
Equity investments		172,762	2.9
Money market mutual fund		165,668	2.8
Private credit & income funds		690,713	11.7
Private equity partnerships		2,910,517	49.2
Private real estate partnerships and funds		1,955,975	33.1
Securities lending collateral		6,501	0.1
Total	\$	5,915,403	100.0%
Progression of Net Position			
Net position - June 30, 2020	\$	4,807,545	
Net investment income		1,443,329	
Net decrease from unit transactions		(330,130)	
Net position - June 30, 2021	\$	5,920,744	

INVESTMENT PERFORMANCE BY STRATEGY

The IMB calculates total rates of return using the time-weighted rate of return methodology. The time-weighted method determines the rate of return exclusive of the effects of participant contributions or withdrawals. Actual rates of return are net of external investment management and/or partnership fees and expenses.

	Private Cr	edit & Income	Priva	te Equity	Rea	l Estate
Period	Actual	Credit Suisse Leveraged Loan plus 200 basis points**	Actual	Russell 3000 plus 300 basis points*	Actual	NCREIF Property Index plus 100 basis points
One-year	12.3%	13.7%	58.9%	47.2%	11.3%	3.6%
Three-year	7.1%	6.4%	31.1%	21.7%	6.2%	5.9%
Five-year	6.2%	7.1%	26.7%	20.9%	7.3%	6.8%
Ten-vear	N/A	N/A	19.7%	18.2%	8.7%	9.8%

^{*}Prior to January 2014, the Private Equity index was the S&P 500 plus 500 basis points.

EXPENSES

The IMB charges the pool for its direct investment-related expenses, such as investment advisor fees, custodian bank fees, and certain professional service fees, and an allocated share of other expenses. Expense ratios and trading costs do not reflect the pool's proportionate share of expenses of the underlying investee funds. Commission trading costs were \$162,000 for the year ended June 30, 2021. The Private Market Pool's expenses for the year, divided by the average net position, are as follows:

Expense Ratio (in basis points)

Investment advisor fees	2.3
Trustee fees	0.0*
Custodian bank fees	0.1
Management fees	2.3
Fiduciary bond fees	0.0*
External fees/Fund closing costs	16.8
Professional service fees	3.1
Total	24.6

^{*} Expense Ratio rounds to less than 0.1 basis points.

^{**}Prior to April 2017, the Private Credit & Income index was the Credit Suisse Leveraged Loan plus 250 basis points.

OBJECTIVES

The main objective for the Hedge Fund Pool is to reduce risk through diversification of participants' assets. Secondarily, the Hedge Fund Pool should provide for long-term growth.

The Hedge Funds are comprised of the following strategic categories and target range allocations:

Category	Target Range	Allocation Range
Core		
Relative Value	25-35%	20-50%
Event Driven	20-30%	15-35%
Long-Short Equity	20-30%	15-35%
Directional	10-20%	5-25%
Supplemental		
Long Biased	3-15%	0-20%
Private Equity	0-3%	0-5%
Private Credit	0-3%	0-5%
Real Assets	0-3%	0-5%

MANAGEMENT STRUCTURE

Albourne America, LLC has been retained by the IMB to provide consulting services for this investment strategy. The selection of investments are approved by the Hedge Fund Committee.

FINANCIAL HIGHLIGHTS (in \$000s)

Audited financial statements for the Hedge Fund Pool are available at www.WVIMB.org. Financial Highlights are presented below.

Condensed S	Statement o	of Net	Position
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Investments	\$ 2,317,162
Advance on investments in hedge funds	75,000
Investment funds redeemed	10,921
Other assets and liabilities, net	(30)
Net position - June 30, 2021	\$ 2,403,053
Net position - June 30, 2021	\$ 2,403,053

Investments	Fair Value		Percent of Securities
Hedge funds	\$	2,231,493	96.3%
Money market mutual fund		85,669	3.7
Total	\$	2,317,162	100.0%

Progression of Net Position

Net position - June 30, 2020	\$ 2,034,088
Net investment income	371,925
Net decrease from unit transactions	(2,960)
Net position - June 30, 2021	\$ 2,403,053

INVESTMENT PERFORMANCE

The IMB calculates total rates of return using the time-weighted rate of return methodology. The time-weighted method determines the rate of return exclusive of the effects of participant contributions or withdrawals. Actual rates of return are net of external investment management and/or partnership fees and expenses.

Period	Actual	HFRI FoF plus 100 basis points*
One-year	18.6%	19.3%
Three-year	6.7%	7.3%
Five-year	6.5%	7.1%
Ten-year	5.2%	4.9%

^{*} Prior to January 2014, the Hedge Fund index was LIBOR plus 400 basis points.

EXPENSES

The IMB charges the pool for its direct investment-related expenses, such as custodian bank fees and certain professional service fees, and an allocated share of other expenses. Expense ratios do not reflect the pool's proportionate share of expenses of the underlying investee funds. The Hedge Fund Pool's expenses for the year, divided by the average net position, are as follows:

Expense Ratio (in basis points)

Trustee fees	0.0*
Custodian bank fees	0.0*
Management fees	2.3
Fiduciary bond fees	0.0*
Professional service fees	2.3
Total	4.6

^{*} Expense Ratio rounds to less than 0.1 basis points.

PARTICIPANT PLANS

Participant Plans Overview

FINANCIAL HIGHLIGHTS (in \$000s)

Plan Balances as of June 30, 2021	Assets	Percent of Total	Page Reference
Pension Assets			
Deputy Sheriff's Retirement System	\$ 314,633	1.2%	31
Emergency Medical Services Retirement System	118,769	0.5	33
Judges' Retirement System	280,670	1.1	35
Municipal Police Officers' and Firefighters' Retirement System	23,816	0.1	37
Municipal Policemen's or Firemen's Pension and Relief Funds	9,815	0.0	39
Natural Resources Police Officer Retirement System	25,063	0.1	41
Public Employees' Retirement System	8,807,095	34.7	43
State Police Death, Disability and Retirement Fund	851,520	3.4	45
State Police Retirement System	301,156	1.2	47
Teachers' Retirement System	9,886,658	38.9	49
Insurance Assets			
Board of Risk and Insurance Management	194,839	0.8	51
Coal Workers' Pneumoconiosis Fund	247,663	1.0	53
Public Employees Insurance Agency	270,948	1.1	55
West Virginia Retiree Health Benefit Trust Fund	1,611,764	6.4	57
Workers' Compensation Old Fund	1,086,608	4.3	59
Workers' Compensation Self-Insured Employer Guaranty Risk Pool	39,772	0.2	61
Workers' Compensation Self-Insured Employer Security Risk Pool	56,201	0.2	63
Workers' Compensation Uninsured Employers' Fund	16,909	0.1	65
Endowment Assets			
Berkeley County Development Authority	8,428	0.0	67
Revenue Shortfall Reserve Fund	293,538	1.2	69
Revenue Shortfall Reserve Fund - Part B	557,458	2.2	71
West Virginia Department of Environmental Protection Agency	245,392	1.0	73
West Virginia Department of Environmental Protection Trust	11,837	0.0	75
West Virginia State Parks and Recreation Endowment Fund	6,465	0.0	77
Wildlife Endowment Fund	78,281	0.3	79
Total	\$ 25,345,298	100.0%	

HISTORY

The Deputy Sheriff's Retirement System (DSRS) was created in 1998.

LIQUIDITY NEEDS

DSRS currently has positive net cash flows.

INVESTMENT OBJECTIVES

The investment objectives are as follows:

- Exceed the actuarial interest rate assumption of 7.5 percent per annum, net of fees.
- Preserve the current well-funded position while not subjecting DSRS to an undue level of risk.

ASSET ALLOCATION

Based upon a determination of the appropriate risk tolerance, the Board adopted the following broad asset allocation guidelines for the assets managed for DSRS. Base and Strategic Allocations are established on a market value basis. The Allocation Committee has the authority to change the allocation within an established range around the Strategic Allocation for the public equity and fixed income asset classes. The range authority for public equities and fixed income is defined in the IMB's Investment Policy Statement for the Equity and Fixed Income Pools, respectively Appendix C. The domestic large capitalization allocation to Equity will be implemented through the use of the Portable Alpha Pool described in Appendix C. IMB Staff, in consultation with the appropriate representative(s) from DSRS will from time to time set a target for transactional cash needs. The Board will receive a report on the target level annually.

Asset Class	Base Allocation	Strategic Allocation
Equity (including Portable Alpha)	60.0%	50.0%
Fixed Income	40.0%	15.0%
Private Markets		
Private Credit and Income	0.0%	5.0%
Private Equity	0.0%	10.0%
Real Estate	0.0%	10.0%
Hedge Funds	0.0%	10.0%

Progression of Plan Balance

June 30, 2020	\$ 239,121
Contributions Withdrawals	 5,370 (6,377)
Net	(1,007)
Investment income Net appreciation	 - 76,519
June 30, 2021	\$ 314,633

Asset Allocation	Amount	Percent of Total
Portable Alpha	\$ 71,732	22.8%
Non-Large Cap Domestic	12,113	3.8
International Qualified	21,986	7.0
International Equity	51,592	16.4
Short-Term Fixed Income	878	0.3
Total Return Fixed Income	31,074	9.9
Core Fixed Income	13,352	4.2
Private Markets	83,255	26.5
Hedge Fund	28,651	9.1
Total	\$ 314,633	100.0%

INVESTMENT PERFORMANCE

Period	Actual	Target
One-year	32.1%	7.5%
Three-year	13.1%	7.5%
Five-year	12.9%	7.5%
Ten-year	9.9%	7.5%
Twenty-year	8.1%	7.5%

Emergency Medical Services Retirement System

HISTORY

The Emergency Medical Services Retirement System (EMSRS) was created by the *Emergency Medical Services Retirement System Act* effective January 1, 2008, under *West Virginia Code §16-5V-4*. EMSRS members with benefits earned in the Public Employees' Retirement System (PERS) transferred their full membership and benefits under PERS to EMSRS on the effective date.

LIQUIDITY NEEDS

EMSRS is expected to be in a positive net cash flow position for the foreseeable future.

INVESTMENT OBJECTIVES

The investment objectives are as follows:

- Exceed the actuarial interest rate assumption of 7.5 percent per annum, net of fees.
- Maintain adequate liquidity to satisfy benefit payments and not subject EMSRS to an undue level of risk.

ASSET ALLOCATION

Based upon a determination of the appropriate risk tolerance, the Board adopted the following broad asset allocation guidelines for the assets managed for EMSRS. Base and Strategic Allocations are established on a market value basis. The Allocation Committee has the authority to change the allocation within an established range around the Strategic Allocation for the public equity and fixed income asset classes. The range authority for public equities and fixed income is defined in the IMB's Investment Policy Statement for the Equity and Fixed Income Pools, respectively Appendix C. The domestic large capitalization allocation to Equity will be implemented through the use of the Portable Alpha Pool described in Appendix C. IMB Staff, in consultation with the appropriate representative(s) from EMSRS will from time to time set a target for transactional cash needs. The Board will receive a report on the target level annually.

Asset Class	Base Allocation	Strategic Allocation
Equity (including Portable Alpha)	60.0%	50.0%
Fixed Income	40.0%	15.0%
Private Markets		
Private Credit and Income	0.0%	5.0%
Private Equity	0.0%	10.0%
Real Estate	0.0%	10.0%
Hedge Funds	0.0%	10.0%

Progression of Plan Balance

June 30, 2020	\$ 88,627
Contributions Withdrawals	 2,835 (1,337)
Net	1,498
Investment income	-
Net appreciation	28,644
June 30, 2021	\$ 118,769

Asset Allocation	Amount	Percent of Total
Portable Alpha	\$ 27,136	22.9%
Non-Large Cap Domestic	4,567	3.8
International Qualified	8,263	7.0
International Equity	19,566	16.5
Short-Term Fixed Income	239	0.2
Total Return Fixed Income	11,687	9.8
Core Fixed Income	5,018	4.2
Private Markets	31,488	26.5
Hedge Fund	10,805	9.1
Total	\$ 118,769	100.0%

INVESTMENT PERFORMANCE

Period	Actual	Target
One-year	32.0%	7.5%
Three-year	13.1%	7.5%
Five-year	12.9%	7.5%
Ten-year	9.9%	7.5%

HISTORY

The Judges' Retirement System (JRS) was created in 1949.

LIQUIDITY NEEDS

JRS currently has slightly negative net cash flows.

INVESTMENT OBJECTIVES

The investment objectives are as follows:

- Exceed the actuarial interest rate assumption of 7.5 percent per annum, net of fees.
- Reduce the unfunded liability while maintaining adequate liquidity to satisfy benefit payments but not subjecting JRS
 to an undue level of risk.

ASSET ALLOCATION

Based upon a determination of the appropriate risk tolerance, the Board adopted the following broad asset allocation guidelines for the assets managed for JRS. Base and Strategic Allocations are established on a market value basis. The Allocation Committee has the authority to change the allocation within an established range around the Strategic Allocation for the public equity and fixed income asset classes. The range authority for public equities and fixed income is defined in the IMB's Investment Policy Statement for the Equity and Fixed Income Pools, respectively Appendix C. The domestic large capitalization allocation to Equity will be implemented through the use of the Portable Alpha Pool described in Appendix C. IMB Staff, in consultation with the appropriate representative(s) from JRS will from time to time set a target for transactional cash needs. The Board will receive a report on the target level annually.

Asset Class	Base Allocation	Strategic Allocation
Equity (including Portable Alpha)	60.0%	50.0%
Fixed Income	40.0%	15.0%
Private Markets		
Private Credit and Income	0.0%	5.0%
Private Equity	0.0%	10.0%
Real Estate	0.0%	10.0%
Hedge Funds	0.0%	10.0%

Progression of Plan Balance

June 30, 2020	\$ 215,698
Contributions Withdrawals Net	 736 (4,375) (3,639)
Investment income Net appreciation June 30, 2021	\$ 68,611 280,670

Asset Allocation	Amount		Percent of Total
Portable Alpha	\$	64,243	22.8%
Non-Large Cap Domestic		10,830	3.9
International Qualified		19,676	7.0
International Equity		46,199	16.5
Short-Term Fixed Income		452	0.2
Total Return Fixed Income		27,516	9.8
Core Fixed Income		11,811	4.2
Private Markets		74,355	26.5
Hedge Fund		25,588	9.1
Total	\$	280,670	100.0%

INVESTMENT PERFORMANCE

Period	Actual	Target
One-year	32.1%	7.5%
Three-year	13.1%	7.5%
Five-year	13.0%	7.5%
Ten-year	9.9%	7.5%
Twenty-year	8.1%	7.5%

HISTORY

Municipal Police Officers' and Firefighters' Retirement System (MPFRS) was created in 2010.

LIQUIDITY NEEDS

There are no anticipated liquidity needs at this time.

INVESTMENT OBJECTIVES

The investment objectives are as follows:

- Exceed the actuarial interest rate assumption of 7.5 percent per annum, net of fees.
- Maintain adequate liquidity to satisfy benefit payments and not subject MPFRS to an undue level of risk.

ASSET ALLOCATION

Based upon a determination of the appropriate risk tolerance, the Board adopted the following broad asset allocation guidelines for the assets managed for MPFRS. Base and Strategic Allocations are established on a market value basis. The Allocation Committee has the authority to change the allocation within an established range around the Strategic Allocation for the public equity and fixed income asset classes. The range authority for public equities and fixed income is defined in the IMB's Investment Policy Statement for the Equity and Fixed Income Pools, respectively Appendix C. The domestic large capitalization allocation to Equity will be implemented through the use of the Portable Alpha Pool described in Appendix C. IMB Staff, in consultation with the appropriate representative(s) from MPFRS will from time to time set a target for transactional cash needs. The Board will receive a report on the target level annually.

Asset Class	Base Allocation	Strategic Allocation
Equity (including Portable Alpha)	60.0%	50.0%
Fixed Income	40.0%	15.0%
Private Markets		
Private Credit and Income	0.0%	5.0%
Private Equity	0.0%	10.0%
Real Estate	0.0%	10.0%
Hedge Funds	0.0%	10.0%

Progression of Plan Balance

June 30, 2020	\$ 14,669
Contributions Withdrawals	 3,965 (20)
Net	 3,945
Investment income Net appreciation	5,202
June 30, 2021	\$ 23,816

Asset Allocation	Amount		Percent of Total
Portable Alpha	\$	5,251	22.0%
Non-Large Cap Domestic		878	3.7
International Qualified		1,571	6.6
International Equity		3,889	16.3
Short-Term Fixed Income		770	3.3
Total Return Fixed Income		2,267	9.5
Core Fixed Income		974	4.1
Private Markets		6,164	25.9
Hedge Fund		2,052	8.6
Total	\$	23,816	100.0%

INVESTMENT PERFORMANCE

Period	Actual	Target
One-year	31.6%	7.5%
Three-year	13.0%	7.5%
Five-year	12.8%	7.5%
Ten-year	9.9%	7.5%

Natural Resources Police Officer Retirement System

HISTORY

The Natural Resources Police Officers' Retirement System (NRPORS) was created under the Natural Resources Police Officers' Retirement System Act effective January 2, 2021, under West Virginia Code §20-18-4. NRPORS members with benefits earned in the Public Employees' Retirement System (PERS) transferred their full membership and benefits under PERS to NRPORS on the effective date January 2, 2021.

LIQUIDITY NEEDS

NRPORS is expected to be in a positive net cash flow position through fiscal year 2022.

INVESTMENT OBJECTIVES

The investment objectives are as follows:

- Exceed the actuarial interest rate assumption of 7.5 percent per annum, net of fees.
- Maintain adequate liquidity to satisfy benefit payments and not subject NRPORS to an undue level of risk.

ASSET ALLOCATION

Based upon a determination of the appropriate risk tolerance, the Board adopted the following broad asset allocation guidelines for the assets managed for NRPORS. Base and Strategic Allocations are established on a market value basis. The Allocation Committee has the authority to change the allocation within an established range around the Strategic Allocation for the public equity and fixed income asset classes. The range authority for public equities and fixed income is defined in the IMB's Investment Policy Statement for the Equity and Fixed Income Pools, respectively Appendix C. The domestic large capitalization allocation to Equity will be implemented through the use of the Portable Alpha Pool described in Appendix C. IMB Staff, in consultation with the appropriate representative(s) from NRPORS will from time to time set a target for transactional cash needs. The Board will receive a report on the target level annually.

Asset Class	Base Allocation	Strategic Allocation
Equity (including Portable Alpha)	60.0%	50.0%
Fixed Income	40.0%	15.0%
Private Markets		
Private Credit and Income	0.0%	5.0%
Private Equity	0.0%	10.0%
Real Estate	0.0%	10.0%
Hedge Funds	0.0%	10.0%

Progression of Plan Balance

June 30, 2020	\$ -
Contributions Withdrawals Net	 22,077 (10) 22,067
Investment income Net appreciation June 30, 2021	\$ 2,996 25,063

Asset Allocation	Amount		Percent of Total
Portable Alpha	\$	5,665	22.6%
Non-Large Cap Domestic		944	3.8
International Qualified		1,704	6.8
International Equity		4,115	16.4
Short-Term Fixed Income		315	1.2
Total Return Fixed Income		2,435	9.7
Core Fixed Income		1,050	4.2
Private Markets		6,591	26.3
Hedge Fund		2,244	9.0
Total	\$	25,063	100.0%

INVESTMENT PERFORMANCE

Investment returns are not reported for periods of less than one year.

HISTORY

West Virginia Code §8-22-22 offers municipalities the ability to invest Policemen's or Firemen's Pension and Relief Funds established under West Virginia Code §8-22 in the investment pools operated by the IMB. Collectively all municipal plans will be grouped in this section and referred to as the Municipal Policemen's or Firemen's Pension and Relief Funds. The IMB received monies from the first municipality on July 17, 2013.

MUNICIPAL RETIREMENT PLANS INVESTMENT ALLOCATIONS

The IMB investment staff has created various model allocations that utilize percentage mixes of the investment pools operated by the IMB. The models can be found in the tables below. The IMB will work with the municipal retirement plan's authorized party to determine the appropriate investment model based on information provided by the plan and Municipal Pensions Oversight Board. Model A plans are those that meet statutory or actuarially required minimum employer contributions. Model B plans are those that do not meet statutory or actuarially required minimum employer contributions. Base and Strategic Allocations are established on a market value basis. The Allocation Committee has the authority to change the allocation within an established range around the Strategic Allocation for the public equity and fixed income asset classes. The range authority for public equities and fixed income is defined in the IMB's Investment Policy Statement for the Equity and Fixed Income Pools, respectively Appendix C. IMB Staff, in consultation with the appropriate representative(s) from the Participant Plan will from time to time set a target for transactional cash needs. The Board will receive a report on the target level annually.

The potential investment models include:

Model / Asset Class	Base Allocation	Strategic Allocation
Model A:		
Equity (including Portable Alpha)	60%	50%
Fixed Income	40%	15%
Private Markets		
Private Credit and Income	0%	5%
Private Equity	0%	10%
Real Estate	0%	10%
Hedge Funds	0%	10%
Model B:		
Equity	55%	55%
Fixed Income	45%	45%

The following IMB Investment Pools may be used for these Investment Types. The weighting and allocation of the Pools within each Investment Type is determined by the Board as expressed in the IMB's Investment Policy Statement.

Equity

- Portable Alpha
- Large Cap Domestic
- Non-Large Cap Domestic
- International Qualified
- International Equity

Fixed Income

- Total Return Fixed Income
- Core Fixed Income

Private Credit and Income

Private Markets

Private Equity

Private Markets

Real Estate

• Private Markets

Hedge Funds

Hedge Fund

Cash

• Short-Term Fixed Income (exact allocations to be determined based on plan needs)

SUMMARY OF PLAN BALANCES (in \$000s)

	Amount
Model A: Town of Belle Policemen's Pension and Relief Fund City of Chester Policemen's Pension and Relief Fund Williamson Firemen's Pension and Relief Fund City of Williamson Policemen's Pension and Protection Fund	\$ 1,601 2,066 2,193 1,618
Model B: The Policemen's Pension and Relief Fund of Point Pleasant	2,338
Total	\$ 9,816

Public Employees' Retirement System

HISTORY

The Public Employees' Retirement System (PERS) was created in 1961.

LIQUIDITY NEEDS

PERS is expected to have modest liquidity needs of approximately 1 to 2 percent per year for the foreseeable future.

INVESTMENT OBJECTIVES

The investment objectives are as follows:

- Exceed the actuarial interest rate assumption of 7.5 percent per annum, net of fees.
- Reduce the unfunded liability while maintaining adequate liquidity to satisfy benefit payments and not subjecting PERS to an undue level of risk.

ASSET ALLOCATION

Based upon a determination of the appropriate risk tolerance, the Board adopted the following broad asset allocation guidelines for the assets managed for PERS. Base and Strategic Allocations are established on a market value basis. The Allocation Committee has the authority to change the allocation within an established range around the Strategic Allocation for the public equity and fixed income asset classes. The range authority for public equities and fixed income is defined in the IMB's Investment Policy Statement for the Equity and Fixed Income Pools, respectively Appendix C. The domestic large capitalization allocation to Equity will be implemented through the use of the Portable Alpha Pool described in Appendix C. IMB Staff, in consultation with the appropriate representative(s) from PERS will from time to time set a target for transactional cash needs. The Board will receive a report on the target level annually.

Asset Class	Base Allocation	Strategic Allocation
Equity (including Portable Alpha)	60.0%	50.0%
Fixed Income	40.0%	15.0%
Private Markets		
Private Credit and Income	0.0%	5.0%
Private Equity	0.0%	10.0%
Real Estate	0.0%	10.0%
Hedge Funds	0.0%	10.0%

Progression of Plan Balance

June 30, 2020	\$ 6,899,129
Contributions Withdrawals Net	 114,676 (377,003) (262,327)
Investment income Net appreciation June 30, 2021	\$ 4 2,170,289 8,807,095

Asset Allocation	Amount	Percent of Total
Portable Alpha	\$ 2,014,704	22.8%
Non-Large Cap Domestic	341,413	3.9
International Qualified	621,044	7.1
International Equity	1,437,612	16.3
Short-Term Fixed Income	15,975	0.2
Total Return Fixed Income	860,124	9.8
Core Fixed Income	369,817	4.2
Private Markets	2,341,876	26.6
Hedge Fund	804,530	9.1
Total	\$ 8,807,095	100.0%

INVESTMENT PERFORMANCE

Period	Actual	Target
One-year	32.1%	7.5%
Three-year	13.1%	7.5%
Five-year	12.9%	7.5%
Ten-year	9.9%	7.5%
Twenty-year	8.1%	7.5%

HISTORY

The State Police Death, Disability and Retirement Fund (SPDDRF) was created in 1925.

LIQUIDITY NEEDS

SPDDRF is now a closed plan and is expected to experience an increasingly negative cash flow position in the near future.

INVESTMENT OBJECTIVES

The investment objectives are as follows:

- Exceed the actuarial interest rate assumption of 7.5 percent per annum, net of fees.
- Reduce the unfunded liability while maintaining adequate liquidity to satisfy benefit payments and not subjecting SPDDRF to an undue level of risk.

ASSET ALLOCATION

Based upon a determination of the appropriate risk tolerance, the Board adopted the following broad asset allocation guidelines for the assets managed for SPDDRF. Base and Strategic Allocations are established on a market value basis. The Allocation Committee has the authority to change the allocation within an established range around the Strategic Allocation for the public equity and fixed income asset classes. The range authority for public equities and fixed income is defined in the IMB's Investment Policy Statement for the Equity and Fixed Income Pools, respectively Appendix C. The domestic large capitalization allocation to Equity will be implemented through the use of the Portable Alpha Pool described in Appendix C. IMB Staff, in consultation with the appropriate representative(s) from SPDDRF will from time to time set a target for transactional cash needs. The Board will receive a report on the target level annually.

Asset Class	Base Allocation	Strategic Allocation
Equity (including Portable Alpha)	60.0%	50.0%
Fixed Income	40.0%	15.0%
Private Markets		
Private Credit and Income	0.0%	5.0%
Private Equity	0.0%	10.0%
Real Estate	0.0%	10.0%
Hedge Funds	0.0%	10.0%

Progression of Plan Balance

June 30, 2020	\$ 675,608
Contributions Withdrawals	17,534 (50,277)
Net	(32,743)
Investment income	1
Net appreciation	208,654
June 30, 2021	\$ 851,520

Asset Allocation	Amount	Percent of Total
Portable Alpha	\$ 190,006	22.5%
Non-Large Cap Domestic	32,539	3.8
International Qualified	59,755	7.0
International Equity	135,397	15.9
Short-Term Fixed Income	17,265	2.0
Total Return Fixed Income	80,271	9.4
Core Fixed Income	34,451	4.0
Private Markets	224,877	26.4
Hedge Fund	76,959	9.0
Total	\$ 851,520	100.0%

INVESTMENT PERFORMANCE

Period	Actual	Target
One-year	32.1%	7.5%
Three-year	13.0%	7.5%
Five-year	12.9%	7.5%
Ten-year	9.9%	7.5%
Twenty-year	8.1%	7.5%

State Police Retirement System

HISTORY

The State Police Retirement System (SPRS) was created in 1994.

LIQUIDITY NEEDS

SPRS is expected to be in a positive net cash flow position for the foreseeable future.

INVESTMENT OBJECTIVES

The investment objectives are as follows:

- Exceed the actuarial interest rate assumption of 7.5 percent per annum, net of fees.
- Reduce the unfunded liability while maintaining adequate liquidity to satisfy benefit payments and not subjecting SPRS to an undue level of risk.

ASSET ALLOCATION

Based upon a determination of the appropriate risk tolerance, the Board adopted the following broad asset allocation guidelines for the assets managed for SPRS. Base and Strategic Allocations are established on a market value basis. The Allocation Committee has the authority to change the allocation within an established range around the Strategic Allocation for the public equity and fixed income asset classes. The range authority for public equities and fixed income is defined in the IMB's Investment Policy Statement for the Equity and Fixed Income Pools, respectively Appendix C. The domestic large capitalization allocation to Equity will be implemented through the use of the Portable Alpha Pool described in Appendix C. IMB Staff, in consultation with the appropriate representative(s) from SPRS will from time to time set a target for transactional cash needs. The Board will receive a report on the target level annually.

Asset Class	Base Allocation	Strategic Allocation
Equity (including Portable Alpha)	60.0%	50.0%
Fixed Income	40.0%	15.0%
Private Markets		
Private Credit and Income	0.0%	5.0%
Private Equity	0.0%	10.0%
Real Estate	0.0%	10.0%
Hedge Funds	0.0%	10.0%

Progression of Plan Balance

June 30, 2020	\$ 220,921
Contributions Withdrawals	9,085 (988)
Net	8,097
Investment income Net appreciation	72,138
June 30, 2021	\$ 301,156

Asset Allocation	Amount	Percent of Total
Portable Alpha	\$ 68,297	22.7%
Non-Large Cap Domestic	11,510	3.8
International Qualified	20,792	6.9
International Equity	49,684	16.5
Short-Term Fixed Income	1,738	0.6
Total Return Fixed Income	29,691	9.9
Core Fixed Income	12,753	4.2
Private Markets	79,519	26.4
Hedge Fund	27,172	9.0
Total	\$ 301,156	100.0%

INVESTMENT PERFORMANCE

Period	Actual	Target
One-year	32.1%	7.5%
Three-year	13.1%	7.5%
Five-year	12.9%	7.5%
Ten-year	9.9%	7.5%
Twenty-year	8.1%	7.5%

Teachers' Retirement System

HISTORY

The Teachers' Retirement System (TRS) was created in 1941. It was closed to new members in 1991, but reopened to first-time hires as of July 1, 2005. Employees hired from 1991 through June 30, 2005, joined the Teachers' Defined Contribution Plan (TDC). In the spring of 2008, more than 78 percent of the participants in the Teachers' Defined Contribution Plan elected to transfer their TDC account balance to TRS and become participants in TRS. This transfer occurred in July 2008.

LIQUIDITY NEEDS

TRS has a net negative cash flow position and will likely continue to have substantial liquidity needs of at least 10 percent per year.

INVESTMENT OBJECTIVES

The investment objectives are as follows:

- Exceed the actuarial interest rate assumption of 7.5 percent per annum, net of fees.
- Reduce the unfunded liability while maintaining adequate liquidity to satisfy benefit payments and not subjecting TRS to an undue level of risk.

ASSET ALLOCATION

Based upon a determination of the appropriate risk tolerance, the Board adopted the following broad asset allocation guidelines for the assets managed for TRS. Base and Strategic Allocations are established on a market value basis. The Allocation Committee has the authority to change the allocation within an established range around the Strategic Allocation for the public equity and fixed income asset classes. The range authority for public equities and fixed income is defined in the IMB's Investment Policy Statement for the Equity and Fixed Income Pools, respectively Appendix C. The domestic large capitalization allocation to Equity will be implemented through the use of the Portable Alpha Pool described in Appendix C. IMB Staff, in consultation with the appropriate representative(s) from TRS will from time to time set a target for transactional cash needs. The Board will receive a report on the target level annually.

Asset Class	Base Allocation	Strategic Allocation
Equity (including Portable Alpha)	60.0%	50.0%
Fixed Income	40.0%	15.0%
Private Markets		
Private Credit and Income	0.0%	5.0%
Private Equity	0.0%	10.0%
Real Estate	0.0%	10.0%
Hedge Funds	0.0%	10.0%

Progression of Plan Balance

June 30, 2020	\$ 7,820,075
Contributions Withdrawals	445,500 (808,625)
Net	 (363,125)
Investment income	8
Net appreciation	 2,429,700
June 30, 2021	\$ 9,886,658

Asset Allocation	Amount	Percent of Total
Portable Alpha	\$ 2,248,941	22.8%
Non-Large Cap Domestic	381,614	3.9
International Qualified	696,272	7.0
International Equity	1,602,687	16.2
Short-Term Fixed Income	74,745	0.8
Total Return Fixed Income	953,290	9.6
Core Fixed Income	409,963	4.1
Private Markets	2,619,894	26.5
Hedge Fund	899,252	9.1
Total	\$ 9,886,658	100.0%

INVESTMENT PERFORMANCE

Period	Actual	Target
One-year	32.0%	7.5%
Three-year	13.0%	7.5%
Five-year	12.9%	7.5%
Ten-year	9.9%	7.5%
Twenty-year	7.9%	7.5%

Board of Risk and Insurance Management

HISTORY

The Board of Risk and Insurance Management (BRIM) is a State entity charged with providing insurance coverage to all State agencies, as well as cities, counties, and non-profit organizations throughout West Virginia. BRIM also provides a coal mine subsidence reinsurance program that allows homeowners and businesses to obtain insurance coverage up to \$75,000 for collapses and damage caused by underground coal mines.

LIQUIDITY NEEDS

According to representatives of the Plan, there may be some current liquidity needs in the next few fiscal years, not to exceed 10 percent in any given year. BRIM requires a cash reserve account for collateral purposes amounting to approximately 15 percent of the funds for investment. This amount is held in the Consolidated Fund, which is administered by the West Virginia Board of Treasury Investments and utilized at BRIM's discretion.

INVESTMENT OBJECTIVES

The investment objectives are as follows:

- Provide adequate liquidity to meet the cash flow requirements.
- Given the expected infinite life of the fund, allow for growth of assets in an amount at least equal to expected inflation.

ASSET ALLOCATION

Based upon a determination of the appropriate risk tolerance, the Board adopted the following broad asset allocation guidelines for the assets managed for BRIM. Base and Strategic Allocations are established on a market value basis. The Allocation Committee has the authority to change the allocation within an established range around the Strategic Allocation for the public equity and fixed income asset classes. The range authority for public equities and fixed income is defined in the IMB's Investment Policy Statement for the Equity and Fixed Income Pools, respectively Appendix C.

Asset Class	Base Allocation	Strategic Allocation
Equity	20.0%	30.0%
Fixed Income	80.0%	35.0%
TIPS	0.0%	10.0%
Hedge Fund	0.0%	20.0%
Cash*	0.0%	5.0%

^{*} IMB Staff has authority to change the cash target up to 5 percent during a fiscal year, in consultation with the appropriate representative(s) from BRIM.

Progression of Plan Balance

June 30, 2020	\$ 164,662
Contributions Withdrawals	 - -
Net	-
Investment income	2
Net appreciation	30,175
June 30, 2021	\$ 194,839

Asset Allocation	Amount	Percent of Total
Large Cap Domestic	\$ 27,605	14.2%
Non-Large Cap Domestic	4,738	2.4
International Nonqualified	8,061	4.1
International Equity	20,241	10.4
Short-Term Fixed Income	9,591	4.9
Total Return Fixed Income	47,257	24.3
Core Fixed Income	20,252	10.4
TIPS	19,529	10.0
Hedge Fund	 37,565	19.3
Total	\$ 194,839	100.0%

INVESTMENT PERFORMANCE

Period	Actual
One-year	18.3%
Three-year	8.7%
Five-year	8.0%
Ten-year	6.1%

HISTORY

The Coal Workers' Pneumoconiosis Fund (CWPF) was formed in 1974 to provide insurance coverage to coal operators for their potential liability under the *Federal Coal Mine Health and Safety Act of 1969*. Upon termination of the West Virginia Workers' Compensation Commission, the assets and liabilities of CWPF remained with the State for administration of the runoff of the liabilities incurred during the years of operation. Effective January 1, 2006, insurance coverage for liabilities incurred under the *Federal Coal Mine Health and Safety Act of 1969* is provided by private insurance carriers and is no longer available through the State.

LIQUIDITY NEEDS

Liquidity needs are actuarially determined based on the run-off of liabilities, which are assessed annually.

INVESTMENT OBJECTIVES

The investment objectives are as follows:

- Exceed the actuarial interest rate assumption of 5.0 percent per annum, net of fees.
- Preserve the current surplus position.

ASSET ALLOCATION

Based upon a determination of the appropriate risk tolerance, the Board adopted the following broad asset allocation guidelines for the assets managed for CWPF. Base and Strategic Allocations are established on a market value basis. The Allocation Committee has the authority to change the allocation within an established range around the Strategic Allocation for the public equity and fixed income asset classes. The range authority for public equities and fixed income is defined in the IMB's Investment Policy Statement for the Equity and Fixed Income Pools, respectively Appendix C.

Asset Class	Base Allocation	Strategic Allocation
Equity	30.0%	30.0%
Fixed Income	70.0%	35.0%
TIPS	0.0%	10.0%
Hedge Fund	0.0%	20.0%
Cash*	0.0%	5.0%

^{*} IMB Staff has authority to change the cash target up to 5 percent, within a fiscal year, in consultation with the appropriate representative(s) from CWPF.

Progression of Plan Balance

June 30, 2020	\$ 223,717
Contributions Withdrawals	13 (16,098)
Net	(16,085)
Investment income Net appreciation	 2 40,029
June 30, 2021	\$ 247,663

Asset Allocation	Amount	Percent of Total
Large Cap Domestic	\$ 35,133	14.2%
Non-Large Cap Domestic	6,144	2.5
International Nonqualified	10,659	4.3
International Equity	25,552	10.3
Short-Term Fixed Income	9,634	3.9
Total Return Fixed Income	60,700	24.5
Core Fixed Income	25,989	10.5
TIPS	25,097	10.1
Hedge Fund	48,755	19.7
Total	\$ 247,663	100.0%

INVESTMENT PERFORMANCE

Period	Actual	Target
One-year	18.4%	5.0%
Three-year	8.7%	5.0%
Five-year	8.0%	5.0%
Ten-year	6.1%	5.0%
Twenty-year	6.0%	5.0%

Public Employees Insurance Agency

HISTORY

The Public Employees Insurance Agency (PEIA) is a State entity charged with providing health insurance coverage to eligible public employees.

LIQUIDITY NEEDS

PEIA projects net cash outflows from operations every year going forward. This anticipated liquidity need within a three-year time horizon indicates a substantial allocation to cash is appropriate. PEIA currently manages part of its cash allocation and invests this amount with the West Virginia Board of Treasury Investments. The IMB collaborates with management at PEIA to monitor combined cash levels.

INVESTMENT OBJECTIVES

The investment objectives are as follows:

- Provide adequate liquidity to meet the cash flow requirements.
- Given the expected infinite life of the fund, allow for growth of assets in an amount at least equal to expected inflation.

ASSET ALLOCATION

Based upon a determination of the appropriate risk tolerance, the Board adopted the following broad asset allocation guidelines for the assets managed for PEIA. Base and Strategic Allocations are established on a market value basis. The Allocation Committee has the authority to change the allocation within an established range around the Strategic Allocation for the public equity and fixed income asset classes. The range authority for public equities and fixed income is defined in the IMB's Investment Policy Statement for the Equity and Fixed Income Pools, respectively Appendix C. IMB Staff, in consultation with the appropriate representative(s) from PEIA will from time to time set a target for transactional cash needs. The Board will receive a report on the target level annually.

Asset Class	Base Allocation	Strategic Allocation
Equity	20.0%	25.0%
Fixed Income	80.0%	40.0%
TIPS	0.0%	15.0%
Hedge Fund	0.0%	20.0%

Progression of Plan Balance

June 30, 2020	\$ 260,386
Contributions Withdrawals	(20,000)
Withdrawais Net	 (30,000)
Investment income	2
Net appreciation	40,560
June 30, 2021	\$ 270,948

Asset Allocation	Amount	Percent of Total
Large Cap Domestic	\$ 32,032	11.9%
Non-Large Cap Domestic	5,426	2.0
International Nonqualified	9,573	3.5
International Equity	23,308	8.6
Total Return Fixed Income	75,232	27.8
Core Fixed Income	32,254	11.9
TIPS	40,744	15.0
Hedge Fund	 52,379	19.3
Total	\$ 270,948	100.0%

INVESTMENT PERFORMANCE

Period	Actual
One-year	16.0%
Three-year	8.3%
Five-year	7.7%
Ten-year	6.1%

West Virginia Retiree Health Benefit Trust Fund

HISTORY

The West Virginia Retiree Health Benefit Trust Fund (RHBTF) was created under West Virginia Code §5-16D for the purpose of providing for and administering retiree post-employment health care benefits, and the respective revenues and costs of those benefits as a cost sharing multiple employer plan.

LIQUIDITY NEEDS

RHBTF assets managed by the IMB are expected to be long-term in nature and have no liquidity needs as deemed by PEIA, which administers these assets. Short-term projected cash needs for RHBTF are calculated by PEIA and held in reserve in PEIA cash accounts.

INVESTMENT OBJECTIVES

The investment objectives are as follows:

- Exceed the investment return assumption of 7.5 percent per annum, net of fees.
- To provide stable, long term growth of assets, while seeking to minimize the risk of loss.

ASSET ALLOCATION

Based upon a determination of the appropriate risk tolerance, the Board adopted the following broad asset allocation guidelines for the assets managed for RHBTF. Base and Strategic Allocations are established on a market value basis. The Allocation Committee has the authority to change the allocation within an established range around the Strategic Allocation for the public equity and fixed income asset classes. The range authority for public equities and fixed income is defined in the IMB's Investment Policy Statement for the Equity and Fixed Income Pools, respectively Appendix C. The domestic large capitalization allocation to Equity will be implemented through the use of the Portable Alpha Pool described in Appendix C. IMB Staff, in consultation with the appropriate representative(s) from RHBTF will from time to time set a target for transactional cash needs. The Board will receive a report on the target level annually.

Asset Class	Base Allocation	Strategic Allocation
Equity (including Portable Alpha)	60.0%	50.0%
Fixed Income	40.0%	15.0%
Private Markets		
Private Credit and Income	0.0%	5.0%
Private Equity	0.0%	10.0%
Real Estate	0.0%	10.0%
Hedge Funds	0.0%	10.0%

Progression of Plan Balance

June 30, 2020	\$ 1,150,228
Contributions Withdrawals	80,000
Net	80,000
Investment income Net appreciation	4 381,532
June 30, 2021	\$ 1,611,764

Asset Allocation		Amount	Percent of Total
Portable Alpha	\$	368,871	22.9%
Non-Large Cap Domestic	Ψ	61,930	3.8
International Nonqualified		101,668	6.3
International Equity		275,089	17.1
Total Return Fixed Income		160,742,	10.0
Core Fixed Income		69,018	4.3
Private Markets		427,762	26.5
Hedge Fund		146,684	9.1
Total	\$	1,611,764	100.0%

INVESTMENT PERFORMANCE

Period	Actual
One-year	31.8%
Three-year	13.1%
Five-year	12.9%
Ten-year	9.8%

Workers' Compensation Old Fund

HISTORY

Formed in January 2006, the Workers' Compensation Old Fund (Old Fund) assumed responsibility for payment of all workers' compensation claims and liabilities incurred by the former West Virginia Workers' Compensation Commission prior to July 1, 2005. After July 1, 2005, workers' compensation claims or liabilities incurred are covered by private insurance carriers.

LIQUIDITY NEEDS

Liquidity needs are uncertain due to legislation that reduced funding sources. Regardless, the Old Fund is expected to have a negative net cash flow position. Liquidity needs for short-term cash (amount necessary for approximately 12 months' worth of anticipated claims) will continue to be reviewed annually with the West Virginia Office of the Insurance Commissioner. Currently, a cash balance is held in the Old Fund in an amount equal to 5 percent of assets which should be adequate to meet the needs of the Old Fund even with funding uncertainty.

INVESTMENT OBJECTIVES

The investment objectives are as follows:

- Preservation of principal and minimization of volatility, while still achieving some investment earnings growth adjusted for inflation.
- Provide adequate liquidity to meet cash flow requirements.

ASSET ALLOCATION

Based upon a determination of the appropriate risk tolerance, the Board adopted the following broad asset allocation guidelines for the assets managed for the Old Fund. Base and Strategic Allocations are established on a market value basis. The Allocation Committee has the authority to change the allocation within an established range around the Strategic Allocation for the public equity and fixed income asset classes. The range authority for public equities and fixed income is defined in the IMB's Investment Policy Statement for the Equity and Fixed Income Pools, respectively Appendix C.

Asset Class	Base Allocation	Strategic Allocation
Equity	30.0%	30.0%
Fixed Income	70.0%	40.0%
TIPS	0.0%	10.0%
Hedge Funds	0.0%	15.0%
Cash*	0.0%	5.0%

^{*} IMB Staff has authority to change the cash target up to 5 percent, during a fiscal year, in consultation with the appropriate representative(s) from the Old Fund.

Progression of Plan Balance

June 30, 2020	\$ 1,013,189
Contributions Withdrawals Net	23,415 (120,904) (97,489)
Investment income Net appreciation June 30, 2021	\$ 9 170,899 1,086,608

Asset Allocation	Amount	Percent of Total
Large Cap Domestic	\$ 153,094	14.0%
Non-Large Cap Domestic	26,839	2.5
International Nonqualified	46,570	4.3
International Equity	110,905	10.2
Short-Term Fixed Income	47,573	4.4
Total Return Fixed Income	302,382	27.8
Core Fixed Income	129,061	11.9
TIPS	109,547	10.1
Hedge Fund	 160,637	14.8
Total	\$ 1,086,608	100.0%

INVESTMENT PERFORMANCE

Period	Actual
One-year	17.6%
Three-year	8.7%
Five-year	7.9%
Ten-year	5.9%

The Workers' Compensation Self-Insured Guaranty Risk Pool (Self-Insured Pool) was established on January 1, 2006, for the purpose of paying the workers' compensation claims of defaulted self-insured employers occurring on or after July 1, 2004. It consists of those funds transferred, and any future funds collected, as provided by law.

LIQUIDITY NEEDS

As all current and active self-insured employers are required to provide a bond, security, or other collateral to the West Virginia Office of the Insurance Commissioner in the event of a deteriorating financial condition, it is anticipated that the liquidity position of this fund should remain stable. A small cash reserve will be held in the event of an unforeseen emergency, as is possible with an insurance program of this kind.

INVESTMENT OBJECTIVES

The investment objectives are as follows:

- Provide adequate liquidity to meet cash flow requirements.
- Given the expected infinite life of the fund, allow for growth of assets in an amount at least equal to expected inflation.

ASSET ALLOCATION

Based upon a determination of the appropriate risk tolerance, the Board adopted the following broad asset allocation guidelines for the assets managed for the Self-Insured Pool. Base and Strategic Allocations are established on a market value basis. The Allocation Committee has the authority to change the allocation within an established range around the Strategic Allocation for the public equity and fixed income asset classes. The range authority for public equities and fixed income is defined in the IMB's Investment Policy Statement for the Equity and Fixed Income Pools, respectively Appendix C.

Asset Class	Base Allocation	Strategic Allocation
Equity	30.0%	30.0%
Fixed Income	70.0%	35.0%
TIPS	0.0%	10.0%
Hedge Fund	0.0%	20.0%
Cash*	0.0%	5.0%

^{*} IMB Staff has authority to change the cash target up to 5 percent, during a fiscal year, in consultation with the appropriate representative(s) from the Self-Insured Pool.

Progression of Plan Balance

June 30, 2020	\$ 34,115
Contributions Withdrawals	253 (819)
Net	 (566)
Investment income	-
Net appreciation	6,223
June 30, 2021	\$ 39,772

Asset Allocation	Amount	Percent of Total
Large Cap Domestic	\$ 5,639	14.1%
Non-Large Cap Domestic	975	2.5
International Nonqualified	1,675	4.2
International Equity	4,126	10.4
Short-Term Fixed Income	1,831	4.6
Total Return Fixed Income	9,668	24.3
Core Fixed Income	4,142	10.4
TIPS	4,000	10.1
Hedge Fund	7,716	19.4
Total	\$ 39,772	100.0%

INVESTMENT PERFORMANCE

Period	Actual
One-year	18.3%
Three-year	8.7%
Five-year	8.0%
Ten-year	6.1%

The Workers' Compensation Self-Insured Security Risk Pool (Security Pool) was established on January 1, 2006, and initially funded with the IMB in March 2014, for the purpose of paying the workers' compensation claims of defaulted self-insured employers with dates of injury occurring prior to July 1, 2004, provided that the default of the self-insured employer took place on or after the creation of the Security Pool on January 1, 2006. It consists of those funds transferred, and any future funds collected, as provided by law.

LIQUIDITY NEEDS

It is anticipated that the Security Pool will have a net cash inflow over the next five years. A small cash reserve will be held in the event of an unforeseen emergency, as is possible with an insurance program of this kind.

INVESTMENT OBJECTIVES

The investment objectives are as follows:

- Provide adequate liquidity to meet cash flow requirements.
- Given the expected infinite life of the fund, allow for growth of assets in an amount at least equal to expected inflation.

ASSET ALLOCATION

Based upon a determination of the appropriate risk tolerance, the Board adopted the following broad asset allocation guidelines for the assets managed for the Security Pool. Base and Strategic Allocations are established on a market value basis. The Allocation Committee has the authority to change the allocation within an established range around the Strategic Allocation for the public equity and fixed income asset classes. The range authority for public equities and fixed income is defined in the IMB's Investment Policy Statement for the Equity and Fixed Income Pools, respectively Appendix C.

Asset Class	Base Allocation	Strategic Allocation
Equity	30.0%	30.0%
Fixed Income	70.0%	35.0%
TIPS	0.0%	10.0%
Hedge Fund	0.0%	20.0%
Cash*	0.0%	5.0%

^{*} IMB Staff has authority to change the cash target up to 5 percent, within a fiscal year, in consultation with the appropriate representative(s) from the Security Pool.

Progression of Plan Balance

June 30, 2020	\$ 50,505
Contributions	-
Withdrawals	 (3,294)
Net	(3,294)
Investment income	-
Net appreciation	8,990
June 30, 2021	\$ 56,201

Asset Allocation	Amount	Percent of Total
Large Cap Domestic	\$ 7,906	14.0%
Non-Large Cap Domestic	1,382	2.5
International Nonqualified	2,405	4.3
International Equity	5,803	10.3
Short-Term Fixed Income	2,415	4.3
Total Return Fixed Income	13,733	24.4
Core Fixed Income	5,880	10.5
TIPS	5,672	10.1
Hedge Fund	11,005	19.6
Total	\$ 56,201	100.0%

INVESTMENT PERFORMANCE

Period	Actual
One-year	18.3%
Three-year	8.7%
Five-year	8.0%

Workers' Compensation Uninsured Employers' Fund

HISTORY

The Workers' Compensation Uninsured Employers' Fund (Uninsured Fund) was established January 1, 2006, to provide for the benefit of injured workers, whose employers failed to provide mandatory workers' compensation coverage. The Uninsured Fund received initial funding of \$5 million by proclamation of the Governor.

LIQUIDITY NEEDS

There are minimal liquidity needs projected at this time as cash inflows (premiums) are expected to be sufficiently above cash outflows (claims) for the near future. At the Uninsured Fund's request, moderate liquidity needs are being reserved in anticipation of cash that may be needed for a settlement program. A small cash reserve will be held in the event of an unforeseen emergency, as is possible with an insurance program of this kind.

INVESTMENT OBJECTIVES

The investment objectives are as follows:

- Provide adequate liquidity to meet cash flow requirements.
- Given the expected infinite life of the fund, allow for growth of assets in an amount at least equal to expected inflation.

ASSET ALLOCATION

Based upon a determination of the appropriate risk tolerance, the Board adopted the following broad asset allocation guidelines for the assets managed for the Uninsured Fund. Base and Strategic Allocations are established on a market value basis. The Allocation Committee has the authority to change the allocation within an established range around the Strategic Allocation for the public equity and fixed income asset classes. The range authority for public equities and fixed income is defined in the IMB's Investment Policy Statement for the Equity and Fixed Income Pools, respectively Appendix C.

Asset Class	Base Allocation	Strategic Allocation
Equity	30.0%	30.0%
Fixed Income	70.0%	30.0%
TIPS	0.0%	10.0%
Hedge Fund	0.0%	20.0%
Cash*	0.0%	10.0%

^{*} IMB Staff has authority to change the cash target up to 5 percent, within a fiscal year, in consultation with the appropriate representative(s) from the Uninsured Fund.

Progression of Plan Balance

June 30, 2020	\$ 14,005
Contributions Withdrawals	 371 (24)
Net	347
Investment income	=
Net appreciation	2,557
June 30, 2021	\$ 16,909

Asset Allocation	Amount	Percent of Total
Large Cap Domestic	\$ 2,392	14.1%
Non-Large Cap Domestic	412	2.4
International Nonqualified	687	4.1
International Equity	1,767	10.5
Short-Term Fixed Income	1,694	10.0
Total Return Fixed Income	3,515	20.8
Core Fixed Income	1,506	8.9
TIPS	1,693	10.0
Hedge Fund	3,243	19.2
Total	\$ 16,909	100.0%

INVESTMENT PERFORMANCE

Period	Actual
One-year	18.1%
Three-year	8.4%
Five-year	7.8%
Ten-year	5.9%

Berkeley County Development Authority

HISTORY

Berkeley County is the second most populous county in West Virginia and benefits economically from its close proximity to the Washington, D.C. metropolitan area. The Berkeley County Development Authority (BCDA) seeks to attract business through tax credits and financing programs.

LIQUIDITY NEEDS

BCDA is expected to experience no cash outflows for the next five years. Large cash inflows are expected but on an ad hoc basis emanating from land sales in excess of expenses.

INVESTMENT OBJECTIVES

The investment objectives are as follows:

- Meet or exceed 7.5 percent per annum, net of fees.
- Achieve long-term growth by investing in a well-diversified portfolio.

ASSET ALLOCATION

Based upon a determination of the appropriate risk tolerance, the Board adopted the following broad asset allocation guidelines for the assets managed for BCDA. Base and Strategic Allocations are established on a market value basis. The Allocation Committee has the authority to change the allocation within an established range around the Strategic Allocation for the public equity and fixed income asset classes. The range authority for public equities and fixed income is defined in the IMB's Investment Policy Statement for the Equity and Fixed Income Pools, respectively Appendix C. The domestic large capitalization allocation to Equity will be implemented through the use of the Portable Alpha Pool described in Appendix C. IMB Staff, in consultation with the appropriate representative(s) from BCDA will from time to time set a target for transactional cash needs. The Board will receive a report on the target level annually.

Asset Class	Base Allocation	Strategic Allocation
Equity (including Portable Alpha)	60.0%	50.0%
Fixed Income	40.0%	15.0%
Private Markets		
Private Credit and Income	0.0%	5.0%
Private Equity	0.0%	10.0%
Real Estate	0.0%	10.0%
Hedge Funds	0.0%	10.0%

Progression of Plan Balance

June 30, 2020	\$ 6,378
Contributions Withdrawals	 - -
Net	-
Investment income Net appreciation	2,050
June 30, 2021	\$ 8,428

Asset Allocation	Amount	Percent of Total
Portable Alpha	\$ 1,928	22.9%
Non-Large Cap Domestic	325	3.9
International Nonqualified	544	6.5
International Equity	1,431	17.0
Total Return Fixed Income	838	9.8
Core Fixed Income	359	4.3
Private Markets	2,236	26.5
Hedge Fund	767	9.1
Total	\$ 8,428	100.0%

INVESTMENT PERFORMANCE

Period	Actual	Target
One-year	32.2%	7.5%
Three-year	13.1%	7.5%
Five-year	12.9%	7.5%

The Revenue Shortfall Reserve Fund (Reserve Fund), created under West Virginia Code §11B-2-20, is funded from state surplus revenues accrued, if any, during the most recent fiscal year. The first 50 percent of all such surplus revenues are deposited into the Reserve Fund within 60 days of the end of each fiscal year. The deposit of surplus revenue into the Reserve Fund becomes discretionary when the balance in the Reserve Fund meets or exceeds 13 percent of the state's General Revenue Fund Budget for the expiring fiscal year. The West Virginia Legislature is authorized to make an appropriation from the Reserve Fund for revenue shortfalls, for emergency revenue needs caused by acts of God or natural disasters, or for other fiscal needs.

LIQUIDITY NEEDS

The Reserve Fund is intended to be co-managed between the IMB and the West Virginia Board of Treasury Investments. A cash account of \$100 million must be invested throughout the life of the Reserve Fund in cash with the West Virginia Board of Treasury Investments. Any assets in excess of \$100 million will be invested with the IMB. Statute dictates that expenditures will occur out of the Board of Treasury Investments first until those assets are depleted, and then out of the assets managed at the IMB. The West Virginia State Budget Office will monitor these asset balances and will direct both the IMB and the West Virginia Board of Treasury Investments when the transfer of funds is necessary from one to the other.

Future cash outflows are uncertain. The assets may be withdrawn, in whole or in part, at any time as directed by the West Virginia Legislature or by executive order.

INVESTMENT OBJECTIVES (for the assets managed by the IMB)

The investment objective is to provide for preservation of principal and minimization of volatility. There is no specifically identified target rate of return, as the Reserve Fund is a perpetual, endowment-like fund with no anticipated or scheduled liabilities.

ASSET ALLOCATION

Based upon a determination of the appropriate risk tolerance, the Board adopted the following broad asset allocation guidelines for the assets managed for the Reserve Fund. Base and Strategic Allocations are established on a market value basis. The Allocation Committee has the authority to change the allocation within an established range around the Strategic Allocation for the fixed income asset class. The range authority for fixed income is defined in the IMB's Investment Policy Statement for the Fixed Income Pool Appendix C. IMB Staff, in consultation with the appropriate representative(s) from the Reserve Fund will from time to time set a target for transactional cash needs. The Board will receive a report on the target level annually.

Asset Class	Base Allocation	Strategic Allocation
Fixed Income	100.0%	50.0%
TIPS	0.0%	50.0%

^{*} Statutory cash requirements of \$100 million will be invested by the West Virginia Board of Treasury Investments.

Progression of Plan Balance

June 30, 2020	\$ 272,021
Contributions Withdrawals	15,112
Net	 15,112
Investment income	36
Net appreciation	6,369
June 30, 2021	\$ 293,538

Total Return Fixed Income Core Fixed Income TIPS Total

Amount	Percent of Total
\$ 102,505	34.9%
44,017	15.0
147,016	50.1
\$ 293,538	100.0%

INVESTMENT PERFORMANCE

Period	Actual
One-year	2.2%
Three-year	4.7%
Five-year	3.4%
Ten-year	3.3%

The Revenue Shortfall Reserve Fund - Part B (Reserve Fund - Part B), created under *West Virginia Code §11B-2-20*, was funded using the entire balance of the assets in the former Tobacco Settlement Medical Trust Fund. The West Virginia Legislature is authorized and may make expenditures from the Reserve Fund - Part B for the purposes set forth in *West Virginia Code §4-11A-3* or in instances of revenue shortfalls or fiscal emergencies of an extraordinary nature.

LIQUIDITY NEEDS

The Reserve Fund - Part B is intended to experience no cash outflows, but this is not entirely certain, as the West Virginia Legislature may appropriate a qualified expenditure as noted above. Cash inflows are expected to be minimal and emanate from insurance tax payments.

INVESTMENT OBJECTIVES

The investment objective is to provide for stable, long-term growth of assets, while seeking to minimize risk of loss. There is no specifically identified rate of return target as the Reserve Fund - Part B is a perpetual, endowment-like fund with no anticipated or scheduled liabilities.

ASSET ALLOCATION

Based upon a determination of the appropriate risk tolerance, the Board adopted the following broad asset allocation guidelines for the assets managed for the Reserve Fund - Part B. Base and Strategic Allocations are established on a market value basis. The Allocation Committee has the authority to change the allocation within an established range around the Strategic Allocation for the public equity and fixed income asset classes. The range authority for public equities and fixed income is defined in the IMB's Investment Policy Statement for the Equity and Fixed Income Pools, respectively Appendix C. IMB Staff, in consultation with the appropriate representative(s) from the Reserve Fund - Part B will from time to time set a target for transactional cash needs. The Board will receive a report on the target level annually.

Asset Class	Base Allocation	Strategic Allocation
Equity	20.0%	22.50%
Fixed Income	80.0%	55.00%
TIPS	0.0%	22.50%

Progression of Plan Balance

June 30, 2020	\$ 492,955
Contributions Withdrawals	 - -
Net	-
Investment income	-
Net appreciation	 64,503
June 30, 2021	\$ 557,458

Asset Allocation	Amount	Percent of Total
Large Cap Domestic	\$ 58,820	10.5%
Non-Large Cap Domestic	10,147	1.8
International Nonqualified	17,763	3.2
International Equity	42,650	7.7
Total Return Fixed Income	211,778	38.0
Core Fixed Income	90,670	16.3
TIPS	125,630	22.5
Total	\$ 557,458	100.0%

INVESTMENT PERFORMANCE

Period	Actual
One-year	13.1%
Three-year	8.3%
Five-year	7.4%
Ten-year	5.8%

West Virginia Department of Environmental Protection Agency

HISTORY

The West Virginia Department of Environmental Protection Agency (DEP Agency) was established in 1991, for the primary purpose of protecting the environment and the health and welfare of the public, including providing for the long-term maintenance of certain water control facilities. The DEP Agency has established reserve funds for reclamation efforts related to these areas of responsibility.

LIQUIDITY NEEDS

The DEP Agency has had no liquidity needs, but anticipates that liquidity needs may increase to fund reclamation activities.

INVESTMENT OBJECTIVES

The investment objectives are as follows:

- Provide adequate liquidity to meet the cash flow requirements.
- Given the expected infinite life of the fund, allow for growth of assets in an amount at least equal to expected inflation.

ASSET ALLOCATION

Based upon a determination of the appropriate risk tolerance, the Board adopted the following broad asset allocation guidelines for the assets managed for the DEP Agency. Base and Strategic Allocations are established on a market value basis. The Allocation Committee has the authority to change the allocation within an established range around the Strategic Allocation for the public equity and fixed income asset classes. The range authority for public equities and fixed income is defined in the IMB's Investment Policy Statement for the Equity and Fixed Income Pools, respectively Appendix C. IMB Staff, in consultation with the appropriate representative(s) from the DEP Agency will from time to time set a target for transactional cash needs. The Board will receive a report on the target level annually.

Asset Class	Base Allocation	Strategic Allocation
Equity	40.0%	40.0%
Fixed Income	60.0%	40.0%
Hedge Funds	0.0%	20.0%

Progression of Plan Balance

June 30, 2020	\$	200,909
Contributions Withdrawals		-
Net		-
Investment income		-
Net appreciation	Φ.	44,483
June 30, 2021	\$	245,392

Asset Allocation	Amount	Percent of Total
Large Cap Domestic	\$ 46,111	18.8%
Non-Large Cap Domestic	7,901	3.2
International Nonqualified	13,191	5.4
International Equity	34,298	14.0
Total Return Fixed Income	67,800	27.6
Core Fixed Income	29,074	11.8
Hedge Fund	47,017	19.2
Total	\$ 245,392	100.0%

INVESTMENT PERFORMANCE

Period	Actual
One-year	22.1%
Three-year	9.6%
Five-year	9.2%

The West Virginia Department of Environmental Protection Trust (DEP Trust) was established on January 29, 2010, for the primary purpose of protecting the environment and the health and welfare of the public, including providing for the long-term maintenance of certain water control facilities. The DEP Trust seeks to provide an economical way by which funds contributed for that purpose may be invested and managed. The sole trustee of the DEP Trust is the Treasurer of the State of West Virginia. The beneficiary of the DEP Trust is the West Virginia Department of Environmental Protection. The DEP Trust began investing funds with the IMB on May 27, 2011.

LIQUIDITY NEEDS

There are limited liquidity needs for the DEP Trust going forward, based on historical actual needs incurred by the DEP Trust, adjusted for inflation.

INVESTMENT OBJECTIVES

The investment objectives are as follows:

- Meet or exceed 7.0 percent per annum. This is the discount rate by the DEP Trust and the Federal Office of Surface Mining in determining the amount of assets invested in the DEP Trust.
- Achieve long-term growth by investing the DEP Trust in a well-diversified portfolio.
- Achieve a real rate of return that is high enough to protect the purchasing power of the DEP Trust.

ASSET ALLOCATION

Based upon a determination of the appropriate risk tolerance, the Board adopted the following broad asset allocation guidelines for the assets managed for the DEP Trust. Base and Strategic Allocations are established on a market value basis. The Allocation Committee has the authority to change the allocation within an established range around the Strategic Allocation for the public equity and fixed income asset classes. The range authority for public equities and fixed income is defined in the IMB's Investment Policy Statement for the Equity and Fixed Income Pools, respectively Appendix C. IMB Staff, in consultation with the appropriate representative(s) from the DEP Trust will from time to time set a target for transactional cash needs. The Board will receive a report on the target level annually.

Asset Class	Base Allocation	Strategic Allocation
Equity	65.0%	65.0%
Fixed Income	35.0%	15.0%
Hedge Funds	0.0%	20.0%

Progression of Plan Balance

June 30, 2020	\$ 9,053
Contributions	-
Withdrawals	(103)
Net	(103)
Investment income	-
Net appreciation	2,887
June 30, 2021	\$ 11,837

Asset Allocation	Amount	Percent of Total
Large Cap Domestic	\$ 3,556	30.1%
Non-Large Cap Domestic	619	5.2
International Nonqualified	1,033	8.7
International Equity	2,640	22.3
Total Return Fixed Income	1,221	10.3
Core Fixed Income	524	4.4
Hedge Fund	2,244	19.0
Total	\$ 11,837	100.0%

INVESTMENT PERFORMANCE

The IMB calculates total rates of return using the time-weighted rate of return methodology. The time-weighted method determines the rate of return exclusive of the effects of participant contributions or withdrawals. The actual rate of return is net of fees.

Period	Actual	Target
One-year	31.9%	7.0%
Three-year	11.5%	7.0%
Five-year	11.7%	7.0%
Ten-year	8.8%	7.0%

The West Virginia State Parks and Recreation Endowment Fund (SPREF) was created by the Legislature in 2020, adding §20-5A-1 and §20-5A-2 to the West Virginia Code. SPREF was created to provide revenues to help support the maintenance, repair and improvement of recreational facilities, and any supporting infrastructure, in the state parks, state forests, and state rail trails. The SPREF Board of Trustees will determine the timing and amount of expenditures from income.

LIQUIDITY NEEDS

The SPREF will not make any disbursements until its Board of Trustees determines that accrued income is sufficient to begin disbursements. The SPREF is not expected to have any liquidity needs for the first two-to-three years. Any distributions will be set on an annual basis.

INVESTMENT OBJECTIVES

The investment objectives are as follows:

- Achieve a total rate of return of at least 6.0 percent per annum, net of fees.
- Provide adequate liquidity to meet cash flow requirements.

ASSET ALLOCATION

Based upon a determination of the appropriate risk tolerance, the Board adopted the following broad asset allocation guidelines for the assets managed for the SPREF. Base and Strategic Allocations are established on a market value basis. The Allocation Committee has the authority to change the allocation within an established range around the Strategic Allocation for the public equity and fixed income asset classes. The range authority for public equities and fixed income is defined in the IMB's Investment Policy Statement for the Equity and Fixed Income Pools, respectively Appendix C. The domestic large capitalization allocation to Equity will be implemented through the use of the Portable Alpha Pool described in Appendix C. IMB Staff, in consultation with the appropriate representative(s) from the SPREF will from time to time set a target for transactional cash needs. The Board will receive a report on the target level annually.

Asset Class	Base Allocation	Strategic Allocation
Equity (including Portable Alpha)	60.0%	50.0%
Fixed Income	40.0%	15.0%
Private Markets		
Private Credit and Income	0.0%	5.0%
Private Equity	0.0%	10.0%
Real Estate	0.0%	10.0%
Hedge Funds	0.0%	10.0%

Progression of Plan Balance

June 30, 2020	\$ -
Contributions Withdrawals	6,465
Net	6,465
Investment income Net appreciation	-
June 30, 2021	\$ 6,465

Asset Allocation	Amount		Percent of Total
Short-Term Fixed Income*	\$	6,465	100.0%

^{*} Initial funding was on June 9, 2021. Assets were rebalanced pursuant to SPREF's Strategic Allocation on July 1, 2021.

INVESTMENT PERFORMANCE

Investment returns are not reported for periods of less than one year.

The Wildlife Endowment Fund (WEF) was created in 1986 to supplement the Division of Natural Resources' annual budget in support of various statewide projects.

LIQUIDITY NEEDS

The liquidity needs of the WEF will be set on an annual basis and determined by a separate Wildlife Endowment Board as established by West Virginia State Code.

INVESTMENT OBJECTIVES

The investment objectives are as follows:

- Achieve a total rate of return of at least 6.0 percent per annum, net of fees.
- Provide adequate liquidity to meet cash flow requirements.

ASSET ALLOCATION

Based upon a determination of the appropriate risk tolerance, the Board adopted the following broad asset allocation guidelines for the assets managed for the WEF. Base and Strategic Allocations are established on a market value basis. The Allocation Committee has the authority to change the allocation within an established range around the Strategic Allocation for the public equity and fixed income asset classes. The range authority for public equities and fixed income is defined in the IMB's Investment Policy Statement for the Equity and Fixed Income Pools, respectively Appendix C. The domestic large capitalization allocation to Equity will be implemented through the use of the Portable Alpha Pool described in Appendix C. IMB Staff, in consultation with the appropriate representative(s) from the WEF will from time to time set a target for transactional cash needs. The Board will receive a report on the target level annually.

Asset Class	Base Allocation	Strategic Allocation
Equity (including Portable Alpha)	60.0%	50.0%
Fixed Income	40.0%	15.0%
Private Markets		
Private Credit and Income	0.0%	5.0%
Private Equity	0.0%	10.0%
Real Estate	0.0%	10.0%
Hedge Funds	0.0%	10.0%

Progression of Plan Balance

June 30, 2020	\$ 62,699
Contributions Withdrawals	834 (4,347)
Net	(3,513)
Investment income	_
Net appreciation	19,095
June 30, 2021	\$ 78,281

Asset Allocation	Amount		Percent of Total
Portable Alpha	\$	17,708	22.6%
Non-Large Cap Domestic		3,018	3.9
International Nonqualified		5,275	6.7
International Equity		12,935	16.5
Short-Term Fixed Income		521	0.7
Total Return Fixed Income		7,690	9.8
Core Fixed Income		3,297	4.2
Private Markets		20,733	26.5
Hedge Fund		7,104	9.1
Total	\$	78,281	100.0%

INVESTMENT PERFORMANCE

Period	Actual	Target
One-year	31.9%	6.0%
Three-year	13.0%	6.0%
Five-year	12.9%	6.0%
Ten-year	9.9%	6.0%
Twenty-year	8.3%	6.0%