North Dakota

# Retirement & Investment Office

An Agency of the State of North Dakota



**Comprehensive Annual Financial Report** 

For the Fiscal Years Ended June 30, 2019 & 2018

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An Agency of the State of North Dakota

### **Comprehensive Annual Financial Report**

Prepared by the ND Retirement and Investment Office Staff 3442 East Century Avenue, P.O. Box 7100 Bismarck, ND 58507-7100 Phone: (701) 328-9885 www.nd.gov/rio

For the Fiscal Years Ended June 30, 2019 and 2018

All printed materials can be made available in alternate formats. Contact the administrative office should this be necessary.

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# INTRODUCTORY SECTION



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December 1, 2019

Members of the North Dakota State Investment Board North Dakota Teachers' Fund for Retirement Board

Dear Board Members:

We present to you the June 30, 2019, Comprehensive Annual Financial Report (CAFR) for the North Dakota Retirement and Investment Office (RIO). The report is a complete review of the financial, investment, and actuarial conditions of the two programs for which you are responsible. Responsibility for both the accuracy of the data, and the completeness and fairness of the presentation, rests with the management of RIO.

Generally accepted accounting principles (GAAP) require that management provide a narrative introduction, overview, and analysis to accompany the basic financial statements in the form of Management's Discussion and Analysis (MD&A). This letter of transmittal is designed to complement the MD&A and should be read in conjunction with it. RIO's MD&A can be found immediately following the report of the independent auditors in the Financial Section.

RIO is an agency of the State of North Dakota. The agency was created by the 1989 Legislative Assembly to capture administrative and investment cost savings in the management of two important long-standing state programs – the retirement program of the Teachers' Fund for Retirement (TFFR) and the investment program of the State Investment Board (SIB).

Established in 1913, TFFR is one of the oldest retirement plans in the nation. TFFR is a qualified defined benefit public pension plan covered under Section 401(a) of the Internal Revenue Code. North Dakota Century Code Chapter 15-39.1 contains the actual language governing the fund. The plan covers North Dakota public school teachers and administrators. The TFFR plan is funded on an actuarial reserve basis. Benefit funding comes from member and employer contributions and investment earnings. TFFR serves 11,175 members from 213 employer groups and pays benefits to 8,918 retirees and beneficiaries. High quality member services and outreach programs are offered to members and employers as part of the continuing effort to keep them informed about the retirement program.

The SIB is responsible for setting policies and procedures guiding the investment of nearly \$15.1 billion in assets for seven pension funds and 18 non-pension funds. Their investments are divided into two investment trust funds and four individual investment accounts. Individual investment guidelines for each fund can be found in the Investment Section. These guidelines include goals and objectives, risk tolerance, liquidity constraints, asset allocation and portfolio restrictions specific to each fund's unique circumstances. When creating investment pools to implement the asset allocations for each client fund, the SIB takes all of these guidelines into consideration in order to best meet the objectives of each fund and safeguard fund assets. The following table details the participants in each trust fund as of June 30, 2019:

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	Fair Value in millions	% Of Pool	FY2019 Return		Fair Value in millions	% Of Pool	FY2019 Return
PENSION POOL PARTICIPANTS				INSURANCE POOL PARTICIPANTS			
Teachers' Fund for Retirement	\$2,573.62	43.3%	5.54%	Workforce Safety & Insurance Fund	\$2,065.40	89.0%	6.87%
Public Employees Retirement System	3,152.93	53.0%	5.52%	State Fire and Tornado Fund	22.76	1.0%	6.41%
Bismarck City Employee Pension Fund	104.52	1.8%	5.94%	State Bonding Fund	3.61	0.2%	5.83%
Bismarck City Police Pension Fund	41.86	0.7%	5.76%	Petroleum Tank Release Fund	5.99	0.3%	5.47%
City of Grand Forks Pension Fund	68.42	1.2%	6.17%	Insurance Regulatory Trust Fund	6.22	0.3%	5.03%
Grand Forks Park District Pension Fund	7.18	0.1%	6.02%	State Risk Management Fund	4.91	0.2%	7.67%
Subtotal Pension Pool Participants	\$5,948.53	100.0%		State Risk Management Workers Comp	5.19	0.2%	7.56%
				Cultural Endowment Fund	0.48	0.0%	6.02%
				Budget Stabilization Fund	118.71	5.1%	4.51%
INDIVIDUAL INVESTMENT ACCOUNTS				ND Assoc. of Counties (NDACo) Fund	6.33	0.3%	7.12%
Legacy Fund	\$6,580.76		4.98%	City of Bismarck Deferred Sick Leave	0.78	0.0%	6.90%
Retiree Health Insurance Credit Fund	135.96		6.51%	PERS Group Insurance	31.07	1.3%	4.20%
Job Service of North Dakota	97.29		6.86%	State Board of Medical Examiners	2.36	0.1%	4.98%
Tobacco Prevention and Control Trust Fund	9.30		4.47%	City of Fargo FargoDome Permanent Fund	44.84	1.9%	5.13%
				Lewis & Clark Interpretive Center Endowment	0.75	0.0%	*
				Subtotal Insurance Pool Participants	2,319.40	100.0%	
TO TAL ASSETS UNDER MANAGEMENT  Columns may not foot due to rounding.					\$15,091.24		

The pension investment pool is made up of only qualified pension funds whose monies must be invested exclusively for the benefit of their participants. The insurance investment pool is made up of mainly insurance-type funds, but also includes other funds that do not qualify as pension funds and would like to benefit from the cost savings of being pooled with other funds' assets. All of these funds are invested in accordance with the "Prudent Investor Rule."

An important aspect of the prudent investor rule is that individual investments are considered not in isolation but in the context of the trust portfolio as a whole. Some new opportunities may appear risky when viewed alone. However, when part of a diversified mix of investments in stocks, bonds and other assets, they can increase returns often without increasing the overall portfolio risk and, in some cases, may help decrease the overall portfolio's risk.

The pension investment pool was created in July 1989 with the pooling of selected investments of TFFR and the Public Employees Retirement System (PERS). Assets from the City of Bismarck Employees and Police pension funds were added later that same fiscal year. In April 1994, Job Service of North Dakota made their initial contribution to the pool. Other additions to this pool have occurred as follows:

- The City of Fargo Employees pension plan joined the pension pool in December 2007.
- The City of Grand Forks Employees pension plan joined in May 2009.
- The Grand Forks Park District pension plan began participating in the pension pool in December 2009.

Two plans have left the pension pool since its inception.

- The City of Fargo Employees pension plan withdrew the bulk of their assets from the SIB in December 2013, and their remaining assets in fiscal year 2016.
- The assets for the Job Service plan were removed from the pension pool during fiscal year 2016 after a derisking strategy was implemented by the PERS Board due to the plan being a closed plan with a diminishing number of participants and remaining life. The assets are now being managed within an individual investment account.

The insurance investment pool began in December 1993 with the pooling of the assets of the WSI, Fire and Tornado, Bonding, Insurance Regulatory, and Petroleum Tank Release funds.

Other additions to this pool have occurred as follows:

• The Risk Management Fund was added in October 1996.

- Two North Dakota Association of Counties (NDACo) funds were added during fiscal year 1999, in January and March.
- The City of Bismarck Deferred Sick Leave and PERS Group Insurance funds were both added in July 1999.
- The City of Fargo FargoDome Permanent Fund was added in October 2002.
- The Risk Management Workers Compensation Fund was added in October 2003.
- The Cultural Endowment Fund was added by the 2005 legislature and funded in July 2005.
- The Budget Stabilization Fund joined the pool in September 2005 upon reaching statutorily designated levels.
- The State Board of Medical Examiners Fund (now called the State Board of Medicine) joined the pool in April, 2014.
- The ND Parks and Recreation Department's Lewis & Clark Interpretive Center Endowment Fund joined the pool in April, 2018.

Eight funds have left the insurance investment pool after having been included in it at some point during its existence.

- The Veterans' Home Improvement Fund was added in July 1996 and removed in August 1997.
- The National Guard Tuition Waiver Fund was added in June 1996 and removed in June 1999.
- The Veterans Post War Trust Fund was added in December 1997 and left the pool in September 2005.
- The Veterans Cemetery Trust joined the pool in August 1997 and was removed in August 2007.
- The ND Health Care Trust Fund was added to the pool in July 2001 and left the pool in June 2012.
- The National Board Certification Fund joined in July 2009 and was removed in September 2011.
- Additionally, the two NDACo funds were combined into one fund in July, 2010.
- The Legacy Fund assets were removed from the insurance investment pool during fiscal year 2015 after being added to SIB management in September 2011 and subsequently pooled during implementation of their diversified asset allocation in fiscal year 2014. Pooling the assets during implementation allowed for a more efficient realization of the Legacy Fund's target asset allocation. However, after implementation, it was determined that better transparency would result and the investment objectives of this endowment-like fund could be more effectively achieved outside of the insurance pool structure.

#### MAJOR INITIATIVES

#### **TFFR Retirement Program**

- Received legislative approval to upgrade or replace TFFR's current outdated pension administration
  software to a more technologically advanced and secure web based system in 2019-21. New system is
  expected to provide improved functionality for members, employers and staff by transforming TFFR
  pension administration processes, reporting capabilities, communications, and services.
- Worked with actuary to develop TFFR Plan Management Policy to serve as a risk assessment and
  management tool. This special project included a comprehensive risk assessment, stochastic projections,
  policy metrics and scoring system to evaluate the financial health and long term sustainability of TFFR.
- Established TFFR Policy and Governance Review Committee to conduct comprehensive review of board governance policies and by-laws.
- Developed new process for TFFR employer reporting reviews.
- Continued to develop and implement more electronic methods to streamline retirement application process, outreach program registration, customer satisfaction surveys, and other program operations to improve efficiency and reduce cost of printing and mailing retirement materials.
- Governor Burgum re-appointed Toni Gumeringer to represent active members on the TFFR Board from July 1, 2019 to June 30, 2024.

#### **SIB Investment Program**

Investment details by trust fund can be found in the Investment Section.

Initiatives completed by the SIB during the year included:

Added one new core U.S. fixed income manager to enhance risk adjusted returns within the Legacy Fund.

- Diversified our infrastructure portfolios by adding a new investment manager within the pension investment pool and Legacy Fund.
- Expanded existing investment relationships in the private equity and real estate sectors by committing \$200 million of new capital with two long-term strategic partners.
- Continued to successfully renegotiate investment management fees throughout the year while engaging a
  third party independent review of investment expenses to confirm their reasonableness.
- Obtained approvals from the executive and legislative branches to add one new investment and compliance
  professional given the significant growth in SIB client assets in recent years.
- Continued to build out our comprehensive investment risk management monitoring system by refining internal and external processes with a leading global investment risk management firm.
- Expanded continuing professional education initiatives for board members and staff with a keen focus on best practices for institutional investors and the importance of strong governance.

#### **AWARDS**

The Government Finance Officers Association of the United States and Canada (GFOA) awarded a Certificate of Achievement for Excellence in Financial Reporting to RIO for its comprehensive annual financial report for the fiscal year ended June 30, 2018. This was the twenty-first consecutive year that RIO has achieved this prestigious award. In order to be awarded a Certificate of Achievement, a government must publish an easily readable and efficiently organized comprehensive annual financial report. This report must satisfy both generally accepted accounting principles and applicable legal requirements.

A Certificate of Achievement is valid for a period of one year only. We believe that our current comprehensive annual financial report continues to meet the Certificate of Achievement Program's requirements and we are submitting it to the GFOA to determine its eligibility for another certificate.

TFFR also received the 2019 Public Pension Standards Award for Administration from the Public Pension Coordinating Council. To receive the award, the retirement system must certify that it meets specific professional standards for a comprehensive benefit program, actuarial valuations, financial reporting and audit, investments, and communications to members.

#### FINANCIAL INFORMATION

RIO is subject to very strict operational controls. Well-established internal controls are in place, segregation of duties is maintained, and an internal audit program is in effect. In addition, an annual external financial audit is performed and the results are reported to the Legislative Audit and Fiscal Review Committee (LAFRC). Although internal control over financial reporting cannot provide absolute assurance of achieving financial reporting objectives, and the cost of a control should not exceed the benefits to be derived, RIO believes the internal controls that are in place have been designed to reduce risks of material misstatements.

CliftonLarsonAllen LLP conducted the external financial audit under the direction of the North Dakota State Auditor. The auditor's opinion was unmodified for the agency for the year ended June 30, 2019.

The tables below summarize RIO's additions and deductions for the current and prior fiscal years:

Pension Trust Fund (TFFR)	30/2019 nillions)	30/2018 millions)	r/(Decr) \$ millions)	Incr/(Decr) %
Additions	\$ 309	\$ 380	\$ (71)	-18.7%
Deductions	223	210	13	6.4%
Net Change	\$ 86	\$ 170	\$ (85)	-49.7%

In the pension trust fund, additions decreased due to weaker financial markets. Deductions increased because the average benefit increased from the previous year, as did the number of retirees receiving benefits throughout the year.

Investment Trust Funds		D/2019 nillions)	6/30/2018 (in millions)		Incr/(Decr) \$ (in millions)		Incr/(Decr) %	
Additions		\$ 1,636	\$	1,624	\$	11	0.7%	
Deductions		836		338	\$	498	147.4%	
Net Change		\$ 800	\$	1,287	\$	(487)	-37.8%	

In the investment trust funds, additions increased slightly as new deposits narrowly outpaced the weaker financial markets. Deductions increased due to the first biennial Legacy Fund earnings transfer to the State's General Fund at the end of the fiscal year. The transfer was just over \$455 million.

#### **FUNDING STATUS**

The objective of the TFFR pension fund is to accumulate sufficient funds to meet all expected future obligations to participants. Member and employer contribution rates are established by statute and are currently 11.75% and 12.75%, respectively. The contribution rates will remain in effect until TFFR is 100% funded on an actuarial basis. At that point, the member and employer contribution rates will revert to 7.75%. The rates are intended to be sufficient to pay TFFR's normal cost and to amortize TFFR's unfunded actuarial accrued liability (UAAL) over a period of 24 years beginning July 1, 2019, although at any given time the statutory rates may be insufficient.

In order to determine the adequacy of the 12.75% statutory employer contribution rate, it is compared to the actuarially determined contribution (ADC). The ADC is equal to the sum of the employer normal cost rate, and the level percentage of pay required to amortize the UAAL over the 30-year closed period that began July 1, 2013 (24 years remaining as of July 1, 2019). For this calculation, payroll is assumed to increase 3.25% per year. As of July 1, 2019, the ADC is 12.84%, compared to 12.94% last year. This is greater than the 12.75% rate currently required by law. The decrease in ADC is driven by payroll and other demographic liability gains.

The funded ratio (the ratio of the actuarial value of assets to the actuarial accrued liability) increased from last year. The funded ratio at July 1, 2018, was 65.4%, while it is 66.0% as of July 1, 2019. Based on the market values rather than actuarial values of assets, the funded ratio remained the same at 65.5%, compared to 65.5% last year.

The plan has a net investment loss of \$19.4 million from previous years that has not yet been recognized in the actuarial value of assets because of the five-year smoothing. This unrecognized asset loss is due to market losses during FY 2016 and FY2019 offset by market gains in FY2017 and FY2018. As these losses are recognized over the next four years, the losses will tend to reduce the funded ratio. Despite this factor, the projections shown in the annual valuation report indicate that the funded ratio is expected to increase over this period, assuming the plan's market return on assets meets the 7.75% assumption in the future.

The following table summarizes the actuarial valuation of the TFFR plan. A detailed discussion of funding is provided in the Actuarial Section of this report.

	Jul	y 1, 2019	Ju	ly 1, 2018
	(in	millions)	(in	millions)
Actuarial Accrued Liability (AAL)	\$	3,993.4	\$	3,863.5
Actuarial value of assets (AVA)		2,635.6		2,526.0
Unfunded actuarial accrued liability (UAAL)		1,357.8		1,337.5
Funded ratio		66.0%		65.4%

#### FINANCIAL REPORTING FOR PENSIONS

Government Accounting Standards Board (GASB) Statement 67 for accounting and financial reporting of pension liabilities defines pension liability and expense for financial reporting purposes, and does not apply to contribution amounts for actual pension funding purposes.

The following table summarizes the components of the net pension liability of TFFR. A detailed discussion is provided in the Financial Section of this report.

	Jul	July 1, 2019		July 1, 2018		
	(in	millions)	(in millions)			
				<u> </u>		
Total pension liability (TPL)	\$	3,993.4	\$	3,863.5		
Plan fiduciary net position (FNP)		2,616.2		2,530.7		
Net pension liability (NPL)		1,377.3		1,332.9		
Plan FNP as % of TPL		65.5%		65.5%		

#### INVESTMENT ACTIVITIES

The investment policies and strategies for each of the funds under the SIB can be found in the Investment Section of this report. Each fund's policy is determined by the individual fund's governing body and presented to the SIB for acceptance. Once accepted, the policy is used as a guide to determine participation in the applicable pools. The policies are designed to provide safeguards on assets while optimizing return based on each fund's risk parameters. Additionally, each investment manager is given explicit guidelines identifying the types of investments that are acceptable within each portfolio, based on asset allocation expectations of the individual funds in the pools.

The return information presented in the Investment Section is calculated with the assistance of our consultant, Callan LLC, based on data supplied by our custodian, The Northern Trust Company, and the individual investment managers. The investment return calculations were prepared using a monthly time-weighted rate of return methodology based upon market values and are subject to independent review.

#### PROFESSIONAL SERVICES

Professional consultants are selected by the TFFR Board and the SIB to perform professional services that are essential to the effective and efficient operation of the retirement and investment programs. An opinion from the certified public accountant and the actuary are included in this report. The consultants chosen by the boards are listed in the Introductory Section of this report.

Respectfully yours,

DAVID HUNTER Executive Director/

Chief Investment Officer

FAY KOPP

Deputy Executive Director/

Chief Retirement Officer

CONNIE L. FLANAGAN Chief Financial Officer

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# NORTH DAKOTA RETIREMENT AND INVESTMENT OFFICE As of June 30, 2019

#### Mission

The North Dakota Retirement and Investment Office exists in order that:

- ♦ SIB clients receive investment returns, consistent with their written investment policies and market variables, in a cost-effective investment manner and under the Prudent Investor Rule.
- Potential SIB clients have access to information regarding the investment services provided by the SIB.
- TFFR benefit recipients receive their retirement benefits in a cost effective and timely manner.
- ♦ TFFR members have access to information which will allow them to become knowledgeable about the issues and process of retirement.
- ♦ SIB clients and TFFR benefit recipients receive satisfactory services from the boards and staff of the office

#### **Administrative Staff**



**David Hunter**Executive Director/
Chief Investment Officer



Fay Kopp
Deputy Executive Director/
Chief Retirement Officer



Darren Schulz, CFA
Deputy Chief
Investment Officer

Connie L. Flanagan
Fiscal & Investment Operations

**Shelly Schumacher** *Retirement Services* & *Public Information* 

**Supervisory Staff** 

Sara Sauter Internal Audit

**Bonnie Heit** *Administrative Services* 

**Richard Nagel** *Information Services* 

#### NORTH DAKOTA STATE INVESTMENT BOARD Board Members as of June 30, 2019

#### **Investment Program**

#### **Investment Process**

The ND State Investment Board believes that an investment program must be built and managed like any good business, with a clear statement of mission, overall objectives, roles and responsibilities, and policies and guidelines. Major issues include:

#### Asset allocation targets:

- Setting appropriate benchmarks.
- Finding the right managers.
- Monitoring the program.
- Searching for appropriate new opportunities.

To ensure rigorous attention to all aspects of the investment program, the SIB follows an established investment process. This process involves three phases:

- Investment policy development/modification
- Implementation/monitoring
- Evaluation



Brent Sanford
Chair
Lt. Governor



Rob Lech Vice Chair TFFR Trustee



Kelly Schmidt State Treasurer



Jon Godfread State Insurance Commissioner



**Bryan Klipfel**Workforce Safety &
Insurance Director



Jodi Smith University and School Land Commissioner



Adam Miller PERS Trustee



Toni Gumeringer TFFR Trustee



Mel Olson TFFR Trustee



Yvonne Smith
PERS Trustee



**Troy Seibel** PERS Trustee

#### NORTH DAKOTA TEACHERS' FUND FOR RETIREMENT Board of Trustees as of June 30, 2019

#### **Retirement Program**

#### Mission

The mission of the Teachers' Fund for Retirement, a trust fund, is to advocate for, develop, and administer a comprehensive retirement program for all trust fund members within the resources available.

#### Goals

#### **Investment and Funding Goals:**

- Improve the Plan's funding status to protect and sustain current and future benefits.
- Minimize the employee and employer contributions needed to fund the Plan over the long term.
- Avoid substantial volatility in required contribution rates and fluctuations in the Plan's funding status.
- Accumulate a funding surplus to provide increases in retiree annuity payments to preserve the purchasing power of their retirement benefits.

#### **Service Goals:**

- Administer accurate, prompt, and efficient pension benefits program.
- Deliver high quality, friendly service to members and employers.
- Provide educational outreach programs including pre-retirement seminars and individual counseling sessions.



Rob Lech
President
Active Administrator



Mike Burton Vice President Retired Member



Toni Gumeringer

Trustee

Active Teacher



Mel Olson Trustee Retired Member



Cody Mickelson Trustee Active Teacher



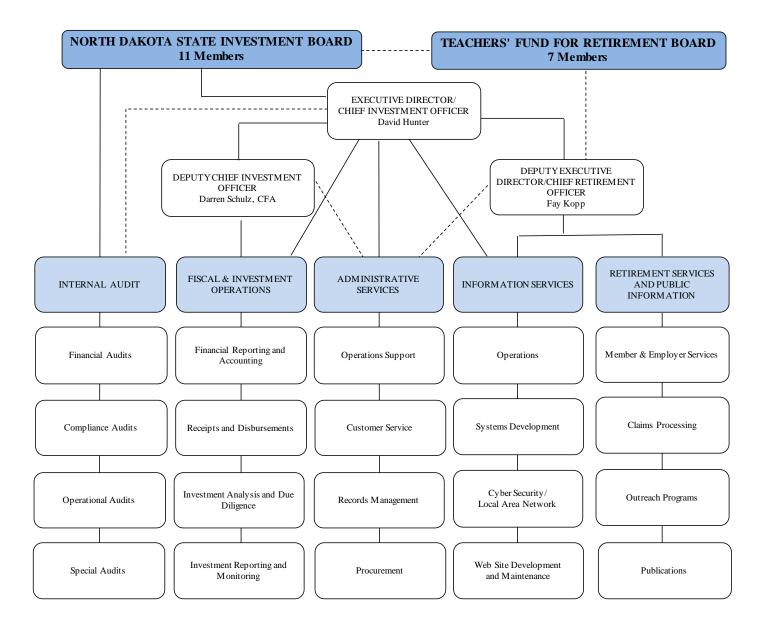
Kelly Schmidt
State Treasurer



**Kirsten Baesler** State Superintendent of Public Instruction

#### NORTH DAKOTA RETIREMENT AND INVESTMENT OFFICE

#### ADMINISTRATIVE ORGANIZATION JUNE 30, 2019



See page 12 for a listing of professionals who provide services to the Retirement and Investment Office and pages 93-95 in the Investment Section for a summary of fees paid to investment professionals.

#### NORTH DAKOTA RETIREMENT AND INVESTMENT OFFICE

# CONSULTING AND PROFESSIONAL SERVICES AS OF JUNE 30, 2019

Actuary

Segal Consulting Chicago, Illinois

**Auditor** 

CliftonLarsonAllen LLP Baltimore, Maryland

**Legal Counsel** 

North Dakota Attorney General's

Office

Bismarck, North Dakota

Kasowitz, Benson, Torres & Friedman

New York, New York

K&L Gates

Boston, Massachusetts

**Information Technology** 

Blackrock Financial Management, Inc.

New York, New York

Bloomberg LP

New York, New York

CPAS Systems Inc.

Toronto, Ontario

SS&C Advent Software, Inc.

San Francisco, CA

**Master Custodian** 

The Northern Trust Company

Chicago, Illinois

**Investment Consultant and** 

**Performance Measurement** 

Callan, LLC

San Francisco, California

**Investment Consulting (Fee Analysis)** 

Novarca North America LLC

Palo Alto, California

**Investment Consulting (PE Monitoring)** 

Adams Street Partners, LLC

Chicago, Illinois

**Investment Consulting (Litigation** 

**Monitoring & Filing**)

Financial Recovery Technologies, LLC

Medford, Massachusetts

**Investment Managers** 

Adams Street Partners, LLC

Chicago, Illinois

Atlanta Capital Investment Managers

Atlanta, Georgia

Ares Management LLC

New York, New York

**Axiom International Investors** 

Greenwich, Connecticut

**Blackrock Private Equity Partners** 

New York, New York

Capital Group

Los Angeles, California

Cerberus Capital Management, LP

New York, New York

Corsair Capital

New York, New York

**Dimensional Fund Advisors** 

Chicago, Illinois

EIG Energy Partners

Los Angeles, California

Epoch Investment Partners, Inc. New York, New York

New Tork, New Tork

Goldman Sachs Asset Management

New York, New York

Grosvenor Capital Management

New York, NY

Hearthstone Homebuilding Investors,

LLC

Encino, California

**INVESCO** Realty Advisors

Dallas, Texas

InvestAmerica L&C, LLC

Cedar Rapids, Iowa

I Squared Capital

New York, New York

J.P. Morgan Invest. Management, Inc.

New York, New York

Loomis Sayles & Company

Boston, Massachusetts

**Investment Managers (cont.)** 

Los Angeles Capital Management

Los Angeles, California

LSV Asset Management

Chicago, Illinois

Manulife Asset Management, LLC

McLean, Virginia

Macquarie Group

New York, NY

Matlin Patterson Global Advisers LLC

New York, New York

Northern Trust Asset Management

Chicago, Illinois

Parametric Portfolio Associates

DBA The Clifton Group Minneapolis, Minnesota

**PIMCO** 

Newport Beach, California

Prudential Investment Management

Newark, New Jersey

Quantum Energy Partners

Houston, Texas

The Rohatyn Group

New York, New York

SEI Investments Management Co.

Oaks, Pennsylvania

State Street Global Advisors

Boston, Massachusetts

Timberland Investment

Resources, LLC

Atlanta, Georgia

The Vanguard Group

Valley Forge, Pennsylvania

Wellington Trust Company, NA

Boston, Massachusetts

Wells Capital Management, Inc. Menomonee Falls, Wisconsin

Western Asset Management Co.

Pasadena, California

William Blair Investment Management

Chicago, Illinois



Government Finance Officers Association

Certificate of Achievement for Excellence in Financial Reporting

Presented to

# North Dakota Retirement and Investment Office

For its Comprehensive Annual Financial Report for the Fiscal Year Ended

June 30, 2018

Christopher P. Morrill

Executive Director/CEO



Public Pension Coordinating Council

# Recognition Award for Administration 2019

Presented to

#### North Dakota Teachers' Fund for Retirement

In recognition of meeting professional standards for plan administration as set forth in the Public Pension Standards.

Presented by the Public Pension Coordinating Council, a confederation of

National Association of State Retirement Administrators (NASRA) National Conference on Public Employee Retirement Systems (NCPERS) National Council on Teacher Retirement (NCTR)

> Alan H. Winkle Program Administrator

# FINANCIAL SECTION



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#### INDEPENDENT AUDITORS' REPORT

Governor Doug Burgum
The Legislative Assembly
David Hunter, Executive Director/CIO
State Investment Board
Teachers' Fund for Retirement Board
North Dakota Retirement and Investment Office

#### Report on the Financial Statements

We have audited the accompanying financial statements of the North Dakota Retirement and Investment Office (RIO), a department of the State of North Dakota, which comprise the statement of net position – fiduciary funds as of June 30, 2019 and 2018, and the related statements of changes in net position – fiduciary funds for the years then ended, and the related notes to the financial statements, which collectively comprise RIO's basic financial statements, and the combining and individual fund financial statements as of and for the years ended June 30, 2019 and 2018, as listed in the table of contents

#### Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

#### Auditors' Responsibility

Our responsibility is to express opinions on these financial statements based on our audits. We conducted our audit in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditors' judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinions.

#### Opinions

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of RIO as of June 30, 2019 and 2018, and the respective changes in financial position for the years then ended in accordance with accounting principles generally accepted in the United States of America. Also, in our opinion, the combining and individual fund financial statements referred to above present fairly, in all material respects, the financial position of each of the individual funds of RIO as of June 30, 2019 and 2018, and the results of the changes in financial position of such funds for the years then ended, in conformity with accounting principles generally accepted in the United States of America.



#### Emphasis of Matter

As discussed in Note 1, the financial statements of RIO are intended to present the financial position and the changes in financial position of only that portion of the State of North Dakota that is attributable to the transactions of RIO. They do not purport to, and do not, present fairly the financial position of the State of North Dakota as of June 30, 2019 and 2018, and the changes in its financial position for the years then ended in conformity with accounting principles generally accepted in the United States of America. Our opinion is not modified with respect to this matter.

#### Other Matters

#### Required Supplementary Information

Accounting principles generally accepted in the United States of America require that the management's discussion and analysis and the schedules of changes in NPL and related ratios - ND Teachers' Fund for Retirement and employer contributions - ND Teachers' Fund for Retirement, investment returns - ND Teachers' Fund for Retirement, employer's share of NPL and NOL - ND Public Employees Retirement System and employer contributions - ND Public Employees Retirement System and related notes, as listed in the table of contents, be presented to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

#### Other Information

Our audit was conducted for the purpose of forming opinions on the financial statements that collectively comprise RIO's basic financial statements and the combining and individual fund financial statements. The schedules of administrative expenses, consultant expenses, investment expenses, and appropriations – budget basis – fiduciary funds, as listed in the table of contents, are presented for purposes of additional analysis and are not a required part of the basic financial statements.

These schedules are the responsibility of management and were derived from and relate directly to the underlying accounting and other records used to prepare the basic financial statements. Such information has been subjected to the auditing procedures applied in the audit of the basic financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the basic financial statements or to the basic financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the information is fairly stated, in all material respects, in relation to the basic financial statements as a whole.

The Introductory, Investment, Actuarial and Statistical Sections, as listed in the table of contents, have not been subjected to the auditing procedures applied in the audit of the basic financial statements, and accordingly, we do not express an opinion or provide any assurance on them.

#### Other Reporting Required by Government Auditing Standards

In accordance with *Government Audit Standards*, we have also issued our report dated October 30, 2019, on our consideration of RIO's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts and grant agreements and other matters. The purpose of that report is solely to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on the effectiveness of RIO's internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering RIO's internal control over financial reporting.

CliftonLarsonAllen LLP

Clifton Larson Allen LLP

Baltimore, Maryland October 30, 2019

Management's Discussion and Analysis June 30, 2019 and 2018

Our discussion and analysis of the ND Retirement and Investment Office's (RIO) financial performance provides an overview of RIO's financial activities for the fiscal years ended June 30, 2019 and 2018. Please read it in conjunction with the basic financial statements, which follow this discussion.

RIO administers two fiduciary funds, a pension trust fund for the ND Teachers' Fund for Retirement (TFFR) and an investment trust fund for the ND State Investment Board (SIB) consisting of 24 investment clients in two investment pools and four individual investment accounts.

#### **Financial Highlights**

Total net position increased from the previous fiscal year in the fiduciary funds by \$885.4 million (6.4%) and \$1.5 billion (11.8%) in FY2019 and FY2018, respectively. Approximately 62% of the FY2019 increase and 61% of the FY2018 increase is due to the growth of the Legacy Fund. The Legacy Fund was created by a constitutional amendment in 2010. The amendment provides that 30% of oil and gas gross production and oil extraction taxes on oil produced after June 30, 2011, be transferred to the Legacy Fund. Transfers into the Legacy Fund totaled \$692.6 million and \$529.9 million, and net investment income exceeded \$309 million and \$361 million in FY2019 and FY2018, respectively.

Total additions in the fiduciary funds for FY2019 and FY2018 decreased by \$60.1 million (3.0%) and \$78.1 million (3.7%), respectively. Net investment income decreased in both years (by \$181.6 million and \$302 million respectively), due to weaker financial markets during those two years. There was an increase in new purchases of units in the investment program in both fiscal years due to strong oil and gas tax collections affecting the Legacy Fund. Total fiduciary fund purchases of units increased \$116.6 million (13.4%) and \$223.2 million (34.4%) in FY2019 and FY2018, respectively.

Deductions in the fiduciary funds increased by \$511.2 million (93.3%) in FY2019 after decreasing the prior year by \$562.8 million (50.7%). The majority of the increase from FY2018 to FY2019 was in redemptions of units, which increased by \$497.8 million (148.1%) due to the constitutionally mandated earnings transfer from the Legacy Fund to

the General Fund. The State Constitution requires that all earnings accrued after June 30, 2017, be transferred to the General Fund at the end of each biennium. A transfer of \$455.3 million was made in July, 2019, and accrued as of the end of FY2019. The majority of the decrease in deductions from FY 2017 to FY2018 came from the \$574.5 million decrease in redemptions of units caused by the large drawdown of \$572.5 million in the Budget Stabilization Fund in FY2017 to cover the State's income shortfall during the 2015-17 biennium.

Payments to TFFR members in the form of benefits and refunds increased by \$13.2 million (6.4%) and \$11.5 million (5.8%) in FY2019 and FY2018, respectively. These increases represented a rise in the total number of retirees drawing retirement benefits from the pension fund as well as an increase in the retirement salaries on which the benefits of new retirees are based.

As of June 30, 2019 and 2018, the TFFR pension plan had a Net Pension Liability (NPL) of \$1.38 billion and \$1.33 billion, and Plan Fiduciary Net Position as a percent of Total Pension Liability (TPL) of 65.5% and 65.5%, respectively.

#### **Overview of the Financial Statements**

This report consists of four parts – management's discussion and analysis (this section), the basic required financial statements, supplementary information, and additional supplementary information that presents combining statements for the investment trust funds. The basic financial statements include fund financial statements that focus on individual parts of RIO's activities (fiduciary funds).

The financial statements also include notes that explain some of the information in the financial statements and provide more detailed data. The statements are followed by a section of required supplementary information that further explains and supports the information in the financial statements. In addition to these required elements, we have included additional supplementary information, including combining statements that provide details about our investment trust funds, each of which are added together and presented in single columns in the basic financial statements.

Management's Discussion and Analysis June 30, 2019 and 2018

#### **Fund Financial Statements**

The fund financial statements provide detailed information about RIO's activities. Funds are accounting devices that RIO uses to keep track of specific sources of funding and spending for particular purposes.

RIO uses fiduciary funds as RIO is the trustee, or fiduciary, for TFFR (a pension plan) and SIB (investment trust funds). RIO is responsible for ensuring that the assets reported in these funds are used for their intended purposes. All of RIO's fiduciary activities are reported in a statement of net position and a statement of changes in net position.

#### **Financial Analysis**

RIO's fiduciary fund total assets as of June 30, 2019

and 2018, were \$15.2 billion and \$13.8 billion, respectively, and were comprised mainly of investments. Total assets increased by \$1.3 billion (9.7%) and \$1.4 billion (11.5%) from each prior year primarily due to strong financial markets.

Total liabilities as of June 30, 2019 and 2018, were \$511.3 and \$54.7 million. Over 90% of the liabilities (\$455.3 million) as of June 30, 2019, were the Legacy Fund's earnings due to the General Fund at the end of the biennium. Previous year-end liabilities were comprised mainly of the securities lending collateral payable.

RIO's fiduciary fund total net position was \$14.7 billion and \$13.8 billion at the close of fiscal years 2019 and 2018, respectively.

#### North Dakota Retirement and Investment Office Net Position – Fiduciary Funds (In Millions)

	2019	2018	Total % Change
Assets			
Investments	\$ 15,028.7	\$ 13,696.7	9.7%
Securities Lending Collateral	46.3	48.1	-3.9%
Receivables	87.7	75.2	16.6%
Cash & Other	20.5	20.9	-1.6%
Total Assets	15,183.2	13,840.9	9.7%
Deferred Outflows of Resources			
Deferred outflows related to pensions	1.2	1.4	-12.9%
Liabilities			
Obligations under Securities Lending	46.3	48.1	-3.9%
Accounts Payable & Accrued Expenses	465.0	6.6	6990.3%
Total Liabilities	511.3	54.7	834.8%
Deferred Inflows of Resources			
Deferred inflows related to pensions	0.2	0.1	124.4%
Total Net Position	\$ 14,672.9	\$ 13,787.5	6.4%

#### North Dakota Retirement and Investment Office Management's Discussion and Analysis June 30, 2019 and 2018

	2018		2017		Total % Change
Assets			_		
Investments	\$	13,696.7	\$	12,251.5	11.8%
Securities Lending Collateral		48.1		77.7	-38.0%
Receivables		75.2		69.0	9.1%
Cash & Other		20.9		19.3	8.1%
Total Assets		13,840.9		12,417.5	11.5%
Deferred Outflows of Resources					
Deferred outflows related to pensions		1.4		0.6	113.3%
Liabilities					
Obligations under Securities Lending		48.1		77.7	-38.0%
Accounts Payable & Accrued Expenses		6.6		9.5	-30.9%
Total Liabilities		54.7		87.2	-37.3%
Deferred Inflows of Resources					
Deferred inflows related to pensions		0.1		0.1	-13.0%
<b>Total Net Position</b>	\$	13,787.5	\$	12,330.8	11.8%

#### North Dakota Retirement and Investment Office Changes in Net Position – Fiduciary Funds (In Millions)

	2019		2018	Total % Change
Additions:				
Contributions	\$	173.9	\$ 168.9	3.0%
Net Investment Income		781.6	963.2	-18.9%
Net Securities Lending Income		1.2	1.3	-7.3%
Purchase of Units		987.8	 871.3	13.4%
<b>Total Additions</b>		1,944.5	2,004.7	-3.0%
Deductions:				
Payments to TFFR members		221.2	208.0	6.4%
Administrative Expenses		4.0	3.8	6.1%
Redemption of Units		833.9	336.2	148.1%
<b>Total Deductions</b>		1,059.2	548.0	93.3%
<b>Total Change in Net Position</b>	\$	885.4	\$ 1,456.7	-39.2%

Management's Discussion and Analysis June 30, 2019 and 2018

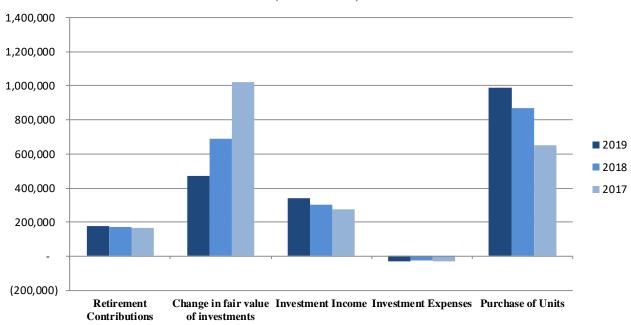
	2018		2017	Total % Change		
Additions:						
Contributions	\$	168.9	\$ 168.1	0.5%		
Net Investment Income		963.2	1,265.3	-23.9%		
Net Securities Lending Income		1.3	1.2	5.5%		
Purchase of Units		871.3	 648.1	34.4%		
<b>Total Additions</b>		2,004.7	 2,082.7	-3.7%		
Deductions:						
Payments to TFFR members		208.0	196.5	5.8%		
Administrative Expenses		3.8	3.5	9.3%		
Redemption of Units		336.2	 910.7	-63.1%		
<b>Total Deductions</b>		548.0	 1,110.7	-50.7%		
<b>Total Change in Net Position</b>	\$	1,456.7	\$ 972.0	49.9%		

## **Statement of Changes in Net Position – Additions**

Contributions collected by the pension trust fund increased by \$5.0 million (3.0%) and \$0.8 million (0.5%) over the previous fiscal years due to both an increase in the number of active members contributing to the fund and an increase in the average salary of active members. Net investment income (including net securities lending income and

net of investment expenses) decreased by \$181.7 million (18.8%) and \$302 million (23.8%) in FY2019 and FY2018, respectively. This was the result of weaker financial markets in both years compared to FY2017. Deposits of funds into the investment trust fund (purchase of units) continue to increase year-over—year, from \$648.1 million in FY2017 to \$987.8 million in FY2019, mainly due to increased deposits to the Legacy Fund.

# Additions to Net Position (in thousands)



Management's Discussion and Analysis June 30, 2019 and 2018

## **Statement of Changes in Net Position – Deductions**

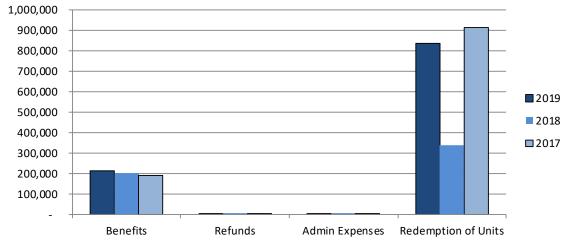
Benefits paid to TFFR plan participants, including partial lump-sum distributions, increased by \$13.2 million (6.4%) and \$11.3 million (5.9%) in FY2019 and FY2018, respectively. The increases are due to an increase in the total number of retirees in the plan as well as an increased retirement salary on which the benefits are based upon. Refunds increased by nearly \$339,000 (6.1%) and \$150,000 (2.8%) in fiscal years 2019 and 2018, respectively.

Administrative expenses increased by nearly \$233,000 in fiscal year 2019 and \$322,000 in fiscal year 2018. This increase was mainly due to an increase in IT contractual services, including the

addition of investment risk analysis/monitoring software in the second half of the fiscal year 2017 (a full year in fiscal year 2018), the payment of the biennial retirement administration software maintenance fee in FY2019; and an increase in pension expense each year due to RIO's participation in the NDPERS pension plan.

The redemption of units in the investment trust funds increased by \$497.8 million in FY2019 due to the first biennial earnings transfer from the Legacy Fund. The redemption of units decreased in FY2018 by \$574.5 million due almost entirely to the FY2017 drawdown of \$572.5 million in the Budget Stabilization Fund to cover the State's income shortfall during the 2015-17 biennium.

# Deductions from Net Position (in thousands)



#### Conclusion

For the fiscal year ended June 30, 2019, the pension investment pool (which includes the TFFR pension plan) and the Legacy Fund generated net time weighted investment returns of 5.5% and 5%, respective policy respectively, trailing their benchmarks. The insurance investment pool achieved a net time weighted return of 6.4% last year. Investment returns for global equities did not meet long-term expectations in fiscal 2019 due to the continued weakness in the international markets and significant return divergence between large and small companies, with larger companies in the United States returning over 10% last year (as referenced by the S&P 500 Index and Russell 1000 Index) while smaller U.S. companies fell over 3.3%

in fiscal 2019 (as referenced by the Russell 2000 Index). Overall investment performance was negatively impacted by escalating concerns over the global trade war between the United States and China which significantly heightened volatility. Federal Reserve Board actions in the fourth quarter of 2018, which included a 0.25% rise in the target Federal Funds Rate, also dampened investor sentiment. Equity returns varied widely with U.S. equities in the pension investment pool earning over 8.3% in fiscal 2019 whereas international equities fell by 0.50%. Fixed income results were strong, gaining 7.8% in FY19, while global equities only gained 4.2% last year. Real asset performance was mixed but largely in line with overall benchmarks for the pension investment pool, with real estate up 6%, infrastructure up 5.1%, and timber up 4.1% in the last

Management's Discussion and Analysis June 30, 2019 and 2018

year. Private equity returns improved within the pension investment pool and rose 8.6% for the 1-year ended June 30, 2019.

For the fiscal year ended June 30, 2018, the pension investment pool and the Legacy Fund generated net time weighted investment returns of 9.1% and 7.5%, respectively, surpassing their respective policy benchmarks. The TFFR pension plan generated a net time weighted return of 9.1%, also exceeding its policy benchmark. The insurance investment pool also performed well and achieved a net time weighted return of 5.2% that year. Investment returns exceeded long-term expectations in fiscal 2018 due to the continued strength of the equity markets particularly in the United States. Investment performance benefited from favorable U.S. income tax policy developments which bolstered revenues, margins and capital spending. Global equities earned over 12.3% within the pension pool with the U.S. equity portfolio (up 16.4%) significantly outpacing international equity returns (up 10.1%). Fixed income results were also strong in the U.S. where investment grade debt earned 1.6% and noninvestment grade debt earned over 5.1% in FY18 within the pension pool, noting that international debt strategies were largely eliminated during the past year. Real asset performance was mixed with generally strong, above benchmark returns posted in real estate and infrastructure (both up over 7%), while our timber portfolio lost 2.5% within the pension pool last year. Private equity returns were also disappointing within the pension pool earning slightly over 5.25% for the 1-year ended June 30, 2018.

While cumulative returns in the post-credit crisis era remained fairly strong, albeit weakening in the past year, investors today face numerous challenges that may limit the potential for future global growth rates to continue and possibly further amplify investment risk. First, one could argue that many asset classes and strategies no longer offer compelling valuations for investors. Second, the ever-growing debt burden from unprecedented monetary policy and muted economic growth in a range of economies makes it less and less likely that authorities will be in a position to provide a cushion in a downturn when it occurs. Finally, the escalating uncertainty of global trade relations and policies between the U.S. and China and the United Kingdom and Europe poses a challenge to certain asset classes and strategies to varying degrees. To meet this challenge, the State Investment Board will continue to research strategies and investment options that mitigate and diversify the sources of risk accepted to address funding issues in the challenging years ahead.

TFFR's funding objective is to meet long-term pension benefit obligations through contributions and investment income. To address TFFR's funding shortfall, the ND State Legislature took action in and approved legislation to increase contributions (4% member and 4% employer) and modify certain benefits for non-grandfathered members. Increased contribution rates will be in effect until TFFR reaches 100% funding on an actuarial basis. This comprehensive funding recovery plan, along with solid investment performance in the future, is expected to improve TFFR's funding level over the long term. However, the Board is continuing to closely assess plan risks and monitor funding progress.

TFFR's funding level increased from 65.4% to 66.0% on an actuarial basis (and remained the same on a market basis at 65.5%) from July 1, 2018 to July 1, 2019. Once net investment losses over the past 5 years are recognized, the plan's funding level is expected to gradually improve over the long term, if all actuarial assumptions are met in the future, including the 7.75% investment return assumption. An Actuarial Experience Study will be conducted in the upcoming year to evaluate current actuarial assumptions, and changes will be considered if recommended by the actuary.

Protecting the long term solvency of the pension plan is the TFFR Board's fiduciary responsibility. The Board will continue to proactively address TFFR funding issues so the plan will be financially strong and sustainable for past, present, and future ND educators.

#### **Contacting RIO Financial Management**

This financial report is designed to provide our Boards, our membership, our clients and the general public with a general overview of RIO's finances and to demonstrate RIO's accountability for the money we receive. If you have any questions about this report or need additional information, contact the North Dakota Retirement and Investment Office, PO Box 7100, Bismarck, ND 58507-7100.

Statement of Net Position – Fiduciary Funds June 30, 2019 and 2018

	Pension Trust		Investmer	nt Trust	Total			
	2019	2018	2019	2018	2019	2018		
Assets:								
Investments, at fair value								
Global equities	\$ 1,495,354,621	1,441,132,463 \$	5,758,237,240 \$	5,205,817,256 \$	7,253,591,861 \$	6,646,949,719		
Global fixed income	575,551,625	589,368,951	4,510,779,742	4,099,552,552	5,086,331,367	4,688,921,503		
Global real assets	455,163,805	416,937,112	1,889,505,508	1,788,156,119	2,344,669,313	2,205,093,231		
Cash equivalents	35,025,659	28,631,157	309,039,173	127,104,537	344,064,832	155,735,694		
Total investments	2,561,095,710	2,476,069,683	12,467,561,663	11,220,630,464	15,028,657,373	13,696,700,147		
Invested securities lending								
collateral	8,495,437	7,413,200	37,770,485	40,721,545	46,265,922	48,134,745		
Receivables:								
Investment income	12,526,857	9,765,629	50,051,024	38,863,279	62,577,881	48,628,908		
Contributions	25,070,538	26,548,463	-	-	25,070,538	26,548,463		
Miscellaneous	6,394	8,127	26,379	28,001	32,773	36,128		
Total receivables	37,603,789	36,322,219	50,077,403	38,891,280	87,681,192	75,213,499		
Due from other state agency	_	174	_	_	_	174		
Cash and cash equivalents	20,305,041	20,486,449	257,511	410,261	20,562,552	20,896,710		
Equipment & Software (net of depr)	4,949	6,749	· -	-	4,949	6,749		
Total assets	2,627,504,926	2,540,298,474	12,555,667,062	11,300,653,550	15,183,171,988	13,840,952,024		
Deferred outflows of resources								
Related to pensions	709,618	813,903	472,668	544,101	1,182,286	1,358,004		
Liabilities:								
Accounts payable	178,293	126.480	253.814	136,431	432.107	262.911		
Investment expenses payable	812,385	459,438	4,829,521	2,279,952	5,641,906	2,739,390		
Securities lending collateral	8,495,437	7,413,200	37,770,485	40,721,545	46,265,922	48,134,745		
Accrued expenses	2,445,348	2,395,362	1,193,588	1,111,661	3,638,936	3,507,023		
Miscellaneous payable	-	-	32,115	34,655	32,115	34,655		
Due to other state funds	-	-	455,263,216	=	455,263,216	, =		
Due to other state agencies	7,954	11,967	1,470	2,572	9,424	14,539		
Total liabilities	11,939,417	10,406,447	499,344,209	44,286,816	511,283,626	54,693,263		
Deferred inflows of resources								
Related to pensions	104,071	48,519	67,473	27,917	171,544	76,436		
Fiduciary net position:								
Restricted for pensions	2,616,171,056	2,530,657,411			2,616,171,056	2,530,657,411		
Held in trust for external investment	2,010,171,030	2,330,037,411	-	-	2,010,171,030	2,330,037,411		
pool participants:								
Pension pool	_	_	3,373,539,596	3,233,154,948	3,373,539,596	3,233,154,948		
Insurance pool	_	_	2,318,620,683	2,171,169,377	2,318,620,683	2,171,169,377		
Held in trust for individual investment			2,510,020,000	2,171,107,077	2,510,020,000	2,171,102,577		
accounts			6,364,567,769	5,852,558,593	6,364,567,769	5,852,558,593		
Total fiduciary net position	\$ 2,616,171,056	\$ 2,530,657,411 \$	12,056,728,048 \$	11,256,882,918 \$	14,672,899,104 \$	13,787,540,329		
Each participant unit is valued at \$1.00			12.056.5322.242	11.056.002.016				
Participant units outstanding			12,056,728,048	11,256,882,918				

The accompanying notes are an integral part of these financial statements.

Statement of Changes in Net Position – Fiduciary Funds Year Ended June 30, 2019 and 2018

	Pension Trust		Investment	t Trust	Total			
	2019	2018	2019	2018	2019	2018		
Additions:						_		
Contributions:								
Employer contributions	\$ 89,444,881 \$	86,675,715 \$	- \$	- \$	89,444,881 \$	86,675,715		
Member contributions	82,429,594	79,877,611	-	-	82,429,594	79,877,611		
Purchased service credit	1,916,787	2,181,106	-	-	1,916,787	2,181,106		
Interest, penalties and other	158,713	194,028	<u> </u>	<u> </u>	158,713	194,028		
Total contributions	173,949,975	168,928,460			173,949,975	168,928,460		
Investment income:								
Net change in fair								
value of investments	84,701,380	162,026,369	388,737,303	527,542,620	473,438,683	689,568,989		
Interest, dividends and other income	56,434,954	54,486,768	284,507,483	246,166,774	340,942,437	300,653,542		
	141,136,334	216,513,137	673,244,786	773,709,394	814,381,120	990,222,531		
Less investment expenses	6,272,801	5,352,945	26,513,804	21,653,138	32,786,605	27,006,083		
Net investment income	134,863,533	211,160,192	646,730,982	752,056,256	781,594,515	963,216,448		
Securities lending activity:								
Securities lending income	224,713	231,448	1,226,258	1,334,400	1,450,971	1,565,848		
Less securities lending expenses	(44,927)	(46,271)	(245,058)	(266,663)	(289,985)	(312,934)		
Net securities lending income	179,786	185,177	981,200	1,067,737	1,160,986	1,252,914		
Purchase of units (\$1 per unit)			987,842,755	871,266,337	987,842,755	871,266,337		
Total additions	308,993,294	380,273,829	1,635,554,937	1,624,390,330	1,944,548,231	2,004,664,159		
Deductions:								
Benefits paid to participants	214,091,045	201,648,202	-	-	214,091,045	201,648,202		
Partial lump-sum distributions	1,237,129	768,829	-	-	1,237,129	768,829		
Refunds	5,900,392	5,561,668	-	-	5,900,392	5,561,668		
Administrative expenses	2,251,083	2,128,794	1,779,837	1,669,600	4,030,920	3,798,394		
Redemption of units (\$1 per unit)			833,929,970	336,169,172	833,929,970	336,169,172		
Total deductions	223,479,649	210,107,493	835,709,807	337,838,772	1,059,189,456	547,946,265		
Change in fiduciary								
net position	85,513,645	170,166,336	799,845,130	1,286,551,558	885,358,775	1,456,717,894		
Fiduciary net position:	, , ,							
Beginning of year	2,530,657,411 \$	2,360,491,075 \$	11,256,882,918 \$	9,970,331,360 \$	13,787,540,329 \$	12,330,822,435		
End of Year	\$ 2,616,171,056 \$	2,530,657,411 \$	12,056,728,048 \$	11,256,882,918 \$	14,672,899,104 \$	13,787,540,329		

The accompanying notes are an integral part of these financial statements.

Notes to Combined Financial Statements June 30, 2019 and 2018

# Note 1 - Summary of Significant Accounting Policies

RIO is an agency of the State of North Dakota operating through the legislative authority of North Dakota Century Code (NDCC) Chapter 54-52.5 and is considered part of the State of North Dakota financial reporting entity and included in the State of North Dakota's Comprehensive Annual Financial Report.

For financial reporting purposes, RIO has included all funds, and has considered all potential component units for which RIO is financially accountable, and other organizations for which the nature and significance of their relationship with RIO are such that exclusion would cause RIO's financial statements to be misleading or incomplete. The Governmental Accounting Standards Board has set forth criteria to be considered in determining financial accountability. These criteria include appointing a voting majority of an organization's governing body and (1) the ability of RIO to impose its will on that organization or (2) the potential for the organization to provide specific financial benefits to, or impose specific financial burdens on RIO.

Based upon these criteria, there are no component units to be included within RIO as a reporting entity and RIO is part of the State of North Dakota as a reporting entity.

#### **Fund Financial Statement**

All activities of RIO are accounted for within the pension and investment trust funds and are shown, by fund, in the fiduciary fund financial statements.

## Measurement Focus, Basis of Accounting and Financial Statement Presentation

The financial statements of RIO are reported using the economic resources measurement focus and the accrual basis of accounting.

This measurement focus includes all assets and liabilities associated with the operations of the fiduciary funds on the statements of net position. Revenues are recorded when earned and expenses are recorded when a liability is incurred, regardless

of the timing of related cash flows.

#### **New Accounting Standards**

In fiscal year 2018, RIO implemented GASB Statement No. 75, Accounting and Financial Reporting for Postemployment Benefits Other Than Pensions, ("GASB 75"). The primary objective of this statement is to improve accounting and financial reporting by state and local governments for postemployment benefits other than pensions (other postemployment benefits or OPEB).

#### **Fiduciary Fund**

A pension trust fund and investment trust funds have been established to account for the assets held by RIO in a trustee capacity for TFFR and as an agent for other governmental units or funds which have placed certain investment assets under the management of SIB. The SIB manages two external investment pools and four individual investment accounts. The two external investment pools consist of a pension pool and insurance pool.

SIB manages the investments of the North Dakota Public Employees Retirement System, Bismarck City Employees and Police, City of Grand Forks Employees and City of Grand Forks Park District Employees pension plans in the pension pool. The investments of Workforce Safety & Insurance, State Fire and Tornado, State Bonding, Petroleum Tank Release Compensation Fund, Insurance Regulatory Trust, North Dakota Association of Counties Fund, Risk Management, Risk Management Workers Comp, PERS Group Insurance, City of Bismarck Deferred Sick Leave, City of Fargo FargoDome Permanent Fund, Cultural Endowment Fund, ND State Board of Medicine, Lewis and Clark Interpretive Center Endowment Fund and Budget Stabilization Fund are managed in the insurance pool.

The Legacy Fund, Job Service of North Dakota, Tobacco Prevention and Control Fund, and PERS Retiree Health investments are managed by SIB in individual investment accounts; except for a small portion of the Legacy Fund fixed income and cash allocations that will be removed from the pools in July 2019.

RIO has no statutory authority over, nor

Notes to Combined Financial Statements June 30, 2019 and 2018

responsibility for, these investment trust funds other than the investment responsibility provided for by statute or through contracts with the individual agencies. The funds that are required to participate according to statute are: Public Employees Retirement System, Workforce Safety & Insurance, State Fire and Tornado, State Bonding, Petroleum Tank Release Compensation Fund, Insurance Regulatory Trust, Risk Management, Risk Management Workers Comp, Cultural Endowment Fund, Legacy Fund and Budget Stabilization Fund.

RIO follows the pronouncements of the Governmental Accounting Standards Board (GASB), which is the nationally accepted standard setting body for establishing accounting principles generally accepted in the United States of America for governmental entities.

Pension and Investment Trust Funds are accounted for using the accrual basis of accounting. Member contributions are recognized in the period in which they are due. Employer contributions are recognized when due and the employer has made a formal commitment to provide the contributions. Benefits and refunds are recognized when due and payable in accordance with the NDCC.

#### **Use of Estimates**

The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates.

RIO utilizes various investment instruments. Investment securities, in general, are exposed to various risks, such as interest rate, credit, and overall market volatility. Due to the level of risk associated with certain investment securities, it is reasonably possible that changes in the values of investment securities will occur in the near term and that such change could materially affect the amounts reported in the statements of net position.

#### **Budgetary Process**

RIO operates through a biennial appropriation, which represents appropriations recommended by the Governor and presented to the General Assembly (the Assembly) at the beginning of each legislative session. The Assembly enacts RIO's budget through passage of a specific appropriation bill. The State of North Dakota's budget is prepared principally on a modified accrual basis. The Governor has line item veto power over all legislation, subject to legislative override.

Once passed and signed, the appropriation bill becomes RIO's financial plan for the next two years. Changes to the appropriation are limited to Emergency Commission authorization, initiative, or referendum action. The Emergency Commission can authorize receipt of federal or other moneys not appropriated by the Assembly if the Assembly did not indicate intent to reject the money. The Emergency Commission may authorize passthrough federal funds from one state agency to another. The Emergency Commission may authorize the transfer of expenditure authority between appropriated line items, however RIO has specific authority as a special fund to transfer between the contingency line item and other line items. Unexpended appropriations lapse at the end of each biennium, except certain capital expenditures covered under the NDCC section 54-44.1-11.

RIO does not use encumbrance accounting. The legal level of budgetary control is at the agency, appropriation and expenditure line item level. RIO does not formally budget revenues and it does not budget by fund. The statement of revenues, expenditures and changes in fund balances - budget and actual is not prepared because revenues are not budgeted.

#### **Capital Assets and Depreciation**

Capital asset expenditures greater than \$5,000 are capitalized at cost in accordance with Section 54-27-21 of the NDCC. Depreciation is computed using the straight-line method over the estimated useful lives of the assets. The estimated useful lives are as follows:

	<u>Years</u>
Office equipment	5
Furniture and fixtures	5

Notes to Combined Financial Statements June 30, 2019 and 2018

#### **Investments**

NDCC Section 21-10-07 states that the SIB shall apply the prudent investor rule when investing funds under its supervision. The prudent investor rule means that in making investments, the fiduciaries shall exercise the judgment and care, under the circumstances then prevailing, that an institutional investor of ordinary prudence, discretion and intelligence exercises in the management of large investments entrusted to it, not in regard to speculation, but in regard to the permanent disposition of funds, considering probable safety of capital as well as probable income.

The pension fund belonging to TFFR and investment trust funds attributable to the City of Bismarck Employee Pension Plan, the City of Bismarck Police Pension Plan, Job Service of North Dakota, City of Grand Forks Employee Pension Plan, City of Grand Forks Park District Pension Plan and the Public Employees Retirement System (PERS) must be invested exclusively for the benefit of their members. All investments are made in accordance with the respective fund's long-term investment objectives and performance goals.

#### **Pooled Investments**

Many funds whose investments are under the supervision of the SIB participate in pooled investments. The agencies transfer money into the investment pools and receive an appropriate percentage ownership of the pooled portfolio based upon fair value. All activities of the investment pools are allocated to the agencies based upon their respective ownership percentages. Each participant unit is valued at \$1.00 per unit.

#### **Investment Valuation and Income Recognition**

Investments are reported at fair value. Quoted market prices, when available, have been used to value investments. The fair values for securities that have no quoted market price represent estimated fair value. International securities are valued based upon quoted foreign market prices and translated into U.S. dollars at the exchange rate in effect at June 30. In general, corporate debt securities have been valued at quoted market prices or, if not available, values are based on yields currently available on comparable securities of issuers with similar credit ratings.

Mortgages have been valued on the basis of their future principal and interest payments discounted at prevailing interest rates for similar instruments. The fair value of real estate investments, including timberland, is based on appraisals plus fiscal year-todate capital transactions. Publicly traded alternative investments are valued based on quoted market prices. When not readily available, alternative investment securities are valued using current estimates of fair value from the investment manager. Such valuations consider variables such as financial performance of the issuer, comparison of comparable companies' earnings multiples, cash flow analysis, recent sales prices of investments, withdrawal restrictions, and other pertinent information. Because of the inherent uncertainty of the valuation for these other alternative investments, the estimated fair value may differ from the values that would have been used had a ready market existed.

The net change in fair value of investments consists of the realized gains or losses and the unrealized increase or decrease in fair value of investments during the year. Realized gains and losses on sales of investments are computed based on the difference between the sales price and the original cost of the investment sold. Realized gains and losses on investments that had been held in more than one fiscal year and sold in the current fiscal year were included as a change in the fair value of investments reported in the prior year(s) and the current year.

Unrealized gains and losses are computed based on changes in the fair value of investments between years. Security transactions are accounted for on a trade date basis. Interest income is recognized when earned. Dividend income is recorded on the exdividend date.

# **Pensions and Other Postemployment Benefits** (OPEB)

For purposes of measuring the net pension and OPEB liabilities, deferred outflows of resources and deferred inflows of resources related to pensions and OPEB, and pension and OPEB expenses, information about the fiduciary net position of the ND Public Employees Retirement System (NDPERS) defined benefit pension and OPEB plans, and additions to/deductions from NDPERS' fiduciary net position have been determined on the

#### North Dakota Retirement and Investment Office Notes to Combined Financial Statements

June 30, 2019 and 2018

same basis as they are reported by NDPERS. For this purpose, benefit payments (including refunds of employee contributions) are recognized when due and payable in accordance with the benefit terms. Investments are reported at fair value.

#### **Note 2 - Cash and Cash Equivalents**

#### **Custodial Credit Risk**

State law generally requires that all state funds be deposited in the Bank of North Dakota. NDCC 21-04-01 provides that public funds belonging to or in the custody of the state shall be deposited in the Bank of North Dakota. Also, NDCC 6-09-07 states, "[a]ll state funds ... must be deposited in the Bank of North Dakota" or must be deposited in accordance with constitutional and statutory provisions.

#### **Pension Trust Fund**

Deposits held by the Pension Trust Fund at June 30, 2019 and 2018 were deposited in the Bank of North Dakota. At June 30, 2019 and 2018, the carrying amount of TFFR's deposits was \$20,305,041 and \$20,486,449, respectively, and the bank balance was \$20,402,305 and \$20,528,537, respectively. The difference results from checks outstanding or deposits not yet processed by the bank. These deposits are exposed to custodial credit risk as uninsured and uncollateralized. However, these deposits at the Bank of North Dakota are guaranteed by the State of North Dakota through NDCC Section 6-09-10.

#### **Investment Trust Funds**

Certificates of deposit, an insurance pool cash account, a pension pool cash account and a Legacy Fund cash account are recorded as investments and have a cost and carrying value of \$276,189,990 and \$88,601,097 at June 30, 2019 and 2018, respectively. In addition, these funds carry cash and cash equivalents totaling \$257,511 and \$410,261 June 30,

2019 and 2018, respectively. These deposits are exposed to custodial credit risk as uninsured and uncollateralized. However, these deposits held at the Bank of North Dakota are guaranteed by the State of North Dakota through NDCC Section 6-09-10.

#### **Note 3 - Investments**

The investment policy of the SIB is governed by NDCC 21-10. The SIB shall apply the prudent investor rule in investing for funds under its supervision. The "prudent investor rule" means that in making investments, the fiduciaries shall exercise the judgment and care, under the circumstances then prevailing, that an institutional investor of ordinary prudence, discretion, and intelligence exercises in the management of large investments entrusted to it, not in regard to speculation but in regard to the permanent disposition of funds, considering probable safety of capital as well as probable income. The retirement funds belonging to the teachers' fund for retirement and the public employees' retirement system must be invested exclusively for the benefit of their members and in accordance with the respective funds' investment goals and objectives.

#### **Interest Rate Risk**

Interest rate risk is the risk that changes in interest rates of debt securities will adversely affect the fair value of an investment. The price of a debt security typically moves in the opposite direction of the change in interest rates. The SIB does not have a formal investment policy that limits investment maturities as a means of managing its exposure to potential fair value losses arising from future changes in interest rates.

At June 30, 2019 and 2018, the following tables show the investments by investment type and maturity (expressed in thousands).

#### North Dakota Retirement and Investment Office Notes to Combined Financial Statements June 30, 2019 and 2018

2019	 Гotal Fair Value	I	ess than 1 Year	1-6 Years	6-	-10 Years	Мо	Years
Asset Backed Securities	\$ 316,024	\$	347	\$ 71,850	\$	69,713	\$	174,114
Bank Deposits	10,010		10,010	-		-		-
Bank Loans	4,372		-	3,195		1,177		-
Collateralized Bonds	2,716		-	-		250		2,466
Commercial Mortgage-Backed	238,449		898	5,521		3,321		228,709
Commercial Paper	1,596		1,596	-		-		-
Corporate Bonds	1,660,145		50,523	831,926		460,176		317,520
Corporate Convertible Bonds	21,761		721	12,187		2,443		6,410
Government Agencies	75,933		2,699	43,751		20,108		9,375
Government Bonds	603,757		23,646	269,268		102,364		208,479
Gov't Mortgage Backed	662,483		12	7,010		21,930		633,531
Gov't-issued CMB	101,527		16	6,696		34,673		60,142
Index Linked Government Bonds	582,630		12,957	154,761		261,770		153,142
Municipal/Provincial Bonds	35,474		600	13,806		5,942		15,126
Non-Government Backed CMOs	72,142		29	6,677		9,251		56,185
Other Fixed Income	1,003		-	1,003		-		-
Repurchase Agreements	(20,003)		(20,003)	-		-		-
Short Term Bills and Notes	31,986		31,986	-		-		-
Funds/Pooled Investments	1,416,917		-	743,936		452,982		219,999
Total Debt Securities	\$ 5,818,922	\$	116,037	\$ 2,171,587	\$	1,446,100	\$	2,085,198

2018	 Cotal Fair Value	]	Less than 1 Year	1-6 Years	6	-10 Years	Mo	ore than 10 Years
Asset Backed Securities	\$ 205,023	\$	470	\$ 44,775	\$	41,176	\$	118,602
Bank Deposits	2,736		2,736	-		-		-
Bank Loans	2,636		387	1,085		1,164		-
Collateralized Bonds	2,752		-	-		250		2,502
Commercial Mortgage-Backed	142,460		-	1,777		968		139,715
Commercial Paper	11,886		11,886	-		-		-
Corporate Bonds	1,479,560		31,658	579,400		451,040		417,462
Corporate Convertible Bonds	24,247		-	14,064		5,156		5,027
Government Agencies	105,819		7,183	62,478		18,693		17,465
Government Bonds	585,476		19,918	230,575		122,793		212,190
Gov't Mortgage Backed	580,245		30	5,555		14,467		560,193
Gov't-issued CMB	106,687		9	605		24,048		82,025
Index Linked Government Bonds	4,618		-	696		-		3,922
Municipal/Provincial Bonds	33,218		600	14,331		2,897		15,390
Non-Government Backed CMOs	60,910		43	2,603		1,724		56,540
Other Fixed Income	2,176		1,739	437				
Repurchase Agreements	(18,967)		(18,967)	-		-		-
Short Term Bills and Notes	44,156		44,156	-		-		-
Sukuk	200		200					
Funds/Pooled Investments	1,819,095		-	161,997		1,061,786		595,312
Total Debt Securities	\$ 5,194,933	\$	102,048	\$ 1,120,378	\$	1,746,162	\$	2,226,345

In the tables above, the fair values of inflation indexed bonds are reflected in the columns based on their stated maturity dates. The principal balances of these bonds are adjusted every six months based on the inflation index for that period.

Some investments are more sensitive to interest rate changes than others. Variable and floating rate collateralized mortgage obligations (CMOs), asset-backed securities (ABS), interest-only and principal-only securities are examples of investments whose fair values may be highly sensitive to interest rate changes.

Interest-only (IO) and principal-only (PO) strips are transactions which involve the separation of the interest and principal components of a security. They are highly sensitive to prepayments by mortgagors, which may result from a decline in interest rates. The SIB held no POs and held IOs valued at \$18.8 and

\$6.7 million at June 30, 2019 and 2018, respectively. The SIB has no policy regarding IO or PO strips.

#### Credit Risk

Credit risk is the risk that an issuer or other counterparty to an investment will not fulfill its obligations. The State Investment Board maintains a highly diversified portfolio of debt securities encompassing a wide range of credit ratings. Although the SIB has no overall policy regarding credit risk, each debt securities manager is given a specific set of guidelines to invest within based on the mandate for which it was hired. The guidelines specify in which range of credit the manager may invest. These ranges include investment grade and below investment grade categories. The following tables present the SIB's ratings as of June 30, 2019 and 2018, (expressed in thousands).

		Credit Rating*										
	Total Fair											
2019	Value	AAA	AA	A	BBB	BB	В	CCC	CC	С	D	NR
Asset Backed Securities	\$ 316,024	\$ 217,426	\$ 34,170	\$ 10,085	\$ 5,356	\$ 4,202	\$ 2,391	\$ 4,876	\$ 1,876	\$ -	\$ 1,319	\$ 34,323
Bank Deposits	10,010	-	1,528	8,482	-	-	-	-	-	-	-	-
Bank Loans	4,372	-	-	-	1,077	2,091	694	510	-	-	-	-
Collateralized Bond	2,716	2,716	-	-	-	-	-	-	-	-	-	-
Commercial Mortgage Backed	238,051	209,223	7,294	1,824	2,106	4,418	2,848	306	-	387	257	9,388
Commercial Paper	1,596	-	-	1,596	-	-	-	-	-	-	-	-
Corporate Bonds	1,660,145	13,187	83,331	527,582	752,212	183,056	85,478	9,374	233	-	878	4,814
Corporate Convertible Bonds	21,761	-	-	547	1,349	7,289	1,275	3,452	-	-	-	7,849
Gov't Agencies	61,492	4,969	35,290	6,939	13,673	-	-	621	-	-	-	-
Gov't Bonds	603,757	4,969	479,780	5,775	60,556	15,590	36,281	-	-	-	-	806
Gov't Mortgage Backed	496,512	-	495,487	200	825	-	-	-	-	-	-	-
Gov't Issued CMB	45,306	-	45,306	-	-	-	-	-	-	-	-	-
Index Linked Government Bonds	582,630	-	582,630	-	-	-	-	-	-	-	-	-
Municipal/Provincial Bonds	35,474	2,282	10,899	13,117	4,018	2,271	2,887	-	-	-	-	-
Non-Gov't Backed CMOs	72,142	26,000	4,758	3,733	1,723	515	2,128	2,830	1,395	-	207	28,853
Other Fixed Income	1,003	-	-	1,003	-	-	-	-	-	-	-	-
Repurchase Agreements	(20,003)	-	(20,003)	-	-	-	-	-	-	-	-	-
Short Term Bills & Notes	31,986	-	2,094	29,892	-	-	-	-	-	-	-	-
Funds/Pooled Investments	1,416,917	303,535	307,910	618,772	109,788	42,433	34,479					
Total Credit Risk of Debt Securities	5,581,891	\$ 784,307	\$2,070,474	\$1,229,547	\$ 952,683	\$ 261,865	\$ 168,461	\$ 21,969	\$ 3,504	\$ 387	\$ 2,661	\$ 86,033
US Gov't & Agencies **	237,031											
Total Debt Securities	\$ 5,818,922											

Notes to Combined Financial Statements June 30, 2019 and 2018

		Credit Rating*										
	Total Fair					Cit	un Kating					
2018	Value	AAA	AA	A	BBB	BB	В	CCC	CC	С	D	NR
Asset Backed Securities	\$ 204,368	\$ 144,343	\$ 18,759	\$ 11,250	\$ 9,889	\$ 3,163	\$ 1,873	\$ 5,965	\$ 2,976	\$ -	\$ 1,495	\$ 4,655
Bank Deposits	2,736	-	-	2,736	-	-	-	-	-	-	-	-
Bank Loans	2,636	-	-	-	387	887	858	272	-	-	-	232
Collateralized Bond	2,752	2,752	-	-	-	-	-	-	-	-	-	-
Commercial Mortgage Backed	141,995	107,878	6,804	5,158	5,673	6,284	1,140	4,431	520	883	1,232	1,992
Commercial Paper	11,886	-	-	10,810	-	-	-	-	-	-	-	1,076
Corporate Bonds	1,479,560	10,261	52,467	311,750	870,000	170,852	56,483	7,745	-	-	2	-
Corporate Convertible Bonds	24,247	-	-	-	1,742	6,265	7,365	8,875	-	-	-	-
Gov't Agencies	92,701	3,096	61,504	1,594	24,799	1,708	-	-	-	-	-	-
Gov't Bonds	75,958	-	3,763	6,033	43,886	9,699	12,577	-	-	-	-	-
Gov't Mortgage Backed	487,236	-	487,236	-	-	-	-	-	-	-	-	-
Gov't Issued CMB	27,991	-	27,991	-	-	-	-	-	-	-	-	-
Index Linked Government Bonds	696	-	-	-	-	-	696	-	-	-	-	-
Municipal/Provincial Bonds	33,218	235	8,326	13,277	7,863	574	2,943	-	-	-	-	-
Non-Gov't Backed CMOs	60,910	23,309	2,398	11,858	2,745	728	2,136	3,344	3,806	-	809	9,777
Other Fixed Income	2,176	-	-	1,499	480	-	_	-	-	-	-	197
Repurchase Agreements	(18,967)	-	(18,967)	-	-	-	-	-	-	-	-	-
Short Term Bills & Notes	42,636	-	7,422	35,214	-	-	_	-	-	-	-	-
Sukuk	200	-	-	-	-	200	-	-	-	-	-	-
Funds/Pooled Investments	1,819,095		1,279,292	110,643	355,231	19,052	54,877		-			-
Total Credit Risk of Debt Securities	4,494,030	\$ 291,874	\$1,936,995	\$ 521,822	\$ 1,322,695	\$ 219,412	\$ 140,948	\$ 30,632	\$ 7,302	\$ 883	\$ 3,538	\$ 17,929
US Gov't & Agencies **	700,903											
Total Debt Securities	\$ 5,194,933											

- \* Ratings are determined in the following order:
  - 1. S&P rating
  - 2. Moody's rating
  - 3. Fitch rating
  - 4. Manager-determined rating (internal rating)
  - 5. If no ratings available using steps 1-4, then shown as not rated.

\*\* US government agency securities explicitly guaranteed by the US government are categorized here. Credit ratings of US government agency securities that are only implicitly guaranteed by the US government are categorized accordingly in the main body of these tables. Implicitly guaranteed agency securities included in the Asset Backed, Commercial Mortgage-Backed, Gov't Issued Commercial & Gov't Mortgage Backed, Gov't Agencies, Gov't Bonds, Index Linked Gov't Bonds and Short Term Bills and Notes categories are issued by FNMA, FHLB, FHLMC, FAMC and TVA.

#### **Concentration of Credit Risk**

Concentration of credit risk is the risk of loss that may be attributed to the magnitude of an investment in a single issuer. As of June 30, 2019 and 2018, the SIB's portfolio has no single issuer exposure that comprises 5% or more of the overall portfolio, excluding investments issued or explicitly guaranteed by the U.S. government and investments in mutual funds, external investment pools, and other pooled investments. Therefore, there is no concentration of credit risk.

#### **Foreign Currency Risk**

Foreign currency risk is the risk that changes in exchange rates will adversely affect the fair value of an investment or a deposit. Although the SIB does not have a formal investment policy governing foreign currency risk, the SIB manages its exposure to fair value loss by requiring their international securities investment managers to maintain diversified portfolios to limit foreign currency and security risk. The SIB's exposure to foreign currency risk is presented in the following tables as of June 30, 2019 and 2018 (expressed in thousands).

Currency	Sho	ort-Term	 Debt	Equity	Rea	al Estate	 Total
Argentine peso	\$	82	\$ 1,011	\$ -	\$	-	\$ 1,093
Australian dollar		20,277	(18,935)	83,638		-	84,980
Brazilian real		214	-	7,957		-	8,171
British pound sterling		7,752	(5,981)	236,946		-	238,717
Canadian dollar		3,374	(3,500)	72,112		-	71,986
Chilean peso		53	-	-		-	53
Chinese yuan renminbi		(3)	-	-		-	(3)
Colombian peso		195	-	-		-	195
Danish krone		108	-	38,568		-	38,676
Euro		(12,041)	13,867	479,747		5,815	487,388
Hong Kong dollar		792	-	139,204		-	139,996
Hungarian forint		172	520	3,833		-	4,525
Indonesian rupiah		56	-	-		-	56
Japanese yen		16,211	-	252,971		-	269,182
Malaysian ringgit		210	509	-		-	719
Mexican peso		37	74	1,321		-	1,432
New Israeli shekel		118	-	2,219		-	2,337
New Taiwan dollar		25	-	4,570		-	4,595
New Zealand dollar		(40)	-	211		-	171
Norwegian krone		621	495	11,845		-	12,961
Polish zloty		(50)	-	2,648		-	2,598
Singapore dollar		351	-	8,021		-	8,372
South African rand		323	-	7,843		-	8,166
South Korean won		177	-	13,080		-	13,257
Swedish krona		1,268	-	56,585		-	57,853
Swiss franc		960	-	119,456		-	120,416
Thai baht		312	-	6,086		-	6,398
Turkish lira		89	-	1,352		-	1,441
International commingled							
funds (various currencies)		-		995,814		28,930	 1,024,744
Total international							
investment securities	\$	41,643	\$ (11,940)	\$ 2,546,027	\$	34,745	\$ 2,610,475

Currency	Short-Term	Debt	Equity	Real Estate	Total
Argentine peso	\$ 63	\$ 3,064	\$ -	\$ -	\$ 3,127
Australian dollar	9,035	(7,424)	86,331	-	87,942
Brazilian real	875	-	3,703	-	4,578
British pound sterling	5,554	(4,870)	224,748	-	225,432
Canadian dollar	3,862	(3,637)	73,146	-	73,371
Chilean peso	55	-	-	-	55
Colombian peso	213	275	-	-	488
Czech koruna	335	-	-	-	335
Danish krone	20	-	22,089	-	22,109
Egyptian pound	308	-	-	-	308
Euro	13,098	(12,059)	444,208	5,312	450,559
Hong Kong dollar	825	-	113,541	-	114,366
Hungarian forint	154	-	3,432	-	3,586
Indonesian rupiah	55	-	-	-	55
Japanese yen	(3,273)	-	235,053	-	231,780
Malaysian ringgit	154	-	1,683	-	1,837
Mexican peso	609	5,671	1,167	-	7,447
New Israeli shekel	246	-	3,755	-	4,001
New Taiwan dollar	142	-	5,441	-	5,583
New Zealand dollar	946	-	468	-	1,414
Norwegian krone	78	-	14,658	-	14,736
Polish zloty	29	-	1,311	-	1,340
Russian ruble	38	-	-	-	38
Singapore dollar	53	-	7,450	-	7,503
South African rand	(1,276)	1,843	6,443	-	7,010
South Korean won	583	-	12,581	-	13,164
Swedish krona	4,746	-	44,887	-	49,633
Swiss franc	1,554	-	82,868	-	84,422
Thai baht	426	-	5,163	-	5,589
Turkish lira	39	-	737	-	776
International commingled					
funds (various currencies)			952,235	25,105	977,340
Total international					
investment securities	\$ 39,546	\$ (17,137)	\$ 2,347,098	\$ 30,417	\$2,399,924

Negative amounts represent short positions.

June 30, 2019 and 2018

#### **Derivative Securities**

Derivatives are financial arrangements between two parties whose payments are based on, or "derived" from, the performance of some agreed upon benchmark. The investment policies of the SIB's clients allow the use of derivative securities to hedge or replicate underlying exposures but not for speculation. All derivatives are considered investment derivative instruments. The fair value of all derivative securities is reported in the statement of net position. At June 30, 2019 and 2018, the SIB had four types of derivative securities: futures, options, swaps and currency forwards.

#### **Futures**

Futures represent commitments to purchase (asset) or sell (liability) securities at a future date and at a specific price. Futures contracts are traded on organized exchanges (exchange traded) thereby minimizing the SIB's counterparty risk. The net change in the futures contracts' value is settled daily in cash with the exchanges. Net gains or losses resulting from the daily settlements are included in net change in fair value of investments in the statement of changes in net position and totaled \$17.0 and \$100.0 million for fiscal years 2019 and 2018, respectively. At June 30, 2019 and 2018, the SIB investment portfolio had the notional futures balances shown below (expressed in thousands).

<u>Futures</u>		Notiona	al Valu	ie
	Jun	ne 30, 2019	Jun	ne 30, 2018
Cash & Cash Equivalent Derivative Futures				
Long	\$	188,152	\$	226,320
Short		(657,304)		(962,500)
Equity Derivative Futures				
Long		808,005		647,386
Short		-		-
Fixed Income Derivative Futures				
Long		352,611		378,144
Short		(141,400)		(132,120)
Total Futures	\$	550,064	\$	157,230

#### **Options**

Options represent or give buyers the right, but not the obligation, to buy (call) or sell (put) an asset at a preset price over a specified period. Options are traded on organized exchanges (exchange traded) thereby minimizing the SIB's counterparty credit risk. The option's price is usually a small percentage of the underlying asset's value. As a seller of a financial option, the SIB, through its investment manager, receives a premium at the beginning of the agreement and bears the risk of an unfavorable change in the price of the financial instrument

underlying the option. As a buyer of a financial option, the SIB, through its investment manager, pays a premium at the beginning of the agreement and the counterparty bears the risk of an unfavorable change in the price of the financial instrument underlying the option. Gains and losses on options are determined based on fair values and recorded with the net change in fair value of investments in the statement of changes in net position and totaled \$3.3 million and \$(9.1) million for fiscal years 2019 and 2018, respectively. At June 30, 2019 and 2018, the SIB investment portfolio had the following option balances (expressed in thousands).

Notes to Combined Financial Statements June 30, 2019 and 2018

<u>Options</u>	Fair Value						
	June 30,	, 2019	June 30	0, 2018			
Cash & Other Options							
Call	\$	(10)	\$	(149)			
Put		1		(363)			
Fixed Income Options							
Call		(38)		-			
Put		(241)		(5)			
Total Options	\$	(288)	\$	(517)			

#### **Swaps**

A swap is a derivative in which counterparties exchange certain benefits of one party's financial instrument for those of the other party's financial instrument. Specifically, the two counterparties agree to exchange one stream of cash flows for another stream. The SIB, through its investment managers, has entered into various swap agreements in an attempt to manage its exposure to interest rate, inflation, credit, currency and total return risk.

Gains and losses on swaps are determined based on fair values and are recorded with the net change in fair value of investments in the statement of changes in net position and totaled \$(18.6) and \$3.6 million for fiscal years 2019 and 2018, respectively. The maximum loss that would be recognized at June 30, 2019 and 2018, if all counterparties failed to perform as contracted is \$3.0 million and \$2.75 million, respectively. Swap fair values are determined by a third party pricing source. At June 30, 2019 and 2018, the SIB's investment portfolio had the swap fair value balances as shown below (expressed in thousands).

#### **Credit Default Swaps**

Credit risk represents the exposure to fair value losses arising from a credit event such as default, failure to pay, restructuring or bankruptcy. In a credit default swap (CDS) contract, the protection buyer of the CDS makes a series of payments to the protection seller and, in exchange, receives a payoff if the credit instrument experiences a credit event. CDS contracts are also used to establish exposure to a desired credit instrument.

	Notiona	l Amount		Fair	Value
			Expiration Date		
Counterparty/Moody's Rating	June 30, 2019	June 30, 2018	Range	June 30, 2019	June 30, 2018
Bank of America/Aa2 (2 contracts)	\$ (430)		2021-2025	\$ (32)	
Bank of America/A1 (2 contracts)		(2,700)	2021		13
BNP Paribas/A1 (1 contract)		(400)	2019		(2)
Citibank/A1 (34 contracts)	(2,535)		2019 - 2024	(172)	
Citibank/A1 (23 contracts)		(9,005)	2018 - 2024		(55)
Credit Suisse First Boston/A1 (8 contracts)	(43,200)		2022 - 2024	931	
Credit Suisse First Boston/A1 (2 contracts)		(89,400)	2022 - 2023		1,369
Deutsche Bank/A3 (2 contracts)	2,000		2059	(16)	
Deutsche Bank/Baa2 (2 contracts)		2,000	2059		9
Goldman Sachs/A3 (4 contracts)	(1,900)		2020 - 2024	(28)	
Goldman Sachs/A3 (10 contracts)		(4,890)	2019 - 2063		37
HSBC Bank/Aa3 (2 contracts)	(1,550)		2019	2	
HSBC Bank/A1 (1 contract)		(100)	2023		(1)
JP Morgan Chase/Aa2 (2 contracts)	(400)		2019 - 2024	1	
JP Morgan Chase/Aa3 (1 contract)		(300)	2019		4
Morgan Stanley/A3 (2 contracts)	(245)		2024	2	
Total Credit Default Swaps	\$ (48,260)	\$ (104,795)		\$ 688	\$ 1,374

The notional amount may be positive or negative, depending on whether the position is long or short, respectively.

#### **Currency Swaps**

Currency risk represents the exposure to fair value losses arising from the change in price of one currency against another. A currency swap is a foreign-exchange agreement between two parties to exchange principal and interest in one currency for the same in another currency.

	1	Notiona	l Amou	nt		Fair Value			
					Expiration Date				
Counterparty/Moody's Rating	June 30	0, 2019	June 3	30, 2018	Range	June	30, 2019	June 3	30, 2018
JP Morgan Chase/Aa3 (1 contract)	\$	-	\$	106	2020	\$		\$	(7)
Total Currency Swaps	\$	-	\$	106		\$	-	\$	(7)
	-							-	

The notional amount may be positive or negative, depending on whether the position is long or short, respectively.

#### **Interest Rate Swaps**

Interest rate risk represents the exposure to fair value losses arising from future changes in prevailing market interest rates. In the most common type of interest rate swap arrangement, one party agrees to pay fixed interest payments on designated dates to a counterparty, who in turn agrees to make return interest payments that float with some reference rate.

	Notiona	l Amount		Fair Value					
Counterparty/Moody's Rating	June 30, 2019	June 30, 2018	Expiration Date Range	June	e 30, 2019	June 30, 2018			
Citigroup Global Markets/A1 (24 contracts) Citigroup Global Markets/A1 (5 contracts)	\$ 84,455	(28,885)	2020 - 2049 2019 - 2025	\$	(3,427)	1,018			
Credit Suisse First Boston/A1 (39 contracts	· · · · · · · · · · · · · · · · · · ·	04.405	2019 - 2049		12	2 275			
Credit Suisse First Boston/A1 (32 contracts JP Morgan Chase/Aa2 (119 contracts)	447,530	94,495	2019 - 2048 2020 - 2048		(14,715)	2,275			
JP Morgan Chase/Aa3 (176 contracts) Total Interest Rate Swaps	\$ 660,447	(134,106) \$ (68,496)	2018 - 2048	-\$	(18,130)	\$ 3,122 \$ 6,415			

The notional amount may be positive or negative, depending on whether the position is long (fixed rate payer) or short (floating rate payer), respectively.

Notes to Combined Financial Statements June 30, 2019 and 2018

#### **Inflation Swaps**

Inflation risk represents the exposure to fair value losses arising from future changes in prevailing market inflation. In an inflation swap, one party pays a fixed rate on a notional principal amount, while the other party pays a floating rate linked to an inflation index, such as the Consumer Price Index (CPI).

		Notiona	lAmou	ınt			Fair '	Value	
					Expiration Date				
Counterparty/Moody's Rating	June 30, 2019		June 30, 2018		Range	June 30, 2019		June 3	30, 2018
JP Morgan Chase/Aa3 (22 contracts)	\$	-	\$	5,730	2022 - 2057	\$		\$	(25)
Total Inflation Swaps	\$	-	\$	5,730		\$		\$	(25)

The notional amount may be positive or negative, depending on whether the position is long (fixed rate payer) or short (floating rate payer), respectively.

#### **Total Return Swaps**

A total return swap is an agreement in which one party makes payments based on a set rate, either fixed or variable, while the other party makes payments based on the return of an underlying asset (income and capital gains). The underlying asset, or reference asset, is owned by the party receiving the set rate payment.

		Notiona	l Amo	unt			Fair V	/alue	
					Expiration Date				
Counterparty/Moody's Rating	June	June 30, 2019		e 30, 2018	Range	June 30, 2019		June	30, 2018
Credit Suisse International/A1 (2 contracts)	\$	4,800	\$	4,800	2041	\$	(23)	\$	(20)
Total Total Return Swaps	\$	4,800	\$	4,800		\$	(23)	\$	(20)

The notional amount may be positive or negative, depending on whether the position is long (fixed rate payer) or short (floating rate payer), respectively.

Notes to Combined Financial Statements June 30, 2019 and 2018

#### **Currency Forwards**

Currency forwards represent forward exchange contracts that are entered into in order to manage the exposure to changes in currency exchange rates on the currency denominated portfolio holdings. A forward exchange contract is a commitment to purchase (positive) or sell (negative) a currency at a future date at a negotiated forward rate. The gain or loss arising from the difference between the original

contracts and the closing of such contracts is included in the net change in fair value of investments in the statements of changes in net position and totaled \$1.7 million and \$2.2 million for fiscal years 2019 and 2018, respectively. At June 30, 2019 and 2018, the SIB's investment portfolio included the currency forwards balances shown below (expressed in thousands).

								Fair V	alue	
Currency		Cost	Pu	rchases		Sales	6/	30/2019	6/30/2018	
Argentine peso	\$	15	\$	15	\$	-	\$	15	\$	2
Australian dollar		(1,472)		-		(1,472)		(1,484)		(1,832)
Brazilian real		(18)		-		(18)		(30)		1,207
British pound sterling		(8,241)		15,387		(23,628)		(8,279)		(3,549)
Canadian dollar		(8,460)		9,960		(18,420)		(8,491)		(2,737)
Colombian peso		186		186		-		195		213
Egyptian pound		-		-		-		-		308
Euro		(61,622)		37,046		(98,668)		(62,411)		(17,897)
Japanese yen		(17,609)		13,100		(30,709)		(18,046)		(44,049)
Mexican peso		6		2,818		(2,812)		38		83
Russian ruble		-		-		-		-		38
South African rand		(13)		1,608		(1,621)		-		(1,727)
Swedish krona		-		-		-		-		4,629
United States dollar		97,228		177,348		(80,120)		97,228		67,119
Total forwards subject to currency risk						\$	(1,265)	\$	1,808	

#### **Derivative Interest Rate Risk**

Derivative interest rate risk is the risk that changes in interest rates will adversely affect the value of an interest rate-based derivative investment. The SIB

does not have a formal investment policy regarding such derivative investments. At June 30, 2019 and 2018, the tables below show the SIB's derivative investments subject to interest rate risk (expressed in thousands).

2019		Total										
	N	Votional									Grea	ater than
		Value	3 mo	nths or less	3 to	6 months	6 to	12 months	1-5	years	5	years
Futures-interest rate contracts	\$	(257,941)	\$	162,528	\$	(525,813)	\$	105,344	\$	-	\$	-
Options-margined interest rate contracts				-								-
Total	\$	(257,941)	\$	162,528	\$	(525,813)	\$	105,344	\$	-	\$	-
		_										
	T	otal Fair									Grea	ater than
		Value	3 mo	nths or less	3 to	6 months	6 to	12 months	1-5	years	5	years
Options on futures	\$	(279)	\$	(279)	\$	-	\$	-	\$	-	\$	-
Swaps - interest rate contracts		(18,130)		-		5		293		(536)		(17,892)
Swaps - credit contracts		688		(1)		2		5		776		(94)
Total	\$	(17,721)	\$	(280)	\$	7	\$	298	\$	240	\$	(17,986)

Notes to Combined Financial Statements June 30, 2019 and 2018

2018		Total										
	N	lotional									Great	ter than
		Value	3 mo	nths or less	3 to	6 months	6 to	12 months	1-5	5 years	5 <u>y</u>	years
Futures-interest rate contracts	\$	(490,157)	\$	(442,696)	\$	(160,157)	\$	(50,322)	\$	163,018	\$	-
Options-margined interest rate contracts		(17)		(17)				-		-		-
Total	\$	(490,174)	\$	(442,713)	\$	(160,157)	\$	(50,322)	\$	163,018	\$	-
	T	otal Fair									Great	ter than
	T	otal Fair Value	3 mo	nths or less	3 to	6 months	6 to	12 months	1-5	5 years		ter than years
Options - interest rate contracts	\$		3 mo	nths or less	3 to	6 months	6 to	12 months	1-5 \$	5 years -		
Options - interest rate contracts Options on futures					_			12 months -	\$		5 <u>y</u>	
•		Value -		-	_	-		-	\$		5 <u>y</u>	
Options on futures		Value - (5)		(5)	_			-	\$	- -	5 <u>y</u>	years - -
Options on futures Swaps - interest rate contracts		Value - (5) 6,390		(5)	_	- - 251		- - 179	\$	- 1,229	5 <u>y</u>	- - 4,731

#### **Fair Value Measurement**

The SIB categorizes its fair value measurements within the fair value hierarchy established by generally accepted accounting principles. The hierarchy is based on the valuation inputs used to measure the fair value of the asset and give the highest priority to unadjusted quoted prices in active markets for identical assets or liabilities (level 1 measurements) and the lowest priority to unobservable inputs (level 3 measurements).

Level 1 Unadjusted quoted prices for identical instruments in active markets.

Level 2 Quoted prices for similar instruments in

active markets; quoted prices for identical or similar instruments in markets that are not active; and model-derived valuations in which all significant inputs are observable.

Level 3 Valuations derived from valuation techniques in which significant inputs are unobservable.

Investments that are measured at fair value using the net asset value per share (or its equivalent) as a practical expedient are not classified in the fair value hierarchy.

The following tables show the fair value leveling of the SIB's investment portfolio at June 30, 2019 and 2018 (expressed in thousands).

		Dol	lars in \$(000)	
2019		Quoted Prices in	Fair Value Measures Usin	ng
2019		-	Cionificant Other	Cionificant
	Foir Wolse	Active Markets for Indentical Assets	Significant Other	Significant
	Fair Value		Observable Inputs	Unobservable Inputs
Insertments by fair value level	6/30/19	(Level 1)	(Level 2)	(Level 3)
Investments by fair value level Short Term Securities				
	¢ 1.50¢	¢	¢ 1.506	¢
Commercial Paper Short Term Bills and Notes	\$ 1,596	\$ -	\$ 1,596	\$ -
Short Term Securities	31,986	-	31,986 33,582	-
	33,582	-	33,382	-
Fixed income investments				
Asset Backed Securities	310,664	-	303,159	7,505
Bank Loans	4,372	-	4,372	-
Collateralized Bonds	2,716	-	2,716	-
Commercial Mortgage-Backed	238,449	-	238,449	-
Corporate Bonds	1,660,145	-	1,656,435	3,710
Corporate Convertible Bonds	21,761	-	20,995	766
Funds - Fixed Income ETF	23,735	23,735	-	-
Government Agencies	73,034	-	73,034	-
Government Bonds	603,757	-	603,757	-
Government Mortgage Backed Securities	662,483	-	662,483	-
Gov't-issued Commercial Mortgage-Backed	101,527	-	101,527	-
Index Linked Government Bonds	582,630	-	582,630	-
Municipal/Provincial Bonds	35,474	-	35,474	-
Non-Government Backed C.M.O.s	63,752	-	57,495	6,257
Other Fixed Income	1,003	_	1,003	-
Total fixed income investments	4,385,502	23,735	4,343,529	18,238
Equity investments				
Common Stock	4,648,105	4,648,050	-	55
Convertible Equity	2,816	· · · · ·	2,816	-
Funds - Equities ETF	173,072	173,072	· -	_
Preferred Stock	4,561	4,561	_	_
Rights/Warrants	776	776	_	_
Stapled Securities	4,520	4,520	-	_
Total equity investments	4,833,850	4,830,979	2,816	55
Derivative investments	,	, , , , , , , , , , , , , , , , , , ,	·	
Exchange Cleared Swaps	(17,168)	_	(17,168)	_
Options	(288)	(279)	(9)	_
Swaps	(297)	(21)	(297)	_
Total derivative investments	(17,753)	(279)	(17,474)	
Total investments by fair value level	\$ 9,235,181	\$ 4,854,435	\$ 4,362,453	\$ 18,293
	, , , , , , , , , , , , , , , , , , , ,	,	,	. 20,270

			1	Unfunded	Redemption Frequency	Redemption
Investments measured at the net asset value (N	IAV)	)	Co	mmitments	(If Currently Eligible)	Notice Period
Commingled Funds-Debt	\$	1,393,182	\$	-	Daily, monthly	1-15 days
Commingled Funds-Equities		1,109,757		-	Daily, monthly	1-15 days
Distressed Debt		235,686		76,921	Quarterly, Not eligible	60 days
Long/Short		223,575		-	Monthly	15 days
Mezzanine Debt		496		8,499	Not eligible	Not eligible
Private Credit		290,157		146,200	Not eligible	Not eligible
Private Equity		229,364		339,869	Not eligible	Not eligible
Real Assets		1,798,987		358,278	Quarterly, Not eligible	30-90 days
Total investments measured at the NAV	\$	5,281,204	\$	929,767		
Investments at other than fair value						
Cash and adjustments to cash	\$	478,322				
Bank Certificates of Deposit		37,300				
Other miscellaneous securities		16,653				
Repurchase Agreements		(20,003)				
Total investments at other than fair value	\$	512,272				
Total investments	•	15,028,657				
Total Investments	Ψ	13,040,037				

			llars in \$(000) Fair Value Measures Usin	ng.
2018			Tan value Measures Osin	18
		Quoted Prices in		
		Active Markets for	Significant Other	Significant
	Fair Value	Indentical Assets	Observable Inputs	Unobservable Inputs
	6/30/18	(Level 1)	(Level 2)	(Level 3)
Investments by fair value level				
Short Term Securities				
Commercial Paper	\$ 11,886	\$ -	\$ 11,886	\$ -
Short Term Bills and Notes	44,156	-	44,156	-
Short Term Securities	56,042	-	56,042	-
Fixed income investments				
Asset Backed Securities	192,586	_	192,586	-
Bank Loans	2,636	_	2,636	-
Collateralized Bonds	2,752	_	2,752	-
Commercial Mortgage-Backed	140,642	_	137,012	3,630
Corporate Bonds	1,479,560	_	1,479,296	264
Corporate Convertible Bonds	24,247	_	24,247	_
Funds - Fixed Income ETF	28,654	28,654	-	-
Government Agencies	105,819	, -	104,115	1,704
Government Bonds	585,476	-	585,476	-
Government Mortgage Backed Securities	580,245	-	580,245	-
Gov't-issued Commercial Mortgage-Backed	106,687	-	106,687	_
Index Linked Government Bonds	4,618	-	4,618	-
Municipal/Provincial Bonds	33,218	-	33,218	-
Non-Government Backed C.M.O.s	55,798	-	53,407	2,391
Other Fixed Income	2,376	-	2,376	-
Total fixed income investments	3,345,314	28,654	3,308,671	7,989
Equity investments				
Common Stock	4,193,715	4,193,668	_	47
Convertible Equity	2,547	-	2,547	-
Funds - Equities ETF	276,921	276,921	_,-	_
Preferred Stock	2,060	2,049	11	_
Rights/Warrants	167	167	_	_
Stapled Securities	4,865	4,865	-	_
Total equity investments	4,480,275	4,477,670	2,558	47
Derivative investments		·		
Exchange Cleared Swaps	7,739		7,739	_
Options Options	(517)	(5)	(512)	_
Swaps	(2)	-	(2)	_
Total derivative investments	7,220	(5)	7,225	_
Total investments by fair value level	\$ 7,888,851	\$ 4,506,319	\$ 3,374,496	\$ 8,036

Notes to Combined Financial Statements June 30, 2019 and 2018

				Unfunded	Redemption Frequency	Redemption
Investments measured at the net asset value	(NA	V)	C	Commitments	(If Currently Eligible)	Notice Period
Commingled Funds-Debt	\$	1,790,441	\$		Daily, monthly	1-15 days
Commingled Funds-Equities		1,082,603		-	Daily, monthly	1-15 days
Distressed Debt		310,992		45,971	Quarterly, Not eligible	60 days
Long/Short		208,253		-	Monthly	15 days
Mezzanine Debt		540		8,505	Not eligible	Not eligible
Private Credit		238,107		177,200	Not eligible	Not eligible
Private Equity		191,437		300,526	Not eligible	Not eligible
Real Assets		1,729,935		265,460	Quarterly, Not eligible	30-90 days
Total investments measured at the NAV	\$	5,552,308	\$	797,662		
T						
Investments at other than fair value		101010				
Cash and adjustments to cash	\$	196,912				
Bank Certificates of Deposit		58,222				
Other miscellaneous securities		19,374				
Repurchase Agreements		(18,967)				
Total investments at other than fair value	\$	255,541				
Total investments	\$	13,696,700				

Securities classified in Level 1 are valued using quoted prices in active markets for those securities. Securities classified in Level 2 and Level 3 are valued using methodologies such as various bid evaluations, market averages and other matrix pricing techniques as well as values derived from associated traded securities or last trade data. In instances where inputs used to measure fair value fall into different levels, the fair value is categorized based on the lowest level input that is significant to the valuation.

Investments valued at the net asset value (NAV) per share (or its equivalent) have been classified separately in the tables above and include investments considered to be alternative investments as defined by the AICPA. The definition includes investments for which a readily determinable fair value does not exist (that is, investments not listed on national exchanges or over-the-counter markets, or for which quoted market prices are not available from sources such as financial publications, the exchanges, or NASDAQ). These types of investments can be held within any of the asset classes used by the SIB based on underlying portfolio holdings and analysis of risk and return relationships. These investments can be structured in different ways, including limited partnerships, limited liability companies, common trusts and mutual funds. Some are closed-ended with a specific life and capital commitment while others are openended with opportunity for ad hoc contributions or withdrawals and termination upon proper notice.

Commingled/Mutual Funds — These types of funds are open-ended funds and may be utilized in equity or fixed income asset classes. They are funds made up of underlying securities that have readily available fair values (publicly traded stocks or bonds). The SIB owns units of these funds rather than the individual securities. Contributions or withdrawals from these funds can be made as needed, generally with daily or monthly liquidity, with a notice period of one to fifteen days. Because they are liquid funds, there are no unfunded commitments for these types of investments.

Distressed Debt — These include investments in the debt instruments of companies which may be publicly traded or privately held that are financially distressed and are either in bankruptcy or likely candidates for bankruptcy. Typical holdings are senior and subordinated debt instruments, mortgages and bank loans. The SIB is including these types of investments in its global fixed income allocations. As of June 30, 2019 and 2018, unfunded commitments in one of its two distressed debt funds totaled \$76.9 million and \$46.0 million, respectively. This

June 30, 2019 and 2018

fund is not eligible for redemptions. The other fund is eligible for redemptions with quarterly liquidity and 60 days notice, and has no unfunded commitment.

Equity Long/Short — This strategy is a combination of long and short positions, primarily in publicly traded equities. The SIB utilizes this strategy, through a limited partnership structure, within its global equity allocations. This is an open-ended fund with monthly liquidity with a notice period of 15 days. There was no unfunded commitment as of June 30, 2019 and 2018.

Mezzanine Debt — This strategy is a hybrid of debt and equity financing. It is essentially debt capital that gives the lender the rights to convert to an ownership or equity interest in the company if the loan is not paid back in time and in full. It is generally subordinated to senior debt. The SIB utilizes this strategy, through a limited partnership structure, in its global fixed income allocation. The two funds in this category are not eligible for redemptions, have remaining lives of 2-5 years, and unfunded commitments of \$8.5 million and \$8.5 million as of June 30, 2019 and 2018, respectively.

Private Credit — These investments include loans to private companies, privately placed debt of public companies, or loans backed by real assets. Loan repayment can be derived from either cash flows from an operating company or cash flows generated by a physical or esoteric asset. Private debt is typically secured and has various protections/covenants in place. The debt is customized to the borrower's requirement, thus rendering it illiquid. The SIB includes these strategies within its global fixed income allocation through limited partnership-type structures. Private credit issuers may be investment grade but are typically belowinvestment grade and similar in some respect to the syndicated bank loan and high yield markets. The SIB employs two senior private credit funds, commonly referred to as direct lenders, which are structured as custom managed accounts that are not eligible for redemptions during remaining investment lives of 2 to 3 years, and the unfunded commitments totaled \$146.2 million and \$177.2 million as of June 30, 2019 and 2018, respectively.

*Private Equity* — Private Equity investments are typically private interests in corporations across different areas of the capital structure and in of the different stages corporations' development via limited partnership vehicles. Private Equity investments are illiquid and long term in nature (10-12 years), typically held until maturity. Private Equity portfolios generally have a "J-Curve Effect" whereby there are low to negative returns in the initial years due to the payment of investment management fees and initial funding of investments made by the General Partner during a period when investments are typically carried at cost and returns have not been realized. To diversify the program, Private Equity investments are made across business cycles, vintage years, and different strategies. The SIB has a dedicated subasset class for private equity investments within its global equity allocation in the pension pool. The SIB does not have the option to request redemptions from its private equity funds. The General Partner distributes earnings and proceeds from the sale of the underlying investments as transactions occur. The SIB has \$339.9 million and \$300.5 million in unfunded private equity commitments as of June 30, 2019 and 2018, respectively.

Venture Capital — These include investments in companies in a range of stages of development from start-up/seed stage, early stage, and later/expansion stage. Investments are typically made in years one through six and returns typically occur in years four through ten.

Buyouts — These include investments in funds that seek out and purchase underperforming or undervalued companies in order to improve them and sell them or take them public many years later. These funds are also often involved in management buyouts, which are buyouts conducted by the management of the company being purchased, and they often play key roles in leveraged buyouts, which are buyouts that are funded with borrowed money.

Notes to Combined Financial Statements June 30, 2019 and 2018

Real Assets — These investments are intended to provide allocations to tangible assets that are expected to be inflation protected and provide performance above the inflation rate as indicated by the CPI. Investments are generally structured as limited partnerships or limited liability companies. Investments in Real Assets include:

Real Estate — includes investments in private vehicles through limited partnerships or commingled vehicles that have an ownership interest in direct real estate properties. The investment strategies may include "value added" strategies, which derive their return from both income and appreciation, "opportunistic", which derive their return primarily through appreciation, and "alternative" which invest in less traditional types of property. Both domestic and international real estate funds are utilized. The SIB has a dedicated sub-asset class for these types of investments within global real assets. There are currently 10 different real estate funds in the portfolio. Three of those funds are open-ended vehicles that accept redemption requests quarterly with a 30-90 day notification period. The remaining seven funds are closed-ended limited partnerships that are not eligible for redemptions. Those seven have a combined unfunded commitment of \$114.4 million and \$79.2 million as of June 30, 2019 and 2018, respectively.

Timberland — includes investments in limited liability companies that have an ownership interest in properties where the value of the property is derived mainly from income-producing timber but also from the "higher and better use" value of the underlying land. The SIB includes these assets within its global real assets allocations. There are three funds in the portfolio and they have no unfunded commitments. The funds are not eligible for redemption other than distributions of income and/or proceeds as determined by the investment manager. The funds have remaining lives of 2-7 years.

Infrastructure — includes investments in

limited partnerships that have an ownership interest in transportation assets such as toll roads, tunnels and bridges; and regulated assets such as electricity transmission, gas oil distribution and wastewater and collection. Other possible investments would include communication assets and social infrastructure. The SIB includes these assets within its global real assets allocations. The infrastructure investments in the portfolio as of June 30, 2019 and 2018, include both open and closed-ended funds. The open-ended funds have no unfunded commitments and are eligible redemptions quarterly with 90 days notice. There may be a 3-12 month queue for receiving redemptions. The closed-ended funds have unfunded commitments of \$243.9 million and \$186.3 million at June 30, 2019 and 2018, respectively, and are not eligible for redemptions.

#### **Securities Lending**

State statutes permit and the SIB has authorized the use of securities lending – loans of securities to broker-dealers and other entities for collateral with a simultaneous agreement to return the collateral for the same securities in the future. Northern Trust is the securities lending agent for the SIB. Securities are loaned versus collateral that may include cash, U.S. government securities and irrevocable letters of credit. U.S. securities are loaned versus collateral valued at 102% of the fair value of the securities plus any accrued interest. Non-U.S. securities are loaned versus collateral valued at 105% of the fair value of the securities plus any accrued interest.

Non-cash collateral cannot be pledged or sold unless the borrower defaults. All securities loans can be terminated on demand by either the lender or the borrower, although the average term of SIB loans was approximately 71 and 61 days as of June 30, 2019 and 2018, respectively. Cash open collateral is invested in a short term investment pool, which had an interest sensitivity of 3 days as of June 30, 2019 and 2018. This pool is valued based on amortized cost. There were no violations of legal or contractual provisions, no borrower or lending agent default losses known to the securities lending agent. There are no dividends or coupon payments owing on the securities lent. Securities lending earnings are

June 30, 2019 and 2018

credited to participating clients on approximately the fifteenth day of the following month.

Indemnification deals with the situation in which a client's securities are not returned due to the insolvency of a borrower and Northern Trust has failed to live up to its contractual responsibilities relating to the lending of those securities. Northern Trust's responsibilities include performing appropriate borrower and collateral investment credit analyses, demanding adequate types and levels of collateral, and complying with applicable

Department of Labor and Federal Financial Institutions Examination Council regulations concerning securities lending.

For securities loaned at fiscal year end, the SIB has no credit risk exposure to borrowers because the amounts the SIB owes the borrowers exceeds the amounts the borrowers owe the SIB.

The following represents the balances relating to the securities lending transactions at June 30, 2019 and 2018 (expressed in thousands).

2019	Securi Len		Coll	n-Cash lateral 'alue	Col Inve	Cash Hateral estment Value
Lent for cash collateral:						
US agency securities	\$	528	\$	-	\$	541
US government securities	•	4,387		-		4,481
US corporate fixed income securities	2	0,637		-		21,047
Global agency securities		1,559				1,636
Global government securities		100				107
Global corporate fixed income securities		1,565		-		1,667
US equities	1	4,560		-		14,762
Global equities		1,934		-		2,025
Lent for non-cash collateral:						
US agency securities		200		202		-
US government securities	1	7,679		17,968		-
US corporate fixed income securities	6	4,979		65,750		-
US equities	21	1,061	2	213,840		-
Global equities	1	7,900		18,960		-
Total	\$ 35	7,089	\$ 3	316,720	\$	46,266

June 30, 2019 and 2018

2018	 curities Lent	Col	n-Cash llateral Value	Co Inv	Cash ollateral æstment Value
Lent for cash collateral:					
US agency securities	\$ 27	\$	-	\$	28
US government securities	885		-		909
US corporate fixed income securities	19,599		-		20,129
Global corporate fixed income securities	942		-		990
US equities	22,812		-		23,365
Global equities	2,583		-		2,714
Lent for non-cash collateral:					
US agency securities	751		772		-
US government securities	3,894		4,005		-
US corporate fixed income securities	149,102		153,336		-
US equities	208,835		214,360		-
Global equities	41,776		44,399		-
Total	\$ 451,206	\$	416,872	\$	48,135

# **Note 4 - Capital Assets**

	June 30, 2017	Additions	Retirements	June 30, 2018	Additions	Retirements	June 30, 2019
Office equipment Less accumulated	\$16,879	\$ -	\$ -	\$16,879	\$ -	\$ -	\$16,879
depreciation on office equipment	(8,330)	(1,800)	-	(10,130)	(1,800)	-	(11,930)
Software Less accumulated	1,213,500	-	-	1,213,500	-	-	1,213,500
depreciation on software	(1,213,500)	_	-	(1,213,500)	-	-	(1,213,500)
	\$ 8,549	\$ (1,800)	\$ -	\$ 6,749	\$ (1,800)	\$ -	\$ 4,949

June 30, 2019 and 2018

#### **Note 5 - State Agency Transactions**

#### Due To/From Other State Agencies and Other State Funds

Amounts due from/to other state agencies and other state funds are as follows as of June 30, 2019 and 2018:

	2	2019	2	018
Due To Other State Agencies				
Information Technology Department	\$	7,848	\$ '	7,280
Office of Administrative Hearings		-		33
Office of Attorney General		1,288	,	7,157
Office of Management and Budget		150		69
Rough Rider Industries		137		-
Total due to other state agencies	\$	9,424	\$ 14	4,539
Due From Other State Agencies				
Public Employees Retirement System	\$		\$	174
Due To Other State Funds				
General Fund	\$455	5,263,216	\$	-

Due to/from other state agencies balances are a result of a time lag between the dates that services are provided, the payments are made, and the transactions are entered into the accounting system. Due to other state funds represents the statutorily defined earnings of the Legacy Fund for the 2017-19 biennium that is required by the State Constitution to be transferred to the general fund at the end of the biennium.

#### **Note 6 - Operating Leases**

RIO leased office space under an operating lease effective July 1, 2017 through June 30, 2023. RIO

also incurs rent expense at other locations on a temporary basis to sponsor retirement education for TFFR members. Rent expense totaled \$87,766 annually, for fiscal years 2019 and 2018. Minimum payments under the lease for fiscal 2020 are \$88,365 annually.

#### **Note 7 - Changes in Noncurrent Liabilities**

Changes in noncurrent liabilities are included in accrued expenses in the statements of changes in net position. The changes for the years ended June 30, 2019 and 2018 are summarized as follows:

	Beginning Balance 7/1/2018	Additions	Reductions	Ending Balance 6/30/2019	Amounts Due Within One Year
Accrued Leave	\$196,079	\$149,667	(\$151,519)	\$194,227	\$126,078
	Beginning Balance 7/1/2017	Additions	Reductions	Ending Balance 6/30/2018	Amounts Due Within One Year
Accrued Leave	\$176,864	\$144,638	(\$125,423)	\$196,079	\$117,453

Pension and Investment Trust Funds liquidate the accrued annual leave.

Notes to Combined Financial Statements June 30, 2019 and 2018

# Note 8 - North Dakota Teachers' Fund for Retirement

#### Administration

The following brief description of TFFR is provided for general information purposes only. Participants should refer to NDCC Chapter 15-39.1 for more complete information.

TFFR is a cost-sharing multiple-employer defined benefit pension plan covering all North Dakota public teachers and certain other teachers who meet various membership requirements. TFFR provides for pension, death and disability benefits. The cost to administer the TFFR plan is financed by investment income and contributions.

Responsibility for administration of the TFFR benefits program is assigned to a seven-member

Board of Trustees (Board). The Board consists of the State Treasurer, the Superintendent of Public Instruction, and five members appointed by the Governor. The appointed members serve five-year terms which end on June 30 of alternate years. The appointed Board members must include two active teachers, one active school administrator, and two retired members. The TFFR Board submits any necessary or desirable changes in statutes relating to the administration of the fund, including benefit terms, to the Legislative Assembly for consideration. The Legislative Assembly has final authority for changes to benefit terms and contribution rates.

#### Membership

As of June 30, 2019 and 2018, the number of participating employer units was 213 and 214, respectively, consisting of the following:

	June 30, 2019	June 30, 2018
Public School Districts	175	176
County Superintendents	6	6
Special Education Units	19	19
Vocational Education Units	4	4
Other	9	9
Total	213	214

TFFR's membership consisted of the following:

	2019	2018
Retirees and beneficiaries currently receiving benefits	8,918	8,743
Terminated employees - vested	1,657	1,623
Terminated employees - nonvested	1,035	971
Total	11,610	11,337
Current employees		
Vested	7,936	7,696
Nonvested	3,239	3,185
Total	11,175	10,881

Notes to Combined Financial Statements June 30, 2019 and 2018

## **Member and Employer Contributions**

Member and employer contributions paid to TFFR are set by NDCC Section 15-39.1-09. Every eligible teacher in the State of North Dakota is required to be a member of TFFR and is assessed at a rate of 11.75% of salary as defined by NDCC Section 15-39.1-04. Every governmental body employing a teacher must also pay into TFFR a sum equal to 12.75% of the teacher's salary. Member and employer contributions will be reduced to 7.75% each when the fund reaches 100% funded ratio on an actuarial basis.

A vested member who terminates covered employment may elect a refund of contributions paid plus 6% interest or defer payment until eligible for pension benefits. A nonvested member who terminates covered employment must claim a refund of contributions paid before age 70½. Refunded members forfeit all service credits under TFFR. These service credits may be repurchased upon return to covered employment under certain circumstances, as defined by the NDCC.

#### **Pension Benefits**

For purposes of determining pension benefits, members are classified within one of three categories. Tier 1 grandfathered and Tier 1 nongrandfathered members are those with service credit on file as of July 1, 2008. Tier 2 members are those newly employed and returning refunded members on or after July 1, 2008.

#### Tier 1 Grandfathered

A Tier 1 grandfathered member is entitled to receive unreduced benefits when three or more years of credited service as a teacher in North Dakota have accumulated, the member is no longer employed as a teacher and the member has reached age 65, or the sum of age and years of service credit equals or exceeds 85. TFFR permits early retirement from ages 55 to 64, with benefits actuarially reduced by 6% per year for every year the member's retirement age is less than 65 years or the date as of which age plus service equal 85. In either case, benefits may not exceed the maximum benefits specified in Section 415 of the Internal Revenue Code.

Pension benefits paid by TFFR are determined by

NDCC Section 15-39.1-10. Monthly benefits under TFFR are equal to the three highest annual salaries earned divided by 36 months and multiplied by 2.00% times the number of service credits earned. Retirees may elect payment of benefits in the form of a single life annuity, 100% or 50% joint and survivor annuity, ten or twenty-year term certain annuity, partial lump-sum option or level income with Social Security benefits. Members may also qualify for benefits calculated under other formulas.

#### Tier 1 Non-grandfathered

A Tier 1 non-grandfathered member is entitled to receive unreduced benefits when three or more years of credited service as a teacher in North Dakota have accumulated, the member is no longer employed as a teacher and the member has reached age 65, or has reached age 60 and the sum of age and years of service credit equals or exceeds 90. TFFR permits early retirement from ages 55 to 64, with benefits actuarially reduced by 8% per year from the earlier of age 60/Rule of 90 or age 65. In either case, benefits may not exceed the maximum benefits specified in Section 415 of the Internal Revenue Code

Pension benefits paid by TFFR are determined by NDCC Section 15-39.1-10. Monthly benefits under TFFR are equal to the three highest annual salaries earned divided by 36 months and multiplied by 2.00% times the number of service credits earned. Retirees may elect payment of benefits in the form of a single life annuity, 100% or 50% joint and survivor annuity, ten or twenty-year term certain annuity, partial lump-sum option or level income with Social Security benefits. Members may also qualify for benefits calculated under other formulas.

#### Tier 2

A Tier 2 member is entitled to receive unreduced benefits when five or more years of credited service as a teacher in North Dakota have accumulated, the member is no longer employed as a teacher and the member has reached age 65, or has reached age 60 and the sum of age and years of service credit equals or exceeds 90. TFFR permits early retirement from ages 55 to 64, with benefits actuarially reduced by 8% per year from the earlier of age 60/Rule of 90 or age 65. In either case, benefits may not exceed the maximum benefits specified in Section 415 of the

Notes to Combined Financial Statements June 30, 2019 and 2018

Internal Revenue Code.

Pension benefits paid by TFFR are determined by NDCC Section 15-39.1-10. Monthly benefits under TFFR are equal to the five highest annual salaries earned divided by 60 months and multiplied by 2.00% times the number of service credits earned. Retirees may elect payment of benefits in the form of a single life annuity, 100% or 50% joint and survivor annuity, ten or twenty-year term certain annuity, partial lump-sum option or level income with Social Security benefits. Members may also qualify for benefits calculated under other formulas.

#### **Death and Disability Benefits**

Death benefits may be paid to a member's designated beneficiary. If a member's death occurs before retirement, the benefit options available are determined by the member's vesting status prior to death. If a member's death occurs after retirement, the death benefit received by the beneficiary (if any) is based on the retirement plan the member selected at retirement.

An active member is eligible to receive disability benefits when: (a) a total disability lasting 12 months or more does not allow the continuation of teaching, (b) the member has accumulated five years of credited service in North Dakota, and (c) the Board of Trustees of TFFR has determined eligibility based upon medical evidence. The amount of the disability benefit is computed by the retirement formula in NDCC Section 15-39.1-10 without consideration of age and uses the member's actual years of credited service. There is no actuarial reduction for reason of disability retirement.

#### **Investment Rate of Return**

The annual money-weighted rate of return on pension plan investments, net of pension plan investment expense, was 5.46% and 9.15% for the years ended June 30, 2019 and 2018, respectively. The money-weighted rate of return expresses investment performance, net of investment expense, adjusted for the changing amounts actually invested.

#### **Realized Gains and Losses**

Realized gains and losses on sales of investments are components of net change in fair value of investments and are computed as described in Note 1. For the years ended June 30, 2019 and 2018, TFFR had net realized gains of \$66,548,800 and \$108,984,395, respectively.

#### **Net Pension Liability**

The components of the net pension liability of TFFR at June 30, 2019 and 2018 (expressed in thousands), were as follows:

	Ju	ne 30, 2019	Ju	ne 30, 2018
Total pension liability	\$	3,993,424	\$	3,863,515
Plan fiduciary net position		(2,616,171)		(2,530,657)
Net pension liability (NPL)	\$	1,377,253	\$	1,332,858
Plan fiduciary net position as a				
percentage of the total pension liability		65.5%		65.5%

#### **Actuarial Assumptions**

The total pension liability was determined by an actuarial valuation as of July 1, 2019 and 2018, using

the following actuarial assumptions:

Valuation date	July 1, 2019	July 1, 2018
Inflation	2.75%	2.75%
Salary increases	4.25% to 14.50%; varying by service,	4.25% to 14.50%; varying by service,
	including inflation and productivity	including inflation and productivity
Cost of living adjustments	None	None
Investment rate of return	7.75% net of investment expenses,	7.75% net of investment expenses,
	including inflation	including inflation

For active and inactive members, mortality rates were based on the RP-2014 Employee Mortality Table projected generationally using Scale MP-2014. For healthy retirees, mortality rates were based on the RP-2014 Healthy Annuitant Mortality Table set back one year, multiplied by 50% for ages under 75 and grading up to 100% by age 80, projected generationally using Scale MP-2014. For disabled retirees, mortality rates were based on the RP-2014 Disabled Mortality Table set forward four years.

The actuarial assumptions used in the July 1, 2019 and 2018 valuations were based on the results of an actuarial experience study dated April 30, 2015, for the period July 1, 2009 – June 30, 2014. An actuarial experience study is generally conducted every five years.

The TFFR Board is responsible for establishing investment policy for the fund assets under NDCC 15-39.1-05.2. Benefit payments are projected to occur over a long period of time. This allows TFFR to adopt a long-term investment horizon and asset allocation policy for the management of fund assets. Asset allocation policy is critical because it defines the basic risk and return characteristics of the

investment portfolio. Asset allocation targets are established using an asset-liability analysis designed to assist the Board in determining an acceptable volatility target for the fund and an optimal asset allocation policy mix. This asset-liability analysis considers both sides of the plan balance sheet, utilizing both quantitative and qualitative inputs, in order to estimate the potential impact of various asset class mixes on key measures of total plan risk, including the resulting estimated impact of funded status and contribution rates.

The long-term expected rate of return on TFFR investments was determined using a building-block method in which best-estimate ranges of expected future real rates of return (expected returns, net of investment expense and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation. Best estimates of arithmetic real rates of return for each major asset class included in the TFFR target asset allocation as of July 1, 2019 and 2018 are summarized in the following tables:

2019		Long-Term
		Expected
	Target	Real Rate of
	Allocation	Return
Global Equity	58.0%	6.9%
Global Fixed Income	23.0%	2.1%
Global Real Assets	18.0%	5.4%
Cash Equivalents	1.0%	0.0%

2018		Long-Term Expected
	Target	Real Rate of
Asset Class	Allocation	Return
Global Equity	58.0%	6.7%
Global Fixed Income	23.0%	1.5%
Global Real Assets	18.0%	5.1%
Cash Equivalents	1.0%	0.0%

As part of the most recent asset/liability study, the total fund real rate of return was upwardly adjusted by 0.50% to reflect a longer investment time horizon than is assumed in the investment consultant's expected returns and to account for above benchmark returns achieved through active management. In order to estimate the nominal rate of return, the real rate of return was adjusted upward by 2.75% for expected inflation.

#### **Discount Rate**

The discount rate used to measure the total pension liability was 7.75% as of June 30, 2019 and 2018. The projection of cash flows used to determine the discount rate assumed that member and employer contributions will be made at rates equal to those based on the July 1, 2019 and 2018 Actuarial Valuation Report. For this purpose, only employer contributions that are intended to fund benefits of current plan members and their beneficiaries are included. Projected employer contributions that are

intended to fund the service costs of future plan members and their beneficiaries, as well as projected contributions from future plan members, are not included. Based on those assumptions, TFFR's fiduciary net position was projected to be available to make all projected future benefit payments of current plan members as of July 1, 2019 and 2018. Therefore, the long-term expected rate of return on TFFR investments was applied to all periods of projected benefit payments to determine the total pension liability as of June 30, 2019 and 2018.

#### **Sensitivity of Net Pension Liability**

The following presents the net pension liability of the TFFR employers calculated using the discount rate of 7.75% as of June 30, 2019 and 2018, as well as what the employers' net pension liability would be if it were calculated using a discount rate that is 1-percentage-point lower or 1-percentage-point higher than the current rate:

2019			
	1% Decrease	Current Discount	1% Increase
	(6.75%)	Rate (7.75%)	(8.75%)
Employers' net pension liability	\$ 1,859,994,289	\$ 1,377,253,104	\$ 976,082,834
2018			
	1% Decrease	Current Discount	1% Increase
	(6.75%)	Rate (7.75%)	(8.75%)
Employers' net pension liability	\$ 1,799,744,383	\$ 1,332,858,315	\$ 944,554,161

June 30, 2019 and 2018

# Note 9 - ND Public Employees Retirement System (NDPERS)

Permanent employees of RIO participate in the pension and other post-employment benefit (OPEB) plans of NDPERS, which is also an agency of the State of North Dakota financial reporting entity and is included in the State of North Dakota's Comprehensive Annual Financial Report. The following brief description of NDPERS is provided for general information purposes only. Participants should refer to NDCC Chapter 54-52 for more complete information.

NDPERS pension (Main System) and OPEB plans are cost-sharing multiple-employer defined benefit plans that cover employees/retirees of the State of North Dakota, its agencies and various participating political subdivisions. NDPERS pension plan provides for pension, death and disability benefits. NDPERS OPEB plan provides a credit toward the monthly health insurance premium of members receiving retirement benefits from the PERS, HPRS and Judges retirement under Chapter 27-17 of the North Dakota Century Code. Effective July 1, 2015, the credit is also available to apply towards monthly premiums under the state dental, vision and longterm care plan and any other health insurance plan. The cost to administer the pension plan is financed through the contributions and investment earnings of the plan. The Retiree Health Insurance Credit Fund is advance-funded on an actuarially determined basis.

Responsibility for administration of the NDPERS defined benefit pension and OPEB plans is assigned to a Board comprised of nine members. The Board consists of a Chairman, who is appointed by the Governor, one member appointed by the Attorney General, one member appointed by the State Health Officer, three members elected by the active membership of the NDPERS system, one member elected by the retired public employees and two members of the legislative assembly appointed by the chairman of the legislative management.

#### **Pension Benefits**

Benefits are set by statute. NDPERS has no provisions or policies with respect to automatic and ad hoc post-retirement benefit increases. Members of the Main System are entitled to unreduced

monthly pension benefits beginning when the sum of age and years of credited service equal or exceed 85 (Rule of 85), or at normal retirement age (65). For members hired on or after January 1, 2016 the Rule of 85 is replaced with the Rule of 90 with a minimum age of 60. The monthly pension benefit is equal to 2.00% of their average monthly salary, using the highest 36 months out of the last 180 months of service, for each year of service. The plan permits early retirement at ages 55-64 with three or more years of service.

Members may elect to receive the pension benefits in the form of a single life, joint and survivor, term-certain annuity, or partial lump sum with ongoing annuity. Members may elect to receive the value of their accumulated contributions, plus interest, as a lump sum distribution upon retirement or termination, or they may elect to receive their benefits in the form of an annuity. For each member electing an annuity, total payment will not be less than the members' accumulated contributions plus interest.

#### **Death and Disability Benefits**

Death and disability benefits are set by statute. If an active member dies with less than three years of service, a death benefit equal to the value of the member's accumulated contributions, plus interest, is paid to the member's beneficiary. If the member has earned more than three years of credited service, the surviving spouse will be entitled to a single payment refund, life-time monthly payment in an amount equal to 50% of the member's accrued normal retirement benefit, or monthly payments in an amount equal to the member's accrued 100% Joint and Survivor retirement benefit if the member had reached normal retirement age prior to date of death. If the surviving spouse dies before the member's accumulated pension benefits are paid, the balance will be payable to the surviving spouse's beneficiary.

Eligible members, who become totally disabled after a minimum of 180 days of service, receive monthly disability benefits equal to 25% of their final average salary with a minimum benefit of \$100. To qualify under this section, the member has to become disabled during the period of eligible employment and apply for benefits within one year of termination. The definition for disabled is set by the System in the

Notes to Combined Financial Statements June 30, 2019 and 2018

North Dakota Administrative Code.

#### **Refunds of Member Contributions**

Upon termination, if a member is not vested (is not 65 or does not have three years of service credited for the NDPERS) they will receive the accumulated member contributions plus interest, or may elect to receive this amount at a later date. If a member has vested, they have the option of applying for a refund or can remain as a terminated vested participant. If a member terminated and withdrew their accumulated member contributions and is subsequently reemployed, they have the option of repurchasing their previous service.

#### **Member and Employer Contributions**

Member and employer contributions paid to NDPERS are set by statute and are established as a percent of salaries and wages. Member contribution rates are 7% and employer contribution rates are 7.12% of covered compensation.

The member's account balance includes the vested employer contributions equal to the member's contributions to an eligible deferred compensation plan. The minimum member contribution is \$25 and the maximum may not exceed the following:

1 to 12 months of service – Greater of one percent of monthly salary or \$25 13 to 24 months of service – Greater of two percent of monthly salary or \$25 25 to 36 months of service – Greater of three percent of monthly salary or \$25 Longer than 36 months of service – Greater of four percent of monthly salary or \$25

#### **OPEB Benefits**

The employer contribution for the PERS, the HPRS and the Defined Contribution Plan is set by statute at 1.14% of covered compensation. The employer contribution for employees of the state board of career and technical education is 2.99% of covered compensation for a period of eight years ending October 1, 2015. Employees participating in the retirement plan as part-time/temporary members are required to contribute 1.14% of their covered compensation to the Retiree Health Insurance Credit Fund. Employees purchasing previous service credit are also required to make an employee contribution to the Fund. The benefit amount applied each year is shown as "prefunded credit applied" on the Statement of Changes in Plan Net Position for the OPEB trust funds.

Retiree health insurance credit benefits and death and disability benefits are set by statute. There are no provisions or policies with respect to automatic and ad hoc post-retirement benefit increases. Employees who are receiving monthly retirement benefits from the PERS, the HPRS, the Defined Contribution Plan, the Chapter 27-17 judges or an employee receiving disability benefits, or the spouse of a deceased annuitant receiving a surviving spouse benefit or if the member selected a joint and survivor option are eligible to receive a credit toward their monthly health insurance premium under the state health plan.

Effective July 1, 2015, the credit is also available to apply towards monthly premiums under the state dental, vision and long-term care plan and any other health insurance plan. The benefits are equal to \$5.00 for each of the employee's, or deceased employee's years of credited service not to exceed the premium in effect for selected coverage. The retiree health insurance credit is also available for early retirement with reduced benefits.

# Pension & OPEB Liabilities, Pension & OPEB Expense, and Deferred Outflows of Resources and Deferred Inflows of Resources Related to Pensions & OPEB

At June 30, 2019 and 2018, RIO reported a liability of \$2,704,103 and \$2,629,203, respectively, for its proportionate share of the net pension and OPEB liability. These amounts are included in the accrued liabilities in the statements of net position. The net pension and OPEB liability was measured as of June 30, 2018 and 2017, and the total pension and OPEB liability used to calculate the net pension and OPEB liability was determined by an actuarial valuation as of that date. RIO's proportion of the net pension liability was based on RIO's share of covered payroll in the pension and OPEB plans relative to the covered payroll of all participating NDPERS Main System and OPEB employers. At June 30, 2018, RIO's pension plan proportion was 0.153507 percent

Notes to Combined Financial Statements June 30, 2019 and 2018

and as of June 30, 2017, was 0.156317 percent. RIO's OPEB plan proportion was 0.144121 percent as of June 30, 2018, and 0.147503% as of June 30, 2017.

RIO recognized pension and OPEB expense of

\$345,458 and \$405,602 for the years ended June 30, 2019 and 2018, respectively. At June 30, 2019 and 2018, RIO reported deferred outflows of resources and deferred inflows of resources related to pensions and OPEB from the following sources:

	Deferred Outflows of Resources 2019 2018		Deferred I Reso	
Differences between expected and actual experience	\$ 10,258	\$ 14,934	\$ 90,482	\$ 15,088
Changes in assumptions Net differences between projected and actual earnings on plan investments	944,466	1,041,506 33,791	36,976 15,046	56,669 4,411
Changes in proportion and differences between employer contributions and proportionate share of contributions	96,731	138,324	29,040	268
Employer contributions subsequent to the measurement date	130,831	129,449		
Total	\$ 1,182,286	\$1,358,004	\$ 171,544	\$ 76,436

Deferred outflows of resources related to pensions and OPEB resulting from employer contributions subsequent to the measurement date in the amount of \$130,831 will be recognized as a reduction of the net pension liability in the year ended June 30, 2020.

Other amounts reported as deferred outflows of resources and (deferred inflows of resources) related to pensions and OPEB will be recognized in pension expense as follows:

Year Ended June 30	
2020	\$ 302,482
2021	267,407
2022	198,444
2023	105,306
2024	5,670
Thereafter	 602
	\$ 879,911

2.50%

Notes to Combined Financial Statements June 30, 2019 and 2018

#### **Actuarial assumptions**

The total pension and OPEB liabilities in the July 1, 2018 and 2017 actuarial valuation were determined using the following actuarial assumptions, applied to all periods included in the measurement:

#### 2018 - Pension Plan

Inflation

Salary increases	Service at Beginning of Year:	State Employee	Non-State Employee
	0 1	2.00%	15.00%
	1	9.50%	10.00%
	2	7.25%	8.00%
	Age*		

Under 30	7.25%	10.00%
30 - 39	6.50%	7.50%
40 - 49	6.25%	6.75%
50 - 59	5.75%	6.50%
60+	5 00%	5 25%

<sup>\*</sup>Age-based salary increase rates apply for employees with three or more years of service

Investment rate of return Cost-of-living adjustments

7.75%, net of investment expenses None

#### 2017 - Pension Plan

Inflation 3.50%

Salary increases	Service at Beginning of Year:	Increase Rate:
	0	15.00%
	1	10.00%
	2	8.00%
	Age*	
	Under 36	8.00%
	36 - 40	7.50%
	41 - 49	6.00%
	50+	5.00%

<sup>\*</sup>Age-based salary increase rates apply for employees with three or more years of service

Investment rate of return Cost-of-living adjustments

7.75%, net of investment expenses None

For active members, inactive members and healthy retirees, mortality rates were based on the RP-2000 Combined Healthy Mortality Table set back two years for males and three years for females, projected generationally using the SSA 2014 Intermediate Cost scale from 2014. For disabled retirees, mortality rates were based on the RP-2000 Disabled

Mortality Table set back one year for males (no setback for females) multiplied by 125%.

The actuarial assumptions used were based on the results of an actuarial experience study completed in 2015. They are the same as the assumptions used in the July 1, 2018 and 2017, funding actuarial valuation for NDPERS.

June 30, 2019 and 2018

As a result of the 2015 actuarial experience study, the NDPERS Board adopted several changes to the actuarial assumptions effective July 1, 2015. This includes changes to the mortality tables, disability

incidence rates, retirement rates, administrative expenses, salary scale, and percent married assumption.

#### 2018 and 2017 - OPEB Plan

Inflation
Salary increase
Investment Rate of Return
Cost of Living Adjustment

2.50%Not applicable7.50%, net of investment expensesNone

For active members, inactive members and healthy retirees, mortality rates were based on the RP-2000 Combined Healthy Mortality Table set back two years for males and three years for females, projected generationally using the SSA 2014 Intermediate Cost scale from 2014. For disabled retirees, mortality rates were based on the RP-2000 Disabled Mortality Table set back one year for males (no setback for females) multiplied by 125%.

The long-term expected rate of return on pension and OPEB plan investments was determined using a

building-block method in which best-estimate ranges of expected future real rates of return (expected returns, net of investment expense and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation. Best estimates of arithmetic real rates of return for each major asset class included in the plans' target asset allocations are summarized in the following table:

2019 - Pension Plan		
		Long-Term
		Expected
	Target	Real Rate of
Asset Class	Allocation	Return
Global Equity	57%	6.8%
Global Fixed Income	23%	1.5%
Global Real Assets	20%	5.1%

2018 - Pension Plan		
		Long-Term
		Expected
	Target	Real Rate of
Asset Class	Allocation	Return
Global Equity	57%	6.7%
Global Fixed Income	22%	1.0%
Global Real Assets	20%	5.2%
Cash Equivalents	1%	0.0%

2019 - OPEB Plan		
		Long-Term
		Expected
	Target	Real Rate of
Asset Class	Allocation	Return
Large Cap Domestic Equity	37%	5.8%
Small Cap Domestic Equity	9%	7.1%
International Equity	14%	6.2%
Core-Plus Fixed Income	40%	1.5%

	Long-Term
	Expected
Target	Real Rate of
Allocation	Return
37%	5.8%
9%	7.1%
14%	6.2%
40%	1.6%
	37% 9% 14%

#### Discount rate

For pension plans, GASB Statement No. 67 includes a specific requirement for the discount rate that is used for the purpose of the measurement of the Total Pension Liability. This rate considers the ability of the System to meet benefit obligations in the future. To make this determination, employer contributions, employee contributions, benefit payments, expenses and investment returns are projected into the future. The current employer and employee fixed rate contributions are assumed to be made in each future year. The Plan Net Position (assets) in future years can then be determined and compared to its obligation to make benefit payments in those years. In years where assets are not projected to be sufficient to meet benefit payments, which is the case for the PERS pension plan as of June 30, 2018 and 2017, the use of a municipal bond rate is required.

The Single Discount Rate (SDR) is equivalent to applying these two rates to the benefits that are projected to be paid during the different time periods. The SDR reflects (1) the long-term expected rate of return on pension plan investments (during the

period in which the fiduciary net position is projected to be sufficient to pay benefits) and (2) a tax-exempt municipal bond rate based on an index of 20-year general obligation bonds with an average AA credit rating as of the measurement date (to the extent that the contributions for use with the long-term expected rate of return are not met).

For the purpose of the 2018 valuation, the expected rate of return on pension plan investments is 7.75%, the municipal bond rate is 3.62%, and the resulting Single Discount Rate is 6.32%. For the purpose of the 2017 valuation, the expected rate of return on pension plan investments is 7.75%, the municipal bond rate is 3.56%, and the resulting Single Discount Rate is 6.44%.

The discount rate used to measure the total OPEB liability for both 2018 and 2017 was 7.5%. The projection of cash flows used to determine the discount rate assumed plan member and statutory/Board approved employer contributions will be made at rates equal to those based on the July 1, 2018, 2017 and 2016 OPEB actuarial valuation reports. For this purpose, only employer

contributions that are intended to fund benefits of current OPEB members and their beneficiaries are included. Projected employer contributions that are intended to fund the service costs of future plan members and their beneficiaries are not included. Based on those assumptions, the OPEB fiduciary net position was projected to be sufficient to make all projected future benefit payments of current plan members. Therefore, the long-term expected rate of return on OPEB investments was applied to all periods of projected benefit payments to determine the total OPEB liability for both years.

#### Sensitivity of the Employer's proportionate share of the net pension and OPEB liability to changes in the discount rate

The following presents the RIO's proportionate share of the net pension and OPEB liability calculated using the current discount rate, as well as what the RIO's proportionate share of the net pension and OPEB liability would be if it were calculated using a discount rate that is 1-percentage-point lower or 1-percentage-point higher than the current rate:

2019			
	1% Decrease	Current Discount	1% Increase
	(5.32%)	Rate (6.32%)	(7.32%)
RIO's net pension liability	\$ 3,520,141	\$ 2,590,598	\$ 1,814,924
	1% Decrease	Current Discount	1% Increase
	(6.5%)	Rate (7.5%)	(8.5%)
RIO's net OPEB liability	143,611	113,505	87,696
2018			
	1% Decrease	Current Discount	1% Increase
	(5.44%)	Rate (6.44%)	(7.44%)
RIO's net pension liability	\$ 3,410,833	\$ 2,512,527	\$ 1,765,175
	1% Decrease	Current Discount	1% Increase
	(6.5%)	Rate (7.5%)	(8.5%)
RIO's net OPEB liability	146,065	116,676	91,486

Notes to Combined Financial Statements June 30, 2019 and 2018

#### **Sensitivity for Healthcare Cost Trend Rates**

The benefit provided by the North Dakota retiree health insurance credit fund is a fixed dollar subsidy and is not affected by the healthcare cost trend. Therefore, a sensitivity analysis was not performed.

#### Pension and OPEB plan fiduciary net position

Detailed information about the pension and OPEB plans' fiduciary net position is available in the separately issued NDPERS Comprehensive Annual Financial Report. This report can be accessed on the NDPERS website utilizing the following link: <a href="https://ndpers.nd.gov/about/financial/annual-report-archive/">https://ndpers.nd.gov/about/financial/annual-report-archive/</a>.

#### **Note 10 - Related Parties**

As stated in Note 1, RIO is an agency of the State of North Dakota; as such, other agencies of the state are related parties.

#### **Note 11 - Contingencies/Litigation**

The State Investment Board has been named as a defendant in two cases, arising out of the Tribune and General Motors bankruptcy proceedings, relating to securities that were purchased by external investment managers in one or more portfolios held by the SIB on behalf of its investment client funds. Outside counsel has been retained for both cases, in addition to assistance received from the ND Office of Attorney General. The SIB became a party to a Settlement Agreement dated April 10, 2019, as a Term Lender in the General Motors bankruptcy proceeding. The liability will be borne by other parties, so no liability was accrued by the SIB as of June 30, 2019. On July 15, 2019, in the Tribune proceeding, the Litigation Trustee filed a Notice of Appeal to the Second Circuit, appealing the various judgments of the U.S. District Court that dismissed his claims against defendants in the Action and denying leave to amend his complaint to add a constructive fraudulent transfer claim. It is expected that briefing of all the legal issues before the Second Circuit will occur in late 2019 and early 2020. Accordingly, no liability has been recorded for this case.

## Schedule of Changes in Net Pension Liability and Related Ratios North Dakota Teachers' Fund for Retirement Last 10 Fiscal Years\* (Dollars in thousands)

	2019	2018		2017		2016		2015		2014
Total pension liability				`						
Service cost	\$ 77,756	\$ 78,041	\$	75,476	\$	68,239	\$	60,618	\$	56,752
Interest	296,876	287,375		276,412		265,440		249,064		237,821
Changes of benefit terms	-	-		-		-		-		-
Differences between expected and actual experience	(23,495)	(27,939)		(10,749)		(8,093)		2,209		9,347
Changes of assumptions	-	-		-		-		171,325		-
Benefit payments, including refunds of member contributions	 (221,228)	(207,979)		(196,516)		(185,969)		(172,239)		(162,259)
Net change in total pension liability	129,909	129,498		144,623		139,617		310,977		141,661
Total pension liability - beginning	 3,863,515	3,734,017	3	3,589,394	3	,449,777	3	3,138,800		2,997,139
Total pension liability - ending (a)	\$ 3,993,424	\$3,863,515	\$3	3,734,017	\$3	,589,394	\$3	3,449,777	\$ 3	3,138,800
Plan fiduciary net position										
Contributions - employer	\$ 89,445	\$ 86,676	\$	86,059	\$	82,840	\$	78,422	\$	62,355
Contributions - member	82,429	79,878		79,309		76,343		72,268		56,555
Contributions - purchased service credit	1,917	2,181		2,553		2,768		1,601		2,034
Contributions - other	159	194		236		45		172		48
Net investment income	135,043	211,345		266,688		8,239		73,205		294,246
Benefit payments, including refunds of member contributions	(221,228)	(207,979)		(196,516)		(185,969)		(172,239)		(162,259)
Administrative expenses	 (2,251)	(2,129)		(2,173)		(1,852)		(1,923)		(1,586)
Net change in plan fiduciary net position	85,514	170,166		236,156		(17,586)		51,506		251,393
Plan fiduciary net position - beginning **	 2,530,657	2,360,491		2,124,335	2	,141,921	2	2,090,415		1,839,584
Plan fiduciary net position - ending (b)	\$ 2,616,171	\$2,530,657	\$2	2,360,491	\$2	2,124,335	\$2	2,141,921	\$ 2	2,090,977
Plan's net pension liability - ending (a) - (b)	\$ 1,377,253	\$1,332,858	\$1	1,373,526	\$1	,465,059	\$1	,307,856	\$ :	1,047,823
Plan fiduciary net position as a percentage of the total pension										
liability	65.5%	65.5%		63.2%		59.2%		62.1%		66.6%
Covered payroll	\$ 701,528	\$ 679,809	\$	674,971	\$	649,725	\$	615,105	\$	580,053
Plan's net pension liability as a percentage of covered payroll	196.3%	196.1%		203.5%		225.5%		212.6%		180.6%

#### **Notes to Schedule:**

*Changes of assumptions:* In 2015, amounts reported as changes of assumptions resulted primarily from a decrease in the investment return assumption from 8% to 7.75% and an updated mortality improvement scale.

<sup>\*</sup> Complete data for this schedule is not available prior to 2014.

<sup>\*\*</sup> Beginning plan fiduciary net position restated in 2015 due to GASB 68 implementation.

# Schedule of Employer Contributions North Dakota Teachers' Fund for Retirement Last 10 Fiscal Years (Dollars in thousands)

			Con	tributions					Contributions
			in r	elation to					as a
	Ac	tuarially	the a	actuarially	Cor	ntribution			percentage of
	det	termined	det	termined	de	deficiency		Covered	covered
Fiscal Year	con	tribution	con	tribution	(	(excess)		payroll	payroll
2010	\$	52,053	\$	39,837	\$	12,216	\$	482,868	8.25%
2011		65,113		44,545		20,568		509,091	8.75%
2012		69,374		46,126		23,248		527,156	8.75%
2013		52,396		59,301		(6,905)		551,656	10.75%
2014		59,513		62,355		(2,842)		580,053	10.75%
2015		71,168		78,422		(7,254)		615,105	12.75%
2016		84,724		82,840		1,884		649,725	12.75%
2017		89,231		86,059		3,172		674,971	12.75%
2018		88,307		86,676		1,631		679,809	12.75%
2019		90,778		89,445		1,333		701,528	12.75%

#### **Notes to Schedule**

*Valuation Date:* Actuarially determined contributions for each fiscal year are based on the actuarial valuation as of the beginning of the year in which contributions are reported.

Methods and assumptions used to determine contribution rates:

Actuarial cost method Entry age

Amortization method Level percentage of payroll, closed

Remaining amortization period 24 years

Asset valuation method 5-year smoothed market

Inflation 2.75%; decreased from 3.0% prior to July 1, 2015

Salary increases 4.25% - 14.5%, including inflation and productivity; 4.5% - 14.75%

prior to July 1, 2015

Investment rate of return 7.75%, net of investment expenses, including inflation; rate was

decreased from 8% beginning July 1, 2015

Retirement age In the 2015 valuation, rates of retirement were changed to better reflect

anticipated future experience. In the 2010 valuation, expected retirement ages of plan members were adjusted to more closely reflect actual

experience.

Mortality In the 2015 valuation, assumed life expectancies were adjusted as a result

of adopting the RP-2014 mortality tables with generational improvement. In prior years, those assumptions were based on percentages of GRS post termination non-disabled tables and RP-2000

disabled-life tables.

### Schedule of Investment Returns North Dakota Teachers' Fund for Retirement Last 10 Fiscal Years\*

	2019	2018	2017	2016	2015	2014	2013
Annual money-weighted rate of							
return, net of investment expense	5.46%	9.15%	12.81%	0.39%	3.56%	16.35%	13.60%

\*Note: Annual money-weighted rates of return not available prior to 2013.

# Schedule of Employer's Share of Net Pension and OPEB Liability ND Public Employees Retirement System Last 10 Fiscal Years\* (Dollars in thousands)

	2019	2018	2017	2016	2015
RIO's proportion of NDPERS net pension liability (asset)	0.153507%	0.156317%	0.152969%	0.145546%	0.121849%
RIO's proportion of NDPERS net OPEB liability (asset)	0.144121% 0.147503%				
RIO's proportionate share of NDPERS net pension liability (asset)	\$ 2,591	\$ 2,513	\$ 1,491	\$ 990	\$ 773
RIO's proportionate share of NDPERS net OPEB liability (asset)	114_	117_			
RIO's covered payroll	\$ 1,567	\$ 1,596	\$ 1,507	\$ 1,377	\$ 1,026
RIO's proportionate share of NDPERS net pension liability (asset) as a percentage of its covered payroll	165.35%	157.46%	98.94%	71.90%	75.34%
RIO's proportionate share of NDPERS net OPEB liability (asset) as a percentage of its covered payroll	7.28%	7.31%			
NDPERS Plan fiduciary net position as a percentage of the total pension liability	62.80%	61.98%	70.46%	77.15%	77.70%
NDPERS Plan fiduciary net position as a percentage of the total OPEB liability	61.89%	59.78%			

#### **Notes to schedule:**

Amounts presented for each fiscal year have a measurement date of the previous fiscal year end.

<sup>\*</sup>Complete data for this schedule is not available prior to 2015 for pension liability and prior to 2018 for OBEP liability.

## North Dakota Retirement and Investment Office Required Supplementary Information

## Schedule of Employer Pension and OPEB Contributions ND Public Employees Retirement System Last 10 Fiscal Years\* (Dollars in thousands)

	2019	2018	2017	2016	2015	2014
RIO's Statutorily required pension contributions RIO's Statutorily required OPEB contributions	\$ 113 18	\$ 112 18	\$ 114 18	\$ 107	\$ 98	\$ 73
RIO's pension contributions in relation to the statutory required contribution	113	112	114	107	98	73
RIO's OPEB contributions in relation to the statutory required contribution	18	18	18			
Contribution deficiency (excess)	\$ -	<u>\$ -</u>	\$ -	\$ -	<u>\$ -</u>	<u>\$ -</u>
RIO's Covered payroll	\$1,584	\$1,567	\$1,596	\$1,507	\$1,377	\$1,026
RIO's pension contributions as a percentage of covered payroll	7.12%	7.12%	7.12%	7.12%	7.12%	7.12%
RIO's OPEB contributions as a percentage of covered payroll	1.14%	1.14%	1.14%			

### **Notes to schedule:**

<sup>\*</sup>Complete data for this schedule is not available prior to 2014 for pension contributions and 2017 for OBEP contributions.

	Pension Pool Participants					Insurance Pool Partic	cipants					
	Public Employees Retirement System	Bismarck City Employee Pension Plan	Bismarck City Police Pension Plan	City of Grand Forks Employee Pension Plan	City of Grand Forks Park District	Workforce Safety & Insurance	State Fire & Tornado	State Bonding	Petroleum Tank Release Comp. Fund	Insurance Regulatory Trust Fund	Cultural Endowment Fund	Risk Mgmt
Assets:												
Investments												
Global equities	\$1,833,414,529	\$49,404,652	\$21,887,634	\$41,894,381	\$3,997,403	\$461,780,018	\$7,954,401	\$0	\$0	\$1,885,842	\$261,358	\$1,473,923
Global fixed income	709,190,088	34,333,280	11,722,774	15,888,990	1,764,054	1,236,575,110	12,389,926	1,959,837	2,943,031	2,159,203	175,687	3,141,696
Global real assets	581,869,362	20,136,760	8,047,190	9,823,761	1,376,593	340,272,112	-	-	=	=	23,891	=
Cash equivalents	18,590,413	321,335	78,715	653,416	14,962	16,110,908	2,270,428	1,621,474	2,990,789	2,163,394	14,038	245,073
Total investments	3,143,064,392	104,196,027	41,736,313	68,260,548	7,153,012	2,054,738,148	22,614,755	3,581,311	5,933,820	6,208,439	474,974	4,860,692
Invested sec lending collateral	10,241,786	374,163	139,760	228,950	31,006	6,100,164	70,368	8,340	12,389	13,623	1,436	17,799
Investment income receivable	9,865,697	321,219	126,662	158,753	23,415	10,662,254	146,703	28,111	60,415	10,343	337	48,931
Operating Cash	70,823	-	=	-	-	43,795	1,278	1,563	963	1,261	202	1,168
Miscellaneous receivable	7,037	-	≘	-	-	4,647	52	8	13	5	1	11
Due from other state agencies	-	-	≘	-	-	=	-	=	=	≘	=	-
Total assets	3,163,249,735	104,891,409	42,002,735	68,648,251	7,207,433	2,071,549,008	22,833,156	3,619,333	6,007,600	6,233,671	476,950	4,928,601
Deferred outflows of resources												
Related to pensions	137,835	-	-		_	92,624	1,120	165	326	88	21	279
Liabilities:												
Investment expenses payable	1,036,493	46,885	18,660	15,840	2,368	517,008	4,797	741	1,131	740	28	540
Securities lending collateral	10,241,786	374,163	139,760	228,950	31,006	6,100,164	70,368	8,340	12,389	13,623	1,436	17,799
Accounts payable	68,450	-	=	-	=	44,687	505	79	133	48	10	106
Accrued expenses	361,740	-	=	-	-	248,338	3,366	454	923	228	56	778
Miscellaneous payable	-	5,777	2,328	3,572	389	-	-	-	-	-	-	-
Due to other state funds  Due to other state agencies	392	-	-	-	-	259	3	-	-	-	-	-
Due to other state agencies	392		-		-	259			1		-	
Total liabilities	11,708,861	426,825	160,748	248,362	33,763	6,910,456	79,039	9,614	14,577	14,639	1,530	19,224
Deferred inflows of resources												
Related to pensions	\$19,243	\$0	\$0	\$0	\$0	\$13,592	\$185	\$25	\$50	\$7	\$3	\$46
Fiduciary net position held in trust for external investment pool participants	\$ 3,151,659,466	\$ 104,464,584	\$ 41,841,987	\$ 68,399,889	\$ 7,173,670	\$ 2,064,717,584	\$ 22,755,052	\$ 3,609,859	\$ 5,993,299	\$ 6,219,113	\$ 475,438	\$ 4,909,610
Each participant unit is valued at \$1.00 Participant units outstanding	3,151,659,466	104,464,584	41,841,987	68,399,889	7,173,670	2,064,717,584	22,755,052	3,609,859	5,993,299	6,219,113	475,438	4,909,610

Combining Statement of Net Position – Investment Trust Funds – Fiduciary Funds June 30, 2019

(With Comparative Totals for 2018)

Insurance Pool Pa	rticipants								Individual Investme	nt Accounts				
Risk Mgmt Workers'	ND Ass'n. of Counties	PE Gro		Budget Stabilization	City of Bismarck Deferred	City of Fargo FargoDome	State Board of	Lewis & Clark Interpretive Center	Legacy	Job Service of North	Tobacco Prevention and	PERS Retiree Health	Tot	
Comp	Fund	Insur	ance	Fund	Sick Leave	Fund	Medicine	Endowment	Fund	Dakota	Control Fund	Credit Fund	2019	2018
\$1,919	9,428 \$2,221	,513	\$0	\$0	\$233,945	\$22,440,882	\$498,707	\$263,953	\$3,203,129,265	\$19,094,960	\$0	\$84,480,446	\$ 5,758,237,240	\$ 5,205,817,256
3,10	5,809 3,918	,313 2	28,207,330	115,349,456	505,062	17,458,242	1,809,875	480,083	2,170,475,305	77,780,193	7,972,749	51,472,649	4,510,779,742	4,099,552,552
	-	-	-	-	-	4,420,372	46,881	-	923,488,586	-	-	-	1,889,505,508	1,788,156,119
15:	5,645 189	,199	2,867,344	2,673,336	38,811	447,844	10,907	7,499	255,829,361	409,888	1,324,990	9,404	309,039,173	127,104,537
5,18	1,882 6,329	,025	31,074,674	118,022,792	777,818	44,767,340	2,366,370	751,535	6,552,922,517	97,285,041	9,297,739	135,962,499	12,467,561,663	11,220,630,464
19	9,080 21	,196	183,946	757,197	2,607	139,195	12,084	2,625	19,392,771	-	-	-	37,770,485	40,721,545
:	5,998 4	,028	(7,554)	684,339	1,779	73,292	(3,985)	228	27,837,411	237	2,389	22	50,051,024	38,863,279
	1,147	-	-	21,591	-	-	-	-	113,720	-	-	-	257,511	410,261
	12	-	-	270	-	-	_	-	14,323	_	-	-	26,379	28,001
	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5,20	8,119 6,354	,249	31,251,066	119,486,189	782,204	44,979,827	2,374,469	754,388	6,600,280,742	97,285,278	9,300,128	135,962,521	12,555,667,062	11,300,653,550
		· ·					•			_	-	•		
	275			5,766	-	_			234,169				472,668	544,101
		,417	12,076	49,281	201	9,561	782	216	2,917,084	83,874	6,670	102,829	4,829,521	2,279,952
15	9,080 21	,196	183,946	757,197	2,607	139,195	12,084	2,625	19,392,771	-	-	-	37,770,485	40,721,545
	112	-	-	2,580	-	-	-	-	137,104	-	-	-	253,814	136,431
	739	-	-	31,560	-	-	-	-	545,406	-	-	-	1,193,588	1,111,661
	-	348	1,802	-	250	2,493	250	250		5,728	1,614	7,314	32,115	34,655
	- -	-	-	-	-	-	-	-	455,263,216	-	-	-	455,263,216	-
		<del>-</del>	<del></del>	15	<u>-</u>		<del></del>		798				1,470	2,572
2	0,231 22	,961	197,824	840,633	3,058	151,249	13,116	3,091	478,256,379	89,602	8,284	110,143	499,344,209	44,286,816
	\$43	\$0	\$0	\$3,618	\$0	\$0	\$0	\$0	\$30,661	\$0	\$0	-	67,473	27,917
\$ 5,18	8,120 \$ 6,331	,288 \$ 3	31,053,242	\$ 118,647,704	\$ 779,146	\$ 44,828,578	\$ 2,361,353	\$ 751,297	\$ 6,122,227,871	\$ 97,195,676	\$ 9,291,844	\$ 135,852,378	\$ 12,056,728,048	\$ 11,256,882,918
5,18	8,120 6,331	,288	31,053,242	118,647,704	779,146	44,828,578	2,361,353	751,297	6,122,227,871	97,195,676	9,291,844	135,852,378	12,056,728,048	11,256,882,918

	Pension Pool Particip	ants				Insurance Pool Parti	cipants					
	Public	Bismarck	Bismarck	City of	City of				Petroleum	Insurance		
	Employees	City	City	Grand Forks	Grand Forks	Workforce	State		Tank	Regulatory	Cultural	
	Retirement	Employee	Police	Employee	Park District	Safety &	Fire &	State	Release	Trust	Endowment	Risk
	System	Pension Plan	Pension Plan	Pension Plan	Pension Plan	Insurance	Tornado	Bonding	Comp. Fund	Fund	Fund	Mgmt
Additions:												
Investment income:												
Net change in fair value of investments	\$ 103,282,337	\$ 3,701,861	\$ 1,426,526	\$ 2,413,739	\$ 258,536	\$ 86,250,882	\$ 871,338	\$ 121,242	\$ 191,339	\$ 174,407	\$ 16,907	\$ 253,740
Interest, dividends and other income	68,783,166	2,384,963	929,699	1,463,331	167,316	50,611,227	531,919	80,844	140,430	81,816	10,871	106,435
	172,065,503	6,086,824	2,356,225	3,877,070	425,852	136,862,109	1,403,257	202,086	331,769	256,223	27,778	360,175
Less investment expenses	7,736,583	265,103	106,866	160,844	20,402	3,714,157	34,550	2,556	4,014	3,890	900	6,532
Net investment income	164,328,920	5,821,721	2,249,359	3,716,226	405,450	133,147,952	1,368,707	199,530	327,755	252,333	26,878	353,643
Securities lending activity:												
Securities lending activity.  Securities lending income	271,874	8,461	3,430	6,197	635	144,933	2,144	113	179	280	52	371
Less Securities lending expenses	(54,358)	(1,692)	(686)	(1,239)	(127)	(28,932)	(430)	(24)	(36)	(56)	(12)	(73)
Net securities lending income	217,516	6,769	2,744	4,958	508	116,001	1,714	89	143	224	40	298
Purchase of units (\$1 per unit)	6,000,000	_	_	7,540,108	386,104	53,500,000	1,000,000	_	_	5,079,100	_	
Total Additions	170,546,436	5,828,490	2,252,103	11,261,292	792,062	186,763,953	2,370,421	199,619	327,898	5,331,657	26,918	353,941
Deductions:												
Administrative Expenses	519,043	-	-	-	-	304,691	3,608	1,007	1,187	979	670	1,097
Redemption of units (\$1 per unit)	41,900,000	500,000	500,000	6,485,051	391,641	44,500,000	2,675,000		500,000	4,750,000		400,000
Total Deductions	42,419,043	500,000	500,000	6,485,051	391,641	44,804,691	2,678,608	1,007	501,187	4,750,979	670	401,097
Change in fiduciary net position	128,127,393	5,328,490	1,752,103	4,776,241	400,421	141,959,262	(308,187)	198,612	(173,289)	580,678	26,248	(47,156)
Fiduciary net position:												
Beginning of year	3,023,532,073	99,136,094	40,089,884	63,623,648	6,773,249	1,922,758,322	23,063,239	3,411,247	6,166,588	5,638,435	449,190	4,956,766
End of year	\$ 3,151,659,466	\$ 104,464,584	\$ 41,841,987	\$ 68,399,889	\$ 7,173,670	\$ 2,064,717,584	\$ 22,755,052	\$ 3,609,859	\$ 5,993,299	\$ 6,219,113	\$ 475,438	\$ 4,909,610

Combining Statement of Changes in Net Position – Investment Trust Funds – Fiduciary Funds Year Ended June 30, 2019 (With Comparative Totals for 2018)

Insurance Pool P	articipants							Individual Investmen	t Accounts				
Risk	ND			City of	City of		Lewis & Clark				PERS		
Mgmt	Ass'n of	PERS	Budget	Bismarck	Fargo	State	Interpretive		Job Service	Tobacco	Retiree		
Workers'	Counties	Group	Stabilization	Deferred	FargoDome	Board of	Center	Legacy	of North	Prevention and	Health	Tot	
Comp	Fund	Insurance	Fund	Sick Leave	Fund	Medicine	Endowment	Fund	Dakota	Control Fund	Credit Fund	2019	2018
\$ 285,789 102,266 388,055 6,588 381,467	\$ 286,310 145,905 432,215 10,924 421,291	\$ 603,923 917,321 1,521,244 43,655 1,477,589	\$ 2,511,852 2,762,013 5,273,865 165,988 5,107,877	\$ 33,901 17,687 51,588 2,152 49,436	\$ 1,219,139 1,034,503 2,253,642 88,641 2,165,001	\$ 60,744 54,930 115,674 4,935	\$ 32,619 17,960 50,579 2,240 48,339	\$ 174,927,813 147,634,462 322,562,275 13,412,391 309,149,884	\$ 3,497,989 3,043,292 6,541,281 311,651 6,229,630	\$ 1,117,230 113,765 1,230,995 16,826 1,214,169	\$ 5,197,140 3,371,362 8,568,502 391,416 8,177,086	\$ 388,737,303 284,507,483 673,244,786 26,513,804 646,730,982	\$ 527,542,620 246,166,774 773,709,394 21,653,138 752,056,256
301,407	421,271	1,477,509	3,107,077	+7,+30	2,103,001	110,737	40,557	309,149,004	0,227,030	1,214,107	6,177,000	040,730,762	732,030,230
394 (78)	578 (117)	1,979 (395)	7,918 (1,580)	68 (14)	5,468 (1,089)	205 (40)	75 (14)	770,904 (154,066)	-	-	-	1,226,258 (245,058)	1,334,400 (266,663)
316	461	1,584	6,338	54	4,379	165	61	616,838	-			981,200	1,067,737
1,250,000		219,199,000				<u> </u>		692,568,943	-		1,319,500	987,842,755	871,266,337
1,631,783	421,752	220,678,173	5,114,215	49,490	2,169,380	110,904	48,400	1,002,335,665	6,229,630	1,214,169	9,496,586	1,635,554,937	1,624,390,330
1,119 1,800,000	- 	221,225,000	17,840	<u>-</u>	1,965,000	<u>-</u>	<u>-</u>	928,596 455,263,216	- 4,645,062	46,280,000	150,000	1,779,837 833,929,970	1,669,600 336,169,172
1,801,119		221,225,000	17,840		1,965,000			456,191,812	4,645,062	46,280,000	150,000	835,709,807	337,838,772
(169,336)	421,752	(546,827)	5,096,375	49,490	204,380	110,904	48,400	546,143,853	1,584,568	(45,065,831)	9,346,586	799,845,130	1,286,551,558
5,357,456	5,909,536	31,600,069	113,551,329	729,656	44,624,198	2,250,449	702,897	5,576,084,018	95,611,108	54,357,675	126,505,792	11,256,882,918	9,970,331,360
\$ 5,188,120	\$ 6,331,288	\$ 31,053,242	\$ 118,647,704	\$ 779,146	\$ 44,828,578	\$ 2,361,353	\$ 751,297	\$ 6,122,227,871	\$ 97,195,676	\$ 9,291,844	\$ 135,852,378	\$ 12,056,728,048	\$ 11,256,882,918

Pension and Investment Trust Funds – Schedule of Administrative Expenses Years Ended June 30, 2019 and 2018

	Pensio	n Trust	Investme	ent Trust
	2019	2018	2019	2018
Salaries and wages:				
Salaries and wages	\$ 832,908	\$ 792,299	\$ 836,638	\$ 792,288
Fringe benefits	508,007	568,887	409,387	419,698
Total salaries and wages	1,340,915	1,361,186	1,246,025	1,211,986
Operating expenses:				
Travel	24,162	15,062	30,646	35,114
Supplies	3,167	2,266	1,563	932
Postage and Mailing Services	35,178	36,993	14,833	13,593
Printing	12,426	15,606	3,470	4,500
Small Office Equipment and Furniture	14,910	2,908	11,744	1,339
Insurance	398	387	228	223
Rent/Lease of Building Space	55,396	55,396	32,370	32,370
Repairs	917	155	536	75
Information Technology and Communications	74,217	71,000	17,519	17,863
IT Contractual Services	156,553	109,750	447,097	443,184
Professional Development	20,808	8,184	12,693	2,878
Operating Fees and Services	16,807	15,106	20,655	21,014
Professional Fees and Services	10,763	15,629	6,339	22,771
Consultant Services	263,269	198,099	153,516	81,025
Total operating expenses	688,971	546,541	753,209	676,881
Pension trust portion of investment program expenses	219,397	219,267	(219,397)	(219,267)
Depreciation	1,800	1,800		
Total administrative expenses	2,251,083	2,128,794	1,779,837	1,669,600
Less - nonappropriated items:				
Consultant Services	263,269	198,099	153,516	81,025
Other operating fees paid under continuing appropriation	132,871	125,270	498,969	509,663
Depreciation	1,800	1,800	-	-
Accrual adjustments to employee benefits	196,388	255,922	147,218	168,895
Total nonappropriated items	594,328	581,091	799,703	759,583
Total nonappropriated nems	377,320	301,071	177,103	157,565
Total appropriated expenditures	\$ 1,656,755	\$ 1,547,703	\$ 980,134	\$ 910,017

## North Dakota Retirement and Investment Office Schedule of Appropriations – Budget Basis – Fiduciary Funds July 1, 2017 to June 30, 2019 Biennium

	20	pproved 017-2019 propriation	App	17-2019 ropriation justment	2	Adjusted 017-2019 opropriation	Fiscal 2019 Expenses	Fiscal 2018 Expenses	expended ropriations
All Fund Types:									
Salaries and wages	\$	4,425,570	\$	-	\$	4,425,570	\$ 2,243,334	\$ 2,148,355	\$ 33,881
Operating expenses		862,484		-		862,484	393,555	309,365	159,564
Contingency		52,000		-	,	52,000	-		52,000
Total	\$	5,340,054	\$	-	\$	5,340,054	\$ 2,636,889	\$ 2,457,720	\$ 245,445

NOTE: Only those expenses for which there are appropriations are included in this statement.

## Reconciliation of Administrative Expenses to Appropriated Expenditures

	2019	2018
Administrative expenses as reflected in the financial statements	\$ 4,030,920	\$ 3,798,394
Less:		
Consulting Services*	(416,785)	(279,124)
Other operating fees paid under continuing appropriations*	(631,840)	(634,933)
Depreciation expense	(1,800)	(1,800)
Changes in benefit accrual amounts	(343,606)	(424,817)
Total appropriated expenses	\$ 2,636,889	\$ 2,457,720

<sup>\*</sup> North Dakota Century Code 21-10-06.2 and 15-39.1-05.2 provide authorization for the continuing appropriation.

Pension and Investment Trust Funds – Schedule of Consultant Expenses Years Ended June 30, 2019 and 2018

	Pensio	n Trust	Investme	ent Trust
	2019	2018	2019	2018
Actuary fees: Segal Consulting	\$ 108,000	\$ 71,499	\$ -	\$ -
Auditing/Accounting fees: CliftonLarsonAllen LLP	97,514	82,527	30,587	29,073
Disability consulting fees: Sanford Health	350	425	-	-
Legal fees:				
Office of Administrative Hearings	3,383	-	-	-
K&L Gates LLP	12,880	16,541	17,066	21,646
Kasowitz, Benson, Torres & Friedman	239	197	313	309
Jackson Walker LLP	3,105	3,105	54,804	9,316
ND Attorney General	37,798	23,805	50,746	20,681
Total legal fees:	57,405	43,648	122,929	51,952
Total consultant expenses	\$ 263,269	\$ 198,099	\$ 153,516	\$ 81,025

## North Dakota Retirement and Investment Office Pension and Investment Trust Funds – Schedule of Investment Expenses Years Ended June 30, 2019 and 2018

Part		Dancio	n Truct	Invactm	ent Truct
Newstment managers' fees:   Global equity managers   \$1,367,498   \$1,380,401   \$1,802,596   \$1,794,894   \$1,000   \$1,636,795   \$1,794,894   \$1,000   \$1,544,538   \$1,546,538   \$1,544,538   \$1,546,538   \$1,544,538   \$1,546,538   \$1,544,538   \$1,546,538   \$1,544,538   \$1,546,538   \$1,544,538   \$1,546,538   \$1,546,538   \$1,546,538   \$1,546,538   \$1,546,538   \$1,137,802   \$1,935,500   \$1,833,676   \$1,337,399   \$1,900   \$1,935,500   \$1,833,676   \$1,337,399   \$1,900   \$1,					
Clobal equiry managers	Investment managers' fees	2017	2016	2017	2016
Domestic large cap equity managers         730,141         368,089         4,636,321         557,670           Domestic small cap equity managers         429,127         \$86,340         1,817,606         1,544,538           International equity managers         888,344         954,958         6,526,839         6,229,444           Emerging markets equity managers         1,137,802         1,593,550         10,833,676         1,137,399           Below investment grade fixed income managers         2,446,530         1,953,550         3,346,917         2,675,936           Diversified real assets managers         -         7,704,288         5,770,890         4,036,212           International fixed income managers         2,258,800         2,660,866         5,412,650         3,193,44           Real estate managers         3,258,00         2,660,866         5,412,650         3,193,44           Real estate managers         3,80,628         395,760         462,600         4,80,991           Timber managers         3,80,628         395,760         462,600         4,80,991           Private equity managers         3,011         3,6561         1,753,393         4,80,991           Private equity managers         -         -         9,73,222         4,656,333           Cas		\$ 1367498	\$ 1380401	\$ 1.802.596	\$ 1 <i>7</i> 94 <i>8</i> 94
Domestic small cap equity managers         429,127         586,340         1.817,606         1.544,538           International equity managers         888,364         954,958         6,526,839         6,229,944           Emerging markets equity managers         607,541         697,607         787,011         1,124,677           Domestic fixed income managers         1,137,802         1,593,550         10,833,676         11,337,399           Below investment grade fixed income managers         2,446,530         1,953,550         3,346,917         2,675,936           Diversified real assets managers         2,246,530         2,600,866         5,412,650         5,965,804           Infrastructure managers         1,290,619         1,316,541         2,521,180         5,817,899           Infrastructure managers         380,628         395,760         462,600         480,991           Private equity managers         1,667,745         1,513,944         1,953,394         1,773,739           Shot term fixed income managers         30,19         36,561         175,888         165,053           Balanced account managers         30,19         36,561         175,888         165,053           Balanced account managers fees         \$13,864,914         \$12,992,408         \$47,21,951         \$40,706,80	- · ·				
International equity managers					
Emerging markets equity managers         607,541         697,607         987,011         1,124,677           Domestic fixed income managers         1,137,802         1,593,550         10,833,676         11,337,399           Below investment grade fixed income managers         2,446,530         1,953,550         3,346,917         2,675,936           Diversified real assets managers         2         270,428         -         311,924           Real estate managers         2,258,000         2,660,866         5,412,650         5,965,804           Infrastructure managers         1,920,619         1,316,541         2,521,180         1,681,789           Timber managers         1,667,745         1,513,944         1,953,934         1,773,739           Short term fixed income managers         -         -         9,793,322         466,150           Cash & equivalents managers         -         -         -         979,322         965,154           Total investment managers fees         -         -         979,322         965,154           Total investment expenses         -         -         979,322         965,154           Total investment expenses         -         -         81,366,914         1,362,924         847,21,951         840,686,674					
Domestic fixed income managers         1,137,802         1,593,550         10,833,676         11,337,399           Below investment grade fixed income managers         2,446,530         1,953,550         3,346,917         2,675,936           Diversified real assets managers         2         270,428         -         5,770,890         4,036,212           International fixed income managers         2         270,428         -         311,924           Real estate managers         1,252,800         2,660,866         5,412,650         5,965,804           Infrastructure managers         380,628         395,760         462,600         480,991           Private equity managers         1,667,745         1513,944         1,953,934         1,773,79           Short term fixed income managers         -         -         194,551         122,965           Cash & equivalents managers         30,19         36,561         175,858         165,053           Balanced account managers         -         -         194,551         122,965           Custodian fees         233,778         233,938         1,076,406         927,794           Investment consultant fees         129,878         150,251         482,208         566,574           SIB Service Fees         2<			*		
Below investment grade fixed income managers         2,446,530         1,953,550         3,346,917         2,675,936           Diversified real assets managers         -         -         5,770,890         4,036,212           International fixed income managers         2,258,800         2,660,866         5,412,650         5,965,804           Infrastructure managers         1,920,619         1,316,541         2,521,180         1,681,789           Timber managers         380,628         395,760         462,600         480,991           Private equity managers         1,667,745         1,513,944         1,953,934         1,737,373           Short term fixed income managers         30,119         36,561         175,858         165,053           Balanced account managers         30,119         36,561         175,858         165,053           Balanced account managers fees         31,864,914         \$12,924,08         \$47,421,951         \$40,766,868           Custodian fees         129,878         235,778         233,938         1,076,406         927,794           Investment consultant fees         129,878         150,251         482,208         566,574           SIB Service Fees         2         29         2018         2019         2018 <t< td=""><td></td><td></td><td>· · · · · · · · · · · · · · · · · · ·</td><td>*</td><td></td></t<>			· · · · · · · · · · · · · · · · · · ·	*	
Diversified real assets managers					
International fixed income managers		2,110,550	-		
Real estate managers         2,258,800         2,660,866         5,412,650         5,965,804           Infrastructure managers         1,920,619         1,316,541         2,521,180         1,681,789           Timber managers         380,628         395,760         462,600         480,991           Private equity managers         1,667,745         1,513,944         1,953,934         1,773,739           Short term fixed income managers         -         -         194,551         122,965           Cash & equivalents managers         30,119         36,561         175,858         165,053           Balanced account managers         -         -         979,322         965,154           Total investment managers' fees         \$13,864,914         \$12,992,408         \$47,421,951         \$40,766,689           Custodian fees         235,778         233,938         1,076,406         927,794           Investment consultant fees         129,878         150,251         482,208         566,574           SIB Service Fees         -         -         81,815         82,764           Total investment expenses to financial state with fi		_	270.428	5,770,020	
Infrastructure managers         1,920,619         1,316,541         2,521,180         1,681,789           Timber managers         380,628         395,760         462,600         480,991           Private equity managers         1,667,745         1,513,944         1,953,934         1,773,739           Short term fixed income managers         -         -         194,551         122,965           Cash & equivalents managers         30,119         36,561         175,858         165,053           Balanced account managers         -         -         979,322         965,154           Total investment managers' fees         \$13,864,914         \$12,992,408         \$47,421,951         \$40,768,689           Custodian fees         235,778         233,938         1,076,406         927,794           Investment consultant fees         129,878         150,251         482,208         566,574           SIB Service Fees         -         -         81,815         82,764           Total investment expenses to financial statements         \$142,20,570         \$13,376,597         \$49,062,380         \$42,345,821           Reconciliation of investment expenses to financial statements         \$2019         2018         2019         2018           Investment expenses as ref		2 258 800		5 412 650	
Timber managers         380,628         395,760         462,600         480,91           Private equity managers         1,667,745         1,513,944         1,953,934         1,773,739           Short term fixed income managers         -         -         1,945,51         122,965           Cash & equivalents managers         30,119         36,561         175,858         165,053           Balanced account managers         -         -         979,322         965,154           Total investment managers' fees         \$13,864,914         \$12,992,408         \$47,421,951         \$40,768,689           Custodian fees         235,778         233,938         1,076,406         927,794           Investment consultant fees         129,878         150,251         482,208         566,574           SIB Service Fees         -         -         81,815         82,764           Total investment expenses         \$129,878         150,251         482,208         566,574           SIB Service Fees         -         -         -         81,815         82,765           Total investment expenses as reflected in the financial statements         \$2019         2018         2019         \$2018           Investment expenses as reflected in the financial statements         \$20					
Private equity managers         1,667,745         1,513,944         1,953,934         1,773,739           Short term fixed income managers         -         -         194,551         122,965           Cash & equivalents managers         30,119         36,561         175,858         165,053           Balanced account managers         -         -         979,322         965,154           Total investment managers' fees         \$13,864,914         \$12,992,408         \$47,421,951         \$40,768,688           Custodian fees         235,778         233,938         1,076,406         927,794           Investment consultant fees         129,878         150,251         482,208         566,574           SIB Service Fees         -         -         81,815         82,764           Total investment expenses         \$142,30,570         \$13,376,597         \$49,062,380         \$42,345,821           Reconciliation of investment expenses to financial statements         \$6,272,801         \$5,352,945         \$26,513,804         \$21,653,138           Investment expenses as reflected in the financial statements         \$6,272,801         \$5,352,945         \$26,513,804         \$21,653,138           Plus investment management fees included in investment         \$6,272,801         \$94,592 <td></td> <td></td> <td></td> <td></td> <td></td>					
Short term fixed income managers         -         194,551         122,965           Cash & equivalents managers         30,119         36,561         175,888         165,053           Balanced account managers         -         -         979,322         965,154           Total investment managers' fees         \$13,864,914         \$12,992,408         \$47,421,951         \$40,768,689           Custodian fees         235,778         233,938         1,076,406         927,794           Investment consultant fees         129,878         150,251         482,208         566,744           SIB Service Fees         -         -         81,815         82,764           Total investment expenses         514,230,570         \$13,376,597         \$49,062,380         \$42,345,821           Total investment expenses to financial state terms         2019         2018         2019         2018           Total investment expenses as reflected in the financial state terms         \$6,272,801         \$5,352,945         \$26,513,804         \$21,653,138           Plus investment management fees included in investment income         \$6,272,801         \$5,352,945         \$26,513,804         \$21,653,138           Plus investment management fees included in investment income         \$6,722,801					
Cash & equivalents managers         30,119         36,561         175,858         165,053           Balanced account managers         -         -         -         979,322         965,154           Total investment managers' fees         \$13,864,914         \$12,992,408         \$47,421,951         \$40,768,689           Custodian fees         235,778         233,938         1,076,406         927,794           Investment consultant fees         129,878         150,251         482,208         566,574           SIB Service Fees         -         -         -         81,815         82,764           Total investment expenses         16,20,500         \$13,376,597         \$49,062,380         \$42,345,821           Total investment expenses as reflected in the financial statements         \$2019         2018         2019         2018           Total investment management fees included in investment increments         \$6,272,801         \$5,352,945         \$26,513,804         \$21,653,138           Plus investment management fees included in investment increment         \$6,272,801         \$94,592         686,854         364,567           Domestic large cap equity managers         117,130         94,592         686,854         364,567           International equity managers		1,007,743	1,515,544		
Balanced account managers         -         -         979,322         965,154           Total investment managers' fees         \$13,864,914         \$12,992,408         \$47,421,951         \$40,768,689           Custodian fees         235,778         233,938         1,076,406         927,794           Investment consultant fees         129,878         150,251         482,208         566,574           SIB Service Fees         -         -         81,815         82,764           Total investment expenses         \$14,230,570         \$13,376,597         \$49,062,380         \$42,345,821           Reconciliation of investment expenses to financial statements         \$2019         2018         2019         2018           Investment expenses as reflected in the financial statements         \$6,272,801         \$5,352,945         \$26,513,804         \$21,653,138           Plus investment management fees included in investment incomental statements         \$6,272,801         \$94,592         \$686,854         \$364,567           Domestic large cap equity managers         117,130         \$94,592         \$686,854         \$364,567           Domestic small cap equity managers         240,154         273,564         1,664,052         1,603,699           Emerging markets equity managers         49,012         1,236		30 119	36 561		
Total investment managers' fees         \$13,864,914         \$12,992,408         \$47,421,951         \$40,768,689           Custodian fees         235,778         233,938         1,076,406         927,794           Investment consultant fees         129,878         150,251         482,208         566,574           SIB Service Fees         -         -         81,815         82,764           Total investment expenses         \$14,230,570         \$13,376,597         \$49,062,380         \$42,345,821           Reconciliation of investment expenses to financial statements         2019         2018         2019         2018           Investment expenses as reflected in the financial statements         6,272,801         \$5,352,945         \$26,513,804         \$21,653,138           Plus investment management fees included in investment income           Domestic large cap equity managers         117,130         94,592         686,854         364,567           Domestic small cap equity managers         240,154         273,564         1,664,052         1,603,690           Emerging markets equity managers         607,541         697,608         987,011         1,124,677           Domestic fixed income managers         749,012         1,236,026         6,550,173         7,619,590 </td <td></td> <td>50,117</td> <td>50,501</td> <td></td> <td></td>		50,117	50,501		
Custodian fees         235,778         233,938         1,076,406         927,794           Investment consultant fees         129,878         150,251         482,208         566,574           SIB Service Fees         -         -         81,815         82,764           Total investment expenses         \$14,230,570         \$13,376,597         \$49,062,380         \$42,345,821           Reconciliation of investment expenses to financial statements         \$2019         2018         2019         2018           Investment management fees included in investment income         \$2019         \$2018         \$26,513,804         \$21,653,138           Plus investment management fees included in investment income         \$2019         \$2018         \$26,513,804         \$21,653,138           Plus investment management fees included in investment income         \$2019         \$2018         \$26,513,804         \$21,653,138           Plus investment management fees included in investment income         \$2019         \$2018         \$26,513,804         \$21,653,138           Domestic large cap equity managers         \$117,130         \$94,592         \$68,854         364,567           Domestic large cap equity managers         \$240,154         \$273,564         \$1,664,052         \$1,603,690 </td <td></td> <td>\$13.864.914</td> <td>\$ 12 992 408</td> <td></td> <td></td>		\$13.864.914	\$ 12 992 408		
Transment consultant fees   129,878   150,251   482,208   566,574   SIB Service Fees   2 - 3   81,815   82,764   1041 investment expenses   14,230,570   13,376,597   149,062,380   142,345,821   142,30,570   13,376,597   149,062,380   142,345,821   142,30,570   13,376,597   149,062,380   142,345,821   142,30,570	Total investment managers rees	\$13,004,714	φ 12,772,400	φ+7,+21,231	ψ 40,700,002
SIB Service Fees         -         -         81,815         82,764           Total investment expenses         \$14,230,570         \$13,376,597         \$49,062,380         \$42,345,821           Reconciliation of investment expenses to financial statements         2019         2018         2019         2018           Investment expenses as reflected in the financial statements         \$6,272,801         \$5,352,945         \$26,513,804         \$21,653,138           Plus investment management fees included in investment investment         \$6,272,801         \$94,592         \$686,854         \$364,567           Domestic large cap equity managers         117,130         94,592         686,854         364,567           Domestic small cap equity managers         240,154         273,564         1,664,052         1,603,090           Emerging markets equity managers         607,541         697,608         987,011         1,124,677           Domestic fixed income managers         749,012         1,236,026         6550,173         7,619,590           Below investment grade fixed income managers         1,986,029         1,541,521         2,782,655         2,133,969           Diversified real assets managers         829,250         1,514,375         1,174,455         2,110,333           In	Custodian fees	235,778	233,938	1,076,406	927,794
Reconciliation of investment expenses to financial statements         2019         2018         2019         2018           Investment expenses as reflected in the financial statements         \$ 6,272,801         \$ 5,352,945         \$ 26,513,804         \$ 21,653,138           Plus investment management fees included in investment income           Domestic large cap equity managers         117,130         94,592         686,854         364,567           Domestic small cap equity managers         -         -         -         -         -           International equity managers         240,154         273,564         1,664,052         1,603,690           Emerging markets equity managers         607,541         697,608         987,011         1,124,677           Domestic fixed income managers         749,012         1,236,026         6,550,173         7,619,590           Below investment grade fixed income managers         1,986,029         1,541,521         2,782,655         2,133,969           Diversified real assets managers         829,250         1,514,375         1,174,455         2,110,333           Infrastructure managers         1,380,280         758,699         1,811,371         974,220           Timber managers         380,628         395,760         462,600         480,991	Investment consultant fees	129,878	150,251	482,208	566,574
Reconciliation of investment expenses to financial statements   2019   2018   2019   2018	SIB Service Fees			81,815	82,764
New Investment expenses as reflected in the financial statements   \$6,272,801   \$5,352,945   \$26,513,804   \$21,653,138	Total investment expenses	\$14,230,570	\$ 13,376,597	\$49,062,380	\$ 42,345,821
New Investment expenses as reflected in the financial statements   \$6,272,801   \$5,352,945   \$26,513,804   \$21,653,138					
Plus investment management fees included in investment income   Domestic large cap equity managers   117,130   94,592   686,854   364,567   Domestic small cap equity managers   240,154   273,564   1,664,052   1,603,690   Emerging markets equity managers   607,541   697,608   987,011   1,124,677   Domestic fixed income managers   749,012   1,236,026   6,550,173   7,619,590   Eleow investment grade fixed income managers   1,986,029   1,541,521   2,782,655   2,133,969   Diversified real assets managers   829,250   1,514,375   1,174,455   2,110,333   Infrastructure managers   1,380,280   758,699   1,811,371   974,220   Timber managers   380,628   395,760   462,600   480,991   Private equity managers   1,667,745   1,511,507   1,953,932   1,770,886   Cash equivalents managers     160,065   140,122   Balanced account managers     326,115   331,888	Reconciliation of investment expenses to financial state	ements			
Plus investment management fees included in investment income  Domestic large cap equity managers  117,130  94,592  686,854  364,567  Domestic small cap equity managers  - International equity managers  240,154  273,564  1,664,052  1,603,690  Emerging markets equity managers  607,541  697,608  987,011  1,124,677  Domestic fixed income managers  749,012  1,236,026  6,550,173  7,619,590  Below investment grade fixed income managers  1,986,029  Diversified real assets managers  - 3,989,293  2,037,750  Real estate managers  829,250  1,514,375  1,174,455  2,110,333  Infrastructure managers  1,380,280  758,699  1,811,371  974,220  Timber managers  380,628  395,760  462,600  480,991  Private equity managers  1,667,745  1,511,507  1,953,932  1,770,886  Cash equivalents managers  - 160,065  140,122  Balanced account managers  - 326,115  331,888		2019	2018	2019	2018
Domestic large cap equity managers         117,130         94,592         686,854         364,567           Domestic small cap equity managers         -         -         -         -         -           International equity managers         240,154         273,564         1,664,052         1,603,690           Emerging markets equity managers         607,541         697,608         987,011         1,124,677           Domestic fixed income managers         749,012         1,236,026         6,550,173         7,619,590           Below investment grade fixed income managers         1,986,029         1,541,521         2,782,655         2,133,969           Diversified real assets managers         -         -         3,989,293         2,037,750           Real estate managers         829,250         1,514,375         1,174,455         2,110,333           Infrastructure managers         1,380,280         758,699         1,811,371         974,220           Timber managers         380,628         395,760         462,600         480,991           Private equity managers         1,667,745         1,511,507         1,953,932         1,770,886           Cash equivalents managers         -         -         -         160,065         140,122           Balance	Investment expenses as reflected in the financial statements	\$ 6,272,801	\$ 5,352,945	\$26,513,804	\$ 21,653,138
Domestic large cap equity managers         117,130         94,592         686,854         364,567           Domestic small cap equity managers         -         -         -         -         -           International equity managers         240,154         273,564         1,664,052         1,603,690           Emerging markets equity managers         607,541         697,608         987,011         1,124,677           Domestic fixed income managers         749,012         1,236,026         6,550,173         7,619,590           Below investment grade fixed income managers         1,986,029         1,541,521         2,782,655         2,133,969           Diversified real assets managers         -         -         3,989,293         2,037,750           Real estate managers         829,250         1,514,375         1,174,455         2,110,333           Infrastructure managers         1,380,280         758,699         1,811,371         974,220           Timber managers         380,628         395,760         462,600         480,991           Private equity managers         1,667,745         1,511,507         1,953,932         1,770,886           Cash equivalents managers         -         -         -         160,065         140,122           Balance					
Domestic small cap equity managers         -	•				
International equity managers       240,154       273,564       1,664,052       1,603,690         Emerging markets equity managers       607,541       697,608       987,011       1,124,677         Domestic fixed income managers       749,012       1,236,026       6,550,173       7,619,590         Below investment grade fixed income managers       1,986,029       1,541,521       2,782,655       2,133,969         Diversified real assets managers       -       -       3,989,293       2,037,750         Real estate managers       829,250       1,514,375       1,174,455       2,110,333         Infrastructure managers       1,380,280       758,699       1,811,371       974,220         Timber managers       380,628       395,760       462,600       480,991         Private equity managers       1,667,745       1,511,507       1,953,932       1,770,886         Cash equivalents managers       -       -       -       160,065       140,122         Balanced account managers       -       -       326,115       331,888	Domestic large cap equity managers	117,130	94,592	686,854	364,567
Emerging markets equity managers       607,541       697,608       987,011       1,124,677         Domestic fixed income managers       749,012       1,236,026       6,550,173       7,619,590         Below investment grade fixed income managers       1,986,029       1,541,521       2,782,655       2,133,969         Diversified real assets managers       -       -       3,989,293       2,037,750         Real estate managers       829,250       1,514,375       1,174,455       2,110,333         Infrastructure managers       1,380,280       758,699       1,811,371       974,220         Timber managers       380,628       395,760       462,600       480,991         Private equity managers       1,667,745       1,511,507       1,953,932       1,770,886         Cash equivalents managers       -       -       160,065       140,122         Balanced account managers       -       -       326,115       331,888	Domestic small cap equity managers	-	-	-	-
Domestic fixed income managers       749,012       1,236,026       6,550,173       7,619,590         Below investment grade fixed income managers       1,986,029       1,541,521       2,782,655       2,133,969         Diversified real assets managers       -       -       3,989,293       2,037,750         Real estate managers       829,250       1,514,375       1,174,455       2,110,333         Infrastructure managers       1,380,280       758,699       1,811,371       974,220         Timber managers       380,628       395,760       462,600       480,991         Private equity managers       1,667,745       1,511,507       1,953,932       1,770,886         Cash equivalents managers       -       -       160,065       140,122         Balanced account managers       -       -       326,115       331,888		240,154	273,564	1,664,052	1,603,690
Below investment grade fixed income managers       1,986,029       1,541,521       2,782,655       2,133,969         Diversified real assets managers       -       -       3,989,293       2,037,750         Real estate managers       829,250       1,514,375       1,174,455       2,110,333         Infrastructure managers       1,380,280       758,699       1,811,371       974,220         Timber managers       380,628       395,760       462,600       480,991         Private equity managers       1,667,745       1,511,507       1,953,932       1,770,886         Cash equivalents managers       -       -       160,065       140,122         Balanced account managers       -       -       326,115       331,888	Emerging markets equity managers	607,541	697,608	987,011	1,124,677
Diversified real assets managers       -       -       3,989,293       2,037,750         Real estate managers       829,250       1,514,375       1,174,455       2,110,333         Infrastructure managers       1,380,280       758,699       1,811,371       974,220         Timber managers       380,628       395,760       462,600       480,991         Private equity managers       1,667,745       1,511,507       1,953,932       1,770,886         Cash equivalents managers       -       -       160,065       140,122         Balanced account managers       -       -       326,115       331,888	Domestic fixed income managers	749,012	1,236,026	6,550,173	7,619,590
Real estate managers       829,250       1,514,375       1,174,455       2,110,333         Infrastructure managers       1,380,280       758,699       1,811,371       974,220         Timber managers       380,628       395,760       462,600       480,991         Private equity managers       1,667,745       1,511,507       1,953,932       1,770,886         Cash equivalents managers       -       -       160,065       140,122         Balanced account managers       -       -       326,115       331,888	Below investment grade fixed income managers	1,986,029	1,541,521	2,782,655	2,133,969
Infrastructure managers       1,380,280       758,699       1,811,371       974,220         Timber managers       380,628       395,760       462,600       480,991         Private equity managers       1,667,745       1,511,507       1,953,932       1,770,886         Cash equivalents managers       -       -       160,065       140,122         Balanced account managers       -       -       326,115       331,888	Diversified real assets managers	-	-	3,989,293	2,037,750
Timber managers       380,628       395,760       462,600       480,991         Private equity managers       1,667,745       1,511,507       1,953,932       1,770,886         Cash equivalents managers       -       -       160,065       140,122         Balanced account managers       -       -       326,115       331,888	Real estate managers	829,250	1,514,375	1,174,455	2,110,333
Private equity managers       1,667,745       1,511,507       1,953,932       1,770,886         Cash equivalents managers       -       -       160,065       140,122         Balanced account managers       -       -       326,115       331,888	Infrastructure managers	1,380,280	758,699	1,811,371	974,220
Cash equivalents managers       -       -       160,065       140,122         Balanced account managers       -       -       326,115       331,888	Timber managers	380,628	395,760	462,600	480,991
Balanced account managers         -         -         326,115         331,888	Private equity managers	1,667,745	1,511,507	1,953,932	1,770,886
	Cash equivalents managers	-	-	160,065	140,122
Investment expenses per schedule \$14,230,570 \$13,376,597 \$49,062,380 \$42,345,821	Balanced account managers			326,115	331,888
	Investment expenses per schedule	\$14,230,570	\$ 13,376,597	\$49,062,380	\$ 42,345,821

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# INVESTMENT SECTION



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December 1, 2019

Members of the North Dakota State Investment Board North Dakota Teachers' Fund for Retirement Board

Dear Board Members:

This report is a summary of the investment portfolios managed by the State Investment Board (SIB) and market environment for the fiscal year ended June 30, 2019.

#### Introduction

For the fiscal year ended June 30, 2019, the \$5.9 billion North Dakota pension investment pool portfolio experienced a net total return of 5.54%. The insurance investment pool, valued at \$2.3 billion on June 30, 2019, returned 6.41% (net), during the same time frame. The Legacy Fund, valued at \$6.6 billion the last day of the fiscal year returned 4.98% (net) over the same 12 months. The investment return calculations were prepared using a monthly time-weighted rate of return methodology based upon fair values and are subject to independent verification.

The pension and insurance investment pools are pooled investment funds. The pension pool was created in 1989 in an effort to realize cost savings through pooling of pension assets. The insurance pool was created in 1993 for similar reasons. A list of the participants and their ownership in each pool is provided in this section of the report. The pooled funds' strategies are a proportional reflection of the investment objectives of each of the participating funds. The returns experienced by the individual funds were consistent with their respective investment policies and related asset allocations.

The Legacy Fund was created by a constitutional amendment in 2010. The amendment provides that 30% of oil and gas gross production and oil extraction taxes on oil produced after June 30, 2011, be transferred to the Legacy Fund. The first transfer was received in September 2011. Transfers into the Legacy Fund totaled \$692.6 million during the fiscal year ended June 30, 2019. The ND Constitution also requires that all earnings accrued after June 30, 2017, must be transferred to the state's general fund at the end of each biennium. The first biennial earnings transfer was made at the end of FY2019 and totaled just over \$455 million.

Investment program details for the participating plans, including investment objectives and a listing of their external investment managers are presented in the Investment Section. The investment program's cost as measured by expense ratio is 59 basis points for the pension pool, 30 basis points for the insurance pool, and 39 basis points for the Legacy Fund and includes investment office administrative expenses, consultant fees, money manager fees and master custodian fees. Allocation of monthly income and expenses to the participants in the pools is based on a time-weighted beginning balance. A "time factor" and "time-weighted amount" are calculated for each plan based on individual plan-related activities. The time-weighted amounts are added up for all plan-related activities to compose the time-weighted beginning balance used to allocate the activity of the pool. Five-year annualized risk for the period ended June 30, 2019, as measured by standard deviation has been 6.5% for the pension pool, 3.6% for the insurance pool and 6.5% for the Legacy Fund. Risk exposure for each participating fund is also limited in accordance with the guidelines presented in the Investment Section.

#### Economic Overview as of June 30, 2019

Fiscal Year (FY) 2019 was dominated by persistent political themes and concerns over the future of global GDP growth. The specter of escalating trade tensions between the U.S. and China, which emerged in the first half of calendar year (CY) 2018, continued to haunt markets throughout fiscal year 2019. Similarly, the U.K. remained mired

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in indecision while negotiating with the European Union over the nation's looming succession. Despite the contentious geopolitical landscape, developed global equities began the 2019 fiscal year in positive territory. In the U.S., the economy continued to grow at an impressive pace in the third quarter of CY2018, demonstrating its resiliency to trade barriers. Corporate earnings were also strong, supported by consumer confidence which, in September, recorded the highest levels since 2000. Given the healthy economic environment, the Federal Reserve continued to execute its contractionary policy with two additional 25 basis point rate hikes in the second half of the 2018 calendar year. However, risk appetite quickly evaporated in the fourth quarter of the CY2018 as equity prices plummeted and investors flocked to safe haven assets such as U.S. Treasuries. Concerns over tighter monetary policy and the global withdrawal of stimulus measures, unresolved trade disputes, falling oil prices, and slower global growth overshadowed other robust aspects of the U.S. economy.

Following a turbulent fourth quarter in the CY2018, the U.S. entered 2019 in the midst of a partial government shutdown and wavering investor sentiment. Fortunately, markets rebounded as corporate earnings remained strong during the first quarter and both the Federal Reserve and the European Central Bank took more accommodative approaches to monetary policy. China, facing slowing GDP growth, announced a fiscal stimulus policy of tax cuts and infrastructure growth. In the U.S., economic data generally proved favorable throughout the first half of the 2019 calendar year. U.S. GDP continued to grow at a healthy rate, unemployment remained low, and consumer confidence remained high. Despite these positive signals, concerns over the sustainability of growth drove the Federal Reserve to take a more dovish tone, the combination of which was a boon to both fixed income and equity markets. Stocks approached record highs and the 10-year U.S. Treasury yield hit a multi-year low of 1.99% on June 25, 2019. In Europe, the picture was less rosy as a protectionist global trade environment took a heavier toll on the export-based economy. Manufacturing PMI data in the region measured below the neutral level of 50, indicating contraction and year-over-year GDP growth slowed to 1.2% for the 2019 fiscal year.

U.S. GDP growth slowed from the prior fiscal year, but remained strong in 2019. The third estimate of second quarter GDP growth in the U.S. reported an annualized rate of 2.0%. In contrast, European Union GDP grew at an annualized 0.80% in the second quarter of the 2019 calendar year.

#### Domestic Equity

U.S. equities produced strong results in the fiscal year ended June 30, 2019. This fiscal year was the third consecutive in which the S&P 500 generated double-digit returns. The S&P 1500 Index, a broad market indicator for the U.S. stock market, fell just shy of the double-digit threshold, gaining 9.32% over the same period. In a reversal of previous trends, large capitalization equities notably outpaced their small capitalization peers. The S&P 600, a gauge of small cap stock performance, fell 4.88% while the S&P 500 appreciated 10.42%. In FY2019, growth equities continued to outpace value stocks with the Russell 3000 Growth Index climbing 10.60% versus a gain of 7.34% for the Russell 3000 Value Index.

#### International Equity

Developed international equities, as represented by the MSCI EAFE Index, produced muted returns during FY2019. The index grew a meager 1.08%, falling dramatically short of U.S. equity returns. However, similar to U.S. equities, international growth stocks outpaced their value counterparts. During the fiscal year, the MSCI EAFE Growth Index appreciated by 4.24% while the MSCI EAFE Value index declined by 2.10%. The MSCI Emerging Markets Index produced similar results to those of developed market equities, climbing only 1.22% during the 12-month period ended June 30, 2019.

#### Private Equity

Private equity remained an attractive asset class in the 2019 fiscal year with institutional investors placing significant capital into new programs. According to the Pitchbook service, 831 new partnerships were formed raising \$582 billion in commitments during the 12-month period. Compared to FY2018, this is an increase in the total number of new partnerships created (824 in the prior period) and an increase in dollars invested (\$476 billion in FY2018). Due to the nature of private equity performance measurement, relative comparisons of fund performance with benchmarks are inherently ambiguous.

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#### Domestic Fixed Income

The U.S. bond market had an impressive fiscal year during which the Bloomberg Aggregate Bond Index appreciated 7.87%. The Federal Reserve (Fed) increased the federal funds target rate by 25 basis points in both September and December of 2018 before changing course to a more accommodative approach in the second half of the fiscal year. The combination of generally positive economic data and a more expansionary Fed drove Treasury yields lower in the second half of the fiscal year. The Bloomberg Government Long Index produced significantly positive returns, growing 12.28%. Investment grade credit outpaced riskier corporate bonds, with the Bloomberg Credit Index and the Bloomberg Corporate High Yield Indexes producing 10.34% and 7.48% returns, respectively.

#### International Fixed Income

Fixed income assets in foreign developed markets notably outpaced the returns of non-U.S. equity indices during the fiscal year. The FTSE Non-U.S. World Government Hedged Bond Index grew 8.18% during the 12-month period. However, unhedged returns were significantly lower given the U.S. dollar's strength during the 2019 fiscal year. The FTSE Non-U.S. World Government Unhedged Bond Index appreciated only 4.54%. After a challenging first half to the fiscal year, European sovereign debt rebounded following announcements of a more dovish ECB in the second half. The FTSE Euro Government Bond Index climbed over 5% in the second half of the fiscal year for an overall return of 3.69% during the 12-month period ended June 30, 2019. Emerging market debt performed exceptionally well in the 2019 fiscal year, with the JP Morgan Emerging Markets Bond Index Plus gaining 11.68% during the period.

#### Real Estate

The NCREIF Property Index, a measure of the domestic direct private real estate market, appreciated 6.51% during the 2019 fiscal year. The index was positive in each of the four quarters, extending its winning streak to 38 straight quarters. The FTSE NAREIT Equity Index, a measure of the public real estate securities market, climbed 11.21% in FY2019. The outperformance of the FTSE NAREIT over the NCREIF Property Index marks a reversal from the prior year's underperformance.

#### Timber

The timber sector declined in both market value and by total acreage over the 2019 fiscal year. As of June 30, 2019, the total market value of the NCREIF Timberland Property Index was \$23.9 billion, representing 12.9 million acres of timberland. The South maintained its position as the largest region by both market value and total acreage, boasting 8.3 million acres valued at \$15.1 billion. For the fiscal year ending June 30, 2019, the NCREIF Timberland Property Index rose moderately, returning 2.95% and was driven entirely by income return. The Northwest continued to be the best performing region, climbing 6.35% during the fiscal year.

#### Infrastructure

By definition, infrastructure assets are essential to the economic health and productivity of civilized society. They include the basic facilities, services, and installations needed for the functioning of a community, such as transit and communications systems; both potable and sewage water lines; and electricity access. They also include such public entities as schools, post offices, and airports. Most of these facilities have traditionally been owned and regulated by municipalities and states. The private sector's participation has been limited, to varying degrees, to the areas of design, construction, and operation. Budget and fiscal pressures can limit the ability of public authorities to maintain existing infrastructure, much less to build new facilities required by a growing population. In response to these problems, many municipalities and states have sold or are contemplating the sale of their infrastructure assets to private investors.

Private infrastructure is challenging to appropriately benchmark given the concentrated nature of the assets and its only recent emergence as an institutional asset class. NDSIB uses a custom benchmark to measure performance. However, the FTSE Global Core 50/50 Infrastructure Index is a market capitalization weighted index that represents publicly traded companies that operate and own infrastructure assets on a global basis. The FTSE Global Core 50/50 Infrastructure Index returned 15.47% over the 12-month period ended June 30, 2019.

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#### Summary

Investment results were mixed in fiscal 2019 with strong returns in U.S. large cap equities (up 8% to 10%) and fixed income (up 8% to 9%), muted results within private real assets (up 4% to 5%) and disappointing returns for U.S. small cap and international equities (ranging from up 3% to down 5%). With respect to relative performance, all three investment pools underperformed their respective policy benchmarks for the year. Performance was negatively impacted by a value tilt within public equities, whereas our U.S. fixed income exposure generally enhanced total fund performance.

Although this past year's investment performance did not meet our expectations, the North Dakota State Investment Board and staff take a long-term perspective in its asset allocation, investment decisions, and performance evaluation. Over the past five years ending June 30, 2019, the pension and insurance pools and Legacy Fund generated net investment returns of 6.52%, 5.50%, and 6.32%, respectively; over the past ten years, the pension and insurance pools earned net investment returns of 8.23% and 6.03%, respectively. The pension and insurance pools outperformed their respective policy benchmarks over the last 5 and 10 year periods largely due to relatively strong returns in U.S. equities (up 10% to 15%) and U.S. fixed income (up 5% to 6%). The Legacy Fund also outperformed its approved policy benchmarks over the last 5 years due to strong returns in U.S. equities (up 9%) and U.S. fixed income (up 4%) while noting this fund was originally invested in short-term fixed income prior to 2015 (when the current asset allocation of 50% equities, 35% fixed income and 15% real assets was approved by its governing boards).

Going forward, the State Investment Board and staff will continue to focus on monitoring and managing strategic asset allocations that prudently balance the menu of risks deemed acceptable, particularly given elevated valuations of some asset classes as we enter the eleventh year of continued economic expansion in the U.S. This includes carefully selecting and sizing a range of strategies and managers that we believe can achieve our clients' investment objectives in a sound fiduciary manner.

Sincerely,

DARREN SCHULZ, CFA

Deputy Chief Investment Officer

DAVID HUNTER

Executive Director/Chief Investment Officer

## INVESTMENT PERFORMANCE SUMMARY JUNE 30, 2019

		Rates of Return (net of fees)									
	Fair Value	For Fiscal Year Ended 6/30					Annualized				
		2019	2018	2017	2016	2015	3 Years	5 Years	10 Years 2	20 Years	30 Years
TO A 1 A A II 1 NA	¢15.001.225.254										
Total Assets Under Management	\$15,091,235,254										
<u>BENCHMARKS</u>											
S&P 500		10.42%	14.37%	17.90%	3.99%	7.42%	14.19%	10.71%	13.24%	6.33%	9.72%
Bloomberg Aggregate		7.87%	-0.40%	-0.31%	6.00%	1.86%	2.31%	2.95%	3.75%	5.01%	6.03%
90 Day T-Bills		2.31%	1.36%	0.49%	0.19%	0.02%	1.38%	0.87%	0.54%	1.82%	2.93%
Callan Public Plan Sponsors Database (Media	an-Net of Fees)	5.75%	7.66%	11.33%	0.34%	2.46%	8.22%	5.44%	8.44%	5.58%	6.72%

		0/ -£	Rates of Return (net of fees)										
	Fair Value	% of Pool -		For Fisca	al Year E	nded 6/30			A	nnualize	d		
PENSION POOL PARTICIPANTS		1 001	2019	2018	2017	2016	2015	3 Years	5 Years	10 Years	20 Years	30 Years	
Teachers' Fund for Retirement	\$2,573,622,567	43.3%	5.54%	9.11%	12.92%	0.28%	3.52%	9.15%	6.18%	9.57%	5.68%	7.68%	
Policy Benchmark			6.35%	7.90%	11.63%	0.61%	2.15%	8.61%	5.66%	8.89%	5.74%	7.87%	
Public Employees Retirement System	3,152,930,089	53.0%	5.52%	9.19%	13.05%	0.28%	3.53%	9.21%	6.22%	9.41%	6.00%	7.90%	
Policy Benchmark			6.40%	7.82%	11.88%	0.56%	2.15%	8.68%	5.69%	8.96%	6.05%	8.09%	
Bismarck City Employee Pension Fund	\$104,517,246	1.8%	5.94%	7.86%	11.56%	0.82%	3.69%	8.43%	5.91%	8.99%	5.93%	*	
Policy Benchmark			6.33%	6.64%	9.97%	1.37%	2.31%	7.64%	5.28%	8.25%	5.75%		
Bismarck City Police Pension Fund	\$41,862,975	0.7%	5.76%	8.36%	12.24%	0.32%	3.56%	8.76%	5.97%	9.24%	5.86%	*	
Policy Benchmark			6.14%	7.20%	10.98%	0.76%	2.23%	8.09%	5.40%	8.59%	5.80%		
City of Grand Forks Pension Fund	\$68,419,301	1.2%	6.17%	9.46%	12.84%	0.11%	3.53%	9.46%	6.33%	9.71%	*	*	
Policy Benchmark			6.51%	8.38%	12.07%	0.55%	2.23%	8.96%	5.86%	9.22%			
Grand Forks Park District Pension Fund	\$7,176,427	0.1%	6.02%	9.33%	12.74%	0.36%	4.22%	9.33%	6.45%	*	*	*	
Policy Benchmark			6.65%	8.02%	11.82%	0.51%	2.90%	8.81%	5.91%				
Subtotal Pension Pool Participants	\$5,948,528,605	100.0%											

		Rates of Return (net of fees)									
	Fair Value	For Fiscal Year Ended 6/30			Annualized						
INDIVIDUAL INVESTMENT ACCOUNTS		2019	2018	2017	2016	2015	3 Years	5 Years	10 Years	20 Years	30 Years
Legacy Fund	\$6,580,759,928	4.98%	7.57%	12.03%	1.06%	3.31%	8.15%	5.72%	*	*	*
Policy Benchmark		6.12%	6.50%	9.90%	1.03%	2.38%	7.49%	5.14%			
Retiree Health Insurance Credit Fund	135,962,521	6.51%	7.15%	11.81%	0.72%	3.06%	8.47%	5.79%	9.76%	5.22%	*
Policy Benchmark		6.89%	7.18%	11.32%	1.60%	3.58%	8.44%	6.06%	9.34%	5.71%	
Job Service of North Dakota Pension Fund	97,285,278	6.86%	3.15%	5.63%	5.45%	3.30%	5.20%	4.87%	8.17%	5.53%	*
Policy Benchmark		6.74%	4.16%	7.85%	2.20%	1.60%	6.24%	4.48%	7.50%	5.10%	
Tobacco Prevention and Control Trust Fund	9,300,128	4.47%	1.63%	1.66%	*	*	2.58%	*	*	*	*
Policy Benchmark		4.38%	1.68%	1.67%			2.57%				

## INVESTMENT PERFORMANCE SUMMARY JUNE 30, 2019

		% of				Rates	of Retu	rn (net of	fees)			
	Fair Value	% OI Pool		For Fisca	al Year E	nded 6/30			P	Annualize	d	
INSURANCE POOL PARTICIPANTS			2019	2018	2017	2016	2015			10 Years		
Workforce Safety & Insurance Fund	\$2,065,400,402	89.0%	6.87%	5.34%	8.29%	3.58%	3.27%	6.83%	5.45%	7.82%	5.87%	7.39%
Policy Benchmark			7.05%	3.77%	5.20%	3.41%	2.66%	5.33%	4.41%	6.05%	5.46%	
State Fire and Tornado Fund	22,761,458	1.0%	6.41%	5.32%	9.30%	2.67%	3.16%	7.00%	5.34%	8.34%	5.87%	6.82%
Policy Benchmark			6.76%	4.35%	6.48%	2.58%	2.49%	5.86%	4.52%	6.62%	5.26%	
State Bonding Fund	3,609,422	0.2%	5.83%	1.07%	2.40%	3.48%	1.25%	3.08%	2.79%	3.98%	3.48%	5.24%
Policy Benchmark			5.35%	0.41%	0.07%	3.35%	1.03%	1.92%	2.02%	2.36%	2.67%	
Petroleum Tank Release Fund	5,994,235	0.3%	5.47%	1.13%	2.23%	3.17%	1.13%	2.93%	2.61%	3.67%	3.25%	*
Policy Benchmark			5.07%	0.50%	0.09%	3.07%	0.94%	1.86%	1.92%	2.19%	2.63%	
Insurance Regulatory Trust Fund	6,218,782	0.3%	5.03%	4.53%	7.40%	1.46%	2.04%	5.65%	4.07%	6.29%	5.01%	5.89%
Policy Benchmark			5.37%	4.05%	5.69%	1.39%	1.76%	5.04%	3.64%	5.20%	4.37%	*
State Risk Management Fund	4,909,623	0.2%	7.67%	5.14%	8.27%	4.46%	4.08%	7.02%	5.91%	8.94%	5.58%	*
Policy Benchmark			7.67%	4.27%	5.47%	4.25%	3.46%	5.79%	5.01%	7.02%	5.11%	
State Risk Management Workers Comp	5,187,880	0.2%	7.56%	6.03%	9.41%	4.21%	4.57%	7.66%	6.34%	9.62%	*	*
Policy Benchmark			7.75%	5.32%	6.83%	4.01%	3.89%	6.62%	5.55%	7.84%		
Cultural Endowment Fund	475,311	0.0%	6.02%	8.27%	12.71%	2.18%	5.22%	8.96%	6.82%	10.62%	*	*
Policy Benchmark			6.91%	7.75%	10.79%	2.13%	4.25%	8.47%	6.32%	9.26%		
Budget Stabilization Fund	118,707,131	5.1%	4.51%	0.32%	0.80%	1.82%	1.86%	1.86%	1.85%	2.61%	*	*
Policy Benchmark			4.23%	0.24%	0.37%	1.51%	0.75%	1.60%	1.41%	0.86%		
ND Assoc. of Counties (NDACo) Fund	6,333,053	0.3%	7.12%	4.48%	8.30%	2.76%	2.77%	6.62%	5.06%	8.00%	5.21%	*
Policy Benchmark			7.32%	3.71%	5.51%	2.68%	2.15%	5.50%	4.26%	6.40%	4.69%	
City of Bismarck Deferred Sick Leave	779,597	0.0%	6.90%	4.66%	8.85%	3.26%	2.95%	6.79%	5.30%	8.28%	*	*
Policy Benchmark			7.06%	3.50%	5.45%	3.14%	2.31%	5.33%	4.28%	6.27%		
PERS Group Insurance	31,067,120	1.3%	4.20%	0.41%	0.08%	1.49%	0.01%	1.55%	1.23%	0.74%	*	*
Policy Benchmark			3.97%	0.33%	0.37%	1.56%	0.02%	1.54%	1.24%	0.67%		
State Board of Medicine	2,362,385	0.1%	4.98%	3.12%	5.29%	1.63%	2.70%	4.46%	3.54%	*	*	*
Policy Benchmark			5.22%	2.80%	4.05%	1.33%	1.84%	4.02%	3.04%			
City of Fargo FargoDome Permanent Fund	44,840,632	1.9%	5.13%	7.64%	12.25%	1.19%	3.38%	8.30%	5.85%	9.67%	*	*
Policy Benchmark			6.07%	6.55%	9.73%	1.04%	2.58%	7.44%	5.15%	8.28%		
Lewis & Clark Interpretive Center Endowment	751,763	0.0%	6.99%	*	*	*	*	*	*	*	*	*
Policy Benchmark			7.15%									
Subtotal Insurance Pool Participants	\$2,319,398,794	100.0%										

<sup>\*</sup>These categories do not have the specified years of history under SIB management or data is not available.

Note: Asset allocation largely drives investment performance. Each fund has a unique allocation that takes into consideration return objectives, risk tolerance, liquidity constraints, and unique circumstances. Such considerations must be taken into account when comparing results.

Columns may not foot due to rounding.

## SCHEDULE OF INVESTMENT CONSULTANTS AND RESULTS FOR PERIODS ENDED JUNE 30, 2019 PENSION INVESTMENT POOL

		Date			zed Rates of Net of Fees	Return
	Style	Initiated	Fair Value	1 Year	3 Years	5 Years
TOTAL PENSION INVESTMENT POOL			\$5,948,528,605	5.54%	9.17%	6.20%
Policy Target (1)				6.38%	8.63%	5.68%
TOTAL GLOBAL EQUITY			3,452,390,156	4.44%	11.72%	6.71%
Composite Benchmark (1)				5.72%	11.69%	6.38%
TOTAL PUBLIC EQUITY			3,223,025,833	4.22%	*	*
Composite Benchmark (1)				5.14%	*	*
TOTAL WORLD EQUITY			973,947,164	3.05%	11.15%	5.74%
MSCI World Index				6.33%	11.77%	6.60%
Epoch Investment Partners, Inc.	Core	01/2012	446,997,953	6.90%	12.55%	7.52%
LSV Asset Management	Core Value	03/2013	526,949,211	0.07%	9.96%	4.36%
TOTAL DOMESTIC EQUITY			1,308,308,373	8.33%	13.87%	10.28%
Composite Benchmark (1)				6.82%	13.78%	9.73%
TOTAL DOMESTIC LARGE CAP EQUITY			998,472,995	10.11%	14.06%	11.14%
Russell 1000 Index				10.02%	14.15%	10.45%
Parametric Clifton	Enhanced S&P 500	06/2011	196,329,584	10.62%	13.82%	10.63%
Los Angeles Capital Management	Structured Growth	08/2003	391,840,605	11.56%	15.65%	12.80%
Los Angeles Capital Management	Enhanced Russell 1000	08/2000	211,010,158	10.75%	12.87%	10.49%
Northern Trust Asset Management	Enhanced S&P 500	08/2000	199,292,648	6.28%	12.39%	8.88%
TOTAL DOMESTIC SMALL CAP EQUITY Russell 2000 Index			309,835,378	3.02% -3.31%	13.34% 12.30%	7.40% 7.06%
Atlanta Capital	High Quality	04/2016	156,435,408	9.55%	14.13%	*
Parametric Clifton	Enhanced Russell 2000	11/2009	153,399,970	-3.36%	12.07%	7.27%
TOTAL INTERNATIONAL EQUITY			940,770,296	-0.51%	9.91%	3.52%
Composite Benchmark (1)			, ,	1.32%	9.42%	2.34%
TOTAL DEVELOPED INTERNATIONAL EQUITY			722,743,721	-0.85%	9.80%	3.33%
Benchmark (2)				1.29%	9.01%	2.19%
William Blair Investment Management	Growth-oriented	06/2016	220,020,676	5.19%	13.30%	*
Dimensional Fund Advisors	Small Cap Value	11/2007	75,373,902	-11.54%	6.29%	1.05%
Northern Trust Asset Management	Core	12/2013	353,921,686	1.51%	9.36%	2.37%
Wellington Trust Company, NA	Small Cap Growth	03/2002	73,427,457	-13.37%	6.20%	3.83%
TOTAL EMERGING MARKETS EQUITY			218,026,575	0.37%	10.12%	3.77%
MSCI Emerging Markets Index				1.22%	10.66%	2.49%
Axiom International Investors	Core	07/2014	158,454,367	0.91%	11.00%	*
Dimensional Fund Advisors	Small Cap	10/2005	59,572,208	-1.31%	7.55%	2.90%

## SCHEDULE OF INVESTMENT CONSULTANTS AND RESULTS FOR PERIODS ENDED JUNE 30, 2019 PENSION INVESTMENT POOL (CONTINUED)

		Date			zed Rates of Net of Fees	Return
	Style	Initiated	Fair Value	1 Year	3 Years	5 Years
TOTAL PRIVATE EQUITY			229,364,323	8.60%	8.30%	2.20%
Adams St. Partners (1998 Fund)	Diversified Private Equity	01/1998	13,518	8.09%	2.73%	2.32%
Adams St. Partners (1999 Fund)	Diversified Private Equity	01/1999	119,466	-5.75%	-2.00%	-2.85%
Adams St. Partners (2000 Fund)	Diversified Private Equity	10/1999	352,391	15.03%	8.51%	2.30%
Adams St. Partners (2001 Fund)	Diversified Private Equity	12/2000	560,299	2.62%	5.40%	0.98%
Adams St. Partners (2002 Fund)	Diversified Private Equity	03/2002	138,489	-8.00%	3.12%	-0.69%
Adams St. Partners (2003 Fund)	Diversified Private Equity	04/2003	163,082	5.30%	10.42%	8.28%
Adams St. Partners (1999 Non-U.S. Fund)	Diversified Private Equity	01/1999	72,047	0.92%	1.68%	0.70%
Adams St. Partners (2000 Non-U.S. Fund)	Diversified Private Equity	01/2000	357,711	7.78%	10.53%	3.46%
Adams St. Partners (2001 Non-U.S. Fund)	Diversified Private Equity	02/2001	93,991	14.62%	5.39%	11.05%
Adams St. Partners (2002 Non-U.S. Fund)	Diversified Private Equity	05/2002	89,988	-2.53%	-0.62%	3.30%
Adams St. Partners (2003 Non-U.S. Fund)	Diversified Private Equity	04/2003	177,521	-15.21%	4.19%	5.52%
Adams St. Partners (2004 Non-U.S. Fund)	Diversified Private Equity	04/2004	221,837	5.46%	8.30%	1.78%
Adams St. Partners (2008 Non-U.S. Fund)	Diversified Private Equity	01/2008	6,917,900	17.39%	16.68%	13.83%
Adams St. Partners (2010 Direct Fund)	Direct Private Equity	04/2010	844,393	16.01%	15.51%	11.62%
Adams St. Partners (2010 Non-U.S. Developed)	Diversified Private Equity	04/2010	2,938,933	10.72%	14.05%	14.83%
Adams St. Partners (2010 Partnership Fund)	Diversified Private Equity	04/2010	6,832,590	20.14%	20.23%	13.20%
Adams St. Partners (2010 Emerging Mkts Fund)	Diversified Private Equity	01/2011	1,841,157	18.13%	16.98%	15.01%
Adams St. Partners (2015 Global Fund)	Diversified Private Equity	10/2015	22,621,557	17.55%	28.01%	*
Adams St. Partners (2016 Global Fund)	Diversified Private Equity	12/2016	16,672,523	10.66%	*	*
Adams St. Partners (2017 Global Fund)	Diversified Private Equity	10/2017	25,468,402	7.43%	*	*
Adams St. Partners (2018 Global Fund)	Diversified Private Equity	10/2018	8,249,197	*	*	*
Adams St. Partners (B.V.C.F. IV)	Diversified Private Equity	05/1999	3,383,026	-0.40%	1.80%	8.07%
Adams St. Partners (Direct Co-Investment)	Direct Private Equity	09/2006	722,281	-34.59%	-18.03%	-6.17%
Blackrock Investment Management	Diversified Private Equity	01/2017	61,845,266	10.83%	*	*
Capital International (Fund V)	EM Private Equity	08/2007	820,513	-37.07%	-45.20%	-36.13%
Capital International (Fund VI)	EM Private Equity	12/2011	29,858,998	7.95%	7.82%	-0.17%
EIG (formerly Trust Company of the West)	Mezz Debt - Energy	07/2007	4,538,201	-23.43%	0.63%	-24.08%
Corsair Capital (Fund III)	Pvt Eq - Financial Svcs	02/2006	13,727,992	82.11%	8.50%	9.34%
Invest America (Lewis and Clark Fund)	Direct Venture Capital	02/2002	1,138,318	-26.40%	10.80%	-14.73%
Invest America (L&C Fund II)	Direct Venture Capital	06/2009	4,469,887	12.12%	7.83%	1.81%
Matlin Patterson Global Opportunities Fund II	Distressed Debt	10/2004	1,189,522	-2.63%	-9.89%	-1.26%
Matlin Patterson Global Opportunities Fund III	Distressed Debt	06/2007	11,426,274	1.27%	5.50%	1.56%
Quantum Energy Partners	Pvt Equity - Energy	01/2007	1,387,743	-51.42%	-26.03%	-24.05%
TOTAL GLOBAL FIXED INCOME			1,354,841,533	7.77%	5.38%	4.23%
Composite Benchmark (1)				7.80%	3.69%	3.05%
			0.40.077.075	0.15		
TOTAL INVESTMENT GRADE FIXED INCOME			943,855,830	8.13%	4.43%	4.36%
Bloomberg Aggregate Index	~			7.87%	2.31%	2.95%
Manulife Asset Management	Securitized	04/2012	113,328,472	6.48%	4.92%	4.20%
PIMCO	Distressed Sr. Debt	10/2012	93,953,072	5.90%	10.90%	8.24%
PIMCO	Core Constrained	03/2012	317,630,279	8.20%	6.25%	3.70%
Prudential	Core	03/2018	317,650,445	8.17%	*	*
State Street Global Advisors	Passive BC Long Treasury	06/2013	101,293,562	12.29%	1.30%	5.67%

## SCHEDULE OF INVESTMENT CONSULTANTS AND RESULTS FOR PERIODS ENDED JUNE 30, 2019 PENSION INVESTMENT POOL (CONTINUED)

		Date			zed Rates of Net of Fees	Return
	Style	Initiated	Fair Value	1 Year	3 Years	5 Years
TOTAL BELOW INVESTMENT GRADE FIXED I	NCOME		410,985,703	6.98%	8.29%	5.40%
Bloomberg High Yield Corp 2% Issuer Cap				7.48%	7.52%	4.71%
Ares	Private Credit	07/2017	82,704,649	8.03%	*	*
Cerberus	Private Credit	11/2017	91,389,289	8.89%	*	*
Goldman Sachs	Mezzanine Debt-2006	04/2006	92,396	6.62%	24.47%	20.07%
Goldman Sachs	Mezzanine Debt-Fund V	11/2007	403,546	36.09%	11.26%	8.38%
Loomis Sayles	High Yield Bonds	04/2004	207,761,334	6.63%	7.32%	4.35%
PIMCO	Res. & Comm. Debt	10/2013	28,634,489	3.10%	7.41%	7.91%
TOTAL GLOBAL REAL ASSETS			1,086,551,089	5.58%	5.90%	6.90%
Composite Benchmark (1)				5.29%	5.20%	6.11%
MOMAL CLODAL DEAL POPULATION				6.000/	<b>5</b> (10)	0.000/
TOTAL GLOBAL REAL ESTATE			666,766,555	6.02%	7.61%	9.80%
NCREIF Total Index		00/1007	222 502 601	6.51%	6.89%	8.83%
INVESCO Realty Advisors	Core Commingled	08/1997	323,502,691	6.69%	7.58%	9.81%
INVESCO Realty Advisors	Core Plus LP (Fund II)	11/2007	176,874	-4.85%	4.87%	5.49%
INVESCO Realty Advisors	Core Plus LP (Fund III)	05/2012	11,943,173	-17.71%	-2.70%	4.55%
INVESCO Realty Advisors	Core Plus LP (Fund IV)	04/2015	44,548,594	12.51%	10.72%	*
INVESCO Realty Advisors	Core Plus LP (Fund V)	02/2019	17,260,715	*	*	*
INVESCO Realty Advisors	Asian LP	11/2008	207,387	-14.36%	100.34%	83.29%
INVESCO Realty Advisors	Asian LP (Fund III)	11/2015	10,523,273	16.08%	37.14%	*
J. P. Morgan Investment Mgmt. Inc.	Core Commingled	10/1987	252,788,685	5.19%	6.69%	8.89%
J. P. Morgan Investment Mgmt. Inc.	European LP	09/2009	5,815,163	9.79%	-16.29%	-3.12%
TOTAL OTHER REAL ASSETS			419,784,534	4.86%	*	*
Composite Benchmark (1)				3.64%	*	*
TOTAL TIMBER			125,771,298	4.10%	-2.78%	-0.07%
NCREIF Timber Index			123,771,290	2.95%	3.29%	4.62%
Timberland Investment Resources - Teredo	Timberland	06/2001	32,474,048	7.55%	-1.35%	3.92%
Timberland Investment Resources - Springbank	Timberland	09/2004	93,297,250	2.99%	-3.22%	-1.77%
TOTAL INFRASTRUCTURE	11110 41111110	03/, 200 .	294,013,236	5.12%	7.22%	5.02%
Benchmark (4)			23 1,010,200	3.91%	2.83%	1.74%
Grosvenor CIS Fund I	Infrastructure	12/2011	26,131,586	3.58%	6.44%	6.62%
Grosvenor CIS Fund II	Infrastructure	03/2015	18,097,986	16.38%	9.08%	*
The Rohatyn Group (3)						1.720/
	Asian Infrastructure	07/2008	18,199,852	-15.64%	1.37% *	-1.72% *
I Squared	Infrastructure	06/2018	17,853,225	2.41%		
J.P. Morgan Investment Management, Inc.	Infrastructure	05/2007	188,360,124	6.88% *	7.69% *	5.40% *
Macquarie Infrastructure Partners Inc.	Infrastructure	11/2019	25,370,463			
TOTAL CASH EQUIVALENTS			54,745,827	2.27%	1.48%	0.95%
90 Day T-Bills				2.31%	1.38%	0.87%
Bank of North Dakota	Money Market	09/2016	10,427,942	2.27%	*	*
Northern Trust Asset Management	STIF	07/1994	44,317,885	2.23%	1.47%	0.95%

## SCHEDULE OF INVESTMENT CONSULTANTS AND RESULTS FOR PERIODS ENDED JUNE 30, 2019 INSURANCE INVESTMENT POOL

		Date			zed Rates of Net of Fees	Return
	Style	Initiated	Fair Value	1 Year	3 Years	5 Years
TOTAL INSURANCE INVESTMENT POOL			\$ 2,319,398,794	6.41%	6.47%	4.97%
Policy Target (1)				6.81%	4.94%	3.95%
TOTAL GLOBAL EQUITY			502,141,610	2.51%	*	*
Composite Benchmark (1)				4.99%	*	*
TOTAL DOMESTIC EQUITY			323,366,028	5.19%	12.80%	9.36%
Composite Benchmark (1)				6.96%	*	*
TOTAL DOMESTIC LARGE CAP EQUITY			252,962,815	8.25%	13.17%	10.13%
Russell 1000 Index				10.02%	14.15%	10.45%
Parametric Clifton	Enhanced S&P 500	11/2008	51,981,053	10.39%	13.89%	10.73%
Los Angeles Capital Management	Structured Growth	08/2003	77,797,475	11.98%	15.31%	12.63%
Los Angeles Capital Management	Enhanced Russell 1000	04/2004	52,155,741	10.69%	12.86%	10.50%
LSV Asset Management	Structured Value	06/1998	71,028,546	1.13%	10.32%	6.77%
TOTAL DOMESTIC SMALL CAP EQUITY			70,403,213	-5.26%	10.85%	6.71%
Russell 2000 Index				-3.31%	12.30%	7.06%
Parametric Clifton	Enhanced Russell 2000	11/2008	35,341,521	-3.67%	12.02%	7.38%
PIMCO (RAE)	Core	07/2007	35,061,692	-6.88%	9.68%	5.88%
TOTAL INTERNATIONAL EQUITY			178,775,582	-2.46%	10.04%	3.02%
Benchmark (2)				1.29%	9.01%	2.19%
William Blair Investment Management	Growth-oriented	06/2016	75,703,529	5.13%	13.18%	*
Dimensional Fund Advisors	Small Cap Value	11/2007	17,820,536	-11.54%	6.29%	1.05%
LSV Asset Management	Core	11/2004	66,860,204	-5.30%	8.11%	1.47%
The Vanguard Group	Small Cap Growth	06/2003	18,391,313	-11.72%	7.60%	3.05%
TOTAL DOMESTIC FIXED INCOME			1,291,675,739	8.82%	4.95%	4.67%
Bloomberg Aggregate Index				7.87%	2.31%	2.95%
Manulife Asset Management	Securitized	12/2013	91,947,505	6.47%	4.93%	4.18%
PIMCO	Distressed Sr. Debt	10/2012	43,152,521	5.90%	10.90%	8.24%
PIMCO	Res. & Comm. Debt	10/2013	14,629,289	3.10%	7.41%	7.91%
PIMCO	Core Constrained	05/2019	153,247,435	*	*	*
Prudential	Core-Plus	08/2006	332,753,795	9.24%	4.02%	4.18%
State Street Global Advisors	Passive BC Gov't/Credit	06/2013	180,632,337	8.55%	2.40%	3.09%
Wells Capital	Baa Average Bonds	04/2002	106,406,242	11.58%	5.46%	4.81%
Western Asset Management Co.	Core Bonds	07/1990	368,906,615	8.94%	3.94%	4.21%

## SCHEDULE OF INVESTMENT CONSULTANTS AND RESULTS FOR PERIODS ENDED JUNE 30, 2019 INSURANCE INVESTMENT POOL (CONTINUED)

	Date Style Initiated Fair Value				zed Rates of Net of Fees	Return
	Style	Initiated	Fair Value	1 Year	3 Years	5 Years
TOTAL GLOBAL REAL ASSETS			347,929,999	4.49%	*	*
Composite Benchmark (1)				5.18%	*	*
TOTAL DIVERSIFIED REAL ASSETS			246,753,644	4.05%	5.00%	3.36%
Composite Benchmark (1)				4.66%	3.19%	2.03%
Grosvenor CIS Fund I	Infrastructure	12/2011	13,065,783	3.58%	6.44%	6.62%
J. P. Morgan Investment Mgmt. Inc.	Infrastructure	11/2008	44,477,897	6.92%	7.70%	5.15%
Timberland Investment Resources	Timberland	10/2008	53,916,906	-0.44%	5.77%	4.27%
Western Asset Management Co.	Global TIPS	05/2004	135,293,058	3.58%	2.28%	1.26%
TOTAL REAL ESTATE			101,176,355	5.15%	6.83%	9.10%
NCREIF Total Index				6.51%	6.89%	8.83%
INVESCO Realty Advisors	Core Commingled	10/2012	52,590,696	6.69%	7.58%	9.81%
J. P. Morgan Investment Mgmt. Inc.	Core Commingled	11/2005	48,585,659	3.43%	6.04%	8.45%
TOTAL CASH EQUIVALENTS			31,910,310	2.15%	1.26%	0.78%
90 Day T-Bills				2.31%	1.38%	0.87%
Bank of North Dakota	Money Market	09/2016	27,180,011	2.27%	*	*
Northern Trust Asset Management	STIF	07/2013	4,730,299	2.09%	1.16%	0.72%
TOTAL SHORT-TERM FIXED INCOME			145,741,136	4.55%	1.80%	1.74%
Benchmark (5)				4.27%	1.49%	1.33%
J.P. Morgan Investment Mgmt. Inc.	Short Term Bonds	09/2011	145,741,136	4.55%	1.61%	1.51%

## SCHEDULE OF INVESTMENT CONSULTANTS AND RESULTS FOR PERIODS ENDED JUNE 30, 2019 LEGACY FUND

		Date			zed Rates of Net of Fees	Return
	Style	Initiated	Fair Value	1 Year	3 Years	5 Years
TOTAL LEGACY FUND			\$6,580,759,928	4.98%	8.15%	5.72%
Policy Target (1)				6.12%	7.50%	5.18%
TOTAL GLOBAL EQUITY			3,210,940,290	1.89%	*	*
Composite Benchmark (1)				4.39%	*	*
TOTAL DOMESTIC EQUITY			1,938,117,069	4.51%	12.66%	9.28%
Composite Benchmark (1)				6.36%	*	*
TOTAL DOMESTIC LARGE CAP EQUITY			1,442,421,117	8.12%	13.19%	10.12%
Russell 1000 Index				10.02%	14.15%	10.45%
Parametric Clifton	Enhanced S&P 500	08/2013	291,471,887	10.60%	13.91%	10.80%
Los Angeles Capital Management	Structured Growth	08/2013	447,984,665	11.48%	15.24%	12.49%
Los Angeles Capital Management	Enhanced Russell 1000	08/2013	289,714,463	10.42%	12.62%	10.32%
LSV Asset Management	Structured Value	08/2013	413,250,102	1.64%	10.89%	7.14%
TOTAL DOMESTIC SMALL CAP EQUITY			495,695,952	-4.94%	11.04%	6.84%
Russell 2000 Index				-3.31%	12.30%	7.06%
Parametric Clifton	Enhanced Russell 2000	08/2013	253,529,446	-3.12%	12.30%	7.58%
PIMCO (RAE)	Core	08/2013	242,166,506	-6.81%	9.63%	5.83%
TOTAL INTERNATIONAL EQUITY			1,272,823,221	-2.02%	10.05%	3.02%
Benchmark (2)				1.29%	9.01%	2.19%
William Blair Investment Management	Core	08/2013	549,253,750	5.26%	13.23%	*
Dimensional Fund Advisors	Small Cap Value	08/2013	116,598,229	-11.54%	6.29%	1.05%
LSV Asset Management	Core	08/2013	484,716,545	-4.66%	8.14%	1.57%
The Vanguard Group	Small Cap Growth	08/2013	122,254,697	-11.72%	7.60%	3.05%
TOTAL DOMESTIC FIXED INCOME			2,181,597,582	8.99%	4.50%	4.37%
Bloomberg Aggregate Index				7.87%	2.31%	2.95%
Ares	Private Credit	07/2017	55,136,433	8.03%	*	*
Bank of North Dakota Match Loan CDs	Certificates of Deposit	various	37,648,617	3.55%	*	*
Cerberus	Private Credit	11/2017	60,926,193	8.89%	*	*
Manulife Asset Management	Securitized	12/2013	165,218,383	6.47%	4.93%	4.18%
PIMCO	Distressed Sr. Debt	12/2013	41,311,624	5.90%	10.90%	8.24%
PIMCO	Res. & Comm. Debt	12/2013	14,005,200	3.10%	7.41%	7.91%
Prudential	Core-Plus	12/2013	697,181,557	9.32%	4.25%	4.36%
State Street Global Advisors	Passive BC Gov't/Credit	12/2013	307,904,493	8.55%	2.40%	3.09%
Wells Capital	Baa Average Bonds	12/2013	187,329,651	11.57%	5.34%	4.75%
Western Asset Management Co.	Core Bonds	12/2013	614,935,431	9.08%	3.86%	4.09%

## SCHEDULE OF INVESTMENT CONSULTANTS AND RESULTS FOR PERIODS ENDED JUNE 30, 2019 LEGACY FUND (CONTINUED)

		Date	_	Annualiz 1	Return	
	Style	Initiated	Fair Value	1 Year	3 Years	5 Years
TOTAL GLOBAL REAL ASSETS			932,378,139	5.14%	*	*
Composite Benchmark (1)				5.02%	*	*
TOTAL DIVERSIFIED REAL ASSETS			635,159,895	5.11%	3.87%	2.51%
Composite Benchmark (1)				4.28%	2.86%	1.37%
Grosvenor CIS Fund II	Infrastructure	03/2015	45,244,969	16.38%	9.08%	*
I Squared	Infrastructure	06/2018	20,599,874	3.39%	*	*
J. P. Morgan Investment Mgmt. Inc.	Infrastructure	03/2015	119,092,378	6.86%	7.66%	*
Macquarie Infrastructure Partners Inc.	Infrastructure	11/2019	29,273,611	*	*	*
Western Asset Management Co.	Global TIPS	02/2014	420,949,063	3.66%	2.31%	1.28%
TOTAL REAL ESTATE			297,218,244	4.99%	6.79%	9.08%
NCREIF Total Index				6.51%	6.89%	8.83%
INVESCO Realty Advisors	Core Commingled	08/2013	146,247,927	6.69%	7.58%	9.81%
J. P. Morgan Investment Mgmt. Inc.	Core Commingled	08/2013	150,970,317	3.40%	6.04%	8.47%
TOTAL CASH EQUIVALENTS 90 Day T-Bills			255,843,917	2.16% 2.31%	1.27% 1.38%	0.78% 0.87%
Bank of North Dakota	Money Market	09/2016	207,607,334	2.27%	*	*
Northern Trust Asset Management	STIF	07/2013	48,236,583	2.09%	1.16%	0.72%

## OTHER INDIVIDUAL INVESTMENT ACCOUNTS

		Date			zed Rates of Net of Fees	Return
	Style	Initiated	Fair Value	1 Year	3 Years	5 Years
NDPERS RETIREE HEALTH INSURANCE CREDI	T FUND					
SEI	Balanced Account	07/2009	\$ 135,962,521	6.51%	8.47%	5.79%
Policy Target (1)				6.89%	8.44%	6.06%
JOB SERVICE ND PENSION FUND						
SEI	Balanced Account	12/2015	97,285,278	6.86%	5.20%	*
TOTAL JOB SERVICE ND PENSION FUND			\$ 97,285,278	6.86%	5.20%	4.87%
Policy Target (1)				6.74%	6.24%	4.48%
TOBACCO PREVENTION AND CONTROL TRUS	T FUND					
State Street Global Advisors	Short Term Bonds	10/2015	7,972,749	4.02%	1.26%	*
Northern Trust Asset Management	STIF	10/2015	1,327,379	2.15%	1.26%	*
TOTAL TOBACCO PREVENTION AND CONTRO	DL TRUST FUND		\$ 9,300,128	4.47%	2.58%	*
Policy Target (1)				4.38%	2.57%	

<sup>\*</sup> This manager/category has less than the indicated years under management due to addition of asset class or replacement of investment managers during the period.

- (1) Policy targets and composite benchmarks consist of target weights of the underlying index returns within each category.
- (2) MSCI EAFE through 6/30/16 and MSCI World ex-US thereafter.
- (3) Management of this fund was transferred from JP Morgan to The Rohatyn Group in May, 2018.
- (4) CPI-W through 6/30/18 then 50% CPI-U lagged one quarter and 50% NFI-ODCE Equal Weight Net Index thereafter.
- (5) Bloomberg Government 1-3 Year Index through 3/31/17 and Bloomberg Government/Credit 1-3 Year Index thereafter.

The investment return calculations were prepared using a monthly time-weighted rate of return methodology based upon market values and are subject to independent calculation. Returns are shown after the effect of investment management fees (net of fees).

Columns may not foot due to rounding.

## LARGEST HOLDINGS (By Fair Value) AT JUNE 30, 2019

## PENSION INVESTMENT POOL

Shares	Stocks	Fair Value
432,884	Microsoft Corporation	\$ 57,989,141
26,024	Amazon Company Incorporated	49,279,827
205,102	Apple Incorporated	40,593,788
322,937	Merck & Company Incorporated	27,078,267
22,014	Alphabet Incorporated (Class C)	23,795,153
2,206,200	AIA Group LTD	23,791,661
151,714	Safran SA	22,261,660
125,560	Visa Incorporated (Class A)	21,790,938
112,199	Facebook Incorporated (Class A)	21,654,407
152,412	Airbus SE	21,640,307
Par	Bonds	Fair Value
19,700,000	GNMA II Jumbos 4% 30 Years Settles August	\$ 20,415,662
14,500,000	FNMA Single Family Mortgage 4% 30 Years Settles August	14,981,734
14,700,000	US Treasury Bonds 2.5% Due 05-15-2046	14,615,019
11,700,000	US Treasury Bonds 2.25% Due 08-15-2027	11,983,819
9,875,000	US Treasury Notes Inflation Index T-Bond 0.875% Due 01-15-2029	10,519,393
9,400,000	GNMA II Jumbos 4.5% 30 Years Settles August	9,792,065
9,700,000	FNMA Single Family Mortgage 3% 30 Years Settles August	9,774,836
8,800,000	GNMA II Jumbos 5% 30 Years Settles July	9,198,922
6,200,000	US Treasury Inflation Index Notes 0.75% Due 07-15-2028	6,576,073
5,000,000	FNMA Single Family Mortgage 3.5% 30 Years Settles August	5,110,870

## INSURANCE INVESTMENT POOL

Shares	Stocks	Fair Value
34,058	Apple Incorporated	\$ 6,740,759
49,460	Microsoft Corporation	6,625,662
2,731	Amazon Company Incorporated	5,171,504
19,657	Facebook Incorporated (Class A)	3,793,801
2,464	Alphabet Incorporated (Class C)	2,663,362
2,400	Alphabet Incorporated (Class A)	2,598,720
231,000	AIA Group LTD	2,491,104
51,978	Pfizer Incorporated	2,251,687
12,355	Visa Incorporated (Class A)	2,144,210
18,639	JP Morgan Chase & Company	2,083,840
Par	Bonds	Fair Value
21,190,000	US Treasury Bonds 1.375% Due 02-15-2044	\$ 26,366,566
17,000,000	FNMA Single Family Mortgage 3% 30 Years Settles August	17,131,155
13,560,000	US Treasury Bonds 3.75% Due 11-15-2043	16,692,577
14,120,000	US Treasury Notes 2.625% Due 12-31-2023	14,651,703
12,700,000	US Treasury Inflation Index Notes 0.125% Due 04-15-2022	13,240,367
6,100,000	US Treasury Bonds Due 04-15-2048	12,369,604
5,800,000	US Treasury Inflation Index Bonds 3.875% Due 04-15-2029	12,067,490
10,650,000	US Treasury Inflation Index Notes 0.125% Due 01-15-2022	11,949,002
11,000,000	US Treasury Inflation Index Notes 0.5% Due 01-15-2028	11,581,455
10,820,000	US Treasury Notes 2.0% Due 05-31-2024	10,947,222

## LARGEST HOLDINGS (By Fair Value) AT JUNE 30, 2019

## **LEGACY FUND**

Shares	Stocks	Fair Value
204,689	Apple Incorporated	\$ 40,512,047
294,825	Microsoft Corporation	39,494,757
16,436	Amazon Company Incorporated	31,123,703
117,564	Facebook Incorporated (Class A)	22,689,852
1,673,200	AIA Group LTD	18,043,789
14,806	Alphabet Incorporated (Class C)	16,003,953
14,452	Alphabet Incorporated (Class A)	15,648,626
87,608	Alibaba Group Holding LTD (ADR)	14,845,176
34,332	LVMH Moet Hennessy Louis Vuitton SE	14,634,113
152,019	Canadian National Railway	14,099,639
Par	Bonds	Fair Value
54,960,000	US Treasury Bonds 1.375% Due 02-15-2044	\$ 68,386,337
57,600,000	US Treasury Inflation Index Notes 0.125% Due 04-15-2022	60,050,796
41,000,000	US Treasury Inflation Index Notes 0.5% Due 01-15-2028	43,167,240
20,000,000	US Treasury Inflation Index Bonds 3.875% Due 04-15-2029	41,612,033
20,000,000	US Treasury Bonds Due 04-15-2028	40,556,080
25,000,000	US Treasury Inflation Index Notes 0.625% Due 01-15-2026	27,532,814
23,200,000	US Treasury Inflation Index Notes 0.125% Due 01-15-2022	26,029,750
19,000,000	US Treasury Inflation Index Bonds 1.75% Due 01-15-2028	25,978,697
19,400,000	US Treasury Notes 1.25% Due 01-31-2020	19,304,513
16,800,000	US Treasury Inflation Index Notes 0.125% Due 04-15-2021	17,945,859

The individual investment accounts for PERS Retiree Health Credit Fund, Job Service Pension Fund and Tobacco Prevention and Control Fund are invested in various commingled/mutual funds, and therefore have no individual stock or bond holdings.

A complete list of all holdings is available upon request.

## SCHEDULE OF INVESTMENT FEES FOR THE FISCAL YEAR ENDED JUNE 30, 2019 INVESTMENT POOLS

	Pension Investment Pool			Insurance Investment Pool		
	Assets under		Assets under			
	management		Basis	management		Basis
	(Average)	Fees	points	(Average)	Fees	points
Investment manager fees:				•		
Global equity managers	\$ 929,476,956	\$ 3,170,094	34			
Domestic large cap equity managers	978,215,921	1,659,764	17	\$ 237,102,696	\$ 464,643	20
Domestic small cap equity managers	310,490,607	1,041,679	34	64,399,617	129,765	20
Developed international equity managers	674,266,628	1,968,544	29	165,134,181	677,171	41
Emerging markets equity managers	209,399,992	1,594,552	76			
Private equity managers	205,731,611	3,621,679	176			
Investment grade fixed income managers	933,615,981	2,667,559	29	1,211,756,455	2,836,196	23
Diversified real asset managers				246,645,776	1,103,565	45
Below investment grade fixed income managers	394,450,996	5,793,447	147			
Real estate managers	645,068,183	5,461,172	85	110,877,801	604,630	55
Timber managers	127,884,271	843,228	66			
Infrastructure managers	274,353,623	4,441,799	162			
Cash & equivalents managers	44,141,315	45,912	10	40,530,940	59,524	15
Short term fixed income managers	, ,	- 7-		142,082,486	189,384	13
Total investment manager fees	\$ 5,727,096,084	32,309,429	56	\$ 2,218,529,952	6,064,878	27
Custodian fees		539,382	1		199,635	1
Investment consultant fees		258,921	0		101,563	0
SIB Service Fees		30,634	0		14,493	0
Total investment expenses		\$ 33,138,366	58		\$ 6,380,569	29
Reconciliation of Investment Expenses to Financial and Investment expenses as reflected in the financial state.		\$ 14,562,599			\$ 4,091,722	
Plus investment management fees included in invest	ment income (net in	coma)				
Domestic large cap equity managers	ment meone (net m	265,142			64,391	
Developed international equity managers		532,724			173,314	
Emerging markets equity managers		1,594,552			175,514	
Investment grade domestic fixed income manager	*0	1,754,404			1,403,435	
Diversified real assets managers	.5	1,734,404			588,183	
Below investment grade domestic fixed income m	10 7 0 COTO	4,768,684			300,103	
	allageis	843,228				
Timber managers						
Infrastructure managers		3,191,651				
Real estate managers		2,003,705				
Private equity managers		3,621,677			50.524	
Cash & equivalents managers					59,524	
Investment expenses per schedule		\$ 33,138,366			\$ 6,380,569	

Individual investment funds' total basis points vary depending upon their asset allocation.

Columns may not foot due to rounding.

## SCHEDULE OF INVESTMENT FEES FOR THE FISCAL YEAR ENDED JUNE 30, 2019 INDIVIDUAL INVESTMENT ACCOUNTS

	Legacy Fund		PERS Retiree Health Credit Fund Job Service of ND Pension Fund			Tobacco Prevention and Control Fund		l	
	Assets under management (Average)	Fees	Basis points	Assets under management (Average)	Fees	Basis points	Assets under management (Average)	Fees	Basis points
Investment manager fees:								•	
Domestic large cap equity managers	\$1,325,183,262	\$ 3,240,792	24				\$ 4,397,092	\$ 1,263	3
Domestic small cap equity managers	462,998,204	1,075,289	23						
Developed international equity managers	1,185,852,998	4,769,488	40						
Investment grade fixed income managers	2,108,399,241	6,467,723	31						
Diversified real asset managers	594,427,449	4,667,325	79						
Real estate managers	290,713,673	1,605,648	55						
Cash & equivalents managers	115,302,787	100,541	9						
Short term fixed income managers							25,545,252	5,167	2
Balanced account manager - PERS Retiree I	Health			\$ 129,059,562	\$ 550,063	43			
Balanced account manager - Job Service Per	nsion			96,767,137	429,259	44			
Total investment manager fees	\$6,082,877,614	21,926,806	36	\$ 225,826,699	979,322	43	\$ 29,942,344	6,430	2
Custodian fees		550,192	1		18,816	1		4,159	1
Investment consultant fees		251,009	0		-	0		593	0
SIB Service Fees		-	0		31,044	1		5,644	2
Total investment expenses		\$22,728,007	37		\$1,029,182	46		\$ 16,826	6
Reconciliation of Investment Expenses to Fi	nancial Statements	;							
Investment expenses as reflected in the financi		\$ 13,412,391			\$ 703,067			\$ 16,826	
investment expenses as reflected in the infanci	ar statements	ψ15,τ12,571			Ψ 705,007			φ 10,020	
Plus investment management fees included in i	investment income (	net income)							
Domestic large cap equity managers		474,451							
Developed international equity managers		1,198,168							
Investment grade domestic fixed income ma	nagers	4,141,346							
Diversified real assets managers	-	3,401,110							
Cash & equivalents managers		100,541							
Balanced account managers		,			326,115				
Investment expenses per schedule		\$22,728,007			\$1,029,182			\$ 16,826	

Columns may not foot due to rounding.

## SCHEDULE OF COMMISSIONS FOR THE FISCAL YEAR ENDED JUNE 30, 2019

Brokers	Number of shares traded	Total commission	_	Commissions per share	
Morgan Stanley & Co. LLC	19,539,206	\$ 88,14	2 \$	0.005	
Liquidnet	11,225,836	113,459	9	0.010	
The Citation Group	8,949,686	89,49	7	0.010	
Credit Suisse	6,838,599	85,40	6	0.012	
Jefferies LLC	6,544,868	71,62	5	0.011	
UBS	5,602,750	46,98	0	0.008	
Investment Technology Group Inc.	5,303,075	51,28	6	0.010	
Merrill Lynch	4,709,676	41,93	9	0.009	
Citigroup	4,421,877	18,91	9	0.004	
Weeden and Company	3,860,777	25,14	9	0.007	
Other 60 Brokers *	624,838,772	387,77	0	0.001	
Total commissions	701,835,122	\$ 1,020,17	2 \$	0.001	

Note: This schedule includes only brokerage costs for agency trades of common and preferred stock.

 $<sup>\</sup>ensuremath{^{*}}$  A complete listing of investment brokers utilized is available upon request.

## TEACHERS' FUND FOR RETIREMENT

## **❖** Teachers' Fund for Retirement Investment Objectives and Policy Guidelines

#### Plan Characteristics and Fund Constraints

The North Dakota Teachers' Fund for Retirement (TFFR) is a pension benefit plan that was established in 1913 to provide retirement income to all public school and certain state teachers and administrators in the state of North Dakota. The plan is administered by a seven-member Board of Trustees comprised of five active and retired members of the fund appointed by the Governor of North Dakota and two elected officials - the State Treasurer and the State Superintendent of Public Instruction.

The plan is a multi-employer defined benefit public pension plan that provides retirement, disability, and death benefits in accordance with Chapter 15-39.1 of the North Dakota Century Code (NDCC). Monthly retirement benefits are based on the formula: Number of Years of service X 2.0% X Final Average Salary. Adjustments to the basic formula are made depending on the retirement option selected.

Funding is provided by monthly employee and employer contributions scheduled to increase as follows:

	7/1/2011	7/1/2012	7/1/2014
Employee	7.75%	9.75%	11.75%
Employer	8.75%	10.75%	12.75%

Employee and employer contributions will be reduced to 7.75% each when TFFR reaches 100% funded level on an actuarial value basis.

The TFFR Board has an actuarial valuation performed annually and an Experience Study and Asset Liability Study performed every five years. The actuarial assumed rate of return on assets was reduced to 7.75% from 8.0% as of July 1, 2015. Key plan and financial statistics are recorded in the most recent valuation report on file at the North Dakota Retirement and Investment Office (RIO).

### Fund Goals

The Plan benefits are financed through both statutory employer and employee contributions and the investment earnings on assets held in the Fund. The TFFR Board recognizes that a sound investment program is essential to meet the pension obligations.

As a result, the Fund goals are to:

 Improve the Plan's funding status to protect and sustain current and future benefits.

- Minimize the employee and employer contributions needed to fund the Plan over the long term.
- Avoid substantial volatility in required contribution rates and fluctuations in the Plan's funding status.
- 4) Accumulate a funding surplus to provide increases in retiree annuity payments to preserve the purchasing power of their retirement benefit.

The Board acknowledges the material impact that funding the pension plan has on the State/School District's financial performance. These goals affect the Fund's investment strategies and often represent conflicting goals. For example, minimizing the long-term funding costs implies a less conservative investment program, whereas dampening the volatility of contributions and avoiding large swings in the funding status implies a more conservative investment program. The Board places a greater emphasis on the strategy of improving the funding status and reducing the contributions that must be made to the Fund, as it is most consistent with the long-term goal of conserving money to apply to other important state/local projects.

## Responsibilities and Discretion of the State Investment Board (SIB)

The TFFR Board is charged by law under NDCC 21-10-02.1 with the responsibility of establishing policies on investment goals and asset allocation of the Fund. The SIB is charged with implementing these policies and investing the assets of the Fund in the manner provided in NDCC 21-10-07, the prudent investor rule. Under this rule, the fiduciaries shall exercise the judgment and care, under the circumstances then prevailing, that an institutional investor of ordinary prudence, discretion, and intelligence exercises in the management of large investments entrusted to it, not in regard to speculation but in regard to the permanent disposition of funds, considering probable safety of capital as well as probable income. The Fund must be invested exclusively for the benefit of the members and their beneficiaries in accordance with this investment policy.

Management responsibility for the investment program not assigned to the SIB in Chapter 21-10 of the North Dakota Century Code (NDCC) is hereby delegated to the SIB, who must establish written policies for the operation of the investment program, consistent with this investment policy.

The SIB may delegate investment responsibility to professional money managers. Where a money manager has been retained, the SIB's role in determining investment strategy and security selection is supervisory, not advisory.

At the discretion of the SIB, the Fund's assets may be pooled with other funds. In pooling funds, the SIB may establish whatever asset class pools it deems necessary with specific quality, diversification, restrictions, and performance objectives appropriate to the prudent investor rule and the objectives of the funds participating in the pools.

The SIB is responsible for establishing criteria, procedures, and making decisions with respect to hiring, keeping, and terminating money managers. SIB investment responsibility also includes selecting performance measurement services, consultants, report formats, and frequency of meetings with managers.

The SIB will implement changes to this policy as promptly as is prudent.

#### Risk Tolerance

The Board is unwilling to undertake investment strategies that might jeopardize the ability of the Fund to finance the pension benefits promised to plan participants.

However, funding the pension promise in an economical manner is critical to the State/School Districts ability to continue to provide pension benefits to plan participants. Thus, the Board actively seeks to lower the cost of funding the Plan's pension obligations by taking on risk for which it expects to be compensated over the long term. The Board understands that a prudent investment approach to risk taking can result in periods of under-performance for the Fund in which the funding status may decline. These periods, in turn, can lead to higher required contribution rates. Nevertheless, the Board believes that such an approach, prudently implemented, best serves the longrun interests of the State/School District and, therefore, of plan participants.

### **Investment Objectives**

The Board's investment objectives are expressed in terms of reward and risk expectations relative to investable, passive benchmarks. The Fund's policy benchmark is comprised of policy mix weights of appropriate asset class benchmarks as set by the SIB.

- The fund's rate of return, net of fees and expenses, should at least match that of the policy benchmark over a minimum evaluation period of five years.
- 2) The fund's risk, measured by the standard deviation of net returns, should not exceed 115% of the policy benchmark over a minimum evaluation period of five years.
- 3) The risk-adjusted performance of the fund, net of fees and expenses, should at least match that of the

policy benchmark over a minimum evaluation period of five years.

#### Policy Asset Mix

Benefit payments are projected to occur over a long period of time. This allows TFFR to adopt a long-term investment horizon and asset allocation policy for the management of fund assets. Asset allocation policy is critical because it defines the basic risk and return characteristics of the investment portfolio. Asset allocation targets are established using an asset-liability analysis designed to assist the Board in determining an acceptable volatility target for the fund and an optimal asset allocation policy mix. This asset-liability analysis considers both sides of the plan balance sheet, utilizing both quantitative and qualitative inputs, in order to estimate the potential impact of various asset class mixes on key measures of total plan risk, including the resulting estimated impact of funded status and contribution rates. After consideration of all the inputs and a discussion of its own collective risk tolerance, the Board approves the appropriate policy asset mix for the Fund.

Asset Class	Policy
	Target %
Global Equity	58
Public Equity	52
Private Equity	6
Global Fixed Income	23
Investment Grade	16
Non-investment Grade	7
Global Real Assets	18
Global Real Estate	10
Other	8
Cash	1

An allocation to Global Alternatives of up to 10% is authorized but shall not increase the expected volatility of the portfolio as measured in the Investment Objectives section; and if utilized, all other targets will be adjusted pro-rata. The Board does not endorse tactical asset allocation, therefore, it is anticipated the portfolio be managed as close to the policy target as is prudent and practicable while minimizing rebalancing costs. Rebalancing of the Fund to this target will be done in accordance with the SIB's rebalancing policy.

#### Restrictions

While the SIB is responsible for establishing specific quality, diversification, restrictions, and performance objectives for the investment vehicles in which the Fund's assets will be invested, it is understood that:

- a. Futures and options may be used to hedge or replicate underlying index exposure, but not for speculation.
- b. Derivatives use will be monitored to ensure that undue risks are not taken by the money managers

- c. No transaction shall be made which threatens the tax exempt status of the Fund.
- d. All assets will be held in custody by the SIB's master custodian or such other custodians as are acceptable to the SIB.
- e. No unhedged short sales or speculative margin purchases shall be made.
- f. Social investing is prohibited unless it meets the Exclusive Benefit Rule and it can be substantiated that the investment must provide an equivalent or superior rate of return for a similar investment with a similar time horizon and similar risk.

For the purpose of this document, Social Investing is defined as "The investment or commitment of public pension fund money for the purpose of obtaining an effect other than a maximized return to the intended beneficiaries."

g. Economically targeted investing is prohibited unless the investment meets the Exclusive Benefit Rule.

For the purpose of this document economically targeted investment is defined as an investment designed to produce a competitive rate of return commensurate with risk involved, as well as to create collateral economic benefits for a targeted geographic area, group of people, or sector of the economy.

Also, for the purpose of this document, the Exclusive Benefit Rule is met if the following four conditions are satisfied:

- 1) The cost does not exceed the fair market value at the time of investment.
- 2) The investment provides the Fund with an equivalent or superior rate of return for a similar investment with a similar time horizon and similar task.
- 3) Sufficient liquidity is maintained in the Fund to permit distributions in accordance with the terms of the plan.
- 4) The safeguards and diversity that a prudent investor would adhere to are present.

Where investment characteristics, including yield, risk, and liquidity are equivalent, the Board's policy favors investments which will have a positive impact on the economy of North Dakota.

#### **Internal Controls**

A system of internal controls must be in place by the SIB to prevent losses of public funds arising from fraud or employee error. Such controls deemed most important are the separation of responsibilities for investment purchases from the recording of investment activity, custodial safekeeping, written confirmation of investment transactions, and established criteria for broker relationships. The annual financial audit must include a comprehensive review of the portfolio, accounting procedures for security transactions and compliance with the investment policy.

### **Evaluation and Review**

Investment management of the Fund will be evaluated against the Fund's investment objectives. Emphasis will be placed on five year results. Evaluation should include an assessment of the continued feasibility of achieving the investment objectives and the appropriateness of the Investment Policy Statement for achieving those objectives.

Performance reports will be provided to the TFFR Board periodically, but not less than annually. Such reports will include asset returns and allocation data as well as information regarding all significant and/or material matters and changes pertaining to the investment of the Fund, including but not limited to:

- A list of the advisory services managing investments for the board.
- 2) A list of investments at market value, compared to previous reporting period, of each fund managed by each advisory service.
- 3) Earnings, percentage earned, and change in market value of each fund's investments.
- 4) Comparison of the performance of each fund managed by each advisory service to other funds under the board's control and to generally accepted market indicators.
- 5) All material legal or legislative proceedings affecting the SIB.
- 6) Compliance with this investment policy statement.

## ❖ Teachers' Fund for Retirement Actual Asset Allocation – June 30, 2019

Asset Allocation	Fair Value	Percent of Total	One Year Return (net)
Global Equity	\$ 1,498,584,716	58.2%	4.50%
Public Equity	1,392,964,843	54.1%	4.26%
World Equity	416,089,738	16.2%	3.04%
Domestic Equity	568,790,242	22.1%	8.40%
Domestic Large Cap Equity	441,366,552	17.1%	10.12%
Domestic Small Cap Equity	127,423,690	5.0%	3.00%
International Equity	408,084,863	15.9%	-0.57%
Developed International Equity	326,827,166	12.7%	-0.87%
Emerging Markets Equity	81,257,697	3.2%	0.41%
Private Equity	105,619,873	4.1%	8.62%
Global Fixed Income	580,286,228	22.5%	7.75%
Investment Grade Fixed Income	402,088,432	15.6%	8.12%
Non-Investment Grade Fixed Income	178,197,796	6.9%	6.93%
Global Real Assets	459,714,123	17.9%	5.56%
Global Real Estate	275,746,822	10.7%	6.02%
Other	183,967,301	7.1%	4.85%
Timber	56,772,392	2.2%	4.10%
Infrastructure	127,194,909	4.9%	5.12%
Cash Equivalents	35,037,500	1.4%	2.32%
Total Fund	\$ 2,573,622,567		5.54%
Policy Benchmark			6.35%
Columns may not foot due to rounding.			

## PUBLIC EMPLOYEES RETIREMENT SYSTEM

### Public Employees Retirement System Investment Objectives and Policy Guidelines

#### Plan Characteristics and Fund Constraints

The North Dakota Public Employees Retirement System (NDPERS) and the Highway Patrol Retirement System (HPRS) are pension benefit plans established to provide retirement income to state employees and employees of participating political subdivisions. The plans are administered by a nine-member Board of Trustees (the Board). The Chair is appointed by the governor, three members are elected by the active members of the plans, one member is elected by the retired members, one is appointed by the Attorney General, one member is the State Health Officer or their designee and two are legislative appointees.

The NDPERS plan is a multi-employer hybrid benefit public pension plan that provides retirement benefits, disability retirement benefits, and survivor benefits, in accordance with Chapter 54-52 of the North Dakota Century Code (NDCC). Monthly retirement benefits for the Main, National Guard and Law Enforcement Plans are based on the formula: number of Years of Service times 2.0% times the final average salary. For the NDPERS Judges Plan the retirement formula is: for the first ten years of service of the formula is final average salary times 3.5%, for the second ten years of service the formula is final average salary times 2.80% and for all remaining years of service the formula is final average salary times 1.25%.

The Highway Patrol plan is a single employer plan that provides retirement benefits, disability benefits, and survivor benefits in accordance with Chapter 39-03.1 of the North Dakota Century Code. Monthly retirement benefits are based on the formula: first 25 years of credit service times 3.25% and all remaining years of service times 1.75%.

Funding for the NDPERS plan is provided by monthly employee contributions and employer contributions with the amount varying based upon which NDPERS plan the member participates in. For the Main NDPERS plan the employee contribution is 7% and the employer contribution is 7.12%, for the Judges Plan the employee contribution is 8% and employer contribution is 17.52%, for the National Guard Plan the employee contribution is 4.5% and employer contribution is 7%, for the Law Enforcement Plan with prior service the employee contribution is 5.5% and the employer contribution is 9.81% and for the Law Enforcement Plan without prior service the employee contribution rate is 5.5% and the employer rate is 7.93%.

Funding for the Highway Patrol plan is provided by a monthly employee contribution of 13.3% and an employer contribution of 19.7%.

Each year the Board has an actuarial valuation performed. The current actuarial assumed rate of return on assets for all plans is 7.50%.

## Responsibilities and Discretion of the State Investment Board (SIB)

Aggregate plan contributions plus earnings, minus allowable expenses constitute the Fund. The Board is charged by NDCC chapters 54-52, 21-10-01, and 39-03.1 to establish policies for the investment goals and asset allocation of the Fund. The SIB is charged with implementing the asset allocation as promptly and prudently as possible in accordance with the Board's policies by investing the assets of the Fund in the manner provided in the prudent investor rule, which provides:

Fund fiduciaries shall exercise the judgment and care, under the circumstances then prevailing, that an institutional investor of ordinary prudence, discretion, and intelligence exercises in the management of large investments entrusted to it, not in regard to speculation but in regard to the permanent disposition of funds, considering probable safety of capital as well as probable income. The retirement funds belonging to the teachers' fund for retirement and the public employees retirement system must be invested exclusively for the benefit of their members and in accordance with the respective funds' investment goals and objectives. (NDCC 21-10-07)

The SIB may delegate investment responsibility of the Fund or any portion of the Fund to professional money managers. Where a money manager has been retained, the SIB's role in determining investment strategy is supervisory not advisory.

The SIB may at its discretion, pool the assets of the Fund with another fund or funds having similar investment objectives and time horizons in order to maximize returns and minimize costs. In pooling fund assets, the SIB will establish asset class pools it deems necessary to achieve the specific quality, diversification, restrictions, and performance objectives subject to the prudent investor rule and the objectives of the funds participating in the pools.

The SIB is responsible for establishing the selection criteria, determining the performance measures, and retaining all fund money managers. SIB is also responsible for the selection and retention of any investment consultants that may be employed in the investment of the Fund assets.

#### **Delegation of Authority**

Management responsibility for the investment program not assigned to the SIB in Chapter 21-10 of the North Dakota Century Code (NDCC) is hereby delegated to the SIB, who must establish written policies for the operation of the investment program, consistent with this investment policy.

Such procedures must provide for:

- 1. The definition and assignment of duties and responsibilities to advisory services and persons employed by the SIB pursuant to NDCC 21-10-02.1(1)(a).
- Investment diversification, investment quality, qualification of advisory services, and amounts to be invested by advisory services pursuant to NDCC 21-10-02.1(1)(e). In developing these policies, it is understood:
  - Futures and options may be used to hedge or replicate underlying index exposure, but not for speculation.
  - b. The use of derivatives will be monitored to ensure that risks are not taken by the money managers.
  - All assets must be held in custody by the SIB's master custodian or such other custodians as are acceptable to the SIB.
- 3. Guidelines for the selection and redemption of investments pursuant to NDCC 21-10-02.1(1)(d).
- 4. The criteria for making decisions with respect to hiring, retention, and termination of money managers will be clearly defined. This also includes selecting performance measurements, consultants, report formats, and frequency of meetings with money managers.

All participants in the investment process must seek to act responsibly as custodians of the public trust.

#### **Investment Goals**

The investment goals of the Fund have been established by the NDPERS Board based upon consideration of the Board's strategic objectives and a comprehensive review of the current and projected financial requirements. These goals are to be viewed over the long term.

Goal #1: Accumulate sufficient wealth through a diversified portfolio of investments which will enable the State of North Dakota to pay all current and future retirement benefits and expense obligations of the Fund.

Goal #2: To obtain an investment return in excess of that needed to allow for increases in a retiree's annuity to maintain the purchasing power of their retirement benefit.

The Board acknowledges the material impact that funding the pension plan has on the State's financial performance. To enable the State to continue offering secure pension benefits to plan participants, the Board believes that the Fund should pursue the following secondary goals:

- 1. Stabilize the employee and employer contributions needed to fund the Plan over the long term.
- 2. Avoid both substantial volatility in contributions and sizable fluctuations in the funding status of the Plan.

These two secondary goals affect the Fund's investment strategies and often represent conflicting goals. That is, minimizing the long-term funding costs implies a less conservative investment program, whereas dampening the volatility of contributions and avoiding large swings in the funding status implies a more conservative investment program. The Board places greater emphasis on the strategy of stabilizing the employee and employer contribution needed to fund the plan over the long term as it assists our participating employers by having a predictable contribution for budgeting.

#### **Investment Performance Objective**

The Board's investment objectives are expressed in terms of reward and risk expectations relative to investable, passive benchmarks. The Fund's policy benchmark is comprised of policy mix weights of appropriate asset class benchmarks as set by the SIB.

- 1. The Fund's rate of return, net of fees and expenses, should at least match that of the policy benchmark over a minimum evaluation period of five years.
- 2. The Fund's risk, measured by the standard deviation of net returns, should not exceed 115% of the policy benchmark over a minimum evaluation period of five years.
- 3. The risk-adjusted performance of the Fund, net of fees and expenses, should at least match that of the policy benchmark over a minimum evaluation period of five years.

#### Asset Allocation

In recognition of the plan's performance objectives, benefit projections, and capital market expectations, the NDPERS Board has established the following asset allocation:

Asset Class	Policy Target %	Rebalancing Range %
Global Equity	58	46-66
Public Equity	51	42-57
Private Equity	7	4-9
Global Fixed Income	23	16-30
Investment Grade	16	13-23
Non-investment Grade	7	3-7
Global Real Assets	19	10-25
Global Real Estate	11	5-15
Other (Infrastructure/Timber)	8	5-10
Global Alternatives		0-10
Cash		0-2

The Board does not endorse tactical asset allocation, therefore, it is anticipated the portfolio be managed as close to the policy target as is prudent and practicable. Any allocation to Global Alternatives shall not increase the expected volatility of the portfolio as measured in Section #5, and all other targets will be adjusted pro-rata.

PERS requires that in implementing this asset allocation that the State Investment Board seek to maximize return within the scope of these policies while limiting investment costs.

#### Restrictions

- A. Futures and options may be used to hedge or replicate underlying index exposure, but not for speculation.
- B. Use of derivatives will be monitored to ensure that undue risks are not taken by the money managers.
- C. No transaction may be made which threatens the tax exempt status of the Fund.
- D. No unhedged short sales or speculative margin purchases may be made.
- E. Social investing is prohibited unless it meets the Exclusive Benefit Rule and it can be substantiated that the investment must provide an equivalent or superior rate of return for a similar investment with a similar time horizon and similar risk.

Social Investing is defined as "The investment or commitment of public pension fund money for the purpose of obtaining an effect other than a maximized return to the intended beneficiaries."

F. Economically targeted investing is prohibited unless the investment meets the Exclusive Benefit Rule.

Economically targeted investing is defined as an investment designed to produce a competitive rate of

return commensurate with risk involved, as well as to create collateral economic benefits for a targeted geographic area, group of people, or sector of the economy.

The Exclusive Benefit Rule is met if the following four conditions are satisfied:

- (1) The cost does not exceed the fair market value at the time of investment.
- (2) The investment provides the Fund with an equivalent or superior rate of return for a similar investment with a similar time horizon and similar risk.
- (3) Sufficient liquidity is maintained in the Fund to permit distributions in accordance with the terms of the plan.
- (4) The safeguards and diversity that a prudent investor would adhere to are present.
- G. Publicly Traded REITs may not be used in the Real Estate asset allocation.

Where investment characteristics, including yield, risk, and liquidity are equivalent, the Board's policy favors investments which will have a positive impact on the economy of North Dakota.

#### **Internal Controls**

The SIB must have a system of internal controls to prevent losses of public funds arising from fraud or employee error. The controls deemed most important are the separation of responsibilities for investment purchases from the recording of investment activity, custodial safekeeping, written confirmation of investment transactions, and established criteria for broker relationships. The annual financial audit must include a comprehensive review of the portfolio, accounting procedures for security transactions and compliance with the investment policy.

#### Evaluation

Investment management of the Fund will be evaluated against the Fund's investment objectives and investment performance standards.

An annual performance report must be provided to the Board by the State Investment Officer at a regularly scheduled NDPERS Board meeting. The annual performance report must include asset returns and allocation data as well as information regarding all significant or material matters and changes pertaining to the investment of the Fund, including:

- Changes in asset class portfolio structures, tactical approaches and market values;
- All pertinent legal or legislative proceedings affecting the SIB:

- Compliance with these investment goals, objectives and policies;
- A general market overview and market expectations;
- A review of fund progress and its asset allocation strategy;
- A report on investment fees and the SIB's effort relating to Section 6. To measure investment cost PERS requires as part of the annual review information
- from CEM or other acceptable source showing the value added versus the cost;
- Changes/additions to benchmarks utilized to monitor the funds.

In addition, the State Investment Officer shall review with the Board the procedures and policies established by the SIB relating to this statement of investment goals, objectives and policies.

# Public Employees Retirement Fund Actual Asset Allocation – June 30, 2019

A A 11	Fair	Percent	One Year
Asset Allocation	Value	of Total	Return (net)
Global Equity	\$ 1,836,479,886	58.2%	4.41%
Public Equity	1,721,411,251	54.6%	4.20%
World Equity	521,177,858	16.5%	3.04%
Domestic Equity	693,540,590	22.0%	8.32%
Domestic Large Cap Equity	526,533,726	16.7%	10.13%
Domestic Small Cap Equity	167,006,864	5.3%	3.00%
International Equity	506,692,803	16.1%	-0.50%
Developed International Equity	378,386,730	12.0%	-0.88%
Emerging Markets Equity	128,306,073	4.1%	0.42%
Private Equity	115,068,635	3.6%	8.62%
Global Fixed Income	710,758,174	22.5%	7.78%
Investment Grade Fixed Income	493,108,442	15.6%	8.13%
Non-Investment Grade Fixed Income	217,649,732	6.9%	6.93%
Global Real Assets	587,057,252	18.6%	5.60%
Global Real Estate	368,351,098	11.7%	6.02%
Other	218,706,154	6.9%	4.86%
Timber	63,601,356	2.0%	4.10%
Infrastructure	155,104,798	4.9%	5.12%
Cash Equivalents	18,634,777	0.6%	2.31%
Total Fund	\$ 3,152,930,089		5.52%
Policy Benchmark			6.40%
•			
Columns may not foot due to rounding.			

# BISMARCK CITY EMPLOYEE PENSION PLAN

## Bismarck City Employee Pension Plan Investment Objectives and Policy Guidelines

#### Plan Characteristics and Fund Constraints

The Bismarck, North Dakota City Employee Pension Plan (BCEPP) is the pension benefit plan (Fund) established for the city of Bismarck public employees. The Fund is administered by the Bismarck City Employee Pension Plan Board of Trustees. The Fund is a defined benefit pension plan maintained to provide retirement benefits, and/or death benefits as may be the case, to the participants in accordance with Chapter 9-07 of the city of Bismarck Code of Ordinance (1986 revised). The Fund is administered in accordance with IRS and Treasury Regulations. The Fund was established to provide benefits to members eligible to receive them in accordance with the provisions of the Fund.

### Fund Goals

The plan benefits are financed through both employer and employee contributions and the investment earnings on assets held in the Fund. The BCEPP Board recognizes that a sound investment program is essential to meet the pension obligations.

As a result, the Fund goals are to:

- Improve the Plan's funding status to protect and sustain current and future benefits.
- Minimize the employee and employer contributions needed to fund the Plan over the long term.
- Avoid substantial volatility in required contribution rates and fluctuations in the Plan's funding status.
- Accumulate a funding surplus to provide increases in retiree annuity payments to preserve the purchasing power of their retirement benefit.

The BCEPP Board acknowledges the material impact that funding the pension plan has on the City's financial performance. These goals affect the Fund's investment strategies and often represent conflicting goals. For example, minimizing the long-term funding costs implies a less conservative investment program, whereas dampening the volatility of contributions and avoiding large swings in the funding status implies a more conservative investment program. The BCEPP Board places greater emphasis on the strategy of improving the funding status and reducing the contributions that must be made to the Fund, as it is most consistent with the long-term goal of conserving money to apply to other important projects.

# Responsibilities and Discretion of the State Investment Board (SIB)

The BCEPP Board has entered into a contract with the SIB for investment services as allowed under NDCC 21-10-06.

The BCEPP Board is responsible for establishing policies on investment goals and asset allocation of the Fund. The SIB is charged with implementing these policies and investing the assets of the Fund in the manner provided in NDCC 21-10-07, the prudent investor rule. Under this rule, the fiduciaries shall exercise the judgment and care, under the circumstances then prevailing, that an institutional investor of ordinary prudence, discretion, and intelligence exercises in the management of large investments entrusted to it, not in regard to speculation but in regard to the permanent disposition of funds, considering probable safety of capital as well as probable income. The Fund must be invested exclusively for the benefit of the members and their beneficiaries in accordance with this investment policy.

Management responsibility for the investment program not assigned to the SIB in Chapter 21-10 of the North Dakota Century Code (NDCC) is hereby delegated to the SIB, who must establish written policies for the operation of the investment program, consistent with this investment policy.

The SIB may delegate investment responsibility to professional money managers. Where a money manager has been retained, the SIB's role in determining investment strategy and security selection is supervisory not advisory.

At the discretion of the SIB, the Fund's assets may be pooled with other funds. In pooling funds, the SIB may establish whatever asset class pools it deems necessary with specific quality, diversification, restrictions, and performance objectives appropriate to the prudent investor rule and the objectives of the funds participating in the pools.

The SIB is responsible for establishing criteria, procedures, and making decisions with respect to hiring, keeping, and terminating money managers. SIB investment responsibility also includes selecting performance measurement services, consultants, report formats, and frequency of meetings with managers.

The SIB will implement changes to this policy as promptly as is prudent.

### Risk Tolerance

The BCEPP Board is unwilling to undertake investment strategies that might jeopardize the ability of the Fund to finance the pension benefits promised to plan participants.

However, funding the pension promise in an economical manner is critical to the City's ability to continue to provide pension benefits to plan participants. Thus, the BCEPP Board actively seeks to lower the cost of funding the plan's pension obligations by taking on risk for which it expects to be compensated over the long term. The BCEPP Board understands that a prudent investment approach to risk taking can result in periods of underperformance for the Fund in which the funding status may decline. These periods, in turn, can lead to higher required contribution rates. Nevertheless, the BCEPP Board believes that such an approach, prudently implemented, best serves the long-run interests of the City and, therefore, of plan participants.

## <u>Investment Objectives</u>

The BCEPP Board's investment objectives are expressed in terms of reward and risk expectations relative to investable, passive benchmarks. The Fund's policy benchmark is comprised of policy mix weights of appropriate asset class benchmarks as set by the SIB.

- 1. The Fund's rate of return, net of fees and expenses, should at least match that of the policy benchmark over a minimum evaluation period of five years.
- 2. The fund's risk, measured by the standard deviation of net returns, should not exceed 115% of the policy benchmark over a minimum evaluation period of five years.
- 3. The risk-adjusted performance of the fund, net of fees and expenses, should at least match that of the policy benchmark over a minimum evaluation period of five years.

### Policy Asset Mix

Benefit payments are projected to occur over a long period of time. This allows the BCEPP Board to adopt a longterm investment horizon and asset allocation policy for the management of fund assets. Asset allocation policy is critical because it defines the basic risk and return characteristics of the investment portfolio. Asset allocation targets are established using an asset-liability analysis designed to assist the BCEPP Board in determining an acceptable volatility target for the fund and an optimal asset allocation mix. This asset-liability analysis considers both sides of the plan balance sheet, utilizing both quantitative and qualitative inputs, in order to estimate the potential impact of various asset class mixes on key measures of total plan risk, including the resulting estimated impact of funded status and contribution rates. After consideration of all the inputs and a discussion of its own collective risk tolerance, the BCEPP Board approves the appropriate policy mix for the Fund.

Asset Class	Policy Target %
Global Equity	46
Public Equity	42
Private Equity	4
Global Fixed Income	34
Investment Grade	27
Non-investment Grade	7
Global Real Assets	20
Global Real Estate	12
Other	8

An allocation to Global Alternatives of up to 10% is authorized but shall not increase the expected volatility of the portfolio as measured in Section 5; and if utilized, all other targets will be adjusted pro-rata. The BCEPP Board does not endorse tactical asset allocation, therefore, it is anticipated the portfolio be managed as close to the policy target as is prudent and practicable while minimizing rebalancing costs. Rebalancing of the Fund to this target will be done in accordance with the SIB's rebalancing policy.

### Restrictions

While the SIB is responsible for establishing specific quality, diversification, restrictions, and performance objectives for the investment vehicles in which the Fund's assets will be invested, it is understood that:

- a. Futures and options may be used to hedge or replicate underlying index exposure, but not for speculation.
- b. Derivatives use will be monitored to ensure that undue risks are not taken by the money managers.
- c. No transaction shall be made which threatens the tax exempt status of the Fund.
- d. All assets will be held in custody by the SIB's master custodian or such other custodians as are acceptable to the SIB.
- No unhedged short sales or speculative margin purchases shall be made.
- f. Social investing is prohibited unless it meets the Exclusive Benefit Rule and it can be substantiated that the investment must provide an equivalent or superior rate of return for a similar investment with a similar time horizon and similar risk.

For the purpose of this document, Social Investing is defined as "The investment or commitment of public pension fund money for the purpose of obtaining an effect other than a maximized return to the intended beneficiaries."

g. Economically targeted investing is prohibited unless the investment meets the Exclusive Benefit Rule.

For the purpose of this document economically targeted investment is defined as an investment designed to produce a competitive rate of return commensurate with risk involved, as well as to create collateral economic benefits for a targeted geographic area, group of people, or sector of the economy.

Also, for the purpose of this document, the Exclusive Benefit Rule is met if the following four conditions are satisfied:

- (1) The cost does not exceed the fair market value at the time of investment.
- (2) The investment provides the Fund with an equivalent or superior rate of return for a similar investment with a similar time horizon and similar risk.
- (3) Sufficient liquidity is maintained in the Fund to permit distributions in accordance with the terms of the plan.
- (4) The safeguards and diversity that a prudent investor would adhere to are present.

Where investment characteristics, including yield, risk, and liquidity are equivalent, the BCEPP Board's policy favors investments which will have a positive impact on the economy of North Dakota.

### **Internal Controls**

A system of internal controls must be in place by the SIB to prevent losses of public funds arising from fraud or employee error. Such controls deemed most important are the separation of responsibilities for investment purchases from the recording of investment activity, custodial safekeeping, written confirmation of investment transactions, and established criteria for broker

relationships. The annual financial audit must include a comprehensive review of the portfolio, accounting procedures for security transactions and compliance with the investment policy.

### Evaluation and Review

Investment management of the Fund will be evaluated against the Fund's investment objectives and investment performance standards. Emphasis will be placed on three and five year results. Evaluation should include an assessment of the continued feasibility of achieving the investment objectives and the appropriateness of the Investment Policy Statement for achieving those objectives.

Performance reports will be provided to the BCEPP periodically, but not less than quarterly. Such reports will include asset returns and allocation data as well as information regarding all significant and/or material matters and changes pertaining to the investment of the Fund, including, but not limited to:

- A list of advisory services managing investments for the SIB.
- A list of investments at market value, compared to previous reporting period, of each account managed by each advisory service.
- Earnings, percentage earned, and change in market value of each account's investments.
- Comparison of the performance of each account managed by each advisory service to other accounts under the SIB's control and to generally accepted market indicators.
- All material legal or legislative proceedings affecting the SIB.
- Compliance with this investment policy.

# **❖** Bismarck City Employee Pension Plan Actual Asset Allocation − June 30, 2019

Asset Allocation	Fair Value	Percent of Total	One Year Return (net)
Global Equity	\$ 49,465,652	47.3%	4.06%
Public Equity	46,184,512	44.2%	3.74%
World Equity	17,316,030	16.6%	3.05%
Domestic Equity	16,968,400	16.2%	7.22%
Domestic Large Cap Equity	10,094,541	9.7%	10.11%
Domestic Small Cap Equity	6,873,859	6.6%	3.02%
International Equity	11,900,082	11.4%	-0.39%
Developed International Equity	8,319,494	8.0%	-0.85%
Emerging Markets Equity	3,580,588	3.4%	0.37%
Private Equity	3,281,140	3.1%	8.60%
Global Fixed Income	34,391,828	32.9%	7.93%
Investment Grade Fixed Income	27,314,333	26.1%	8.13%
Non-Investment Grade Fixed Income	7,077,495	6.8%	7.14%
Global Real Assets	20,335,279	19.5%	5.52%
Global Real Estate	12,302,200	11.8%	6.02%
Other	8,033,079	7.7%	4.81%
Timber	2,435,267	2.3%	4.10%
Infrastructure	5,597,812	5.4%	5.12%
Cash Equivalents	 324,487	0.3%	2.27%
Total Fund	\$ 104,517,246		5.94%
Policy Benchmark			6.33%
Columns may not foot due to rounding.			

# **BISMARCK CITY POLICE PENSION PLAN**

# **❖** Bismarck City Police Pension Plan Investment Objectives and Policy Guidelines

#### Plan Characteristics and Fund Constraints

The Bismarck, North Dakota City Police Pension Plan (BCPPP) is the pension benefit plan (Fund) established for the city of Bismarck police. The Fund is administered by the Bismarck City Police Pension Plan Board of Trustees. The Fund is a defined benefit pension plan maintained to provide retirement benefits, and/or death benefits as may be the case, to the participants in accordance with Chapter 9-08 of the city of Bismarck Code of Ordinance (1986 revised). The Fund is administered in accordance with IRS and Treasury Regulations. The Fund was established to provide benefits to members eligible to receive them in accordance with the provisions of the Fund.

### **Fund Goals**

The plan benefits are financed through both employer and employee contributions and the investment earnings on assets held in the Fund. The BCPPP Board recognizes that a sound investment program is essential to meet the pension obligations.

As a result, the Fund goals are to:

- Improve the Plan's funding status to protect and sustain current and future benefits.
- Minimize the employee and employer contributions needed to fund the Plan over the long term.
- Avoid substantial volatility in required contribution rates and fluctuations in the Plan's funding status.
- Accumulate a funding surplus to provide increases in retiree annuity payments to preserve the purchasing power of their retirement benefit.

The BCPPP Board acknowledges the material impact that funding the pension plan has on the City's financial performance. These goals affect the Fund's investment strategies and often represent conflicting goals. For example, minimizing the long-term funding costs implies a less conservative investment program, whereas dampening the volatility of contributions and avoiding large swings in the funding status implies a more conservative investment program. The BCPPP Board places greater emphasis on the strategy of improving the funding status and reducing the contributions that must be made to the Fund, as it is most consistent with the long-term goal of conserving money to apply to other important projects.

# Responsibilities and Discretion of the State Investment Board (SIB)

The BCPPP Board has entered into a contract with the SIB for investment services as allowed under NDCC 21-10-06. The BCPPP Board is responsible for establishing policies on investment goals and asset allocation of the Fund. The SIB is charged with implementing these policies and

investing the assets of the Fund in the manner provided in NDCC 21-10-07, the prudent investor rule. Under this rule, the fiduciaries shall exercise the judgment and care, under the circumstances then prevailing, that an institutional investor of ordinary prudence, discretion, and intelligence exercises in the management of large investments entrusted to it, not in regard to speculation but in regard to the permanent disposition of funds, considering probable safety of capital as well as probable income. The Fund must be invested exclusively for the benefit of the members and their beneficiaries in accordance with this investment policy.

Management responsibility for the investment program not assigned to the SIB in Chapter 21-10 of the North Dakota Century Code (NDCC) is hereby delegated to the SIB, who must establish written policies for the operation of the investment program, consistent with this investment policy.

The SIB may delegate investment responsibility to professional money managers. Where a money manager has been retained, the SIB's role in determining investment strategy and security selection is supervisory not advisory.

At the discretion of the SIB, the Fund's assets may be pooled with other funds. In pooling funds, the SIB may establish whatever asset class pools it deems necessary with specific quality, diversification, restrictions, and performance objectives appropriate to the prudent investor rule and the objectives of the funds participating in the pools.

The SIB is responsible for establishing criteria, procedures, and making decisions with respect to hiring, keeping, and terminating money managers. SIB investment responsibility also includes selecting performance measurement services, consultants, report formats, and frequency of meetings with managers.

The SIB will implement changes to this policy as promptly as is prudent.

### Risk Tolerance

The BCPPP Board is unwilling to undertake investment strategies that might jeopardize the ability of the Fund to finance the pension benefits promised to plan participants.

However, funding the pension promise in an economical manner is critical to the City's ability to continue to provide pension benefits to plan participants. Thus, the BCPPP Board actively seeks to lower the cost of funding the plan's pension obligations by taking on risk for which it expects to be compensated over the long term. The BCPPP Board understands that a prudent investment approach to risk taking can result in periods of under-performance for the Fund in which the funding status may decline. These periods, in turn, can lead to higher required contribution rates. Nevertheless, the BCPPP Board believes that such an

approach, prudently implemented, best serves the long-run interests of the City and, therefore, of plan participants.

## **Investment Objectives**

The BCPPP Board's investment objectives are expressed in terms of reward and risk expectations relative to investable, passive benchmarks. The Fund's policy benchmark is comprised of policy mix weights of appropriate asset class benchmarks as set by the SIB.

- The Fund's rate of return, net of fees and expenses, should at least match that of the policy benchmark over a minimum evaluation period of five years.
- 2. The fund's risk, measured by the standard deviation of net returns, should not exceed 115% of the policy benchmark over a minimum evaluation period of five years.
- 3. The risk-adjusted performance of the fund, net of fees and expenses, should at least match that of the policy benchmark over a minimum evaluation period of five years.

#### Policy Asset Mix

Benefit payments are projected to occur over a long period of time. This allows the BCPPP Board to adopt a long-term investment horizon and asset allocation policy for the management of fund assets. Asset allocation policy is critical because it defines the basic risk and return characteristics of the investment portfolio. Asset allocation targets are established using an asset-liability analysis designed to assist the BCPPP Board in determining an acceptable volatility target for the fund and an optimal asset allocation mix. This asset-liability analysis considers both sides of the plan balance sheet, utilizing both quantitative and qualitative inputs, in order to estimate the potential impact of various asset class mixes on key measures of total plan risk, including the resulting estimated impact of funded status and contribution rates. After consideration of all the inputs and a discussion of its own collective risk tolerance, the BCEPP Board approves the appropriate policy mix for the Fund.

Asset Class	Policy Target %
Global Equity	51
Public Equity	46
Private Equity	5
<b>Global Fixed Income</b>	29
Investment Grade	22
Non-investment Grade	7
<b>Global Real Assets</b>	20
Global Real Estate	12
Other	8

An allocation to Global Alternatives of up to 10% is authorized but shall not increase the expected volatility of the portfolio as measured in Section 5; and if utilized, all other targets will be adjusted pro-rata. The BCPPP Board does not

endorse tactical asset allocation, therefore, it is anticipated the portfolio be managed as close to the policy target as is prudent and practicable while minimizing rebalancing costs. Rebalancing of the Fund to this target will be done in accordance with the SIB's rebalancing policy.

### Restrictions

While the SIB is responsible for establishing specific quality, diversification, restrictions, and performance objectives for the investment vehicles in which the Fund's assets will be invested, it is understood that:

- a. Futures and options may be used to hedge or replicate underlying index exposure, but not for speculation.
- b. Derivatives use will be monitored to ensure that undue risks are not taken by the money managers.
- c. No transaction shall be made which threatens the tax exempt status of the Fund.
- d. All assets will be held in custody by the SIB's master custodian or such other custodians as are acceptable to the SIB.
- e. No unhedged short sales or speculative margin purchases shall be made.
- f. Social investing is prohibited unless it meets the Exclusive Benefit Rule and it can be substantiated that the investment must provide an equivalent or superior rate of return for a similar investment with a similar time horizon and similar risk.

For the purpose of this document, Social Investing is defined as "The investment or commitment of public pension fund money for the purpose of obtaining an effect other than a maximized return to the intended beneficiaries."

g. Economically targeted investing is prohibited unless the investment meets the Exclusive Benefit Rule.

For the purpose of this document economically targeted investment is defined as an investment designed to produce a competitive rate of return commensurate with risk involved, as well as to create collateral economic benefits for a targeted geographic area, group of people, or sector of the economy.

Also, for the purpose of this document, the Exclusive Benefit Rule is met if the following four conditions are satisfied:

- The cost does not exceed the fair market value at the time of investment.
- (2) The investment provides the Fund with an equivalent or superior rate of return for a similar investment with a similar time horizon and similar risk.
- (3) Sufficient liquidity is maintained in the Fund to permit distributions in accordance with the terms of the plan.
- (4) The safeguards and diversity that a prudent investor would adhere to are present.

Where investment characteristics, including yield, risk, and liquidity are equivalent, the BCPPP Board's policy

favors investments which will have a positive impact on the economy of North Dakota.

### **Internal Controls**

A system of internal controls must be in place by the SIB to prevent losses of public funds arising from fraud or employee error. Such controls deemed most important are the separation of responsibilities for investment purchases from the recording of investment activity, custodial safekeeping, written confirmation of investment transactions, and established criteria for broker relationships. The annual financial audit must include a comprehensive review of the portfolio, accounting procedures for security transactions and compliance with the investment policy.

### Evaluation and Review

Investment management of the Fund will be evaluated against the Fund's investment objectives and investment performance standards. Emphasis will be placed on three and five year results. Evaluation should include an assessment of the continued feasibility of achieving the investment objectives and the appropriateness of the Investment Policy Statement for achieving those objectives.

Performance reports will be provided to the BCEPP periodically, but not less than quarterly. Such reports will include asset returns and allocation data as well as information regarding all significant and/or material matters and changes pertaining to the investment of the Fund, including, but not limited to:

- A list of advisory services managing investments for the SIB.
- A list of investments at market value, compared to previous reporting period, of each account managed by each advisory service.
- Earnings, percentage earned, and change in market value of each account's investments.
- Comparison of the performance of each account managed by each advisory service to other accounts under the SIB's control and to generally accepted market indicators.
- All material legal or legislative proceedings affecting the SIB.
- Compliance with this investment policy.

# Bismarck City Police Pension Plan Actual Asset Allocation – June 30, 2019

Asset Allocation	Fair Value	Percent of Total	One Year Return (net)
Global Equity	\$ 21,915,120	52.3%	4.13%
Public Equity	20,092,127	48.0%	3.74%
World Equity	6,916,509	16.5%	3.05%
Domestic Equity	7,646,540	18.3%	7.18%
Domestic Large Cap Equity	4,507,036	10.8%	10.11%
Domestic Small Cap Equity	3,139,504	7.5%	3.02%
International Equity	5,529,078	13.2%	-0.35%
Developed International Equity	3,731,549	8.9%	-0.85%
Emerging Markets Equity	1,797,529	4.3%	0.37%
Private Equity	1,822,993	4.4%	8.60%
Global Fixed Income	11,746,832	28.1%	7.89%
Investment Grade Fixed Income	8,886,887	21.2%	8.13%
Non-Investment Grade Fixed Income	2,859,945	6.8%	7.14%
Global Real Assets	8,120,972	19.4%	5.44%
Global Real Estate	4,935,123	11.8%	6.02%
Other	3,185,849	7.6%	4.71%
Timber	1,088,078	2.6%	4.10%
Infrastructure	2,097,771	5.0%	5.12%
Cash Equivalents	80,051	0.2%	2.27%
Total Fund	\$ 41,862,975		5.76%
Policy Benchmark	 		6.14%
Columns may not foot due to rounding.			

# CITY OF GRAND FORKS PENSION PLAN

## **❖** City of Grand Forks Pension Plan Investment Objectives and Policy Guidelines

### Plan Characteristics and Fund Constraints

The City of Grand Forks Pension Fund (the "Fund") is operated by the Grand Forks City Council pursuant to the authority granted in the Grand Forks City Code Chapter 7.

The City of Grand Forks, North Dakota Pension Plan (the "Plan") is a cost-sharing multiple employer public employee pension plan. All classified employees who earned at least one hour of service prior to January 1, 1996 are eligible to participate in the Plan. Some participants have elected to cease benefit accruals under the Plan as of June 30, 2008 and to participate in the North Dakota Public Employees Retirement System.

Benefit provisions are established by the City Council. The employers contribute such amounts as necessary to provide the promised benefits. The contribution amounts are determined by the annual valuation report and approved by the City Council.

### **Fund Goals**

The plan benefits are financed through both employer and employee contributions and the investment earnings on assets held in the Fund. The City Council recognizes that a sound investment program is essential to meet the pension obligations.

As a result, the Fund goals are to:

- Improve the Plan's funding status to protect and sustain current and future benefits.
- Minimize the employee and employer contributions needed to fund the Plan over the long term.
- Avoid substantial volatility in required contribution rates and fluctuations in the Plan's funding status.
- Accumulate a funding surplus to provide increases in retiree annuity payments to preserve the purchasing power of their retirement benefit.

The City Council acknowledges the material impact that funding the pension plan has on the City's financial performance. These goals affect the Fund's investment strategies and often represent conflicting goals. For example, minimizing the long-term funding costs implies a less conservative investment program, whereas dampening the volatility of contributions and avoiding large swings in the funding status implies a more conservative investment program. The City Council places greater emphasis on the strategy of improving the funding status and reducing the contributions that must be made to the Fund, as it is most consistent with the long- term goal of conserving money to apply to other important projects.

# $\underline{Responsibilities \ and \ Discretion \ of \ the \ State \ Investment \ Board} \ (\underline{SIB})$

The City Council has entered into a contract with the SIB for investment services as allowed under NDCC 21-10-06. The City Council is responsible for establishing policies on investment goals and asset allocation of the Fund. The SIB is

charged with implementing these policies and investing the assets of the Fund in the manner provided in NDCC 21-10-07, the prudent investor rule. Under this rule, the fiduciaries shall exercise the judgment and care, under the circumstances then prevailing, that an institutional investor of ordinary prudence, discretion, and intelligence exercises in the management of large investments entrusted to it, not in regard to speculation but in regard to the permanent disposition of funds, considering probable safety of capital as well as probable income. The Fund must be invested exclusively for the benefit of the members and their beneficiaries in accordance with this investment policy.

Management responsibility for the investment program not assigned to the SIB in Chapter 21-10 of the North Dakota Century Code (NDCC) is hereby delegated to the SIB, who must establish written policies for the operation of the investment program, consistent with this investment policy.

The SIB may delegate investment responsibility to professional money managers. Where a money manager has been retained, the SIB's role in determining investment strategy and security selection is supervisory, not advisory.

At the discretion of the SIB, the Fund's assets may be pooled with other funds. In pooling funds, the SIB may establish whatever asset class pools it deems necessary with specific quality, diversification, restrictions, and performance objectives appropriate to the prudent investor rule and the objectives of the funds participating in the pools.

The SIB is responsible for establishing criteria, procedures, and making decisions with respect to hiring, keeping, and terminating money managers. SIB investment responsibility also includes selecting performance measurement services, consultants, report formats, and frequency of meetings with managers.

The SIB will implement changes to this policy as promptly as is prudent.

## Risk Tolerance

The City Council is unwilling to undertake investment strategies that might jeopardize the ability of the Fund to finance the pension benefits promised to plan participants. However, funding the pension promise in an economical manner is critical to the City Council's ability to continue to provide pension benefits to plan participants. Thus, the City Council actively seeks to lower the cost of funding the plan's pension obligations by taking on risk for which it expects to be compensated over the long term. The City Council understands that a prudent investment approach to risk taking can result in periods of under-performance for the Fund in which the funding status may decline. These periods, in turn, can lead to higher required contribution rates. Nevertheless, the City Council believes that such an approach, prudently implemented, best serves the long-run interests of the City and, therefore, of plan participants.

### **Investment Objectives**

The City Council's investment objectives are expressed in terms of reward and risk expectations relative to investable, passive benchmarks. The Fund's policy benchmark is comprised of policy mix weights of appropriate asset class benchmarks as set by the SIB.

- 1. The fund's rate of return, net of fees and expenses, should at least match that of the policy benchmark over a minimum evaluation period of five years.
- 2. The fund's risk, measured by the standard deviation of net returns, should not exceed 115% of the policy benchmark over a minimum evaluation period of five years.
- 3. The risk-adjusted performance of the fund, net of fees and expenses, should at least match that of the policy benchmark over a minimum evaluation period of five years.

## Policy Asset Mix

Benefit payments are projected to occur over a long period of time. This allows the City Council to adopt a long-term investment horizon and asset allocation policy for the management of fund assets. Asset allocation policy is critical because it defines the basic risk and return characteristics of the investment portfolio. Asset allocation targets are established using an asset-liability analysis designed to assist the City Council in determining an acceptable volatility target for the fund and an optimal asset allocation policy mix. This assetliability analysis considers both sides of the plan balance sheet, utilizing both quantitative and qualitative inputs, in order to estimate the potential impact of various asset class mixes on key measures of total plan risk, including the resulting estimated impact of funded status and contribution rates. After consideration of all the inputs and a discussion of its own collective risk tolerance, the City Council approves the appropriate policy asset mix for the Fund.

Asset Class	Policy Target %
Global Equity	60
Public Equity	55
Private Equity	5
Global Fixed Income	24
Investment Grade	17
Non-investment Grade	7
Global Real Assets	15
Global Real Estate	7
Other	8
Cash	1

An allocation to Global Alternatives of up to 10% is authorized but shall not increase the expected volatility of the portfolio as measured in Section 5; and if utilized, all other targets will be adjusted pro-rata. The City Council does not endorse tactical asset allocation, therefore, it is anticipated the portfolio be managed as close to the policy target as is prudent and practicable while minimizing rebalancing costs. Rebalancing of the Fund to this target will be done in accordance with the SIB's

rebalancing policy.

### Restrictions

- a. Futures and options may be used to hedge or replicate underlying index exposure, but not for speculation.
- b. Use of derivatives will be monitored to ensure that undue risks are not taken by the money managers.
- No transaction may be made which threatens the tax exempt status of the Fund.
- d. No unhedged short sales or speculative margin purchases may be made.
- e. Social investing is prohibited unless it meets the Exclusive Benefit Rule and it can be substantiated that the investment must provide an equivalent or superior rate of return for a similar time horizon and similar risk.
  - Social Investing is defined as "The investment or commitment of public pension fund money for the purpose of obtaining an effect other than a maximized return to the intended beneficiaries."
- f. Economically targeted investing is prohibited unless the investment meets the Exclusive Benefit Rule.

Economically targeted investing is defined as an investment designed to produce a competitive rate of return commensurate with risk involved, as well as to create collateral economic benefits for a targeted geographic area, group of people, or sector of the economy.

The Exclusive Benefit Rule is met if the following four conditions are satisfied:

- (1) The cost does not exceed the fair market value at the time of investment.
- (2) The investment provides the Fund with an equivalent or superior rate of return for a similar investment with a similar time horizon and similar risk.
- (3) Sufficient liquidity is maintained in the Fund to permit distributions in accordance with the terms of the Plan.
- (4) The safeguards and diversity that a prudent investor would adhere to are present.

Where investment characteristics, including yield, risk, and liquidity are equivalent, the City Council's policy favors investments which will have a positive impact on the economy of North Dakota.

### **Internal Controls**

A system of internal controls must be in place by the SIB to prevent losses of public funds arising from fraud or employee error. Such controls deemed most important are the separation of responsibilities for investment purchases from the recording of investment activity, custodial safekeeping, written confirmation of investment transactions, and established criteria for investment manager selection and monitoring. The annual financial audit must include a comprehensive review of the portfolio, accounting procedures for security transactions and compliance with the investment policy.

### Evaluation and Review

Investment management of the Fund will be evaluated against the Fund's investment objectives. Emphasis will be placed on five year results. Evaluation should include an assessment of the continued feasibility of achieving the investment objectives and the appropriateness of the Investment Policy Statement for achieving those objectives.

Performance reports will be provided to the City Council periodically, but not less than annually. Such reports will include asset returns and allocation data as well as information regarding all significant and/or material matters and changes pertaining to the investment of the Fund, including, but not limited to:

- A list of the advisory services managing investments for the SIB
- 2. A list of investments at market value, compared to previous reporting period, of each account managed by each advisory service.
- Earnings, percentage earned, and change in market value of each account's investments.
- 4. Comparison of the performance of each account managed by each advisory service to other accounts under the SIB's control and to generally accepted market indicators.
- All material legal or legislative proceedings affecting the SIB.
- 6. Compliance with this investment policy statement.

## City of Grand Forks Pension Plan Actual Asset Allocation – June 30, 2019

Asset Allocation	Fair Value	Percent of Total	One Year Return (net)
Asset Anocation	 value	<u> or rotar</u>	Return (net)
Global Equity	\$ 41,942,255	61.3%	5.33%
Public Equity	38,680,958	56.5%	5.08%
World Equity	11,229,505	16.4%	3.05%
Domestic Equity	19,953,555	29.2%	8.30%
Domestic Large Cap Equity	14,858,703	21.7%	10.11%
Domestic Small Cap Equity	5,094,852	7.4%	3.02%
International Equity	7,497,898	11.0%	-0.34%
Developed International Equity	4,934,922	7.2%	-0.85%
Emerging Markets Equity	2,562,976	3.7%	0.37%
Private Equity	3,261,297	4.8%	8.60%
Global Fixed Income	15,893,066	23.2%	7.78%
Investment Grade Fixed Income	11,215,425	16.4%	8.13%
Non-Investment Grade Fixed Income	4,677,641	6.8%	6.92%
Global Real Assets	9,929,951	14.5%	5.39%
Global Real Estate	4,723,985	6.9%	6.02%
Other	5,205,966	7.6%	4.80%
Timber	1,730,039	2.5%	4.10%
Infrastructure	3,475,927	5.1%	5.12%
Cash Equivalents	654,029	1.0%	2.27%
Total Fund	\$ 68,419,301		6.17%
Policy Benchmark			6.51%
Columns may not foot due to rounding.			

# PARK DISTRICT OF THE CITY OF GRAND FORKS PENSION PLAN

# **❖** Park District of the City of Grand Forks Pension Plan Investment Objectives and Policy Guidelines

### Plan Characteristics and Fund Constraints

The Park District of the City of Grand Forks, North Dakota Pension Plan (the "Plan") is a cost-sharing public employee pension plan operated by The Park District of the City of Grand Forks, North Dakota (the "District") which serves as the Plan Administrator ("Administrator") and Plan Sponsor ("Sponsor"). All employees are required to participate in the Plan. Some participants have elected to cease benefit accruals under the Plan as of January 1, 2010 and to participate in the North Dakota Public Employees Retirement System ("NDPERS") pension plan. All future hires after December 31, 2009, will be required to participate in the NDPERS plan. The investment assets of the Plan are held within the Plan Fund ("Fund").

Benefit provisions are established by the Park Board ("Board") of the Sponsor. The employers contribute such amounts as necessary to provide the promised benefits. The contribution amounts are determined by the annual actuarial valuation report and approved by the Board.

### Fund Goals

The plan benefits are financed through both employer and employee contributions and the investment earnings on assets held in the Fund. The Board recognizes that a sound investment program is essential to meet the pension obligations.

As a result, the Fund goals are to:

- Improve the Plan's funding status to protect and sustain current and future benefits.
- Minimize the employee and employer contributions needed to fund the Plan over the long term.
- Avoid substantial volatility in required contribution rates and fluctuations in the Plan's funding status.
- Accumulate a funding surplus to provide increases in retiree annuity payments to preserve the purchasing power of their retirement benefit.

The Board acknowledges the material impact that funding the pension plan has on the District's financial performance. These goals affect the Fund's investment strategies and often represent conflicting goals. For example, minimizing the long-term funding costs implies a less conservative investment program, whereas dampening the volatility of contributions and avoiding large swings in the funding status implies a more conservative investment program. The Board places greater emphasis on the strategy of improving the funding status and reducing the contributions that must be made to the Fund, as it is most consistent with the long-term goal of conserving money to apply to other important projects.

# Responsibilities and Discretion of the State Investment Board (SIB)

The Board has entered into a contract with the SIB for

investment services as allowed under NDCC 21-10-06. The Board is responsible for establishing policies on investment goals and asset allocation of the Fund. The SIB is charged with implementing these policies and investing the assets of the Fund in the manner provided in NDCC 21-10-07, the prudent investor rule. Under this rule, the fiduciaries shall exercise the judgment and care, under the circumstances then prevailing, that an institutional investor of ordinary prudence, discretion, and intelligence exercises in the management of large investments entrusted to it, not in regard to speculation but in regard to the permanent disposition of funds, considering probable safety of capital as well as probable income. The Fund must be invested exclusively for the benefit of the members and their beneficiaries in accordance with this investment policy.

Management responsibility for the investment program not assigned to the SIB in Chapter 21-10 of the North Dakota Century Code (NDCC) is hereby delegated to the SIB, who must establish written policies for the operation of the investment program, consistent with this investment policy.

The SIB may delegate investment responsibility to professional money managers. Where a money manager has been retained, the SIB's role in determining investment strategy and security selection is supervisory, not advisory.

At the discretion of the SIB, the Fund's assets may be pooled with other funds. In pooling funds, the SIB may establish whatever asset class pools it deems necessary with specific quality, diversification, restrictions, and performance objectives appropriate to the prudent investor rule and the objectives of the funds participating in the pools.

The SIB is responsible for establishing criteria, procedures, and making decisions with respect to hiring, keeping, and terminating money managers. SIB investment responsibility also includes selecting performance measurement services, consultants, report formats, and frequency of meetings with managers.

The SIB will implement changes to this policy as promptly as is prudent.

## Risk Tolerance

The Board is unwilling to undertake investment strategies that might jeopardize the ability of the Fund to finance the pension benefits promised to plan participants. However, funding the pension promise in an economical manner is critical to the Board's ability to continue to provide pension benefits to plan participants. Thus, the Board actively seeks to lower the cost of funding the plan's pension obligations by taking on risk for which it expects to be compensated over the long term. The Board understands that a prudent investment approach to risk taking can result in periods of under-performance for the Fund in which the funding status may decline. These periods, in turn, can lead to higher required contribution rates. Nevertheless, the Board believes that such an approach, prudently implemented, best serves the long-run interests of the District and, therefore, of plan participants.

### **Investment Objectives**

The Board's investment objectives are expressed in terms of reward and risk expectations relative to investable, passive benchmarks. The Fund's policy benchmark is comprised of policy mix weights of appropriate asset class benchmarks as set by the SIB.

- 1. The fund's rate of return, net of fees and expenses, should at least match that of the policy benchmark over a minimum evaluation period of five years.
- 2. The fund's risk, measured by the standard deviation of net returns, should not exceed 115% of the policy benchmark over a minimum evaluation period of five years.
- 3. The risk-adjusted performance of the fund, net of fees and expenses, should at least match that of the policy benchmark over a minimum evaluation period of five years.

### Policy Asset Mix

Benefit payments are projected to occur over a long period of time. This allows the Board to adopt a long-term investment horizon and asset allocation policy for the management of fund assets. Asset allocation policy is critical because it defines the basic risk and return characteristics of the investment portfolio. Asset allocation targets are established using an asset-liability analysis designed to assist the Board in determining an acceptable volatility target for the fund and an optimal asset allocation policy mix. This asset-liability analysis considers both sides of the plan balance sheet, utilizing both quantitative and qualitative inputs, in order to estimate the potential impact of various asset class mixes on key measures of total plan risk, including the resulting estimated impact of funded status and contribution rates. After consideration of all the inputs and a discussion of its own collective risk tolerance, the Board approves the appropriate policy asset mix for the Fund.

Asset Class	Policy Target %
<b>Global Equity</b>	54.5
Public Equity	60
Domestic Equity	27
Large	22
Small	5
International Equity	25.5
Developed	10
Emerging	10
Private Equity	7.5
<b>Global Fixed Income</b>	25.5
Investment Grade	18
Non-Investment Grade	7.5
<b>Global Real Assets</b>	20
Global Real Estate	10
Other	10

An allocation to Global Alternatives of up to 10% is authorized but shall not increase the expected volatility of the portfolio as measured in Section 5; and if utilized, all other targets will be adjusted pro-rata. The Board does not endorse tactical asset allocation, therefore, it is anticipated the portfolio be managed as close to the policy target as is prudent and practicable while minimizing rebalancing costs. Rebalancing of the Fund to this target will be done in accordance with the SIB's rebalancing policy.

### Restrictions

- a. Futures and options may be used to hedge or replicate underlying index exposure, but not for speculation.
- b. Derivatives use will be monitored to ensure that undue risks are not taken by the money managers.
- No transaction may be made which threatens the tax exempt status of the Fund.
- d. All assets will be held in custody by the SIB's master custodian or such other custodians as are acceptable to the SIB.
- e. No unhedged short sales or speculative margin purchases may be made.
- f. Social investing is prohibited unless it meets the Exclusive Benefit Rule and it can be substantiated that the investment must provide an equivalent or superior rate of return for a similar time horizon and similar risk.

For the purpose of this document, social investing is defined as the consideration of socially responsible criteria in the investment or commitment of public fund money for the purpose of obtaining an effect other than a maximized return of the Fund.

g. Economically targeted investing is prohibited unless the investment meets the Exclusive Benefit Rule.

For the purpose of this document economically targeted investment is defined as an investment designed to produce a competitive rate of return commensurate with risk involved, as well as to create collateral economic benefits for a targeted geographic area, group of people, or sector of the economy.

Also for the purpose of this document, the Exclusive Benefit Rule is met if the following four conditions are satisfied:

- (1) The cost does not exceed the fair market value at the time of investment.
- (2) The investment provides the Fund with an equivalent or superior rate of return for a similar investment with a similar time horizon and similar risk.
- (3) Sufficient liquidity is maintained in the Fund to permit distributions in accordance with the terms of the Plan.
- (4) The safeguards and diversity that a prudent investor would adhere to are present.

Where investment characteristics, including yield, risk, and liquidity are equivalent, the City Council's policy favors investments which will have a positive impact on the economy of North Dakota.

### **Internal Controls**

A system of internal controls must be in place by the SIB to prevent losses of public funds arising from fraud or employee error. Such controls deemed most important are the separation of responsibilities for investment purchases from the recording of investment activity, custodial safekeeping, written confirmation of investment transactions, and established criteria for investment manager selection and monitoring. The annual financial audit must include a comprehensive review of the portfolio, accounting procedures for security transactions and compliance with the investment policy.

## **Evaluation and Review**

Investment management of the Fund will be evaluated against the Fund's investment objectives. Emphasis will be placed on five year results. Evaluation should include an assessment of the continued feasibility of achieving the investment objectives and the appropriateness of the Investment Policy Statement for achieving those objectives.

Performance reports will be provided to the Board periodically, but not less than annually. Such reports will include asset returns and allocation data as well as information regarding all significant and/or material matters and changes pertaining to the investment of the Fund, including, but not limited to:

- A list of the advisory services managing investments for the SIB.
- A list of investments at market value, compared to previous reporting period, of each account managed by each advisory service.
- 3. Earnings, percentage earned, and change in market value of each account's investments.
- 4. Comparison of the performance of each account managed by each advisory service to other accounts under the SIB's control and to generally accepted market indicators.
- All material legal or legislative proceedings affecting the SIB
- 6. Compliance with this investment policy statement.

# **❖**Park District of the City of Grand Forks Pension Fund Actual Asset Allocation – June 30, 2019

Asset Allocation	Fair Value	Percent of Total	One Year Return (net)
Global Equity	\$ 4,002,527	55.8%	6.18%
Public Equity	3,692,142	51.4%	6.00%
World Equity	1,217,524	17.0%	3.05%
Domestic Equity	1,409,046	19.6%	9.05%
Domestic Large Cap Equity	1,112,437	15.5%	10.11%
Domestic Small Cap Equity	296,609	4.1%	3.02%
International Equity	1,065,572	14.8%	0.63%
Developed International Equity	543,860	7.6%	-0.85%
Emerging Markets Equity	521,712	7.3%	0.37%
Private Equity	310,385	4.3%	8.60%
Global Fixed Income	1,765,405	24.6%	7.14%
Investment Grade Fixed Income	1,242,311	17.3%	8.13%
Non-Investment Grade Fixed Income	523,094	7.3%	*
Global Real Assets	1,393,512	19.4%	5.59%
Global Real Estate	707,327	9.9%	6.02%
Other	686,185	9.6%	5.16%
Timber	144,166	2.0%	4.10%
Infrastructure	542,019	7.6%	5.12%
Cash Equivalents	14,983	0.2%	2.27%
Total Fund	\$ 7,176,427		6.02%
Policy Benchmark			6.65%
Columns may not foot due to rounding.			

# WORKFORCE SAFETY & INSURANCE FUND

## \*Workforce Safety & Insurance Fund Investment Objectives and Policy Guidelines

#### Introduction

North Dakota Workforce Safety & Insurance (WSI) is an exclusive state workers' compensation fund (Fund), which exists for the mutual benefit of North Dakota employers and employees. The assets of the Fund are utilized to pay benefits to injured workers or their survivors.

Section 65-04-01 of the North Dakota Century Code requires WSI to establish premium rates for funding sufficiently high to provide for:

- The payment of the expenses of administration of the organization,
- 2. The payment of compensation according to the provisions and schedules contained in this title, and
- 3. The maintenance by the Fund of adequate reserves and surplus to the end that it may be kept at all times in an entirely solvent condition.

## Responsibilities of the North Dakota State Investment Board (SIB)

The governing body of WSI is charged by law under NDCC 21-10-02.1 with the responsibility of establishing policies on investment goals and asset allocation of the Fund. WSI fulfills this responsibility through its Board of Directors, under the oversight and approval of the Governor. The SIB is charged with implementing these policies and asset allocation and investing the assets of the Fund in a manner consistent with the prudent investor rule as provided in NDCC 21-10-07. The Fund must be invested exclusively for the benefit of the members and their beneficiaries in accordance with this investment policy.

At the discretion of the SIB, the Fund's assets may be pooled with other funds. In pooling funds, the SIB may establish whatever asset class pools it deems necessary with specific quality, diversification, restrictions, and performance objectives appropriate to the prudent investor rule and the objectives of the funds participating in the pools.

The SIB may delegate investment responsibility to professional money managers. Where a money manager has been retained, the SIB's role in determining investment strategy and security selection is supervisory not advisory.

The SIB is responsible for establishing criteria, procedures, and making decisions with respect to hiring, keeping, and terminating money managers. SIB investment responsibility also includes selecting performance measurement services, consultants, report formats, and frequency of meetings with managers.

The SIB will implement changes to this policy as promptly as is prudent.

### **Investment Objectives**

The investment goal of WSI is to supplement premiums, through various investments, to accomplish its statutory obligations.

The following investment objectives are established as of the date adopted and are in keeping with the fiduciary requirements as set forth in federal and state law and as expected by the members. WSI expects to receive results from the SIB that are consistent with the policies included herein. These objectives and guidelines will provide a basis for evaluating the effectiveness of the investment program over time. It is clearly understood these objectives and standards are to be viewed over the long term and have been established after full consideration of all factors set out in the Statement of Investment Policy.

The operating and liquidity needs of WSI are generally to be met by the cash equivalents allocation.

Funds in excess of those required for operating and liquidity needs will be invested in domestic equity, international equity, real estate and fixed income securities. The objective of these assets is to obtain the maximum total return on investments consistent with safety of principal on funds in excess of those required for operating and liquidity needs.

### Standards of Investment Performance

The Fund's investment objectives and characteristics give rise to an asset allocation that is considered to have greater than a 50% probability of achieving the results desired. For evaluation purposes, the following performance targets will apply:

- a. The rate of return, net of fees and expenses, should at least match that of the policy portfolio, over a minimum evaluation period of five years.
- b. Risk, as measured by the annual standard deviation of net returns for the Fund, should not exceed that of the policy portfolio by more than 100 basis points over a minimum evaluation period of five years.

c. Risk adjusted excess returns of the Fund, net of fees and expenses, should match or exceed the policy benchmark over a minimum evaluation period of five years.

### Policy and Guidelines

The asset allocation policy developed herein is based on an evaluation of WSI's ability and willingness to assume investment risk in light of WSI's financial goals and objectives. In recognition of these goals and objectives, coupled with a liability-sensitive asset allocation study conducted by Callan Associates in April of 2014, the following asset allocation is deemed appropriate for WSI. The portfolio mix shall be in accordance with the following asset allocation and periodically reviewed by WSI.

	Target
Asset Class	<u>Allocation</u>
Global Equity	22%
Large Cap Equity	11%
Small Cap Equity	3%
International Equity	8%
Global Fixed Income	60%
Domestic Fixed Income	60%
Global Real Assets	17%
Diversified Real Assets	12%
TIPS	9%
Infrastructure/Timber	3%
Real Estate	5%
Cash Equivalents	1%

Rebalancing of the Fund to this target will be done in accordance with the SIB's rebalancing policy, but not less than annually.

While the SIB is responsible for establishing specific quality, diversification, restrictions, and performance objectives for the investment vehicles in which the Fund's assets will be invested, it is understood that:

- a. Futures and options may be used to hedge or replicate underlying index exposure, but not for speculation.
- b. Derivatives use will be monitored to ensure that undue risks are not taken by the money managers.
- c. No transaction shall be made which threatens the tax exempt status of the Fund.
- d. All assets will be held in custody by the SIB's master custodian or such other custodians as are acceptable to the SIB.
- e. No unhedged short sales or speculative margin purchases shall be made.
- f. Social investing is prohibited unless it meets the Exclusive Benefit Rule and it can be substantiated that the investment must provide an equivalent or superior

rate of return for a similar investment with a similar time horizon and similar risk.

For the purpose of this document, Social Investing is defined as "The investment or commitment of public fund money for the purpose of obtaining an effect other than a maximized return to the intended beneficiaries."

g. Economically targeted investing is prohibited unless the investment meets the Exclusive Benefit Rule.

For the purpose of this document economically targeted investment is defined as an investment designed to produce a competitive rate of return commensurate with risk involved, as well as to create collateral economic benefits for a targeted geographic area, group of people, or sector of the economy.

Also, for the purpose of this document, the Exclusive Benefit Rule is met if the following four conditions are satisfied:

- (1) The cost does not exceed the fair market value at the time of investment.
- (2) The investment provides the Fund with an equivalent or superior rate of return for a similar investment with a similar time horizon and similar risk.
- (3) Sufficient liquidity is maintained in the Fund to permit distributions in accordance with the terms of the plan.
- (4) The safeguards and diversity that a prudent investor would adhere to are present.

Where investment characteristics, including yield, risk, and liquidity are equivalent, the Board's policy favors investments which will have a positive impact on the economy of North Dakota.

### Evaluation and Review

Investment management of the Fund will be evaluated against the Fund's investment objectives and investment performance standards. Evaluation will be conducted quarterly by the SIB through its review of funds participating in the Insurance Trust.

Money managers will be evaluated by the SIB quarterly. Instate meetings will be held with the money managers at least annually.

# **❖**Workforce Safety & Insurance Fund Actual Asset Allocation − June 30, 2019

		Fair	Percent	One Year	
Asset Allocation		Value	of Total	Return (net)	
Global Equity	\$	462,919,902	22.4%	2.64%	
Domestic Large Cap Equity		232,923,118	11.3%	8.40%	
Domestic Small Cap Equity		61,960,470	3.0%	-5.28%	
International Equity		168,036,314	8.1%	-2.37%	
Global Fixed Income		1,242,883,913	60.2%	8.99%	
Global Real Assets		343,407,583	16.6%	4.51%	
Diversified Real Assets		242,302,112	11.7%	4.08%	
Real Estate		101,105,471	4.9%	5.15%	
Cash Equivalents		16,189,004	0.8%	2.17%	
Total Fund	\$	2,065,400,402		6.87%	
Policy Benchmark				7.05%	
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# STATE FIRE AND TORNADO FUND

# **❖State Fire and Tornado Fund**Investment Objectives and Policy Guidelines

#### Fund Characteristics and Constraints

The State Fire and Tornado Fund (the Fund) was established in 1919 to insure the various state industries and political subdivisions against direct physical loss to public buildings, fixtures, and permanent contents due to the perils named in 26.1-22-02 of the North Dakota Century Code (NDCC). All state buildings and universities must be covered by the Fund. School districts and counties may participate at their option. Funding is primarily provided by annual premiums charged to policy holders in accordance with NDCC 26.1-22.

Effective August 1993, the state's boiler inspection program was placed under the direction of the Insurance Department. The costs of this program are appropriated from the Fund. Fees collected for boiler inspections and licensing will be the primary source of funding for the program. The 1995 Legislature added anhydrous ammonia storage facilities to the Fund's inspection responsibilities.

A minimum balance of \$12.0 million must be maintained at all times. If reserves drop below this statutory minimum, additional premiums, as specified under NDCC 26.1-22, would be assessed. This situation must be avoided.

The Fund retains liability for the first \$1 million on each and every loss. Any loss over this amount, up to a maximum of \$100 million, is covered by reinsurance through a commercial reinsurance carrier. Reinsurance coverage is bid by the Insurance Department at least once every two years.

Claims paid from the Fund are highly unpredictable. Weather damage accounts for the majority of claims. Fires generally result in the most extensive damage. Generally, there is a two week lead time to prepare for a claim payment. Large claim payments have a longer lead time and are spread out in multiple payments whenever possible.

Operating expenses are paid from the Fund as incurred. These include Fund administration, boiler inspection program, anhydrous ammonia storage facility inspections, State Fire Marshall's Office, and North Dakota Firefighter's Association.

### **Fund Mission**

The primary mission of the Fund is to maintain an adequate balance in the Fund to avoid the necessity of assessing additional premiums to policy holders.

# Responsibilities and Discretion of the State Investment Board (SIB)

The Fund is charged by law under NDCC 21-10-02.1 with the responsibility of establishing policies on investment goals and asset allocation of the Fund. The SIB is charged with implementing these policies and asset allocation and investing the assets of the Fund in a manner provided in NDCC 21-10-07, the prudent institutional investor rule. The fiduciaries shall exercise the judgment and care, under the circumstances then prevailing, that an institutional investor of ordinary prudence, discretion, and intelligence exercises in the management of large investments entrusted to it, not in regard to speculation but in regard to the permanent disposition of funds, considering probable safety of capital as well as probable income.

Management responsibility for the investment program not assigned to the SIB in NDCC Chapter 21-10 is hereby delegated to the SIB, which must establish written policies for the operation of the investment program consistent with this investment policy.

The SIB may delegate investment responsibility to professional money managers. When a money manager has been retained, the SIB's role in determining investment strategy and security selection is supervisory, not advisory.

At the discretion of the SIB, the Fund's assets may be pooled with other funds. In pooling funds, the SIB may establish whatever asset class pools it deems necessary with specific quality, diversification, restrictions, and performance objectives appropriate to the prudent investor rule and objectives of the funds participating in the pools.

The SIB is responsible for establishing criteria and procedures and making decisions with respect to hiring, maintaining, and terminating money managers. This responsibility includes selecting performance measurement services, consultants and report formats and determining the frequency of meetings with managers.

The SIB shall notify the Fund within 30 days of any substantial or notable changes in money managers, performance measurement services, and consultants, including hiring or terminating a money manager, performance measurement service, or consultant.

The SIB will implement changes to this policy as promptly as is prudent.

## Risk Tolerance

The investment objectives of the Fund reflect the long-term nature of the Fund, but also the low risk tolerance and shorter-term liquidity needs.

### **Investment Objectives**

The Fund's investment objectives are expressed in terms of reward and risk expectations relative to investable, passive benchmarks. The Fund's policy benchmark is comprised of policy mix weights of appropriate asset class benchmarks as set by the SIB:

- a. The Fund's rate of return, net of fees and expenses, should at least match that of the policy benchmark over a minimum evaluation period of five years.
- b. The Fund's risk, as measured by the standard deviation of net returns, should not exceed 115 percent of the policy benchmark over a minimum evaluation period of five years.
- c. The risk-adjusted performance of the Fund, net of fees and expenses, should at least match that of the policy benchmark over a minimum evaluation period of five years.

### Policy Asset Mix

After consideration of all the inputs and discussion of its own risk tolerance, the Fund has chosen the following asset allocation:

Large Cap Domestic Equity	18.75%
Small Cap Domestic Equity	6.25%
International Equity	10.00%
Fixed Income	55.00%
Cash Equivalents	10.00%

Rebalancing of the Fund to this target will be done in accordance with the SIB's rebalancing policy, but not less than annually.

### Restrictions

While the SIB is responsible for establishing specific quality, diversification, restrictions, and performance objectives for the investment vehicles in which the Fund's assets will be invested, it is understood that:

- a. Futures and options may be used to hedge or replicate underlying index exposure, but not for speculation.
- b. Derivative use will be monitored to ensure that undue risks are not taken by the money managers.
- c. No transaction may be made that would threaten the tax-exempt status of the Fund.
- d. All assets will be held in custody by the SIB's master custodian or such other custodians as are acceptable to the SIB.
- e. No unhedged short sales or speculative margin purchases shall be made.
- f. Social investing is prohibited unless it meets the Exclusive Benefit Rule and it can be substantiated that the investment must provide an equivalent or superior rate of return for a similar investment with a similar time horizon and similar risk.

For the purpose of this document, Social Investing is defined as "The investment or commitment of public pension fund money for the purpose of obtaining an effect other than a maximized return to the intended beneficiaries."

g. Economically targeted investing is prohibited unless the investment meets the Exclusive Benefit Rule.

For the purpose of this document economically targeted investment is defined as an investment designed to produce a competitive rate of return commensurate with risk involved, as well as to create collateral economic benefits for a targeted geographic area, group of people, or sector of the economy.

Also, for the purpose of this document, the Exclusive Benefit Rule is met if the following four conditions are satisfied:

- (1) The cost does not exceed the fair market value at the time of investment.
- (2) The investment provides the Fund with an equivalent or superior rate of return for a similar investment with a similar time horizon and similar risk.
- (3) Sufficient liquidity is maintained in the Fund to permit distributions in accordance with the terms of the plan.
- (4) The safeguards and diversity that a prudent investor would adhere to are present.

Where investment characteristics, including yield, risk, and liquidity are equivalent, the Fund's policy favors investments which will have a positive impact on the economy of North Dakota.

## **Internal Controls**

A system of internal controls must be in place by the SIB to prevent losses of public funds arising from fraud or employee error. Such controls deemed most important are the separation of responsibilities for investment purchases from the recording of investment activity, custodial safekeeping, written confirmation of investment transactions, and established criteria for investment manager selection and monitoring. The annual financial audit must include a comprehensive review of the portfolio, accounting procedures for security transactions, and compliance with the investment policy.

#### **Evaluation and Review**

Investment management of the Fund will be evaluated against the Fund's investment objectives and investment performance standards. Emphasis will be placed on five year results. Evaluation should include an assessment of the continued feasibility of achieving the investment objectives and the appropriateness of the Investment Policy Statement for achieving those objectives.

Performance reports will be provided to the Insurance Department periodically, but not less than annually. Such reports will include asset returns and allocation data as well as information regarding all significant and/or material matters and changes pertaining to the investment of the Fund, including but not limited to:

- A list of advisory services managing investments for the Board.
- 2. A list of investments at market value, compared to the previous reporting period, of each fund managed by each advisory service.

- 3. Earnings, percentage earned, and change in market value of each fund's investments.
- 4. Comparison of the performance of each fund managed by each advisory service to other funds under the Board's control and to generally accepted market indicators.
- 5. All material legal or legislative proceedings affecting the SIB.
- Compliance with this investment policy statement.

# **❖State Fire and Tornado Fund**Actual Asset Allocation – June 30, 2019

Asset Allocation		Fair Value	Percent of Total	One Year Return (net)
Global Equity	\$	7,983,387	35.1%	2.71%
Domestic Large Cap Equity		4,274,248	18.8%	8.25%
Domestic Small Cap Equity		1,414,946	6.2%	-5.26%
International Equity		2,294,193	10.1%	-2.46%
Global Fixed Income		12,504,787	54.9%	8.85%
Cash Equivalents		2,273,284	10.0%	2.15%
Total Fund	\$	22,761,458		6.41%
Policy Benchmark	•			6.76%
Columns may not foot due to rounding.				

# STATE BONDING FUND

# **❖State Bonding Fund**Investment Objectives and Policy Guidelines

#### Fund Characteristics and Constraints

The State Bonding Fund (the Fund) was established for bonding public employees and public officials in accordance with Chapter 26.1-21 of the North Dakota Century Code (NDCC). Annual collections to the Fund are in the form of fees and restitution. However, the primary funding source for the Fund is investment return.

A minimum balance of \$2.0 million must be maintained at all times. If reserves drop below this statuary minimum, premiums will be assessed against all bond holders in accordance with NDCC 26.1-21-09. Such premiums will continue to be charged until the Fund balance reaches \$3.0 million. This situation must be avoided.

Claims paid from the Fund are on an as-needed basis and are highly unpredictable. A judgment against the guilty party is required prior to the Fund making a claim payment. Generally, there is a 60-90 day lead time to prepare for a claim payment. Appropriations from the Fund are exclusively for administrative costs.

### Fund Mission

The primary mission of the Fund is to maintain an adequate balance in the Fund to avoid the necessity of assessing premiums to policy holders.

# Responsibilities and Discretion of the State Investment Board (SIB)

The Fund is charged by law under NDCC 21-10-02.1 with the responsibility of establishing policies on investment goals and asset allocation of the Fund. The SIB is charged with implementing these policies and asset allocation and investing the assets of the Fund in a manner provided in NDCC 21-10-07, the prudent institutional investor rule. The fiduciaries shall exercise the judgment and care, under the circumstances then prevailing, that an institutional investor of ordinary prudence, discretion, and intelligence exercises in the management of large investments entrusted to it, not in regard to speculation but in regard to the permanent disposition of funds, considering probably safety of capital as well as probably income.

Management responsibility for the investment program not assigned to the SIB in NDCC Chapter 21-10 is hereby delegated to the SIB, which must establish written policies for the operation of the investment program consistent with this investment policy.

The SIB may delegate investment responsibility to professional money managers. When a money manager has been retained, the SIB's role in determining investment strategy and security selection is supervisory, not advisory.

At the discretion of the SIB, the Fund's assets may be pooled with other funds. In pooling funds, the SIB may establish

whatever asset class pools it deems necessary with specific quality, diversification, restrictions, and performance objectives appropriate to the prudent investor rule and objectives of the funds participating in the pools.

The SIB is responsible for establishing criteria and procedures and making decisions with respect to hiring, maintaining, and terminating money managers. This responsibility includes selecting performance measurement services, consultants and report formats and determining the frequency of meetings with managers.

The SIB shall notify the Fund within 30 days of any substantial or notable changes in money managers, performance measurement services, and consultants, including hiring or terminating a money manager, performance measurement service, or consultant.

The SIB will implement changes to this policy as promptly as is prudent.

### Risk Tolerance

The investment objectives of the Fund reflect the long-term nature of the Fund, but also the low risk tolerance and shorterterm liquidity needs.

#### **Investment Objectives**

The Fund's investment objectives are expressed in terms of reward and risk expectations relative to investable, passive benchmarks. The Fund's policy benchmark is comprised of policy mix weights of appropriate asset class benchmarks as set by the SIB:

- a. The Fund's rate of return, net of fees and expenses, should at least match that of the policy benchmark over a minimum evaluation period of five years.
- b. The Fund's risk, as measured by the standard deviation of net returns, should not exceed 115 percent of the policy benchmark over a minimum evaluation period of five years.
- c. The risk-adjusted performance of the Fund, net of fees and expenses, should at least match that of the policy benchmark over a minimum evaluation period of five years.

### Policy Asset Mix

After consideration of all the inputs and discussion of its own risk tolerance, the Fund has chosen the following asset allocation:

Fixed Income 55.0% Cash Equivalents 45.0%

Rebalancing of the Fund to this target will be done in accordance with the SIB's rebalancing policy, but not less than annually.

### Restrictions

While the SIB is responsible for establishing specific quality, diversification, restrictions, and performance objectives for the investment vehicles in which the Fund's assets will be invested, it is understood that:

- a. Futures and options may be used to hedge or replicate underlying index exposure, but not for speculation.
- b. Derivative use will be monitored to ensure that undue risks are not taken by the money managers.
- c. No transaction may be made that would threaten the taxexempt status of the Fund.
- All assets will be held in custody by the SIB's master custodian or such other custodians as are acceptable to the SIB.
- e. No unhedged short sales or speculative margin purchases shall be made.
- f. Social investing is prohibited unless it meets the Exclusive Benefit Rule and it can be substantiated that the investment must provide an equivalent or superior rate of return for a similar investment with a similar time horizon and similar risk.

For the purpose of this document, Social Investing is defined as "The investment or commitment of public pension fund money for the purpose of obtaining an effect other than a maximized return to the intended beneficiaries."

g. Economically targeted investing is prohibited unless the investment meets the Exclusive Benefit Rule.

For the purpose of this document economically targeted investment is defined as an investment designed to produce a competitive rate of return commensurate with risk involved, as well as to create collateral economic benefits for a targeted geographic area, group of people, or sector of the economy.

Also, for the purpose of this document, the Exclusive Benefit Rule is met if the following four conditions are satisfied:

- (1) The cost does not exceed the fair market value at the time of investment.
- (2) The investment provides the Fund with an equivalent or superior rate of return for a similar investment with a similar time horizon and similar risk.
- (3) Sufficient liquidity is maintained in the Fund to permit distributions in accordance with the terms of the plan.

(4) The safeguards and diversity that a prudent investor would adhere to are present.

Where investment characteristics, including yield, risk, and liquidity are equivalent, the Fund's policy favors investments which will have a positive impact on the economy of North Dakota.

### **Internal Controls**

A system of internal controls must be in place by the SIB to prevent losses of public funds arising from fraud or employee error. Such controls deemed most important are the separation of responsibilities for investment purchases from the recording of investment activity, custodial safekeeping, written confirmation of investment transactions, and established criteria for investment manager selection and monitoring. The annual financial audit must include a comprehensive review of the portfolio, accounting procedures for security transactions, and compliance with the investment policy.

#### **Evaluation and Review**

Investment management of the Fund will be evaluated against the Fund's investment objectives and investment performance standards. Emphasis will be placed on five year results. Evaluation should include an assessment of the continued feasibility of achieving the investment objectives and the appropriateness of the Investment Policy Statement for achieving those objectives.

Performance reports will be provided to the Insurance Department periodically, but not less than annually. Such reports will include asset returns and allocation data as well as information regarding all significant and/or material matters and changes pertaining to the investment of the Fund, including but not limited to:

- A list of advisory services managing investments for the Board.
- A list of investments at market value, compared to the previous reporting period, of each fund managed by each advisory service.
- Earnings, percentage earned, and change in market value of each fund's investments.
- 4. Comparison of the performance of each fund managed by each advisory service to other funds under the Board's control and to generally accepted market indicators.
- 5. All material legal or legislative proceedings affecting the SIB.
- 6. Compliance with this investment policy statement.

# State Bonding Fund

### Actual Asset Allocation – June 30, 2019

Asset Allocation	Fair Value	Percent of Total	One Year Return (net)
Global Fixed Income Cash Equivalents	\$ 1,986,061 1,623,361	55.0% 45.0%	8.90% 2.15%
Total Fund Policy Benchmark	\$ 3,609,422		5.83% 5.35%

# PETROLEUM TANK RELEASE COMPENSATION FUND

## Petroleum Tank Release Compensation Fund Investment Objectives and Policy Guidelines

#### Fund Characteristics and Constraints

The Petroleum Tank Release Compensation Fund (the Fund) was established in 1989 in response to the Environmental Protection Agency's (EPA) requirement that all underground storage tank owners have proof of financial responsibility. Operation of the Fund is in accordance with ND23-37. The Fund's "sunset clause" date of June 30, 2011, has been extended and the time horizon for this Fund is uncertain at this time.

Funding is provided by annual premiums collected for above ground and underground petroleum storage tanks. Registration of tanks with the Fund is mandatory, although certain types of tanks are excluded.

A statutory minimum balance of \$6.0 million must be maintained in the Fund. Also, a minimum balance of \$2.0 million is required by EPA. In the event reserves drop below this minimum, EPA would evaluate the Fund's ability to pay claims and would in all likelihood disapprove the Fund as a financial responsibility mechanism for North Dakota petroleum tank owners.

If a petroleum release occurs or petroleum contamination is discovered, an eligible tank owner is reimbursed 90% of necessary and reasonable costs between \$5,000 and \$155,000 for cleanup of contamination or third-party liability. The Fund reimburses 100% of costs between \$155,000 and \$1,000,000.

### **Fund Mission**

The primary mission of the Fund is to maintain the statutory minimum balance in the fund.

# Responsibilities and Discretion of the State Investment Board (SIB)

The Fund is charged by law under NDCC 21-10-02.1 with the responsibility of establishing policies on investment goals and asset allocation of the Fund. The SIB is charged with implementing these policies and asset allocation and investing the assets of the Fund in a manner provided in NDCC 21-10-07, the prudent institutional investor rule. The fiduciaries shall exercise the judgment and care, under the circumstances then prevailing, that an institutional investor of ordinary prudence, discretion, and intelligence exercises in the management of large investments entrusted to it, not in regard to speculation but in regard to the permanent disposition of funds, considering probably safety of capital as well as probably income.

Management responsibility for the investment program not assigned to the SIB in NDCC Chapter 21-10 is hereby delegated to the SIB, which must establish written policies for the operation of the investment program consistent with this investment policy.

The SIB may delegate investment responsibility to professional money managers. When a money manager has been retained, the SIB's role in determining investment strategy and security selection is supervisory, not advisory.

At the discretion of the SIB, the Fund's assets may be pooled with other funds. In pooling funds, the SIB may establish whatever asset class pools it deems necessary with specific quality, diversification, restrictions, and performance objectives appropriate to the prudent investor rule and objectives of the funds participating in the pools.

The SIB is responsible for establishing criteria and procedures and making decisions with respect to hiring, maintaining, and terminating money managers. This responsibility includes selecting performance measurement services, consultants and report formats and determining the frequency of meetings with managers.

The SIB shall notify the Fund within 30 days of any substantial or notable changes in money managers, performance measurement services, and consultants, including hiring and terminating a money manager, performance measurement service, or consultant.

The SIB will implement changes to this policy as promptly as is prudent.

### Risk Tolerance

The investment objectives of the Fund reflect the long-term nature of the Fund, but also the low risk tolerance and shorter-term liquidity needs.

## **Investment Objectives**

The Fund's investment objectives are expressed in terms of reward and risk expectations relative to investable, passive benchmarks. The Fund's policy benchmark is comprised of policy mix weights of appropriate asset class benchmarks as set by the SIB:

- a. The Fund's rate of return, net of fees and expenses, should at least match that of the policy benchmark over a minimum evaluation period of five years.
- b. The Fund's risk, as measured by the standard deviation of net returns, should not exceed 115 percent of the policy benchmark over a minimum evaluation period of five years.

c. The risk-adjusted performance of the Fund, net of fees and expenses, should at least match that of the policy benchmark over a minimum evaluation period of five years.

### Policy Asset Mix

After consideration of all the inputs and discussion of its own risk tolerance, the Fund has chosen the following asset allocation:

Fixed Income 50.0% Cash Equivalents 50.0%

Rebalancing of the Fund to this target will be done in accordance with the SIB's rebalancing policy, but not less than annually.

### Restrictions

While the SIB is responsible for establishing specific quality, diversification, restrictions, and performance objectives for the investment vehicles in which the Fund's assets will be invested, it is understood that:

- a. Futures and options may be used to hedge or replicate underlying index exposure, but not for speculation.
- b. Derivative use will be monitored to ensure that undue risks are not taken by the money managers.
- c. No transaction may be made that would threaten the tax-exempt status of the Fund.
- d. All assets will be held in custody by the SIB's master custodian or such other custodians as are acceptable to the SIB.
- e. No unhedged short sales or speculative margin purchases shall be made.
- f. Social investing is prohibited unless it meets the Exclusive Benefit Rule and it can be substantiated that the investment must provide an equivalent or superior rate of return for a similar investment with a similar time horizon and similar risk.

For the purpose of this document, Social Investing is defined as "The investment or commitment of public pension fund money for the purpose of obtaining an effect other than a maximized return to the intended beneficiaries."

g. Economically targeted investing is prohibited unless the investment meets the Exclusive Benefit Rule.

For the purpose of this document economically targeted investment is defined as an investment designed to produce a competitive rate of return commensurate with risk involved, as well as to create collateral economic benefits for a targeted geographic area, group of people, or sector of the economy.

Also, for the purpose of this document, the Exclusive Benefit Rule is met if the following four conditions are satisfied:

- (1) The cost does not exceed the fair market value at the time of investment.
- (2) The investment provides the Fund with an equivalent or superior rate of return for a similar investment with a similar time horizon and similar risk.
- (3) Sufficient liquidity is maintained in the Fund to permit distributions in accordance with the terms of the plan.
- (4) The safeguards and diversity that a prudent investor would adhere to are present.

Where investment characteristics, including yield, risk, and liquidity are equivalent, the Fund's policy favors investments which will have a positive impact on the economy of North Dakota.

### **Internal Controls**

A system of internal controls must be in place by the SIB to prevent losses of public funds arising from fraud or employee error. Such controls deemed most important are the separation of responsibilities for investment purchases from the recording of investment activity, custodial safekeeping, written confirmation of investment transactions, and established criteria for investment manager selection and monitoring. The annual financial audit must include a comprehensive review of the portfolio, accounting procedures for security transactions, and compliance with the investment policy.

### **Evaluation and Review**

Investment management of the Fund will be evaluated against the Fund's investment objectives and investment performance standards. Emphasis will be placed on five year results. Evaluation should include an assessment of the continued feasibility of achieving the investment objectives and the appropriateness of the Investment Policy Statement for achieving those objectives.

Performance reports will be provided to the Insurance Department periodically, but not less than annually. Such reports will include asset returns and allocation data as well as information regarding all significant and/or material matters and changes pertaining to the investment of the Fund, including but not limited to:

1. A list of advisory services managing investments for the Board.

- 2. A list of investments at market value, compared to the previous reporting period, of each fund managed by each advisory service.
- 3. Earnings, percentage earned, and change in market value of each fund's investments.
- 4. Comparison of the performance of each fund managed by each advisory service to other funds
- 5. under the Board's control and to generally accepted market indicators.
- 6. All material legal or legislative proceedings affecting the SIB.
- 7. Compliance with this investment policy statement.

# ❖Petroleum Tank Release Compensation Fund Actual Asset Allocation – June 30, 2019

Asset Allocation		Fair Value	Percent of Total	One Year Return (net)
Global Fixed Income Cash Equivalents	\$	2,999,441 2,994,794	50.0% 50.0%	8.86% 2.15%
Total Fund Policy Benchmark	\$	5,994,235		5.47% 5.07%
Columns may not foot due to rounding.				

# INSURANCE REGULATORY TRUST FUND

## ❖Insurance Regulatory Trust Fund Investment Objectives and Policy Guidelines

### Fund Characteristics and Constraints

The Insurance Regulatory Trust Fund (the Fund) was established for use by the Insurance Department to defray the expenses incurred in discharging its duties as described in NDCC 26.1.

Funding is provided primarily through the collection of fees and fines as specified in NDCC 26.1-01-07.1. Fees and other collections as well as earnings from investments are funding sources.

There is no statutory minimum balance for this Fund. However, the Insurance Department relies entirely on the Fund to meet all operating expenses. Therefore, sufficient liquidity and risk control must be maintained at all times to ensure the solvency of the Insurance Department.

In accordance with NDCC 26.1-01-07.1, any cash balance in the Fund after all current biennium expenditures are met must be carried forward for the succeeding biennium. However, when the balance at the end of the biennium exceeds \$1.0 million, any excess will be transferred to the general fund in the state treasury. Such transfers are generally made at the end of September or during the first two weeks of October. Operating expenses are paid from the Fund as incurred.

## **Fund Mission**

The primary mission of the Fund is to maintain an adequate balance in the Fund to avoid the necessity of assessing premiums to policy holders.

# Responsibilities and Discretion of the State Investment Board (SIB)

The Fund is charged by law under NDCC 21-10-02.1 with the responsibility of establishing policies on investment goals and asset allocation of the Fund. The SIB is charged with implementing these policies and asset allocation and investing the assets of the Fund in a manner provided in NDCC 21-10-07, the prudent institutional investor rule. The fiduciaries shall exercise the judgment and care, under the circumstances then prevailing, that an institutional investor of ordinary prudence, discretion, and intelligence exercises in the management of large investments entrusted to it, not in regard to speculation but in regard to the permanent disposition of funds, considering probably safety of capital as well as probably income.

Management responsibility for the investment program not assigned to the SIB in NDCC Chapter 21-10 is hereby delegated to the SIB, which must establish written policies for the operation of the investment program consistent with this investment policy.

The SIB may delegate investment responsibility to professional money managers. When a money manager has been retained, the SIB's role in determining investment strategy and security selection is supervisory, not advisory.

At the discretion of the SIB, the Fund's assets may be pooled with other funds. In pooling funds, the SIB may establish whatever asset class pools it deems necessary with specific quality, diversification, restrictions, and performance objectives appropriate to the prudent investor rule and objectives of the funds participating in the pools.

The SIB is responsible for establishing criteria and procedures and making decisions with respect to hiring, maintaining, and terminating money managers. This responsibility includes selecting performance measurement services, consultants and report formats and determining the frequency of meetings with managers.

The SIB shall notify the Fund within 30 days of any substantial or notable changes in money managers, performance measurement services, and consultants, including hiring or terminating money managers, performance measurement services, or consultants

The SIB will implement changes to this policy as promptly as is prudent.

### Risk Tolerance

The investment objectives of the Fund reflect the long-term nature of the Fund, but also the low risk tolerance and shorter-term liquidity needs.

### **Investment Objectives**

The Fund's investment objectives are expressed in terms of reward and risk expectations relative to investable, passive benchmarks. The Fund's policy benchmark is comprised of policy mix weights of appropriate asset class benchmarks as set by the SIB:

- a. The Fund's rate of return, net of fees and expenses, should at least match that of the policy benchmark over a minimum evaluation period of five years.
- b. The Fund's risk, as measured by the standard deviation of net returns, should not exceed 115 percent of the policy benchmark over a minimum evaluation period of five years.
- c. The risk-adjusted performance of the Fund, net of fees and expenses, should at least match that of the policy benchmark over a minimum evaluation period of five years.

# Policy Asset Mix

After consideration of all the inputs and discussion of its own risk tolerance, the Fund has chosen the following asset allocation:

Large Cap Domestic Equity	15%
Small Cap Domestic Equity	5%
International Equity	10%
Fixed Income	35%
Cash Equivalents	35%

Rebalancing of the Fund to this target will be done in accordance with the SIB's rebalancing policy, but not less than annually.

### Restrictions

While the SIB is responsible for establishing specific quality, diversification, restrictions, and performance objectives for the investment vehicles in which the Fund's assets will be invested, it is understood that:

- a. Futures and options may be used to hedge or replicate underlying index exposure, but not for speculation.
- b. Derivative use will be monitored to ensure that undue risks are not taken by the money managers.
- No transaction may be made that would threaten the tax-exempt status of the Fund.
- d. All assets will be held in custody by the SIB's master custodian or such other custodians as are acceptable to the SIB.
- e. No unhedged short sales or speculative margin purchases shall be made.
- f. Social investing is prohibited unless it meets the Exclusive Benefit Rule and it can be substantiated that the investment must provide an equivalent or superior rate of return for a similar investment with a similar time horizon and similar risk.

For the purpose of this document, Social Investing is defined as "The investment or commitment of public pension fund money for the purpose of obtaining an effect other than a maximized return to the intended beneficiaries."

g. Economically targeted investing is prohibited unless the investment meets the Exclusive Benefit Rule.

For the purpose of this document economically targeted investment is defined as an investment designed to produce a competitive rate of return commensurate with risk involved, as well as to create collateral economic benefits for a targeted geographic area, group of people, or sector of the economy.

Also, for the purpose of this document, the Exclusive Benefit Rule is met if the following four conditions are satisfied:

- (1) The cost does not exceed the fair market value at the time of investment.
- (2) The investment provides the Fund with an equivalent or superior rate of return for a similar investment with a similar time horizon and similar risk.
- (3) Sufficient liquidity is maintained in the Fund to permit distributions in accordance with the terms of the plan.
- (4) The safeguards and diversity that a prudent investor would adhere to are present.

Where investment characteristics, including yield, risk, and liquidity are equivalent, the Fund's policy favors investments which will have a positive impact on the economy of North Dakota.

### **Internal Controls**

A system of internal controls must be in place by the SIB to prevent losses of public funds arising from fraud or employee error. Such controls deemed most important are the separation of responsibilities for investment purchases from the recording of investment activity, custodial safekeeping, written confirmation of investment transactions, and established criteria for investment manager selection and monitoring. The annual financial audit must include a comprehensive review of the portfolio, accounting procedures for security transactions, and compliance with the investment policy.

### **Evaluation and Review**

Investment management of the Fund will be evaluated against the Fund's investment objectives and investment performance standards. Emphasis will be placed on five year results. Evaluation should include an assessment of the continued feasibility of achieving the investment objectives and the appropriateness of the Investment Policy Statement for achieving those objectives.

Performance reports will be provided to the Insurance Department periodically, but not less than annually. Such reports will include asset returns and allocation data as well as information regarding all significant and/or material matters and changes pertaining to the investment of the Fund, including but not limited to:

- 1. A list of advisory services managing investments for the Board.
- 2. A list of investments at market value, compared to the previous reporting period, of each fund managed by each advisory service.
- 3. Earnings, percentage earned, and change in market value of each fund's investments.

- 4. Comparison of the performance of each fund managed by each advisory service to other funds under the Board's control and to generally accepted market indicators.
- 5. All material legal or legislative proceedings affecting the SIB.
- 6. Compliance with this investment policy statement.

# ❖Insurance Regulatory Trust Fund Actual Asset Allocation – June 30, 2019

Asset Allocation		Fair Value	Percent of Total	One Year Return (net)
Global Equity	\$	1,884,496	30.3%	2.33%
Domestic Large Cap Equity		941,762	15.1%	8.25%
Domestic Small Cap Equity		311,598	5.0%	-5.26%
International Equity		631,136	10.1%	-2.46%
Global Fixed Income		2,170,087	34.9%	9.03%
Cash Equivalents		2,164,199	34.8%	2.15%
Total Fund	\$	6,218,782		5.03%
Policy Benchmark				5.37%
Columns may not foot due to rounding.				

# STATE RISK MANAGEMENT FUND

# **❖State Risk Management Fund**Investment Objectives and Policy Guidelines

#### Plan Characteristics and Fund Constraints

To address the State's loss of sovereign immunity, the 1995 North Dakota Legislature created a new chapter of the North Dakota Century Code (NDCC), 32-12.2. That Chapter established the Risk Management Fund (the Fund) to administer claims against the State and state employees for personal injury, death, or property damage caused by the State or a state employee acting within the scope of the employee's employment. The Fund is directed by the Office of Management and Budget (OMB).

Each entity of the State is required to participate in the Fund. Contributions to the Fund are determined by the Director of OMB based on an actuarial review of the financial status of the Fund. This results in a fluctuation of contributions made to the Fund from one biennium to another.

The amount of money damages the Fund may pay is limited for state court actions to a total of \$250,000 per person and \$1,000,000 per occurrence. These liability caps may not be recognized in Federal Court actions or in actions filed in other states. The Fund's excess carrier provides coverage up to \$10,000,000 for those exposures not covered by the Tort Claims Act.

Significant claims paid from the Fund are usually somewhat predictable and take a period of time to resolve. A person bringing a claim or lawsuit against the State or a state employee must give notice to the OMB Director within 180 days after the alleged injury is discovered or reasonably should have been discovered. If the claim is one for death, the notice must be provided within one year after the alleged injury resulting in the death.

The Risk Management Division's operating expenses including loss control activities are paid from the Fund as incurred.

#### Responsibilities of the State Investment Board (SIB)

The Fund is charged by law under NDCC 21-10-02.1 with the responsibility of establishing policies on investment goals and asset allocation of the Fund. The SIB is charged with implementing these policies and asset allocation and investing the assets of the Fund in a manner consistent with the prudent investor rule as provided in NDCC 21-10-07.

At the discretion of the SIB, the Fund's assets may be pooled with other funds. In pooling funds, the SIB may establish whatever asset class pools it deems necessary with specific quality, diversification, restrictions, and performance objectives appropriate to the prudent investor rule and objectives of the funds participating in the pools.

The SIB may delegate investment responsibility to professional money managers. When a money manager has been retained, the SIB's role in determining investment strategy and security selection is supervisory, not advisory.

The SIB is responsible for establishing criteria and procedures and making decisions with respect to hiring, maintaining, and terminating money managers. This responsibility includes selecting performance measurement services, consultants, and report formats and determining the frequency of meetings with managers.

The SIB will implement changes to this policy as promptly as is prudent.

### **Investment Objectives**

The Fund's investment objectives are expressed in terms of reward and risk expectations relative to investable, passive benchmarks. The Fund's policy benchmark is comprised of policy mix weights of appropriate asset class benchmarks as set by the SIB:

- The Fund's rate of return, net of fees and expenses, should at least match that of the policy benchmark over a minimum evaluation period of five years.
- 2) The Fund's risk, measured by the standard deviation of net returns, should not exceed the risk of the policy benchmark by more than 1% over a minimum evaluation period of five years. For example, if the risk of the policy benchmark is 4%, the Fund's risk should not exceed 5% over a fiveyear period.
- 3) The risk adjusted performance of the Fund, net of fees and expenses, should at least match that of the policy benchmark over a minimum evaluation period of five years.

### Policy Asset Mix

The asset allocation of the Fund is established by the SIB, with input from the OMB. Asset allocation is based upon the appraisal of projected liquidity and income requirements, and estimates of the investment returns likely to be achieved by the various asset classes over the next five years.

In recognition of these factors, the following allocation is deemed appropriate for the Fund:

Large Cap Domestic Equity	22.5%
Small Cap Domestic Equity	7.5%
Fixed Income	65.0%
Cash Equivalents	5.0%

While the Fund recognizes fluctuations in market values will lead to short-term deviations from policy targets, the Fund does not intend to engage in tactical asset allocation.

Rebalancing of the Fund to this allocation will be done in accordance with the SIB's rebalancing policy.

#### Restrictions

While the SIB is responsible for establishing specific quality, diversification, restrictions, and performance objectives for the investment vehicles in which the Fund's assets will be invested, it is understood that:

- a. Futures and options may be used to hedge or replicate underlying index exposure, but not for speculation.
- b. Derivative use will be monitored to ensure that undue risks are not taken by the money managers.
- All assets will be held in custody by the SIB's master custodian or such other custodians as are acceptable to the SIB.
- d. No funds shall be borrowed.
- e. No unhedged short sales or speculative margin purchases shall be made.
- f. Social investing is prohibited unless it meets the Exclusive Benefit Rule and it can be substantiated that the investment must provide an equivalent or superior rate of return for a similar investment with a similar time horizon and similar risk.

For the purpose of this document, Social Investing is defined as "The investment or commitment of public fund money for the purpose of obtaining an effect other than a maximized return to the intended beneficiaries."

g. Economically targeted investing is prohibited unless the investment meets the Exclusive Benefit Rule.

For the purpose of this document economically targeted investment is defined as an investment designed to produce a competitive rate of return commensurate with risk involved, as well as to create collateral economic benefits for a targeted geographic area, group of people, or sector of the economy.

Also, for the purpose of this document, the Exclusive Benefit Rule is met if the following four conditions are satisfied:

- (1) The cost does not exceed the fair market value at the time of investment.
- (2) The investment provides the Fund with an equivalent or superior rate of return for a similar

- investment with a similar time horizon and similar risk
- (3) Sufficient liquidity is maintained in the Fund to permit distributions in accordance with the terms of the plan.
- (4) The safeguards and diversity that a prudent investor would adhere to are present.

Where investment characteristics, including yield, risk, and liquidity are equivalent, the Fund's policy favors investments which will have a positive impact on the economy of North Dakota.

### **Internal Controls**

A system of internal controls must be in place by the SIB to prevent losses of public funds arising from fraud or employee error. Such controls deemed most important are the separation of responsibilities for investment purchases from the recording of investment activity, custodial safekeeping, written confirmation of investment transactions, and established criteria for broker relationships. The annual financial audit must include a comprehensive review of the portfolio, accounting procedures for security transactions and compliance with the investment policy.

### **Evaluation and Review**

Investment management of the Fund will be evaluated against the Fund's investment objectives. Evaluation should include an assessment of the continued feasibility of achieving the investment objectives and the appropriateness of the Investment Policy Statement for achieving those objectives.

Performance reports will be provided to the Fund periodically, but not less than annually. Such reports will include asset returns and allocation data as well as information regarding all significant and/or material matters and changes pertaining to the investment of the Fund, including but not limited to:

- A list of the advisory services managing investments for the board.
- 2) A list of investments at market value, compared to previous reporting period, of each fund managed by each advisory service.
- 3) Earnings, percentage earned, and change in market value of each fund's investments.
- Comparison of the performance of each fund managed by each advisory service to other funds under the board's control and to generally accepted market indicators.
- 5) All material legal or legislative proceedings affecting the SIB.
- 6) Compliance with this investment policy statement.

# **❖State Risk Management Fund** Actual Asset Allocation − June 30, 2019

Asset Allocation		Fair Value	Percent of Total	One Year Return (net)
Global Equity	\$	1,475,300	30.0%	4.76%
Domestic Large Cap Equity		1,108,136	22.6%	8.25%
Domestic Small Cap Equity		367,164	7.5%	-5.26%
Global Fixed Income		3,188,967	65.0%	8.78%
Cash Equivalents		245,356	5.0%	2.15%
Total Fund	\$	4,909,623		7.67%
Policy Benchmark	-			7.67%
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# STATE RISK MANAGEMENT WORKERS COMPENSATION FUND

# **❖State Risk Management Workers Comp Fund**Investment Objectives and Policy Guidelines

#### Plan Characteristics and Fund Constraints

The 2001 North Dakota Legislature established a single workers' compensation account for state entities, N.D.C.C. § 65-04-03.1. N.D.C.C. § 65-04-03.1(2) directs that workers' compensation premiums from state entities must be deposited in the Risk Management Workers Compensation Fund (Fund) and the State Investment Board is directed to invest the Fund in accordance with chapter 21-10.

The Risk Management Division of the Office of Management and Budget is responsible for administering the Fund to include promulgating rules, collecting and dispersing funds, and establishing an internal workers' compensation return-to-work program. Each entity of the State is required to participate in the program unless exempted by the director of the Office of Management and Budget. Contributions to the Fund are determined by Workforce Safety & Insurance (WSI) based on an actuarial review of combined payroll, premium, and loss history of agencies to determine experience rates, assessments, and premiums. The actuarial assumed rate of return is 3%.

The Risk Management Workers Compensation Program charges the entity the first \$250 (\$0 if a designated medical provider is used for treatment) of each accepted claim and pays disability and medical benefits of up to \$100,000 dollars per claim. Dollar amounts for claims in excess of \$100,000 are paid for by WSI. In turn the Program pays WSI approximately \$1.7 million per year in premiums.

#### Responsibilities of the State Investment Board (SIB)

The Fund is charged by law under NDCC 21-10-02.1 with the responsibility of establishing policies on investment goals and asset allocation of the Fund. The SIB is charged with implementing these policies and asset allocation and investing the assets of the Fund in a manner consistent with the prudent investor rule as provided in NDCC 21-10-07.

At the discretion of the SIB, the Fund's assets may be pooled with other funds. In pooling funds, the SIB may establish whatever asset class pools it deems necessary with specific quality, diversification, restrictions, and performance objectives appropriate to the prudent investor rule and objectives of the funds participating in the pools.

The SIB may delegate investment responsibility to professional money managers. When a money manager has been retained, the SIB's role in determining investment strategy and security selection is supervisory, not advisory.

The SIB is responsible for establishing criteria and procedures and making decisions with respect to hiring, maintaining, and terminating money managers. This responsibility includes selecting performance measurement services, consultants, and report formats and determining the frequency of meetings with managers.

The SIB will implement changes to this policy as promptly as is prudent.

### **Investment Objectives**

The Fund's investment objectives are expressed in terms of reward and risk expectations relative to investable, passive benchmarks. The Fund's policy benchmark is comprised of policy mix weights of appropriate asset class benchmarks as set by the SIB:

- The Fund's rate of return, net of fees and expenses, should at least match that of the policy benchmark over a minimum evaluation period of five years.
- 2) The Fund's risk, measured by the standard deviation of net returns, should not exceed the risk of the policy benchmark by more than 1% over a minimum evaluation period of five years. For example, if the risk of the policy benchmark is 4%, the Fund's risk should not exceed 5% over a fiveyear period.
- 3) The risk adjusted performance of the Fund, net of fees and expenses, should at least match that of the policy benchmark over a minimum evaluation period of five years.

#### Policy Asset Mix

The asset allocation of the Fund is established by the SIB, with input from the OMB. Asset allocation is based upon the appraisal of projected liquidity and income requirements, and estimates of the investment returns likely to be achieved by the various asset classes over the next five years.

In recognition of these factors, the following allocation is deemed appropriate for the Fund:

Large Cap Domestic Equity	27.75%
Small Cap Domestic Equity	9.25%
Fixed Income	60.00%
Cash Equivalents	3.00%

While the Fund recognizes fluctuations in market values will lead to short-term deviations from policy targets, the Fund does not intend to engage in tactical asset allocation.

Rebalancing of the Fund to this allocation will be done in accordance with the SIB's rebalancing policy.

#### Restrictions

While the SIB is responsible for establishing specific quality, diversification, restrictions, and performance objectives for the investment vehicles in which the Fund's assets will be invested, it is understood that:

- a. Futures and options may be used to hedge or replicate underlying index exposure, but not for speculation.
- b. Derivative use will be monitored to ensure that undue risks are not taken by the money managers.
- c. All assets will be held in custody by the State Investment Board's master custodian or such other custodians as are acceptable to the State Investment Board.
- d. No funds shall be borrowed.
- e. No unhedged short sales or speculative margin purchases shall be made.
- f. Social investing is prohibited unless it meets the Exclusive Benefit Rule and it can be substantiated that the investment must provide an equivalent or superior rate of return for a similar investment with a similar time horizon and similar risk.

For the purpose of this document, Social Investing is defined as "The investment or commitment of public fund money for the purpose of obtaining an effect other than a maximized return to the intended beneficiaries."

g. Economically targeted investing is prohibited unless the investment meets the Exclusive Benefit Rule.

For the purpose of this document economically targeted investment is defined as an investment designed to produce a competitive rate of return commensurate with risk involved, as well as to create collateral economic benefits for a targeted geographic area, group of people, or sector of the economy.

Also, for the purpose of this document, the Exclusive Benefit Rule is met if the following four conditions are satisfied:

- (1) The cost does not exceed the fair market value at the time of investment.
- (2) The investment provides the Fund with an equivalent or superior rate of return for a similar investment with a similar time horizon and similar risk.
- (3) Sufficient liquidity is maintained in the Fund to permit distributions in accordance with the terms of the plan.

(4) The safeguards and diversity that a prudent investor would adhere to are present.

Where investment characteristics, including yield, risk, and liquidity are equivalent, the Fund's policy favors investments which will have a positive impact on the economy of North Dakota.

#### **Internal Controls**

A system of internal controls must be in place by the SIB to prevent losses of public funds arising from fraud or employee error. Such controls deemed most important are the separation of responsibilities for investment purchases from the recording of investment activity, custodial safekeeping, written confirmation of investment transactions, and established criteria for broker relationships. The annual financial audit must include a comprehensive review of the portfolio, accounting procedures for security transactions and compliance with the investment policy.

#### **Evaluation and Review**

Investment management of the Fund will be evaluated against the Fund's investment objectives. Evaluation should include an assessment of the continued feasibility of achieving the investment objectives and the appropriateness of the Investment Policy Statement for achieving those objectives.

Performance reports will be provided to the Fund periodically, but not less than annually. Such reports will include asset returns and allocation data as well as information regarding all significant and/or material matters and changes pertaining to the investment of the Fund, including but not limited to:

- 1) A list of the advisory services managing investments for the board.
- A list of investments at market value, compared to previous reporting period, of each fund managed by each advisory service.
- 3) Earnings, percentage earned, and change in market value of each fund's investments.
- Comparison of the performance of each fund managed by each advisory service to other funds under the board's control and to generally accepted market indicators.
- 5) All material legal or legislative proceedings affecting the SIB.
- 6) Compliance with this investment policy statement.

# ❖ State Risk Management WC Fund Actual Asset Allocation – June 30, 2019

Asset Allocation		Fair Value	Percent of Total	One Year Return (net)
Global Equity	\$	1,921,831	37.0%	4.76%
Domestic Large Cap Equity		1,443,526	27.8%	8.25%
Domestic Small Cap Equity		478,305	9.2%	-5.26%
Global Fixed Income		3,110,374	60.0%	8.75%
Cash Equivalents		155,675	3.0%	2.15%
Total Fund	\$	5,187,880		7.56%
Policy Benchmark	-			7.75%
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# NORTH DAKOTA CULTURAL ENDOWMENT FUND

# **❖ND Cultural Endowment Fund**Investment Objectives and Policy Guidelines

### Fund Characteristics and Constraints

The North Dakota Cultural Endowment Fund (Fund) was created by the State Legislature in 1979 and is governed by NDCC 54-54-08.2.

The Fund was established "to improve the intrinsic quality of the lives of the state's citizens now and in the future through programs approved by the council on the arts." Such programs must:

- Increase cultural awareness by the state's citizens through programs in arts, crafts, theater, ethnic and folk arts, literature, journalism, public media, historic preservation and interpretation, visual arts, and architecture.
- 2. Make the items named in #1 above more available to the state's citizens.
- 3. Encourage the development of talent in the areas named in #1 above within the state.
- 4. Preserve and increase understanding of North Dakota's heritage and future.

The goals of the Fund are:

- To create a vehicle through which the North Dakota Council on the Arts can secure private and public funds to enhance existing programs;
- And to provide a stable funding source for the Council.

Sources of funding for the Fund are private donations and periodic General Fund appropriations. The current principal balance that must be maintained in the Fund is \$150,000. Disbursements from the Fund will amount to approximately \$5,000 per year for fellowship grants.

# Responsibilities and Discretion of the State Investment Board (SIB)

The Fund is charged by law under NDCC 21-10-02.1 with the responsibility of establishing policies on investment goals and asset allocation of the Fund. The SIB is charged with implementing these policies and asset allocation and investing the assets of the Fund in a manner consistent with the prudent investor rule as provided in NDCC 21-10-07.

At the discretion of the SIB, the Fund's assets may be pooled with other funds. In pooling funds, the SIB may establish whatever asset class pools it deems necessary with specific quality, diversification, restrictions, and performance objectives appropriate to the prudent investor rule and objectives of the funds participating in the pools.

The SIB may delegate investment responsibility to professional money managers. When a money manager has been retained, the SIB's role in determining investment strategy and security selection is supervisory, not advisory.

The SIB is responsible for establishing criteria and procedures and making decisions with respect to hiring, maintaining, and terminating money managers. This responsibility includes selecting performance measurement services, consultants, and report formats and determining the frequency of meetings with managers.

The SIB will implement changes to this policy as promptly as is prudent.

### **Investment Objectives**

The investment objectives of the Fund reflect the long-term nature of the Fund, but also the low risk tolerance and shorter-term liquidity needs. Operating and statutory considerations shape the Funds policies and priorities as outlined below:

Objective #1: Investment income is needed to provide balance in investment return sources. This will be achieved through a diversified portfolio of high quality fixed income and equity assets.

Objective #2: Growth of capital is needed to provide an inflationary hedge. Capital growth will be sought through investment in equities.

Objective #3: Sufficient liquidity is to be maintained to meet known or anticipated financial obligations. Cash equivalent investments will be used to achieve this objective.

Objective #4: The risk of violating the mandated minimum balance requirement of \$150,000 is to be minimized. This will be achieved by an asset allocation consistent with this objective.

### Standards of Investment Performance

The Fund's investment objectives and liquidity constraints give rise to an asset allocation that is considered the most likely to achieve the results desired. For evaluation purposes, the following performance targets will apply:

a. The Fund should produce a rate of return that meets or exceeds the portfolio policy index defined as 33.75% S&P 500 domestic stock index, 11.25% Russell 2000 domestic small cap index, 10% MSCI EAFE international stock index, 37% Barclays Capital Aggregate domestic bond index, 5% NCREIF Total real estate index, and 3% 90day Treasury bills.

- The annual standard deviation of total returns for the Fund should not exceed that of the policy portfolio.
- c. Over 10 year and longer time periods the Fund should match or exceed the expected 7.26% rate of return based on Callan Associates' 2005 market projections. Expected risk for the period, measured by standard deviation, is 10.44%.

### Policy and Guidelines

The asset allocation of the Cultural Endowment Fund is established by the North Dakota Council on the Arts, with input from the SIB. Asset allocation is based upon the appraisal of projected liquidity and income requirements, and estimates of the investment returns likely to be achieved by the various asset classes over the next five years.

In recognition of these factors, the following allocation is deemed appropriate for the fund:

Large Cap Domestic Equities	33.75%
Small Cap Domestic Equities	11.25%
International Equities	10.00%
Domestic Fixed Income	37.00%
Real Estate	5.00%
Cash Equivalents	3.00%

Rebalancing of the Fund to this target will be done in accordance with the SIB's rebalancing policy.

While the SIB is responsible for establishing specific quality, diversification, restrictions, and performance objectives for the investment vehicles in which the Fund's assets will be invested, it is understood that:

- a. Futures and options may be used to hedge or replicate underlying index exposure, but not for speculation.
- b. Derivative use will be monitored to ensure that undue risks are not taken by the money managers.
- c. All assets will be held in custody by the State Investment Board's master custodian or such other custodians as are acceptable to the State Investment Board.
- d. No funds shall be borrowed.
- e. No unhedged short sales or speculative margin purchases shall be made.

f. Social investing is prohibited unless it meets the Exclusive Benefit Rule and it can be substantiated that the investment must provide an equivalent or superior rate of return for a similar investment with a similar time horizon and similar risk.

For the purpose of this document, Social Investing is defined as "The investment or commitment of public pension fund money for the purpose of obtaining an effect other than a maximized return to the intended beneficiaries."

g. Economically targeted investing is prohibited unless the investment meets the Exclusive Benefit Rule.

For the purpose of this document economically targeted investment is defined as an investment designed to produce a competitive rate of return commensurate with risk involved, as well as to create collateral economic benefits for a targeted geographic area, group of people, or sector of the economy.

Also, for the purpose of this document, the Exclusive Benefit Rule is met if the following four conditions are satisfied:

- (1) The cost does not exceed the fair market value at the time of investment.
- (2) The investment provides the Fund with an equivalent or superior rate of return for a similar investment with a similar time horizon and similar risk.
- (3) Sufficient liquidity is maintained in the Fund to permit distributions in accordance with the terms of the plan.
- (4) The safeguards and diversity that a prudent investor would adhere to are present.

Where investment characteristics, including yield, risk, and liquidity are equivalent, the Fund's policy favors investments which will have a positive impact on the economy of North Dakota.

### Evaluation and Review

Investment management of the Fund will be evaluated against the Fund's investment objectives and investment performance standards. Evaluation will be conducted quarterly by the SIB through its review of funds participating in the Insurance Trust.

Money managers will be evaluated by the SIB quarterly. Instate meetings will be held with the money managers at least annually.

# ❖ND Cultural Endowment Fund Actual Asset Allocation – June 30, 2019

Asset Allocation		Fair Value	Percent of Total	One Year Return (net)
Global Equity	\$	261,708	55.1%	3.46%
Domestic Large Cap Equity		160,582	33.8%	8.25%
Domestic Small Cap Equity		53,157	11.2%	-5.26%
International Equity		47,969	10.1%	-2.46%
Global Fixed Income		175,523	36.9%	8.91%
Global Real Assets		24,025	5.1%	5.15%
Real Estate		24,025	5.1%	5.15%
Cash Equivalents		14,055	3.0%	2.15%
Total Fund	\$	475,311		6.02%
Policy Benchmark				6.91%
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# NORTH DAKOTA BUDGET STABILIZATION FUND

# **❖ND Budget Stabilization Fund**Investment Objectives and Policy Guidelines

#### Fund Characteristics and Constraints

The Budget Stabilization Fund (Fund) is a special fund created in 1987 under Chapter 54-27.2 of the North Dakota Century Code used to deposit general fund moneys in excess of appropriations. Notwithstanding the provisions of sections 54-27.2-01 and 54-27.2-02, \$124,936,548 was required to be transferred by the state treasurer to the budget stabilization fund from the general fund on July 1, 2009, along with \$61,414,562 on July 1, 2011 and \$181,060,584 on July 1, 2013. The statutory cap for the 2015-17 biennium is \$572,485,454. The state investment board shall supervise investment of the budget stabilization fund in accordance with chapter 21-10.

Any interest or other budget stabilization fund earnings must be deposited in the fund. Any amounts provided by law for deposit in the fund and any interest or earnings of the fund which would bring the balance in the fund to an amount greater than five percent of the current biennial state general fund budget, as finally approved by the most recently adjourned special or regular session of the legislative assembly, may not be deposited or retained in the fund but must be deposited instead in the state general fund.

If the director of the office of management and budget projects that general fund revenues for the biennium will be at least two and one-half percent less than estimated by the most recently adjourned special or regular session of the legislative assembly, and if the governor orders a transfer, the state treasurer shall transfer the appropriate funds from the budget stabilization fund to the state general fund to offset the decrease in general fund revenues. The amount transferred from the budget stabilization fund upon order of the governor may not exceed the difference between an amount two and one-half percent below the general fund revenue projections for the biennium and the general fund revenue projections for the biennium by the director of the office of management and budget.

# Responsibilities and Discretion of the State Investment Board (SIB)

The Fund is charged by law under NDCC 21-10-02.1 with the responsibility of establishing policies on investment goals and asset allocation of the Fund. The SIB is charged with implementing these policies and asset allocation and investing the assets of the Fund in a manner consistent with the prudent investor rule as provided in NDCC 21-10-07.

At the discretion of the SIB, the Fund's assets may be pooled with other funds. In pooling funds, the SIB may establish whatever asset class pools it deems necessary with specific quality, diversification, restrictions, and performance objectives appropriate to the prudent investor rule and objectives of the funds participating in the pools.

The SIB may delegate investment responsibility to professional money managers. When a money manager has been retained, the SIB's role in determining investment strategy and security selection is supervisory, not advisory. In accordance with this Investment Policy Statement, the Fund's assets may be invested directly or through collective investment vehicles.

The SIB is responsible for establishing criteria and procedures and making decisions with respect to hiring, maintaining, and terminating money managers. This responsibility includes selecting performance measurement services, consultants, and report formats and determining the frequency of meetings with managers.

The SIB will implement changes to this policy as promptly as is prudent.

#### **Investment Objectives**

The investment objectives of the Fund reflect the relatively unknown life-span and the moderate risk tolerance of the Fund. Operating and statutory considerations shape the Fund's policies and priorities as outlined below:

Objective: Sufficient liquidity is to be maintained to meet known or anticipated financial obligations and preserve the value of the surplus. Cash equivalent investments will be used to achieve this objective.

#### Standards of Investment Performance

The Fund's investment objectives are expressed in terms of reward and risk expectations relative to investable, passive benchmarks. The Fund's policy benchmark is comprised of policy mix weights of appropriate asset class benchmarks as set by the SIB:

- a. The Fund's rate of return, net of fees and expenses, should at least match that of the policy benchmark over a minimum evaluation period of five years.
- b. The risk-adjusted performance of the Fund, net of fees and expenses, should at least match that of the policy benchmark over a minimum evaluation period of five years.

#### Policy and Guidelines

The asset allocation of the Fund is established by the SIB, with input from the Legacy and Budget Stabilization Advisory Board. Asset allocation is based upon the appraisal of projected liquidity and income requirements, and estimates of the investment returns likely to be achieved by the various asset classes over the next five years.

In recognition of these factors, the following allocation is deemed appropriate for the fund:

Short-term Fixed Income Bank Loans w/floating yield Absolute Return Strategies Minimum of 90% Maximum of 5% Maximum of 5% On June 17, 2017, the Advisory Board acknowledged the Bank of North Dakota Match Loan Certificates of Deposit Program (BND CD) was transferred to the Legacy Fund in early-2017.

Rebalancing of the Fund to this target will be done in accordance with the SIB's rebalancing policy.

While the SIB is responsible for establishing specific quality, diversification, restrictions, and performance objectives for the investment vehicles in which the Fund's assets will be invested, it is understood that:

- Futures and options may be used to hedge or replicate underlying index exposure, but not for speculation.
- b. Derivative use will be monitored to ensure that undue risks are not taken by the money managers.
- c. All assets will be held in custody by the State Investment Board's master custodian or such other custodians as are acceptable to the State Investment Board.
- d. No funds shall be borrowed.
- e. No unhedged short sales or speculative margin purchases shall be made.
- f. Social investing is prohibited unless it meets the Exclusive Benefit Rule and it can be substantiated that the investment must provide an equivalent or superior rate of return for a similar investment with a similar time horizon and similar risk.

For the purpose of this document, Social Investing is defined as "The investment or commitment of public pension fund money for the purpose of obtaining an effect other than a maximized return to the intended beneficiaries."

g. Economically targeted investing is prohibited unless the investment meets the Exclusive Benefit Rule. For the purpose of this document economically targeted investment is defined as an investment designed to produce a competitive rate of return commensurate with risk involved, as well as to create collateral economic benefits for a targeted geographic area, group of people, or sector of the economy.

Also, for the purpose of this document, the Exclusive Benefit Rule is met if the following four conditions are satisfied:

- (1) The cost does not exceed the fair market value at the time of investment.
- (2) The investment provides the Fund with an equivalent or superior rate of return for a similar investment with a similar time horizon and similar risk.
- (3) Sufficient liquidity is maintained in the Fund to permit distributions in accordance with the terms of the plan.
- (4) The safeguards and diversity that a prudent investor would adhere to are present.

Where investment characteristics, including yield, risk, and liquidity are equivalent, the Fund's policy favors investments which will have a positive impact on the economy of North Dakota.

#### Evaluation and Review

Investment management of the Fund will be evaluated against the Fund's investment objectives and investment performance standards. Evaluation will be conducted quarterly by the SIB through its review of funds participating in the Insurance Trust.

Money managers will be evaluated by the SIB quarterly. Instate meetings will be held with the money managers at least annually.

# ❖ND Budget Stabilization Fund Actual Asset Allocation – June 30, 2019

		Fair	Percent	One Year
Asset Allocation		Value	of Total	Return (net)
Short-term Fixed Income Cash Equivalents	\$	116,031,262 2,675,869	97.7% 2.3%	2.17% 4.55%
Total Fund Policy Benchmark		118,707,131		4.51% 4.23%
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# NORTH DAKOTA ASSOCIATION OF COUNTIES

# **❖ND** Association of Counties (NDACo) Fund Investment Objectives and Policy Guidelines

#### **Introduction**

The North Dakota Association of Counties (NDACo) (Fund) was established to aid in the administration of county government by providing a medium for exchange of information, ideas, and experience of county officials; promote training; facilitate cooperation with all levels of government; and be a legislative advocate for counties. NDACo and the benefits provided there under are funded by dues from member counties and special programs and projects of NDACo.

# Responsibilities and Discretion of the State Investment Board (SIB)

NDACo has entered into a contract with the SIB for investment services as allowed under NDCC 21-10-06. It is the responsibility of NDACo to establish policies on investment goals and asset allocation of the Fund. The SIB is charged with implementing these policies and asset allocation and investing the assets of the Fund in a manner consistent with the prudent investor rule as provided in NDCC 21-10-07.

At the discretion of the SIB, the Fund's assets may be pooled with other funds. In pooling funds, the SIB may establish whatever asset class pools it deems necessary with specific quality, diversification, restrictions, and performance objectives appropriate to the prudent investor rule and objectives of the Fund participating in the pools.

The SIB may delegate investment responsibility to professional money managers. Where a money manager has been retained, the SIB's role in determining investment strategy and security selection is supervisory, not advisory.

The SIB is responsible for establishing criteria and procedures and making decisions with respect to hiring, maintaining, and terminating money managers. This responsibility includes selecting performance measurement services, consultants and report formats and determining the frequency of meetings with managers.

The SIB will implement changes to this policy as promptly as is prudent.

#### Risk Tolerance

Funds in excess of those required for operating and claims payment needs will be invested to obtain the maximum total return on investments consistent with safety of principal on funds in excess of those required for operating and claims payment needs. The investment funds may be comprised of fixed income securities and equity securities. Individual investments may be either actively or passively managed.

### **Investment Objective**

The Fund's investment objectives are expressed in terms of reward and risk expectations relative to investable, passive benchmarks. The Fund's policy benchmark is comprised of policy mix weights of appropriate asset class benchmarks as set by the SIB.

- The Fund's rate of return, net of fees and expenses, should at least match that of the policy benchmark over a minimum evaluation period of five years
- 2. Risk, as measured by the annual standard deviation of net returns for the Fund, should not exceed that of the policy portfolio by more than 100 basis points over a minimum evaluation period of five years.
- The risk-adjusted performance of the Fund, net of fees and expenses, should at least match that of the policy benchmark over a minimum evaluation period of five years.

### Policy Asset Mix

Asset allocation policy is critical because it defines the basic risk and return characteristics of the investment portfolio. Asset allocation targets are established using an asset allocation analysis designed to assist the Fund in determining an acceptable volatility target for the Fund and an optimal asset allocation policy mix. This analysis estimates the potential impact of various asset class mixes on key measures of total fund risk.

After consideration of all the inputs and a discussion concerning risk tolerance, the Fund approves the appropriate policy mix for the Fund.

Large Cap Equity	20%
Small Cap Equity	5%
International Equity	10%
Domestic Fixed Income	62%
Cash Equivalents	3%

While the Fund recognizes fluctuations in market values will lead to short-term deviations from policy targets, the Fund does not intend to engage in tactical asset allocations. Rebalancing of the Fund to this target will be done in accordance with the SIB's rebalancing policy, but not less than annually.

#### Restrictions

While the SIB is responsible for establishing specific quality, diversification, restrictions, and performance objectives for the investment vehicles in which the Fund's assets will be invested, it is understood that:

- a. Futures and options may be used to hedge or replicate underlying index exposure, but not for speculation.
- Derivative use will be monitored to ensure that undue risks are not taken by the money managers.
- c. No transaction may be made that would threaten the tax-exempt status of the Fund.
- d. All assets will be held in custody by the SIB's master custodian or such other custodians as are acceptable to the SIB.

- e. No unhedged short sales or speculative margin purchases shall be made.
- f. Social investing is prohibited unless it meets the Exclusive Benefit Rule and it can be substantiated that the investment must provide an equivalent or superior rate of return for a similar investment with a similar time horizon and similar risk.

For the purpose of this document, Social Investing is defined as "The investment or commitment of public pension fund money for the purpose of obtaining an effect other than a maximized return to the intended beneficiaries."

g. Economically targeted investing is prohibited unless the investment meets the Exclusive Benefit Rule.

For the purpose of this document economically targeted investment is defined as an investment designed to produce a competitive rate of return commensurate with risk involved, as well as to create collateral economic benefits for a targeted geographic area, group of people, or sector of the economy.

Also, for the purpose of this document, the Exclusive Benefit Rule is met if the following four conditions are satisfied:

- (1) The cost does not exceed the fair market value at the time of investment.
- (2) The investment provides the Fund with an equivalent or superior rate of return for a similar investment with a similar time horizon and similar risk.
- (3) Sufficient liquidity is maintained in the Fund to permit distributions in accordance with the terms of the plan.
- (4) The safeguards and diversity that a prudent investor would adhere to are present.

Where investment characteristics, including yield, risk, and liquidity are equivalent, the Fund's policy favors investments which will have a positive impact on the economy of North Dakota.

# **❖ ND Association of Counties (NDACo) Fund**Actual Asset Allocation − June 30, 2019

#### Fair Percent One Year Asset Allocation of Total Return (net) Value **Global Equity** 2,223,378 35.1% 3.19% Domestic Large Cap Equity 8.25% 1,269,310 20.0% Domestic Small Cap Equity 315,301 5.0% -5.26% International Equity 638,767 10.1% -2.46% Global Fixed Income 3,920,001 61.9% 8.98% Cash Equivalents 189,674 3.0% 2.15% **Total Fund** 6,333,053 7.12% **Policy Benchmark** 7.32% Columns may not foot due to rounding.

#### **Internal Controls**

A system of internal controls must be in place by the SIB to prevent losses of public funds arising from fraud or employee error. Such controls deemed most important are the separation of responsibilities for investment purchases from the recording of investment activity, custodial safekeeping, written confirmation of investment transactions, and established criteria for investment manager selection and monitoring. The annual financial audit must include a comprehensive review of the portfolio, accounting procedures for security transactions, and compliance with the investment policy.

### **Evaluation and Review**

Investment management of the Fund will be evaluated against the Fund's investment objectives and investment performance standards. Emphasis will be placed on five year results. Evaluation should include an assessment of the continued feasibility of achieving the investment objectives and the appropriateness of the Investment Policy Statement for achieving those objectives.

Performance reports will be provided to the Insurance Department periodically, but not less than annually. Such reports will include asset returns and allocation data as well as information regarding all significant and/or material matters and changes pertaining to the investment of the Fund, including but not limited to:

- A list of advisory services managing investments for the Board.
- 2. A list of investments at market value, compared to the previous reporting period, of each fund managed by each advisory service.
- 3. Earnings, percentage earned, and change in market value of each fund's investments.
- Comparison of the performance of each fund managed by each advisory service to other funds under the Board's control and to generally accepted market indicators.
- 5. All material legal or legislative proceedings affecting the SIB.
- 6. Compliance with this investment policy statement.

# CITY OF BISMARCK DEFERRED SICK LEAVE ACCOUNT

# \*City of Bismarck Deferred Sick Leave Investment Objectives and Policy Guidelines

#### Fund Characteristics and Constraints

The City of Bismarck Deferred Sick Leave Account (the Fund) represents money set aside to cover the City's unfunded liability of employees' accrued sick leave. People who terminate employment with the City shall be compensated for unused sick leave from this Fund. In time, it is expected that the Fund will become depleted.

# Responsibilities and Discretion of the State Investment Board (SIB)

The City of Bismarck (Client) has entered into a contract with the SIB for investment services as allowed under NDCC 21-10-06. It is the responsibility of the Client to establish policies on investment goals and asset allocation of the Fund. The SIB is charged with implementing these policies and asset allocation and investing the assets of the Fund in a manner consistent with the prudent investor rule as provided in NDCC 21-10-07.

At the discretion of the SIB, the Fund's assets may be pooled with other funds. In pooling funds, the SIB may establish appropriate asset class pools designed to provide specific quality and diversification guidelines, restrictions, and performance objectives consistent with the goals of the funds participating in the pools.

The SIB may delegate investment responsibility to professional money managers. Where a money manager has been retained, the SIB's role in determining investment strategy and security selection is supervisory, not advisory.

The SIB is responsible for establishing criteria and procedures and making decisions with respect to hiring, maintaining, and terminating money managers. This responsibility includes selecting performance measurement services, consultants and report formats and determining the frequency of meetings with managers.

The SIB will implement changes to this policy as promptly as is prudent.

#### **Investment Objectives**

The investment objectives are to obtain a reasonable rate of return on the Fund while maintaining sufficient liquidity to meet known or anticipated financial obligations. Operating considerations shape the Fund's policies and priorities as outlined below:

Objective #1: Investment income is needed as a funding source. This will be achieved through a diversified portfolio of high quality fixed income and equity assets.

Objective #2: Growth of capital is needed to provide an inflationary hedge and add to the growth of the Fund. Capital growth is sought through investment in equities and/or equity substitutes.

#### Standards of Investment Performance

The Fund's investment objectives and liquidity constraints give rise to an asset allocation that is considered the most likely to achieve the results desired. For evaluation purposes, the following performance targets will apply:

- a. The Fund should produce a rate of return that meets or exceeds the portfolio policy index defined as 15% S&P 500 domestic stock index, 5% Russell 2000 domestic small cap index, 10% MSCI EAFE international stock index, 65% Barclays Capital Aggregate domestic bond index, and 5% 90-day Treasury Bills.
- b. The annual standard deviation of total returns for the Fund should be consistent with that of the policy portfolio.
- c. Over 10 year and longer time periods the Fund should match or exceed the expected 6.00% rate of return based on Callan Associates' 2005 market projections. Expected risk for the period, measured by standard deviation, is 6.50%.

# Policy and Guidelines

The asset allocation of the Fund is established by the City of Bismarck. Asset allocation is based upon the appraisal of projected liquidity requirements and sick leave payment demand, and estimates of the investment returns likely to be achieved by the various asset classes over the next five years.

In recognition of these factors, the following allocation is deemed appropriate for the Fund:

Large Cap Domestic Equity	15%
Small Cap Domestic Equity	5%
International Equity	10%
Fixed Income	65%
Cash Equivalents	5%

Rebalancing of the Fund to this target will be done in accordance with the SIB's rebalancing policy.

While the SIB is responsible for establishing specific quality, diversification, restrictions, and performance objectives for the investment vehicles in which the Fund's assets will be invested, it is understood that:

- a. Futures and options may be used to hedge or replicate underlying index exposure, but not for speculation.
- b. Derivative use will be monitored to ensure that undue risks are not taken by the money managers.
- c. All assets will be held in custody by the SIB's master custodian or such other custodians as are acceptable to the SIB.
- d. No funds shall be borrowed.
- e. No unhedged short sales or speculative margin purchases shall be made.
- f. Social investing is prohibited unless it meets the Exclusive Benefit Rule and it can be substantiated that the investment must provide an equivalent or superior rate of return for a similar investment with a similar time horizon and similar risk.

For the purpose of this document, Social Investing is defined as "The investment or commitment of public fund money for the purpose of obtaining an effect other than a maximized return to the intended beneficiaries."

g. Economically targeted investing is prohibited unless the investment meets the Exclusive Benefit Rule.

For the purpose of this document economically targeted investment is defined as an investment designed to produce a competitive rate of return commensurate with risk involved, as well as to create collateral economic benefits for a targeted geographic area, group of people, or sector of the economy.

Also, for the purpose of this document, the Exclusive Benefit Rule is met if the following four conditions are satisfied:

- The cost does not exceed the fair market value at the time of investment.
- (2) The investment provides the Fund with an equivalent or superior rate of return for a similar investment with a similar time horizon and similar risk.
- (3) Sufficient liquidity is maintained in the Fund to permit distributions in accordance with the terms of the plan.
- (4) The safeguards and diversity that a prudent investor would adhere to are present.

Where investment characteristics, including yield, risk, and liquidity are equivalent, the Fund's policy favors investments which will have a positive impact on the economy of North Dakota.

#### Evaluation and Review

Investment management of the Fund will be evaluated against the Fund's investment objectives and investment performance standards. Evaluation will be conducted quarterly by the SIB through its review of funds participating in the Insurance Trust.

Money managers will be evaluated by the SIB quarterly. Instate meetings will be held with the money managers at least annually.

### City of Bismarck Deferred Sick Leave Actual Asset Allocation – June 30, 2019

Asset Allocation		Fair Value	Percent of Total	One Year Return (net)
Global Equity	\$	234,765	30.1%	2.36%
Domestic Large Cap Equity		117,253	15.0%	8.25%
Domestic Small Cap Equity		38,869	5.0%	-5.26%
International Equity		78,643	10.1%	-2.46%
Global Fixed Income		505,977	64.9%	8.84%
Cash Equivalents		38,855	5.0%	2.15%
Total Fund	\$	779,597		6.90%
Policy Benchmark	-			7.06%
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# NDPERS GROUP INSURANCE ACCOUNT

# NDPERS Group Insurance Account Investment Objectives and Policy Guidelines

# Introduction

The ND Public Employees Retirement System (PERS) Group Insurance Account (the Fund) was established to hold insurance premiums collected from employers until paid to the insurance carrier.

# Responsibilities and Discretion of the State Investment Board (SIB)

PERS has entered into a contract with the SIB for investment services as allowed under NDCC 21-10-06. It is the responsibility of PERS to establish policies on investment goals and asset allocation of the Fund. The SIB is charged with implementing these policies and asset allocation and investing the assets in a manner consistent with the prudent investor rule as provided in NDCC 21-10-07.

At the discretion of the SIB, the Fund's assets may be pooled with other funds. In pooling funds, the SIB may establish whatever asset class pools it deems necessary with specific quality, diversification, restrictions, and performance objectives appropriate to the prudent investor rule and objectives of the funds participating in the pools.

The SIB may delegate investment responsibility to professional money managers. Where a money manager has been retained, the SIB's role in determining investment strategy and security selection is supervisory, not advisory.

The SIB is responsible for establishing criteria and procedures and making decisions with respect to hiring, maintaining, and terminating money managers. This responsibility includes selecting performance measurement services, consultants and report formats and determining the frequency of meetings with managers.

The SIB will implement changes to this policy as promptly as is prudent.

### **Investment Objectives**

Premiums are collected throughout the month at PERS and will be forwarded to the Fund investment account on the 1<sup>st</sup> and 15<sup>th</sup> of each month. The premiums transferred into the investment account will be transferred back to PERS on approximately the 22<sup>nd</sup> of each month so they may be remitted to the insurance carrier. The investment objective of the Fund is to maximize the return on the deposits within the short-term time-frame involved.

#### Standards of Investment Performance

The Fund's investment objectives and liquidity constraints give rise to an asset allocation that is considered the most likely to achieve the results desired. For evaluation purposes, the following performance targets will apply:

- The Fund should produce a rate of return that meets or exceeds the portfolio policy index defined as the 90day Treasury bill.
- b. The annual standard deviation of total returns for the Fund should not materially exceed that of the policy portfolio.

### Policy and Guidelines

The asset allocation of the Fund is established by PERS, with input from the SIB. Asset allocation is based upon the appraisal of projected liquidity and income requirements, and estimates of the investment returns likely to be achieved by the various asset classes over the next five years. In recognition of this factor, the following allocation is deemed appropriate for the Fund:

Short Term Fixed Income 95% (not to exceed \$36m)
Cash Equivalents 5%

This cash will be held in an enhanced money market account at the Fund's custodian.

While the SIB is responsible for establishing specific quality, diversification, restrictions, and performance objectives for the investment vehicles in which the Fund's assets will be invested, it is understood that:

- a. Futures and options may be used to hedge or replicate underlying index exposure, but not for speculation.
- b. Derivative use will be monitored to ensure that undue risks are not taken by the money managers.
- c. No transaction may be made that would threaten the tax-exempt status of the Fund.
- d. All assets will be held in custody by the SIB's master custodian or such other custodians as are acceptable to the SIB.
- e. No unhedged short sales or speculative margin purchases shall be made.
- f. Social investing is prohibited unless it meets the Exclusive Benefit Rule and it can be substantiated that the investment must provide an equivalent or superior rate of return for a similar investment with a similar time horizon and similar risk.

For the purpose of this document, Social Investing is defined as "The investment or commitment of public pension fund money for the purpose of obtaining an

effect other than a maximized return to the intended beneficiaries."

g. Economically targeted investing is prohibited unless the investment meets the Exclusive Benefit Rule.

For the purpose of this document economically targeted investment is defined as an investment designed to produce a competitive rate of return commensurate with risk involved, as well as to create collateral economic benefits for a targeted geographic area, group of people, or sector of the economy.

Also, for the purpose of this document, the Exclusive Benefit Rule is met if the following four conditions are satisfied:

- (1) The cost does not exceed the fair market value at the time of investment.
- (2) The investment provides the Fund with an equivalent or superior rate of return for a similar investment with a similar time horizon and similar risk.

- (3) Sufficient liquidity is maintained in the Fund to permit distributions in accordance with the terms of the plan.
- (4) The safeguards and diversity that a prudent investor would adhere to are present.

Where investment characteristics, including yield, risk, and liquidity are equivalent, the Fund's policy favors investments which will have a positive impact on the economy of North Dakota.

### **Evaluation and Review**

Investment management of the Fund will be evaluated against the Fund's investment objectives and investment performance standards. Evaluation will be conducted quarterly by the SIB through its review of funds participating in the Insurance Trust.

Money managers will be evaluated by the SIB quarterly. Instate meetings will be held with the money managers at least annually.

# **❖NDPERS** Group Insurance Account Actual Asset Allocation – June 30, 2019

	Fair	Percent	One Year
Asset Allocation	Value	of Total	Return (net)
Short Term Fixed Income Cash Equivalents	\$ 28,187,487 2,879,633	90.7% 9.3%	4.55% 2.15%
Total Fund	\$ 31,067,120		4.20%
Policy Benchmark			3.97%

# CITY OF FARGO FARGODOME PERMANENT FUND

# City of Fargo FargoDome Permanent Fund Investment Objectives and Policy Guidelines

#### Fund Characteristics and Constraints

The City of Fargo has set aside excess sales tax collections intended for the administration of the FargoDome in the FargoDome Permanent Fund (Fund). This fund is intended to provide financial resources necessary for the ongoing upkeep of this large City owned facility over a long term time horizon.

#### Responsibilities of the State Investment Board (SIB)

The City of Fargo (Client) has entered into a contract with the SIB for investment services as allowed under NDCC 21-10-06. It is the responsibility of the Client to establish policies on investment goals and asset allocation of the Fund. The SIB is charged with implementing these policies and asset allocation and investing the Fund in a manner consistent with the prudent investor rule as provided in NDCC 21-10-07.

At the discretion of the SIB, the Fund's assets may be pooled with other funds. In pooling funds, the SIB may establish whatever asset class pools it deems necessary with specific quality, diversification, restrictions, and performance objectives appropriate to the prudent investor rule and objectives of the funds participating in the pools.

The SIB may delegate investment responsibility to professional money managers. When a money manager has been retained, the SIB's role in determining investment strategy and security selection is supervisory, not advisory.

The SIB is responsible for establishing criteria and procedures and making decisions with respect to hiring, maintaining, and terminating money managers. This responsibility includes selecting performance measurement services, consultants, and report formats and determining the frequency of meetings with managers.

The SIB will implement changes to this policy as promptly as is prudent.

#### **Investment Objectives**

The investment objectives are to obtain a reasonable rate of return on the Fund while maintaining sufficient liquidity to meet known or anticipated financial obligations. Operating considerations shape the Fund's policies and priorities as outlined below:

Objective #1: Investment income is needed as a funding source. This will be achieved through a diversified portfolio of high quality fixed income and equity assets.

Objective #2: Growth of capital is needed to provide an inflationary hedge and add to the growth of the Fund. Capital growth is sought through investment in equities and/or equity substitutes.

#### Standards of Investment Performance

The Fund's investment objectives are expressed in terms of reward and risk expectations relative to investable, passive benchmarks. The Fund's policy benchmark is comprised of policy mix weights of appropriate asset class benchmarks as set by the SIB.

- 1. The fund's rate of return, net of fees and expenses, should at least match that of the policy benchmark over a minimum evaluation period of five years.
- The fund's risk, measured by the standard deviation of the net returns, should not exceed 115% of the policy benchmark over a minimum evaluation period of five years.
- 3. The risk-adjusted performance of the fund, net of fees and expenses, should at least match that of the policy benchmark over a minimum evaluation period of five years.

#### Policy and Guidelines

The asset allocation of the Fund is established by the City of Fargo Finance Committee, with input from RIO staff. Asset allocation is based upon the appraisal of projected liquidity and income requirements, and estimates of the investment returns likely to be achieved by the various asset classes over the next five years.

In recognition of these factors, the following allocation is deemed appropriate for the fund:

Large Cap Domestic Equity	23%
Small Cap Domestic Equity	12%
International Equity	15%
Fixed Income	39%
Inflation Protected Assets	10%
Cash Equivalents	1%

Rebalancing of the Fund to this target will be done in accordance with the SIB's rebalancing policy.

While the SIB is responsible for establishing specific quality, diversification, restrictions, and performance objectives for the investment vehicles in which the Fund's assets will be invested, it is understood that:

- Futures and options may be used to hedge or replicate underlying index exposure, but not for speculation.
- Derivative use will be monitored to ensure that undue risks are not taken by the money managers.
- c. All assets will be held in custody by the State Investment Board's master custodian or such other custodians as are acceptable to the State Investment Board.
- d. No funds shall be borrowed.

- e. No unhedged short sales or speculative margin purchases shall be made.
- f. Social investing is prohibited unless it meets the Exclusive Benefit Rule and it can be substantiated that the investment must provide an equivalent or superior rate of return for a similar investment with a similar time horizon and similar risk.

For the purpose of this document, Social Investing is defined as "The investment or commitment of public pension fund money for the purpose of obtaining an effect other than a maximized return to the intended beneficiaries."

 g. Economically targeted investing is prohibited unless the investment meets the Exclusive Benefit Rule.

For the purpose of this document economically targeted investment is defined as an investment designed to produce a competitive rate of return commensurate with risk involved, as well as to create collateral economic benefits for a targeted geographic area, group of people, or sector of the economy.

Also, for the purpose of this document, the Exclusive Benefit Rule is met if the following four conditions are satisfied:

- (1) The cost does not exceed the fair market value at the time of investment.
- (2) The investment provides the Fund with an equivalent or superior rate of return for a similar investment with a similar time horizon and similar risk.

- (3) Sufficient liquidity is maintained in the Fund to permit distributions in accordance with the terms of the plan.
- (4) The safeguards and diversity that a prudent investor would adhere to are present.

Where investment characteristics, including yield, risk, and liquidity are equivalent, the Fund's policy favors investments which will have a positive impact on the economy of North Dakota.

#### **Internal Controls**

The SIB must have a system of internal controls to prevent losses of public funds arising from fraud or employee error. The controls deemed most important are the separation of responsibilities for investment purchases from the recording of investment activity, custodial safekeeping, written confirmation of transactions, and established criteria for broker relationships. The annual financial audit must include a comprehensive review of the portfolio, accounting procedures for security transactions and compliance with the investment policy.

#### Evaluation and Review

Investment management of the Fund will be evaluated against the Fund's investment objectives and investment performance standards. Evaluation will be conducted quarterly by the SIB through its review of funds participating in the Insurance Trust.

Money managers will be evaluated by the SIB quarterly. Instate meetings will be held with the money managers at least annually.

# **❖City of Fargo FargoDome Permanent Fund** Actual Asset Allocation − June 30, 2019

		Fair	Percent	One Year
Asset Allocation		Value	of Total	Return (net)
Global Equity	\$	22,474,206	50.1%	1.74%
Domestic Large Cap Equity		10,335,999	23.1%	8.25%
Domestic Small Cap Equity		5,355,338	11.9%	-5.26%
International Equity		6,782,869	15.1%	-2.46%
Global Fixed Income		17,466,765	39.0%	7.22%
Global Real Assets		4,451,532	9.9%	3.51%
Diversified Real Assets		4,451,532	9.9%	3.51%
Cash Equivalents		448,129	1.0%	2.15%
Total Fund	\$	44,840,632		5.13%
Policy Benchmark				6.07%
<u> </u>				
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# ND STATE BOARD OF MEDICINE FUND

# **❖ND State Board of Medicine Fund**Investment Objectives and Policy Guidelines

### Plan Characteristics and Fund Constraints

The North Dakota State Board of Medicine (the Board) was established in 1890 to protect the citizens of the state by regulating the practice of medicine. The Board licenses physicians, physician assistants, genetic counselors and fluoroscopy technicians and disciplines them if they violate the state's medical practice act. The North Dakota State Board of Medicine is governed by NDCC Chapter 43-17.

The North Dakota State Board of Medicine Fund (the Fund) is an unrestricted operating reserve set aside to provide a margin of safety and stability in the Board's operating activities, and provide flexibility to pursue capital projects as needed.

#### **Fund Goals**

The investment objectives of the Fund reflect a low risk tolerance and short-term liquidity needs. Operating considerations shape the Fund's policies and priorities as outlined below:

Objective #1: Investment income is needed as a funding source. This will be achieved through a diversified portfolio of high quality fixed income, equities and real estate.

Objective #2: Growth of capital is needed to preserve the real purchasing power of Fund assets. Capital growth is sought through investment in equities and/or equity substitutes.

Objective #3: Sufficient liquidity will be maintained to meet known or anticipated financial obligations. Cash equivalent investments shall be used to achieve this objective.

# Responsibilities and Discretion of the State Investment Board (SIB)

The Board has entered into a contract with the SIB for investment services as allowed under NDCC 21-10-06. The Board is responsible for establishing policies on investment goals and asset allocation of the Fund. The SIB is charged with implementing these policies and investing the assets of the Fund in the manner provided in NDCC 21-10-07, the prudent investor rule. Under this rule, the fiduciaries shall exercise the judgment and care, under the circumstances then prevailing, that an institutional investor of ordinary prudence, discretion, and intelligence exercises in the management of large investments entrusted to it, not in regard to speculation but in regard to the permanent disposition of funds, considering probable safety of capital as well as probable income. The Fund must be invested exclusively for the benefit of the members and their beneficiaries in accordance with this investment policy.

Management responsibility for the investment program not assigned to the SIB in Chapter 21-10 of the North Dakota Century Code (NDCC) is hereby delegated to the SIB, who must establish written policies for the operation of the investment program, consistent with this investment policy.

The SIB may delegate investment responsibility to professional money managers. Where a money manager has been retained, the SIB's role in determining investment strategy and security selection is supervisory, not advisory.

At the discretion of the SIB, the Fund's assets may be pooled with other funds. In pooling funds, the SIB may establish whatever asset class pools it deems necessary with specific quality, diversification, restrictions, and performance objectives appropriate to the prudent investor rule and the objectives of the funds participating in the pools.

The SIB is responsible for establishing criteria, procedures, and making decisions with respect to hiring, keeping, and terminating money managers. SIB investment responsibility also includes selecting performance measurement services, consultants, report formats, and frequency of meetings with managers.

The SIB will implement changes to this policy as promptly as is prudent.

#### Risk Tolerance

The Board's risk tolerance with respect to the management of the Fund's asset is low. The Board is unwilling to undertake investment strategies that might jeopardize the ability of the Fund to maintain principal value over time.

#### **Investment Objectives**

The Board's investment objectives are expressed in terms of reward and risk expectations relative to investable, passive benchmarks. The Fund's policy benchmark is comprised of policy mix weights of appropriate asset class benchmarks as set by the SIB.

- 1. The fund's rate of return, net of fees and expenses, should at least match that of the policy benchmark over a minimum evaluation period of five years.
- 2. The fund's risk, measured by the standard deviation of net returns, should not exceed 115% of the policy benchmark over a minimum evaluation period of five years.
- The risk-adjusted performance of the fund, net of fees and expenses, should at least match that of the policy benchmark over a minimum evaluation period of five years.

#### Policy Asset Mix

Asset allocation policy is critical because it defines the basic risk and return characteristics of the investment portfolio. Asset allocation targets are established using an asset allocation analysis designed to assist the Board in determining an acceptable volatility target for the fund and an optimal asset allocation policy mix. This analysis estimates the potential impact of various asset class mixes on key measures of total Fund risk.

After consideration of all the inputs and a discussion concerning risk tolerance, the Board approves the appropriate policy asset mix for the Fund.

Large Cap Domestic Equity	11%
Small Cap Domestic Equity	3%
International Equity	7%
Fixed Income	12%
Real Estate	2%
Short-term Fixed Income	65%

While the Board recognizes fluctuations in market values will lead to short-term deviations from policy targets, the Board does not intend to engage in tactical asset allocation. Rebalancing of the Fund to this target will be done in accordance with the SIB's rebalancing policy, but not less than annually.

#### Restrictions

While the SIB is responsible for establishing specific quality, diversification, restrictions, and performance objectives for the investment vehicles in which the Fund's assets will be invested, it is understood that:

- a. Futures and options may be used to hedge or replicate underlying index exposure, but not for speculation.
- b. Derivative use will be monitored to ensure that undue risks are not taken by the money managers.
- c. No transaction shall be made which threatens the tax exempt status of the Fund.
- d. All assets will be held in custody by the SIB's master custodian or such other custodians as are acceptable to the SIB.
- e. No unhedged short sales or speculative margin purchases shall be made.
- f. Social investing is prohibited unless it meets the Exclusive Benefit Rule and it can be substantiated that the investment must provide an equivalent or superior rate of return for a similar investment with a similar time horizon and similar risk.

For the purpose of this document, Social Investing is defined as "The investment or commitment of public pension fund money for the purpose of obtaining an effect other than a maximized return to the intended beneficiaries."

 g. Economically targeted investing is prohibited unless the investment meets the Exclusive Benefit Rule.

For the purpose of this document economically targeted investment is defined as an investment designed to produce a competitive rate of return commensurate with risk involved, as well as to create collateral economic benefits for a targeted geographic area, group of people, or sector of the economy.

Also, for the purpose of this document, the Exclusive Benefit Rule is met if the following four conditions are satisfied:

- (1) The cost does not exceed the fair market value at the time of investment.
- (2) The investment provides the Fund with an equivalent or superior rate of return for a similar investment with a similar time horizon and similar risk.
- (3) Sufficient liquidity is maintained in the Fund to permit distributions in accordance with the terms of the plan.
- (4) The safeguards and diversity that a prudent investor would adhere to are present.

Where investment characteristics, including yield, risk, and liquidity are equivalent, the Board's policy favors investments which will have a positive impact on the economy of North Dakota.

### **Internal Controls**

A system of internal controls must be in place by the SIB to prevent losses of public funds arising from fraud or employee error. Such controls deemed most important are the separation of responsibilities for investment purchases from the recording of investment activity, custodial safekeeping, written confirmation of investment transactions, and established criteria for investment manager selection and monitoring. The annual financial audit must include a comprehensive review of the portfolio, accounting procedures for security transactions and compliance with the investment policy.

### **Evaluation and Review**

Investment management of the Fund will be evaluated against the Fund's investment objectives. Emphasis will be placed on five year results. Evaluation should include an assessment of the continued feasibility of achieving the investment objectives and the appropriateness of the Investment Policy Statement for achieving those objectives.

Performance reports will be provided to the BCEPP Board periodically, but not less than annually. Such reports will include asset returns and allocation data as well as information regarding all significant and/or material matters and changes pertaining to the investment of the Fund, including, but not limited to:

- 1. A list of the advisory services managing investments for the SIB.
- 2. A list of investments at market value, compared to previous reporting period, of each account managed by each advisory service.
- 3. Earnings, percentage earned, and change in market value of each account's investments.
- Comparison of the performance of each account managed by each advisory service to other accounts under the SIB's control and to generally accepted market indicators.
- 5. All material legal or legislative proceedings affecting the SIB.
- 6. Compliance with this investment policy statement.

# **❖ND State Board of Medicine Fund** Actual Asset Allocation – June 30, 2019

		Fair	Percent	One Year
Asset Allocation		Value	of Total	Return (net)
Global Equity	\$	498,587	21.1%	2.69%
Domestic Large Cap Equity		260,805	11.0%	8.25%
Domestic Small Cap Equity		70,671	3.0%	-5.26%
International Equity		167,111	7.1%	-2.46%
Global Fixed Income		283,643	12.0%	8.90%
Global Real Assets		46,859	2.0%	5.15%
Real Estate		46,859	2.0%	5.15%
Short-Term Fixed Income		1,522,387	64.4%	4.55%
Cash Equivalents		10,909	0.5%	2.15%
Total Fund	\$	2,362,385		4.98%
Policy Benchmark				5.22%
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# LEWIS & CLARK INTERPRETIVE CENTER ENDOWMENT FUND

# Lewis & Clark Interpretive Center Endowment Investment Objectives and Policy Guidelines

#### Fund Characteristics and Constraints

The Lewis & Clark Interpretive Center Endowment Fund (Fund) was created in 2003 exclusively for the maintenance, repair and upkeep of the ND Lewis & Clark Interpretive Center/Rest Area, for programming and facility improvements. The original principal was endowed to the North Dakota Lewis & Clark Bicentennial Foundation who transferred the funds to the North Dakota Parks and Recreation Department (Parks and Rec) in 2017.

### Fund Goals

It is the intention of Parks and Rec to utilize the earnings of the Fund to supplement its biennial appropriation for the maintenance of the Lewis & Clark Interpretive Center.

# Responsibilities and Discretion of the State Investment Board (SIB)

Parks and Rec has entered into a contract with the SIB for investment services as allowed under 21-10-06. Parks and Rec is responsible for establishing policies on investment goals and asset allocation of the Fund. The SIB is charged with implementing these policies and asset allocation and investing the assets of the Fund in a manner provided in NDCC 21-10-07, the prudent investor rule. Under this rule, the fiduciaries shall exercise the judgment and care, under the circumstances then prevailing, that an institutional investor of ordinary prudence, discretion, and intelligence exercises in the management of large investments entrusted to it, not in regard to speculation but in regard to the permanent disposition of funds, considering probably safety of capital as well as probable income.

Management responsibility for the investment program not assigned to the SIB in NDCC Chapter 21-10 is hereby delegated to the SIB, which must establish written policies for the operation of the investment program consistent with this investment policy.

The SIB may delegate investment responsibility to professional money managers. When a money manager has been retained, the SIB's role in determining investment strategy and security selection is supervisory, not advisory.

The SIB is responsible for establishing criteria and procedures and making decisions with respect to hiring, maintaining, and terminating money managers. SIB investment responsibility includes selecting performance measurement services, consultants, report formats and frequency of meetings with managers.

The SIB will implement changes to this policy as promptly as is prudent.

#### Risk Tolerance

Parks and Rec is unwilling to undertake investment strategies that might jeopardize the ability of the Fund to maintain principal value over the long-term.

#### **Investment Objectives**

Parks and Rec's investment objectives are expressed in terms of reward and risk expectations relative to investable, passive benchmarks. The Fund's policy benchmark is comprised of policy mix weights of appropriate asset class benchmarks as set by the SIB:

- a. The Fund's rate of return, net of fees and expenses, should at least match that of the policy benchmark over a minimum evaluation period of five years.
- b. Risk, as measured by annual standard deviation of net returns for the Fund, should not exceed that of the policy benchmark by more than 100 basis points over a minimum evaluation period of five years.
- c. The risk-adjusted performance of the Fund, net of fees and expenses, should at least match that of the policy benchmark over a minimum evaluation period of five years.

#### Policy Asset Mix

Asset allocation policy is critical because it defines the basic risk and return characteristics of the investment portfolio. Asset allocation targets are established using an asset-liability analysis designed to assist Parks and Rec in determining an acceptable volatility target for the Fund and an optimal asset allocation policy mix. This analysis estimates the potential impact of various asset class mixes on key measures of total fund risk.

After consideration of all the inputs and discussion of its own collective risk tolerance, Parks and Rec approves the appropriate policy asset mix for the Fund.

Global Equity	35%
Global Fixed Income	64%
Cash Equivalents	1%

While Parks and Rec recognizes fluctuations in market values will lead to short-term deviations from policy targets, Parks and Rec does not intend to engage in tactical asset allocation. Rebalancing of the Fund to this target will be done in accordance with the SIB's rebalancing policy, but not less than annually.

#### Restrictions

While the SIB is responsible for establishing specific quality, diversification, restrictions, and performance objectives for the investment vehicles in which the Fund's assets will be invested, it is understood that:

- a. Futures and options may be used to hedge or replicate underlying index exposure, but not for speculation.
- b. Derivative use will be monitored to ensure that undue risks are not taken by the money managers.
- c. No transaction may be made that would threaten the tax-exempt status of the Fund.
- d. All assets will be held in custody by the SIB's master custodian or such other custodians as are acceptable to the SIB.
- No unhedged short sales or speculative margin purchases shall be made.
- f. Social investing is prohibited unless it meets the Exclusive Benefit Rule and it can be substantiated that the investment must provide an equivalent or superior rate of return for a similar investment with a similar time horizon and similar risk.

For the purpose of this document, Social Investing is defined as "The investment or commitment of public pension fund money for the purpose of obtaining an effect other than a maximized return to the intended beneficiaries."

g. Economically targeted investing is prohibited unless the investment meets the Exclusive Benefit Rule.

For the purpose of this document economically targeted investment is defined as an investment designed to produce a competitive rate of return commensurate with risk involved, as well as to create collateral economic benefits for a targeted geographic area, group of people, or sector of the economy.

Also, for the purpose of this document, the Exclusive Benefit Rule is met if the following four conditions are satisfied:

- (1) The cost does not exceed the fair market value at the time of investment.
- (2) The investment provides the Fund with an equivalent or superior rate of return for a similar investment with a similar time horizon and similar risk.
- (3) Sufficient liquidity is maintained in the Fund to permit distributions in accordance with the terms of the plan.

(4) The safeguards and diversity that a prudent investor would adhere to are present. Where investment characteristics, including yield, risk, and liquidity are equivalent, the Fund's policy favors investments which will have a positive impact on the economy of North Dakota.

#### **Internal Controls**

A system of internal controls must be in place by the SIB to prevent losses of public funds arising from fraud or employee error. Such controls deemed most important are the separation of responsibilities for investment purchases from the recording of investment activity, custodial safekeeping, written confirmation of investment transactions, and established criteria for investment manager selection and monitoring. The annual financial audit must include a comprehensive review of the portfolio, accounting procedures for security transactions, and compliance with the investment policy.

### **Evaluation and Review**

Investment management of the Fund will be evaluated against the Fund's investment objectives and investment performance standards. Emphasis will be placed on five year results. Evaluation should include an assessment of the continued feasibility of achieving the investment objectives and the appropriateness of the Investment Policy Statement for achieving those objectives.

Performance reports will be provided to Parks and Rec quarterly and investment performance presentations will be provided to Parks and Rec upon request, but not less than annually. Such reports will include asset returns and allocation data as well as information regarding all significant and/or material matters and changes pertaining to the investment of the Fund, including but not limited to:

- A list of advisory services managing investments for Parks and Rec.
- 2. A list of investments at market value, compared to the previous reporting period, of each fund managed by each advisory service.
- 3. Earnings, percentage earned, and change in market value of each fund's investments.
- Comparison of the performance of each fund managed by each advisory service to other funds under the Board's control and to generally accepted market indicators.
- 5. All material legal or legislative proceedings affecting the SIB.
- Compliance with this investment policy statement.

# **❖**Lewis & Clark Interpretive Center Endowment Actual Asset Allocation – June 30, 2019

Asset Allocation		Fair Value	Percent of Total	One Year Return (net)
Global Equity	\$	264,050	35.1%	4.25%
Domestic Large Cap Equity		128,076	17.0%	8.25%
Domestic Small Cap Equity		37,394	5.0%	-5.26%
International Equity		98,580	13.1%	-2.46%
Global Fixed Income		480,200	63.9%	9.11%
Cash Equivalents		7,513	1.0%	2.15%
Total Fund	\$	751,763		6.99%
Policy Benchmark		<u> </u>		7.15%
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# NORTH DAKOTA LEGACY FUND

# **❖ND Legacy Fund**Investment Objectives and Policy Guidelines

#### Plan Characteristics and Fund Constraints

The North Dakota Legacy Fund was created in 2010 when the voters of North Dakota approved a constitutional amendment-now Article X, Section 26, of the Constitution of North Dakota-to provide that 30 percent of oil and gas gross production and oil extraction taxes on oil and gas produced after June 30, 2011, be transferred to the Legacy Fund. The principal and earnings of the Legacy Fund may not be spent until after June 30, 2017, and any expenditure of principal after that date requires a vote of at least twothirds of the members elected to each house of the Legislative Assembly. Not more than 15 percent of the principal of the Legacy Fund may be spent during a biennium. The Legislative Assembly may transfer funds from any source to the Legacy Fund and such transfers become part of the principal of the Fund. The State Investment Board (SIB) is responsible for investment of the principal of the Legacy Fund. Interest earnings accruing after June 30, 2017, are transferred to the general fund at the end of each biennium. Section 21-10-11 provides that the goal of investment for the Legacy Fund is principal preservation while maximizing total return.

#### Fund Mission

The Legacy Fund (Fund) was created, in part, due to the recognition that state revenue from the oil and gas industry will be derived over a finite timeframe. The Legacy Fund defers the recognition of 30 percent of this revenue for the benefit of future generations. The primary mission of the Legacy Fund is to preserve the real, inflation-adjusted purchasing power of the monies deposited into the Fund while maximizing total return.

# Responsibilities and Discretion of the State Investment Board (SIB)

The Legacy and Budget Stabilization Fund Advisory Board (Advisory Board) is charged by law under NDCC 21-10-11 with the responsibility of recommending policies on investment goals and asset allocation of the Fund. The SIB is charged with implementing these policies and asset allocation and investing the assets of the Fund in the manner provided in NDCC 21-10-07, the prudent institutional investor rule. The fiduciaries shall exercise the judgment and care, under the circumstances then prevailing, that an institutional investor of ordinary prudence, discretion, and intelligence exercises in the management of large investments entrusted to it, not in regard to speculation but in regard to the permanent disposition of funds, considering probable safety of capital as well as probable income.

Management responsibility for the investment program not assigned to the SIB in Chapter 21-10 of the North Dakota Century Code (NDCC) is hereby delegated to the SIB, which must establish written policies for the operation of the investment program, consistent with this investment policy.

The SIB may delegate investment responsibility to professional money managers, which are also required to employ investment strategies consistent with the investment policy. Where a money manager has been retained, the SIB's role in determining investment strategy and security selection is supervisory not advisory.

At the discretion of the SIB, the Fund's assets may be pooled with other funds. In pooling funds, the SIB may establish whatever asset class pools it deems necessary with specific quality, diversification, restrictions, and performance objectives appropriate to the prudent investor rule and the objectives of the funds participating in the pool.

The SIB is responsible for establishing criteria, procedures, and making decisions with respect to hiring, retaining, and terminating money managers. SIB investment responsibility also includes selecting performance measurement services, consultants, report formats, and frequency of meetings with managers.

The SIB shall notify the Advisory Board within 30 days of any substantial or notable changes in money managers; performance measurement services; and consultants, including hiring or terminating a money manager, performance measurement service, or a consultant.

The SIB, after consultation with the Advisory Board, will implement necessary changes to this policy in an efficient and prudent manner.

# Risk Tolerance

The Advisory Board's risk tolerance with respect to the primary aspect of the Fund's mission is low. The Board is unwilling to undertake investment strategies that might jeopardize the ability of the Fund to maintain principal value over time. The Board recognizes that the plan will evolve as the Legacy Fund matures and economic conditions and opportunities change.

### **Investment Objectives**

The Advisory Board's investment objectives are expressed in terms of reward and risk expectations relative to investable, passive benchmarks. The Legacy Fund's policy benchmark is comprised of policy mix weights of appropriate asset class benchmarks as set by the SIB.

- a. The Legacy Fund's rate of return, net of fees and expenses, should at least match that of the policy benchmark over a minimum evaluation period of five years.
- b. The Legacy Fund's risk, measured by the standard deviation of net returns, should not exceed 115% of the policy benchmark over a minimum evaluation period of five years.
- c. The risk-adjusted performance of the Legacy Fund, net of fees and expenses, should at least match that of the policy benchmark over a minimum evaluation period of five years.

#### Policy Asset Mix

After consideration of all the inputs and a discussion of its own collective risk tolerance, the Advisory Board approved the following policy asset mix for the Legacy Fund as of April 2, 2013:

Asset Class	Policy Target Percentage
Broad US Equity	30%
Broad International Equity	20%
Fixed Income	35%
Core Real Estate	5%
Diversified Real Assets	10%

Rebalancing of the Fund to this target will be done in accordance with the SIB's rebalancing policy, but not less than annually. The SIB approved an 18-month implementation strategy which completed in January 2015. On June 17, 2017, the Advisory Board acknowledged the transfer of the Bank of North Dakota Match Loan Certificates of Deposit Program ("BND CD") to the Legacy Fund in early-2017. The BND CD investment will be limited to the lesser of \$200 million or 5% of the Legacy Fund (and represent a sector allocation within fixed income). The Advisory Board approved this future change in the Legacy Fund's asset allocation without exception. BND will be requested to guarantee a minimum 1.75% investment return. The minimum return requirement will be periodically reviewed in connection with the Legacy Fund's overall asset allocation framework. BND CD's are rated AA by S&P.

### Restrictions

While the SIB is responsible for establishing specific quality, diversification, restrictions, and performance objectives for the investment vehicles in which the Legacy Fund's assets will be invested, it is understood that:

- Futures and options may be used to hedge or replicate underlying index exposure, but not for speculation.
- b. Derivative use will be monitored to ensure that undue risks are not taken by the money managers.
- c. No transaction may be made that would threaten the tax-exempt status of the Legacy Fund.
- All assets will be held in custody by the SIB's master custodian or such other custodians as are acceptable to the SIB.

- e. No unhedged short sales or speculative margin purchases shall be made.
- f. Social investing is prohibited unless it meets the Exclusive Benefit Rule and it can be substantiated that the investment must provide an equivalent or superior rate of return for a similar investment with a similar time horizon and similar risk.

For the purpose of this document, Social Investing is defined as "The investment or commitment of public pension fund money for the purpose of obtaining an effect other than a maximized return to the intended beneficiaries."

g. Economically targeted investing is prohibited unless the investment meets the Exclusive Benefit Rule.

For the purpose of this document economically targeted investment is defined as an investment designed to produce a competitive rate of return commensurate with risk involved, as well as to create collateral economic benefits for a targeted geographic area, group of people, or sector of the economy.

Also, for the purpose of this document, the Exclusive Benefit Rule is met if the following four conditions are satisfied:

- The cost does not exceed the fair market value at the time of investment.
- (2) The investment provides the Fund with an equivalent or superior rate of return for a similar investment with a similar time horizon and similar risk.
- (3) Sufficient liquidity is maintained in the Fund to permit distributions in accordance with the terms of the plan.
- (4) The safeguards and diversity that a prudent investor would adhere to are present.

Where investment characteristics, including yield, risk, and liquidity are equivalent, the Fund's policy favors investments which will have a positive impact on the economy of North Dakota.

#### **Internal Controls**

A system of internal controls must be in place by the SIB to prevent losses of public funds arising from fraud or employee error. Such controls deemed most important are the separation of responsibilities for investment purchases from the recording of investment activity, custodial safekeeping, written confirmation of investment transactions, and established criteria for broker relationships. The annual financial audit must include a comprehensive review of the portfolio, accounting procedures for security transactions, and compliance with the investment policy.

#### Evaluation and Review

Investment management of the Legacy Fund will be evaluated against the Fund's investment objectives and investment performance standards. Emphasis will be placed on 5-year and 10-year results. Evaluation should include an assessment of the continued feasibility of achieving the investment objectives and the appropriateness of the investment policy statement for achieving those objectives.

Performance reports will be provided to the Board periodically, but not less than quarterly. Such reports will include asset returns and allocation data. Additionally, not less than annually, reports will include information regarding all significant and/or material matters and changes pertaining to the investment of the Legacy Fund, including:

• Changes in asset class portfolio structures, tactical approaches, and market values.

- Loss of principal, if any.
- Management costs associated with various types of investments.
- All material legal or legislative proceedings affecting the SIB.
- Compliance with this investment policy statement.
- An evaluation of the national economic climate.
- A forecast of the expected economic opportunities and dangers.
- Management of risk by the SIB.

In addition to the quarterly evaluation and review process, the SIB shall notify the Board within 30 days of any substantial or notable deviation from the normal management of the Legacy Fund, including any anomalies, notable losses, gains, or liquidation of assets affecting the fund.

❖ND Legacy Fund Actual Asset Allocation – June 30, 2019

	Fair	Percent	One Year	
Asset Allocation	Value	of Total	Return (net)	
Global Equity	\$ 3,210,940,290	48.8%	1.89%	
Broad US Equity	1,938,117,069	29.5%	4.51%	
Domestic Large Cap Equity	1,442,421,117	21.9%	8.12%	
Domestic Small Cap Equity	495,695,952	7.5%	-4.94%	
Broad International Equity	1,272,823,221	19.3%	-2.02%	
Global Fixed Income	2,181,597,582	33.2%	8.99%	
Global Real Assets	932,378,139	14.2%	5.14%	
Real Estate	297,218,244	4.5%	4.99%	
Diversified Real Assets	635,159,895	9.7%	5.11%	
Cash Equivalents	255,843,917	3.9%	2.16%	
Total Fund	\$ 6,580,759,928		4.98%	
Policy Benchmark	· · · · · · · · · · · · · · · · · · ·		6.12%	
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# RETIREMENT PLAN FOR EMPLOYEES OF JOB SERVICE NORTH DAKOTA

# **❖Job Service ND**Investment Objectives and Policy Guidelines

#### Plan Characteristics and Fund Constraints

The Retirement Plan for the Employees of Job Service North Dakota (Plan) is a defined benefit retirement plan for the eligible employees hired before October 1, 1980. There have been no new entrants to the plan since October 1, 1980. The plan provides retirement benefits, disability benefits and survivor benefits consistent with the written Plan document. Until October 1, 1993, annuities were purchased from the Travelers for retirees, since that date retiree benefits are paid from Plan assets. Annual cost of living adjustments for all Plan pensioners including annuitants with the Travelers are paid from Plan assets. The NDPERS Board (the Board) is the Plan Administrator and administers the Plan in accord with Chapter 52-11 of the North Dakota Century Code.

Job Service North Dakota as the employer contributes 4% of the active participant's salary as a contribution 'on behalf of the employee' and the active participants pay 3% of their salary into Plan assets.

Each year the Plan has an actuarial valuation performed. The current actuarial assumed rate of return on assets is 4.75%.

# Responsibilities and Discretion of the State Investment Board

Aggregate plan contributions plus earnings, minus allowable expenses constitute the Fund. The Board is charged by NDCC chapters 54-52, 21-10-01, and 39-03.1 to establish policies for the investment goals and asset allocation of the Fund. The State Investment Board (SIB) is charged with implementing the asset allocation as promptly and prudently as possible in accordance with the Board's policies by investing the assets of the Fund in the manner provided in the prudent investor rule, which provides:

Fund fiduciaries shall exercise the judgment and care, under the circumstances then prevailing, that an institutional investor of ordinary prudence, discretion, and intelligence exercises in the management of large investments entrusted to it, not in regard to speculation but in regard to the permanent disposition of funds, considering probable safety of capital as well as probable income. The retirement funds belonging to the teachers' fund for retirement and the public employees retirement system must be invested exclusively for the benefit of their members and in accordance with the respective funds' investment goals and objectives. (NDCC 21-10-07)

The SIB may delegate investment responsibility of the Fund or any portion of the Fund to professional money managers. Where a money manager has been retained, the SIB's role in determining investment strategy is supervisory not advisory.

The SIB may at its discretion, pool the assets of the Fund with another fund or funds having similar investment objectives and time horizons in order to maximize returns and minimize costs. In pooling fund assets, the SIB will establish asset class pools it deems necessary to achieve the specific quality, diversification, restrictions, and performance objectives subject to the prudent investor rule and the objectives of the funds participating in the pools.

The SIB is responsible for establishing the selection criteria, determining the performance measures, and retaining all fund money managers. SIB is also responsible for the selection and retention of any investment consultants that may be employed in the investment of the Fund assets.

#### **Delegation of Authority**

Management responsibility for NDPERS funds not assigned to the North Dakota State Investment Board (SIB) in Chapter 21-10 of the North Dakota Century Code (NDCC) is hereby delegated to the SIB, who must establish written policies and procedures for the operation of the NDPERS funds, consistent with this investment policy.

Such procedures must provide for:

- 1. The definition and assignment of duties and responsibilities to advisory services and persons employed by the SIB pursuant to NDCC 21-10-02.1(1)(a).
- Investment diversification, investment quality, qualification of money managers, and amounts to be invested by money managers pursuant to NDCC 21-10-02.1(1)(e). In developing these policies it is understood:
  - Futures and options may be used to hedge or replicate underlying index exposure, but not for speculation.
  - b. The use of derivatives will be monitored to ensure that undue risks are not taken by the money managers.
  - c. All assets must be held in custody by the SIB's master custodian or such other custodians as are selected by the SIB.

- Guidelines for the selection and redemption of investments will be in accordance with NDCC 21-10-02.1(1)(d).
- 4. The criteria for making decisions with respect to hiring, retention, and termination of money managers will be clearly defined. This also includes selecting performance measurement standards, consultants, report formats, and frequency of meetings with money managers.

All participants in the investment process must seek to act responsibly as custodians of the public trust.

#### **Investment Goals**

The investment objectives of the Plan have been established by the Plan's Administrator upon consideration of its strategic objectives and a comprehensive review of current and projected financial requirements.

Objective #1: To maintain a level of surplus sufficient to eliminate the need for future contributions;

Objective #2: To achieve a rate of return which exceeds the rate of inflation, as measured by the Consumer Price Index (CPI), by 3.0 percentage points per year (based on current actuarial assumptions of 5.7% return and 2.5% inflation), over a complete market cycle; and

Objective #3: As a secondary objective, to maximize the Plan's surplus to increase future benefit payments.

#### <u>Investment Performance Objective</u>

The NDPERS Board will seek to make investments that generate sufficient return to meet the goals outlined in this policy. The objectives established in this section are in accordance with the fiduciary requirement in federal and state law.

It is in the best interest of NDPERS and its beneficiaries that performance objectives be established for the total Fund. It is clearly understood these objectives are to be viewed over the long term and have been established after full consideration of all factors set forth in this Statement of Investment Goals, Objectives and Policies.

- a. The funds rate of return, over the long term should equal that of the policy portfolio which is comprised of policy weights of appropriate asset class benchmarks as set by the SIB.
- b. The annual standard deviation of total returns for the Fund should not exceed that of the policy portfolio by more than 15%.
- Over 5-year and longer periods the fund should match or exceed the expected rate of return projected in the

most recent asset/liability study without exceeding the expected risk for the period as measured by standard deviation by more than 15%.

#### **Asset Allocation**

The NDPERS Board as plan Administrator establishes the asset allocation of the Fund, with input from consultants and SIB staff. The current asset allocation is based upon the asset/liability study completed by SEI Consultants in 2017. That study provided an appraisal of current cash flow projections and estimates of the investment returns likely to be achieved by the various asset classes.

In recognition of the Plan's objectives, projected financial status, and capital market expectations, the following asset allocation options were deemed appropriate for the Fund:

Domestic Equity	6%
Global Equity	14%
US High Yield Bonds	3%
Emerging Markets Debt	3%
Core Fixed Income	26%
Limited Duration Fixed Income	26%
Diversified Short Term Fixed Income	12%
Short Term Corporate Fixed Income	10%

Rebalancing of the Fund to this target allocation will be done in accordance with the SIB's rebalancing policy, but not less than annually.

# Restrictions

While the SIB is responsible for establishing specific quality, diversification, restrictions, and performance objectives for the investment vehicles in which the Fund's assets will be invested, it is understood that:

- a. Futures and options may be used to hedge or replicate underlying index exposure, but not for speculation.
- b. Derivatives use will be monitored to ensure that undue risks are not taken by the money managers.
- All assets will be held in custody by the SIB's master custodian or such other custodians as are acceptable to the SIB.
- d. Social investing is prohibited unless it meets the Exclusive Benefit Rule and it can be substantiated that the investment must provide an equivalent or superior rate of return for a similar investment with a similar time horizon and similar risk.

Social investing is defined as "The investment or commitment of public pension fund money for the purpose of obtaining an effect other than a maximized return to the intended beneficiaries."

e. Economically targeted investing is prohibited unless

the investment meets the Exclusive Benefit Rule.

Economically targeted investment is defined as an investment designed to produce a competitive rate of return commensurate with risk involved, as well as to create collateral economic benefits for a targeted geographic area, group of people, or sector of the economy.

The Exclusive Benefit Rule is met if the following four conditions are satisfied:

- (1) The cost does not exceed the fair market value at the time of investment.
- (2) The investment provides the Plan with an equivalent or superior rate of return for a similar investment with a similar time horizon and similar risk.
- (3) Sufficient liquidity is maintained in the Plan to permit distributions in accordance with the terms of the plan.
- (4) The safeguards and diversity that a prudent investor would adhere to are present.

#### **Internal Controls**

The SIB must have a system of internal controls to prevent losses of public funds arising from fraud or employee error. The controls deemed most important are the separation of responsibilities for investment purchases from the recording of investment activity, custodial safekeeping, written confirmation of investment transactions, and established criteria for broker

relationships. The annual financial audit must include a comprehensive review of the portfolio, accounting procedures for security transactions and compliance with the investment policy.

#### Evaluation

Investment management of the Fund will be evaluated against the Fund's investment objectives and investment performance standards.

An annual performance report must be provided to the Board by the State Investment Officer at a regularly scheduled NDPERS Board meeting. The annual performance report must include asset returns and allocation data as well as information regarding all significant or material matters and changes pertaining to the investment of the Fund, including:

- Changes in asset class portfolio structures, tactical approaches and market values;
- All pertinent legal or legislative proceedings affecting the SIB
- Compliance with these investment goals, objectives and policies.
- A general market overview and market expectations.
- A review of fund progress and its asset allocation strategy.

In addition, the State Investment Officer shall review with the Board the procedures and policies established by the SIB relating to this statement of investment goals, objectives, and policies.

**❖Job Service ND**Actual Asset Allocation – June 30, 2019

	Fair	Percent	One Year
Asset Allocation	 Value	of Total	Return (net)
Domestic Equity	\$ 5,881,640	6.0%	9.73%
Global Equity	13,213,320	13.6%	7.66%
U.S. High Yield Bonds	2,897,078	3.0%	6.49%
Emerging Markets Debt	3,061,093	3.1%	9.46%
Core Fixed Income	26,059,862	26.8%	8.00%
Limited Duration Fixed Income	24,890,448	25.6%	3.70%
Diversified Short Term Fixed Income	11,389,813	11.7%	3.76%
Short Term Corporate Fixed Income	9,481,899	9.7%	2.92%
Cash Equivalents	410,125	0.4%	2.27%
Total Fund	\$ 97,285,278		6.86%
Policy Benchmark			6.74%
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# RETIREE HEALTH INSURANCE CREDIT FUND

# **❖ Retiree Health Insurance Credit Fund**Investment Objectives and Policy Guidelines

#### Plan Characteristics and Constraints

The North Dakota Public Employees Retirement System (NDPERS) Retiree Health Insurance Credit Fund was established in 1989 to provide for prefunding of premiums for medical coverage to state employees and employees of participating political subdivisions in accordance with Chapter 54-52.1 of the North Dakota Century Code. The plan is administered by a seven member Board of Trustees (the Board). The Chair is appointed by the governor, three members are elected by the active members of the plans, one member is elected by the retired members, one is appointed by the Attorney General and the seventh member is the State Health Officer or their designee.

The NDPERS plan is a defined benefit program that provides for a partial payment of a retiree's medical insurance premium based on the number of years of service.

Funding for the NDPERS plan is provided by a monthly employer contribution of 1.14 percent of payroll. On a monthly basis, benefit payments are netted out against contributions and the balance forwarded to the trust's custodian for investment.

Each year the NDPERS Board has an actuarial valuation performed. The current actuarial assumed rate of return on assets for the plan is 7.5%.

# Responsibilities and Discretion of the State Investment Board (SIB)

Aggregate plan contributions plus earnings, minus allowable expenses constitute the Fund. The Board is charged by NDCC chapters 54-52, 21-10-02 and 39-03.1 to establish policies for the investment goals and asset allocation of the Fund. The State Investment Board (SIB) is charged with implementing the asset allocation as promptly and prudently as possible in accordance with Board's policies by investing the assets of the Fund in the manner provided in the prudent investor rule, which provides:

Fund fiduciaries shall exercise the judgment and care, under the circumstances then prevailing, that an institutional investor of ordinary prudence, discretion, and intelligence exercises in the management of large investments entrusted to it, not in regard to speculation but in regard to the permanent disposition of funds, considering probable safety of capital as well as probable income. The retirement funds belonging to the teachers' fund for retirement and the public employees retirement system must be invested exclusively for the benefit of their members and in accordance with the respective funds' investment goals and objectives. (NDCC 21-10-07)

The SIB may delegate investment responsibility of the Fund or any portion of the Fund to professional money managers. Where a money manager has been retained, the SIB's role in determining investment strategy is supervisory not advisory.

The SIB may at its discretion, pool the assets of the Fund with another fund or funds having similar investment objectives and time horizons in order to maximize returns and minimize costs. In pooling fund assets, the SIB will establish asset class pools it deems necessary to achieve the specific quality, diversification, restrictions, and performance objectives subject to the prudent investor rule and the objectives of the funds participating in the pools.

The SIB is responsible for establishing the selection criteria, determining the performance measures, and retaining all fund money managers. SIB is also responsible for the selection and retention of any investment consultants that may be employed in the investment of the Fund assets.

### Delegation of Authority

Management responsibility for NDPERS funds not assigned to the North Dakota State Investment Board (SIB) in Chapter 21-10 of the North Dakota Century Code (NDCC) is hereby delegated to the SIB, which must establish written policies and procedures for the operation of the NDPERS funds, consistent with this investment policy.

Such procedures must provide for:

- 1. The definition and assignment of duties and responsibilities to advisory services and persons employed by the SIB pursuant to NDCC 21-10-02.1(1) (a).
- Investment diversification, investment quality, qualification of money managers, and amounts to be invested by money managers pursuant to NDCC 21-10-02.1(1)(e). In developing these policies it is understood:
  - Futures and options may be used to hedge or replicate underlying index exposure, but not for speculation.
  - b. The use of derivatives will be monitored to ensure that undue risks are not taken by the money managers.
  - All assets must be held in custody by the SIB's master custodian or such other custodians as are selected by the SIB.
- 3. Guidelines for the selection and redemption of investments will be in accordance with NDCC 21-10-02.1(1) (d).

4. The criteria for making decisions with respect to hiring, retention, and termination of money managers will be clearly defined. This also includes selecting performance measurement standards, consultants, report formats, and frequency of meetings with money managers.

All participants in the investment process must seek to act responsibly as custodians of the public trust.

#### **Investment Goals**

The investment goals of the Fund have been established by the NDPERS Board based upon consideration of the Board's strategic objectives and a comprehensive review of the current and projected financial requirements. These goals are to be viewed over the long term.

- Goal #1 Accumulate sufficient wealth through a diversified portfolio of investments which will enable the State of North Dakota to pay all current and future retirement benefits and expense obligations of the Fund.
- Goal #2 To obtain an investment return in excess of that needed to allow for increases in a retiree's credit to maintain the purchasing power of their benefit.

#### Investment Performance Objective

The NDPERS Board will seek to make investments that generate sufficient return to meet the goals outlined in this policy. The objectives established in this section are in accordance with the fiduciary requirement in federal and state law.

It is in the best interest of NDPERS and its beneficiaries that performance objectives be established for the total Fund. It is clearly understood these objectives are to be viewed over the long term and have been established after full consideration of all factors set forth in this Statement of Investment Goals, Objectives and Policies.

- a. The Fund's rate of return, over the long term, should equal that of the policy portfolio which is comprised of policy weights of appropriate asset class benchmarks as set by the SIB.
- b. The annual standard deviation of total returns for the Fund should not materially exceed that of the policy portfolio.
- c. Over 5-year and longer periods the Fund should match or exceed the expected rate of return projected in the most recent asset/liability study without exceeding the expected risk for the period as measured by standard deviation.

#### Asset Allocation

In recognition of the plan's performance objectives, benefit projections, and capital market expectations, the NDPERS Board has established the following asset allocation:

Date of Last Asset Allocation Study: NDPERS Board Approved February 2018 – SEI Corporation

Domestic Large Cap	33%
Domestic Small Cap	6%
International Equities	21%
Core Plus Fixed Income	40%

Rebalancing of the Fund to this target will be done in accordance with the SIB's rebalancing policy, but not less than annually.

PERS requires that in implementing this asset allocation that the State Investment Board seek to maximize return within the scope of these policies while limiting investment costs.

#### Restrictions

- No transaction may be made which threatens the tax exempt status of the Fund.
- B. Social investing is prohibited unless it meets the Exclusive Benefit Rule and it can be substantiated that the investment must provide an equivalent or superior rate of return for a similar investment with a similar time horizon and similar risk.

Social Investing is defined as "The investment or commitment of public pension fund money for the purpose of obtaining an effect other than a maximized return to the intended beneficiaries."

C. Economically targeted investing is prohibited unless the investment meets the Exclusive Benefit Rule.

Economically targeted investing is defined as an investment designed to produce a competitive rate of return commensurate with risk involved, as well as to create collateral economic benefits for a targeted geographic area, group of people, or sector of the economy.

The Exclusive Benefit Rule is met if the following four conditions are satisfied:

- The cost does not exceed the fair market value at the time of investment.
- (2) The investment provides the Fund with an equivalent or superior rate of return for a similar investment with a similar time horizon and similar risk.
- (3) Sufficient liquidity is maintained in the Fund to permit distributions in accordance with the terms of the plan.

(4) The safeguards and diversity that a prudent investor would adhere to are present.

Where investment characteristics, including yield, risk, and liquidity are equivalent, the Board's policy favors investments which will have a positive impact on the economy of North Dakota.

#### Internal Controls

The SIB must have a system of internal controls to prevent must include a comprehensive review of the portfolio, accounting procedures for security transactions and compliance with the investment policy.

#### Evaluation

Investment management of the Fund will be evaluated against the Fund's investment objectives and investment performance standards.

losses of public funds arising from fraud or employee error. The controls deemed most important are the separation of responsibilities for investment purchases from the recording of investment activity, custodial safekeeping, written confirmation of investment transactions, and established criteria for broker relationships. The annual financial audit

An annual performance report must be provided to the Board by the State Investment Officer at a regularly scheduled NDPERS Board meeting. The annual performance report must include asset returns and allocation data as well as information regarding all significant or material matters and changes pertaining to the investment of the Fund, including:

- Changes in asset class portfolio structures, tactical approaches and market values;
- All pertinent legal or legislative proceedings affecting the SIB;
- Compliance with these investment goals, objectives and policies;
- A general market overview and market expectations;
- A review of fund progress and its asset allocation
- A report on investment fees and the SIB's effort relating to Section 6. To measure investment cost PERS requires as part of the annual review information from CEM or other acceptable source showing the value added versus the cost.

# **❖ Retiree Health Insurance Credit Fund** Actual Asset Allocation - June 30, 2019

Asset Allocation		Fair Value	Percent of Total	One Year Return (net)
7 ISSEC 7 INOCULION	_	value	OI TOTAL	rectain (net)
Domestic Large Cap Equity	\$	47,054,992	34.6%	9.60%
Domestic Small Cap Equity		8,292,081	6.1%	-2.24%
International Equity		29,133,373	21.4%	-0.01%
Core Plus Fixed Income		51,472,649	37.9%	8.08%
Cash Equivalents		9,426	0.0%	2.09%
Total Fund	\$	135,962,521		6.51%
Policy Benchmark				6.89%
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# TOBACCO PREVENTION AND CONTROL FUND

# **❖**Tobacco Prevention and Control Fund Investment Objectives and Policy Guidelines

#### Plan Characteristics and Constraints

The North Dakota Tobacco Prevention and Control fund (fund) was established in 1999 for the purpose of creating and implementing a comprehensive statewide tobacco prevention and control plan (comprehensive plan). NDCC 54-27-25(2). The comprehensive plan was administered by the Executive Committee until the Sixty-fifth Legislative Assembly repealed Chapter 23-42 of the ND Century Code, effectively eliminating the Executive Committee. During that same session, House Bill (HB) 1015 assigned administrative authority of the fund to the Office of Management and Budget (OMB) for the biennium beginning July 1, 2017, and ending June 30, 2019.

#### **Fund Goals**

The fund consists of the tobacco settlement dollars obtained by the state under section IX(c)(2) of the agreement adopted by the east central judicial district court in its judgment entered December 28, 1998 [Civil No. 98-3778] in State of North Dakota, ex rel. Heidi Heitkamp v. Philip Morris, Inc. Interest earned on the fund must be credited to the fund. NDCC 54-27-25(2). OMB recognizes that a sound investment program is essential to ensure the funds are available to be used as appropriated by the legislative assembly.

# Responsibilities and Discretion of the State Investment Board (SIB)

OMB has entered into a contract with the SIB for investment services as allowed under NDCC 21-10-06. OMB is responsible for establishing policies on investment goals and asset allocation of the fund. The SIB is charged with implementing these policies and investing the assets of the fund in the manner provided in NDCC 21-10-07, the prudent investor rule. Under this rule, the fiduciaries shall exercise the judgment and care, under the circumstances then prevailing, that an institutional investor of ordinary prudence, discretion, and intelligence exercises in the management of large investments entrusted to it, not in regard to speculation but in regard to the permanent disposition of funds, considering probable safety of capital as well as probable income. The fund must be invested exclusively for the benefit of the members and their beneficiaries in accordance with this investment policy.

Management responsibility for the investment program not assigned to the SIB in Chapter 21-10 of the North Dakota Century Code (NDCC) is hereby delegated to the SIB, who must establish written policies for the operation of the investment program, consistent with this investment policy.

The SIB may delegate investment responsibility to professional money managers. Where a money manager has been retained, the SIB's role in determining investment strategy and security selection is supervisory, not advisory.

The SIB is responsible for establishing criteria, procedures, and making decisions with respect to hiring, keeping, and terminating money managers. SIB investment responsibility also includes selecting performance measurement services, consultants, report formats, and frequency of meetings with managers.

The SIB will implement changes to this policy as promptly as is prudent.

#### Risk Tolerance

OMB is unwilling to undertake investment strategies that might jeopardize the ability of the fund to meet legislatively appropriated expenditures.

#### **Investment Objectives**

OMB's investment objectives are expressed in terms of reward and risk expectations relative to investable, passive benchmarks. The fund's policy benchmark is comprised of policy mix weights of appropriate asset class benchmarks as set by the SIB.

- 1. The fund's rate of return, net of fees and expenses, should at least match that of the policy benchmark over a minimum evaluation period of five years.
- 2. Risk, as measured by the annual standard deviation of net returns for the Fund, should not exceed that of the policy portfolio by more than 100 basis points over a minimum evaluation period of five years.
- 3. The risk-adjusted performance of the Fund, net of fees and expenses, should at least match that of the policy benchmark over a minimum evaluation period of five years.
- 4. OMB understands and acknowledges that the tobaccofree investment restriction may impair the funds ability to maximize investment returns when compared to investments that are not made in conjunction with a tobaccofree investment restriction

#### Policy Asset Mix

Asset allocation policy is critical because it defines the basic risk and return characteristics of the investment portfolio. Asset allocation targets are established using an asset-liability analysis designed to assist OMB in determining an acceptable volatility target for the fund and an optimal asset allocation policy mix. This analysis estimates the potential impact of various asset class mixes on key measures of total fund risk.

After consideration of all the inputs and a discussion of its own collective risk tolerance, OMB approves the appropriate policy asset mix for the fund.

	Policy	Rebalancing
Asset Class	<u>Target</u>	Range
Global Fixed Income	85%	80-90%
Cash	15%	10-20%

While OMB recognizes fluctuations in market values will lead to short-term deviations from policy targets, OMB does not intend to engage in tactical asset allocation. Rebalancing of the fund to this target will be done in accordance with the SIB's rebalancing policy, but not less than annually.

#### Restrictions

While the SIB is responsible for establishing specific quality, diversification, restrictions, and performance objectives for the investment vehicles in which the fund's assets will be invested, it is understood that:

- Futures and options may be used to hedge or replicate underlying index exposure, but not for speculation.
- b. Derivatives use will be monitored to ensure that undue risks are not taken by the money managers.
- c. No transaction shall be made which threatens the tax exempt status of the fund.
- d. All assets will be held in custody by the SIB's master custodian or such other custodians as are acceptable to the SIB.
- e. No unhedged short sales or speculative margin purchases shall be made.
- Because the statutory purpose of the Fund is to reinforce best practices related to comprehensive tobacco prevention and control programs, and to invest in or profit from the manufacturer and sale of tobacco products would contradict that purpose, the assets shall only be invested in securities issued by tobacco-free firms, defined as those which generate revenues of no greater than 0% from tobacco products. In the event of an inadvertent de Minimis investment in a firm with any exposure to tobacco products, the inadvertent investment will be immediately divested upon discovery. For investment purposes "tobacco product" means tobacco or any product containing, made from, or derived from tobacco, in whole or in part, that is intended for human consumption, whether chewed, smoked, absorbed, dissolved, inhaled, snorted, sniffed, consumed, or ingested by any other means, including cigarettes, cigars, electronic smoking devices, pipe tobacco, chewing tobacco, snuff, snus, liquid, or other kinds and forms of tobacco. "Tobacco product" includes any

product or device that contains nicotine, in any form, that is derived from tobacco. Any product that contains nicotine shall be presumed to contain nicotine derived from tobacco unless the nicotine is confirmed to be derived from a different source.

g. Economically targeted investing is prohibited unless the investment meets the Exclusive Benefit Rule.

For the purpose of this document economically targeted investment is defined as an investment designed to produce a competitive rate of return commensurate with risk involved, as well as to create collateral economic benefits for a targeted geographic area, group of people, or sector of the economy.

Also, for the purpose of this document, the Exclusive Benefit Rule is met if the following four conditions are satisfied:

- (1) The cost does not exceed the fair market value at the time of investment.
- (2) The investment provides the fund with an equivalent or superior rate of return for a similar investment with a similar time horizon and similar risk.
- (3) Sufficient liquidity is maintained in the fund to permit distributions in accordance with the terms of the plan.
- (4) The safeguards and diversity that a prudent investor would adhere to are present.

Where investment characteristics, including yield, risk, and liquidity are equivalent, OMB's policy favors investments which will have a positive impact on the economy of North Dakota.

#### Internal Controls

A system of internal controls must be in place by the SIB to prevent losses of public funds arising from fraud or employee error. Such controls deemed most important are the separation of responsibilities for investment purchases from the recording of investment activity, custodial safekeeping, written confirmation of investment and established criteria for broker transactions, relationships. The annual financial audit must include a comprehensive review of the portfolio, accounting procedures for security transactions and compliance with the investment policy.

### Evaluation and Review

Investment management of the fund will be evaluated against the fund's investment objectives. Emphasis will be placed on five year results. Evaluation should include an assessment of the continued feasibility of achieving the

investment objectives and the appropriateness of the Investment Policy Statement for achieving those objectives.

Performance reports will be provided to the Executive Committee quarterly and investment performance presentations will be provided to the Executive Committee upon request, but not less than annually. Such reports will include asset returns and allocation data as well as information regarding all significant and/or material matters and changes pertaining to the investment of the fund, including, but not limited to:

1. A list of the advisory services managing investments for the Executive Committee.

- 2. A list of investments at market value, compared to previous reporting period, of each fund managed by each advisory service.
- 3. Earnings, percentage earned, and change in market value of each fund's investments.
- Comparison of the performance of each fund managed by each advisory service to other funds under the Executive Committee's control and to generally accepted market indicators.
- All material legal or legislative proceedings affecting the SIB.
- 6. Compliance with this investment policy statement.

# ❖ Tobacco Prevention and Control Fund Actual Asset Allocation – June 30, 2019

Asset Allocation		Fair Value	Percent of Total	One Year Return (net)
Short-Term Fixed Income Cash Equivalents	\$	7,972,749 1,327,379	85.7% 14.3%	4.02% 2.15%
Total Fund Policy Benchmark	\$	9,300,128		4.47% 4.38%
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# **ACTUARIAL SECTION**



101 North Wacker Drive Suite 500 Chicago, IL 60606-1724 T 312.984.8500 www.segalco.com

October 15, 2019

Board of Trustees North Dakota Teachers' Fund for Retirement 3442 East Century Avenue Bismarck, ND 58507-7100

Re: Actuarial Valuation as of July 1, 2019

Dear Trustees:

We certify that the information contained in this report is accurate and fairly presents the actuarial position of the North Dakota Teachers' Fund for Retirement (TFFR) as of July 1, 2019.

All calculations have been made in conformity with generally accepted actuarial principles and practices, and with the Actuarial Standards of Practice issued by the Actuarial Standards Board. In our opinion the results presented also comply with the State Code, and, where applicable, the Internal Revenue Code, ERISA, and the Statements of the Governmental Accounting Standards Board (GASB). The undersigned are independent actuaries. All are Fellows of the Society of Actuaries, Enrolled Actuaries, and Members of the American Academy of Actuaries, and are experienced in performing valuations for large public retirement systems. They meet the Qualification Standards of the American Academy of Actuaries.

### ACTUARIAL VALUATION

The primary purposes of the valuation report are to determine the adequacy of the current employer contribution rate, to describe the current financial condition of TFFR, and to analyze changes in TFFR's financial condition. In addition, the report provides information required by TFFR in connection with the Governmental Accounting Standards Board Statement No. 67 (GASB 67) and it provides various summaries of the data. Valuations are prepared annually, as of July 1 of each year, the first day of TFFR's plan and fiscal year.

#### FINANCING OBJECTIVES

The member and employer contribution rates are established by statute. Member and employer rates are 11.75% and 12.75%, respectively. The 11.75% member contribution rate and 12.75% employer contribution rate will remain in effect until TFFR is 100% funded on an actuarial basis. At that point, the employer and member contribution rates will revert to 7.75%. The rates are intended to be sufficient to pay TFFR's normal cost and to amortize TFFR's unfunded actuarial accrued liability (UAAL) over a period of 24 years beginning July 1, 2019, although at any given time the statutory rates may be insufficient

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Board of Trustees North Dakota Teachers' Fund for Retirement October 15, 2019 Page 2

#### PROGRESS TOWARD REALIZATION OF FINANCING OBJECTIVES

In order to determine the adequacy of the 12.75% statutory employer contribution rate, it is compared to the actuarially determined contribution (ADC). The ADC is equal to the sum of (a) the employer normal cost rate and (b) the level percentage of pay required to amortize the UAAL over the 30-year closed period that began July 1, 2013 (24 years remaining as of July 1, 2019). For this calculation, payroll is assumed to increase 3.25% per year. As of July 1, 2019, the ADC is 12.84%, compared to 12.94% last year. This is greater than the 12.75% rate currently required by law. The decrease in ADC is driven by payroll and other demographic liability gains.

The funded ratio (the ratio of the actuarial value of assets to the actuarial accrued liability) increased from last year. The funded ratio at July 1, 2018, was 65.4%, while it is 66.0% as of July 1, 2019. Based on the market value of assets rather than the actuarial value of assets, the funded ratio remained the same at 65.5%, compared to 65.5% last year.

The Plan has a net investment loss of \$19.4 million from previous years that has not yet been recognized in the actuarial value of assets because of the five-year smoothing. This unrecognized asset loss is due to market losses during FY 2016 and FY 2019 offset by market gains in FY 2017 and FY 2018. As these losses are recognized over the next four years, the losses will tend to reduce the funded ratio. Despite this factor, the projections shown in this report indicate that the funded ratio is projected to increase over this period, assuming the plan's market return on assets meets the 7.75% assumption in the future.

#### REPORTING CONSEQUENCES

TFFR is required to disclose certain actuarial information in its Comprehensive Annual Financial Report (CAFR), including the Net Pension Liability (NPL), the sensitivity of the NPL to changes in the discount rate, a schedule of changes in NPL, and a comparison of actual contributions to the ADC. The State and the school districts need to comply with GASB 68, which also requires disclosure of certain actuarial information in their financial statements. This information will be provided in a separate report.

#### BENEFIT PROVISIONS

The actuarial valuation reflects the benefit and contribution provisions set forth in the North Dakota Century Code. These have not changed from the prior valuation.

#### ASSUMPTIONS AND METHODS

Actuarial assumptions and methods are set by the Board of Trustees, based upon recommendations made by the Plan's actuary. On April 30, 2015, the Board adopted new assumptions, effective for the July 1, 2015 valuation. In our opinion, the actuarial assumptions as approved by the Board are reasonable, taking into account the experience of the Plan and reasonable long-term expectations, and represent our best estimate of the anticipated long-term experience of the Plan. The actuarial assumptions and methods used for funding purposes meet the parameters set by Actuarial Standards of Practice.

Effective with the July 1, 2013, actuarial valuation, the Trustees adopted an Actuarial Funding Policy, which provides direction on how to calculate an actuarially determined contribution. The actuarially determined contribution is compared to statutory contribution rates as a measure of funding adequacy.

Board of Trustees North Dakota Teachers' Fund for Retirement October 15, 2019 Page 3

The results of the actuarial valuation are dependent on the actuarial assumptions used. Actual results can and almost certainly will differ, as actual experience deviates from the assumptions. Even seemingly minor changes in the assumptions can materially change the liabilities, calculated contribution rates, and funding periods.

#### DATA

Member data for retired, active, and inactive participants was supplied as of July 1, 2019, by the staff of the Retirement Office. We have not subjected this data to any auditing procedures, but have examined the data for reasonableness and consistency with the prior year's data. Asset information was also supplied by the staff. That assistance is gratefully acknowledged.

#### CAFR SCHEDULES

The undersigned provided the following supporting schedules and exhibits included in the Financial, Actuarial and Statistical Sections of the ND Retirement and Investment Office Comprehensive Annual Financial Report:

- > Financial / Required Supplementary Information
  - Net Pension Liability
  - Sensitivity of Net Pension Liability
  - · Schedules of Changes in Net Pension Liability and Related Ratios
  - Schedule of Employer Contributions
- Actuarial
  - Schedule of Active Members
  - Analysis of Change in Actuarially Determined Contribution
  - Development of Unfunded Actuarial Accrued Liability
  - Solvency Test
  - Schedule of Funding Progress
- Statistical
  - Schedule of Retirees by Benefit Amount
  - Schedule of Retirees by Benefit Type

Sincerely,

Segal Consulting, a Member of The Segal Group, Inc.

Ву:

Kim Nicholl, FSA, MAAA, EA, FCA Senior Vice President and Actuary Matthew A. Strom, FSA, MAAA, EA Senior Vice President and Actuary

Tatsiana Dybal, FSA, MAAA, EA

Senior Actuary

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# SUMMARY OF ACTUARIAL VALUATION RESULTS

	2019	2018
Demographic Data for Plan Year Beginning July 1:		
Number of		
- Retirees and Beneficiaries	8,918	8,743
- Inactive, Vested	1,657	1,623
- Inactive, Nonvested	1,035	971
- Active Members	11,175	10,881
Payroll (annualized)	\$680.5 million	\$653.5 million
Statutory Contributions (% of Payroll) for Plan Year Beginning July 1:		
Employer	12.75%	12.75%
• Member	11.75%	11.75%
Actuarially determined contribution rate for year beginning July 1	12.84%	12.94%
Margin/(Deficit)	-0.09%	-0.19%
Assets:		
Fair value	\$2,616.2 million	\$2,530.7 million
Actuarial value	2,635.6 million	2,526.1 million
Return on market value (per actuary)	5.4%	9.0%
Return on actuarial value	6.4%	7.9%
Ratio - actuarial value to market value	100.7%	99.8%
Net cash flow % relative to market value	-1.9%	-1.6%
Actuarial Information:		
Normal cost %	11.89%	11.95%
Normal cost	\$86.0 million	\$82.9 million
Actuarial accrued liability	\$3,993.4 million	\$3,863.5 million
Unfunded actuarial accrued liability (UAAL)	\$1,357.9 million	\$1,337.5 million
Funded ratio	66.0%	65.4%
Effective amortization period	24 years	26 years
GASB Information:		
Discount rate	7.75%	7.75%
Total pension liability	\$3,993.4 million	\$3,863.5 million
Plan fiduciary net position	\$2,616.2 million	\$2,530.7 million
Net pension liability	\$1,377.3 million	\$1,332.9 million
<ul> <li>Plan fiduciary net position as % of total pension liability</li> </ul>	65.5%	65.5%
Gains/(Losses):		
Asset experience	\$ (34.8) million	\$ 4.6 million
Liability experience	24.1 million	28.6 million
Administrative Expenses	0.0 million	0.1 million
Benefit changes	0.0 million	0.0 million
Assumption/method changes	0.0 million	0.0 million
Total Gain/(Loss)	\$(10.7) million	\$33.3 million

# SUMMARY OF ACTUARIAL ASSUMPTIONS AND METHODS

The following actuarial assumptions and methods have been set by the TFFR Board, based upon recommendations made by the Plan's actuary, for both funding and financial reporting purposes. However, the investment return rate used for funding is net of investment expenses and administrative expenses, whereas the rate used for financial reporting is net of investment expenses only (per GASB Statement 67). These actuarial assumptions and methods are based on the results of an experience study dated April 30, 2015, effective for the July 1, 2015 valuation.

#### **ACTUARIAL ASSUMPTIONS**

Investment Return Rate 7.75% per annum, compounded annually, equal to an assumed 2.75% inflation

rate plus a 5.50% real rate of return, less 0.50% for expected investment and

administrative expenses. (Adopted effective July 1, 2015)

Mortality Rates The mortality rates were based on historical and current demographic data, as

used in the experience study dated April 30, 2015. The underlying tables reasonably reflect the mortality experience of the Fund as of the measurement

date.

Post-Retirement Non-Disabled: RP-2014 Healthy Annuitant Mortality Table set back one year, multiplied by

50% for ages under 75 and grading up to 100% by age 80, projected generationally using Scale MP-2014. (Adopted effective July 1, 2015)

Sample 2014 mortality rates are as follows:

Age	Male	Female
50	0.20%	0.14%
55	0.27%	0.17%
60	0.37%	0.24%
65	0.51%	0.37%
70	0.77%	0.58%
75	1.22%	0.95%
80	3.62%	2.82%
85	6.93%	5.40%
90	12.15%	9.56%
95	20.11%	16.30%
100	29.38%	25.11%

The mortality tables are adjusted forward from 2014 using the generational

projection to reflect future mortality improvement.

Post-Retirement Disabled: RP-2014 Disabled Mortality Table set forward 4 years. (Adopted effective

July 1, 2015)

Pre-Retirement Non-Disabled: RP-2014 Employee Mortality Table projected generationally using Scale

MP-2014. (Adopted effective July 1, 2015)

#### Summary of Actuarial Assumptions and Methods (continued)

#### Retirement Rates

The following rates of retirement are assumed for members eligible to retire. (Adopted effective July 1, 2015)

	Unreduced	Retirement*	Reduced Retirement
Age	Male	Female	Male/Female
50-54	15.00%	15.00%	
55-57	15.00%	15.00%	2.00%
58	15.00%	15.00%	3.00%
59	15.00%	15.00%	3.50%
60	15.00%	15.00%	4.00%
61	25.00%	25.00%	6.50%
62	35.00%	35.00%	9.00%
63	25.00%	30.00%	12.00%
64	35.00%	40.00%	12.00%
65	40.00%	50.00%	
66	30.00%	40.00%	
67	30.00%	30.00%	
68	25.00%	30.00%	
69	25.00%	30.00%	
70-74	25.00%	25.00%	
75	100.00%	100.00%	

<sup>\*</sup> If a member reaches eligibility for unreduced retirement before age 65 under the rule of 85 (Grandfathered Tier 1) or the Rule of 90/Age 60 (Nongrandfathered Tier 1 and Tier 2), 10% is added to the rate at the age (and only this age) the member first becomes eligible for an unreduced retirement benefit.

#### **Disability Rates**

Shown below for selected ages. (Adopted effective July 1, 2010)

Disabilities per 100 Members					
Age	Number				
20	0.011%				
25	0.011%				
30	0.011%				
35	0.011%				
40	0.033%				
45	0.055%				
50	0.088%				
55	0.154%				
60	0.297%				

#### Summary of Actuarial Assumptions and Methods (continued)

#### **Termination Rates**

Termination rates based on service, for causes other than death, disability, or retirement. (Adopted effective July 1, 2015)

Years of Service	Male	Female
0	20.00%	20.00%
1	14.00%	12.00%
2	11.00%	9.00%
3	8.00%	7.00%
4	6.50%	6.00%
5	5.00%	5.00%
6	4.00%	4.00%
7	3.50%	3.50%
8	3.00%	3.00%
9	2.50%	2.50%
10	2.50%	2.50%
11	2.00%	2.50%
12	2.00%	2.50%
13	2.00%	2.50%
14	2.00%	2.50%
15-18	1.50%	2.00%
19	0.75%	2.00%
20-24	0.75%	1.50%
25 and over	0.75%	0.75%

Termination rates eliminated at first retirement eligibility.

#### Salary Increase Rates

Inflation rate of 2.75% plus productivity increase rate of 1.50%, plus step-rate/promotional increase as shown below. (Adopted effective July 1, 2015)

	Annual Step-Rate	
Years of	Promotional	Annual Total
Service	Component	Salary Increase
0	10.25%	14.50%
1	3.50%	7.75%
2	3.25%	7.50%
3	3.00%	7.25%
4	2.75%	7.00%
5	2.50%	6.75%
6	2.25%	6.50%
7	2.00%	6.25%
8-9	1.75%	6.00%
10-11	1.50%	5.75%
12-13	1.25%	5.50%
14-15	1.00%	5.25%
16-18	0.75%	5.00%
19-22	0.50%	4.75%
23-24	0.25%	4.50%
25 & over	0.00%	4.25%

#### Summary of Actuarial Assumptions and Methods (continued)

<u>Payroll Growth Rate</u> 3.25% per annum. This assumption does not include any allowance for future

increase in the number of members. (Adopted effective July 1, 2010)

<u>Percent Married</u> For valuation purposes, 75% of members are assumed to be married. Male

members are assumed to be three years older than their spouses, and female members are assumed to be three years younger than their spouses. (Adopted

effective July 1, 1992)

Percent Electing a Deferred

<u>Termination Benefit</u> Terminating members are assumed to elect the most valuable benefit at the time

of termination. Termination benefits are assumed to commence at the first age at which unreduced benefits are available. (Adopted effective July 1, 1990)

Loading Factor for New Retirees

The liability includes a 3% load for members who retired during the year ended

June 30, 2019, to reflect that their benefit is not finalized as of the valuation date.

**Annual Administrative** 

**Amortization Period** 

<u>Expenses</u> Administrative expenses of \$2,312,987 (actual expenses for the previous year,

increased with inflation) are expected to be paid for the year beginning July 1,

2019.

Asset Valuation Method The actuarial value of assets is based on the market value of assets with a five-

year phase-in of actual investment return in excess of (or less than) expected investment income. Expected investment income is determined using the assumed investment return rate and the market value of assets (adjusted for receipts and disbursements during the year). The actual investment return for this purpose is determined net of all investment and administrative expenses. The actuarial value is further adjusted, if necessary, to be within 20% of the market

value.

Actuarial Cost Method Normal cost and actuarial accrued liability are calculated on an individual basis

and are allocated by salary. Entry age is determined as the age at member's enrollment in TFFR. The actuarial accrued liability is the difference between the total present value of future benefits and the actuarial present value of future normal costs. The unfunded actuarial accrued liability (UAAL) is the excess of the actuarial accrued liability over the actuarial value of assets. The actuarial

cost method used is the same for funding and financial reporting.

cost method used is the same for funding and inhancial reporting.

and Method The actuarially determined contribution (ADC) is determined as the sum of (a)

the employer normal cost rate, and (b) a level percentage of payroll required to amortize the unfunded actuarial accrued liability over the 30-year closed period

that began July 1, 2013.

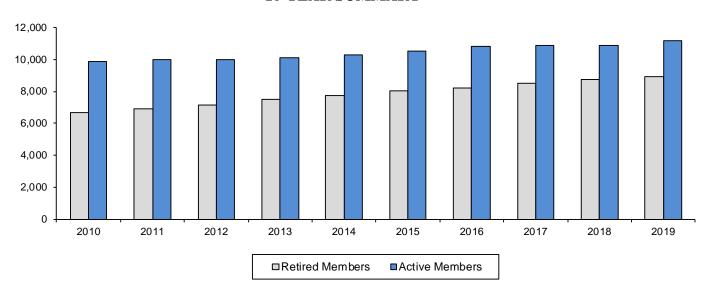
### SCHEDULE OF ACTIVE MEMBERS

	Active Members		Active Members Covered Payroll (annualized)		Average Salary		_	
Valuation Year	Number	Percent Increase	Amount in \$ Millions	Percent Increase	\$ Amount	Percent Increase	Awerage Age	Average Service
2010	9,907	2.1	465.0	5.7	46,937	3.6	44.2	14.0
2011	10,004	1.0	488.8	5.1	48,857	4.1	43.9	13.8
2012	10,014	0.1	505.3	3.4	50,458	3.3	43.7	13.7
2013	10,138	1.2	526.7	4.2	51,953	3.0	43.2	13.2
2014	10,305	1.6	557.2	5.8	54,073	4.1	42.9	12.8
2015	10,514	2.0	589.8	5.8	56,095	3.7	42.5	12.4
2016	10,813	2.8	627.0	6.3	57,986	3.4	42.3	12.1
2017	10,874	0.6	650.1	3.7	59,780	3.1	42.1	11.9
2018	10,881	0.1	653.5	0.5	60,055	0.5	41.9	11.8
2019	11,175	2.7	680.5	4.1	60,893	1.4	41.8	11.7

#### SCHEDULE OF RETIREES AND BENEFICIARIES

Valuation Year	Number Added During Year	Annual Benefits Added (in mils)	Number Removed During Year	Annual Benefits Removed (in mils)	Number Receiving End of Year	Average Annual Benefit	Annual Pension Benefits (in mils)	Percent Increase In Annual Benefits
				•				
2010	406	\$ 10.1	200	\$ 2.0	6,672	\$ 18,768	\$124.5	9.2
2011	426	9.9	165	2.0	6,933	19,272	127.4	2.3
2012	416	10.2	198	2.3	7,151	19,968	135.3	6.1
2013	480	13.7	142	1.9	7,489	20,664	145.9	7.8
2014	461	14.3	203	2.5	7,747	21,396	158.4	8.5
2015	463	13.7	185	2.5	8,025	22,104	168.3	6.3
2016	427	12.6	203	3.1	8,249	22,692	180.6	7.3
2017	447	14.3	195	2.9	8,501	23,399	191.1	5.8
2018	458	15.3	216	3.3	8,743	24,180	202.4	5.9
2019	400	12.9	225	3.5	8,918	24,804	215.3	6.0

## ACTIVE MEMBERS VS RETIRED MEMBERS 10-YEAR SUMMARY



## ANALYSIS OF CHANGE IN ACTUARIALLY DETERMINED CONTRIBUTION (ADC)

	7/1/2019	7/1/2018
Prior valuation	12.94 %	12.99 %
Increases/(decreases) due to:		
Change in remaining amortization period	0.00 %	0.00 %
Change in covered payroll and normal cost	(0.20)%	0.25 %
Employer contributions received at 12.75% rather than 12.94%		
for FY2019 and rather than 12.99% for FY2018	(0.02)%	0.02 %
Gains and losses on accrued liability and administrative expenses	(0.21)%	(0.28)%
Investment experience	0.33 %	(0.04)%
Legislative changes	0.00 %	0.00 %
Change in actuarial assumptions	0.00 %	0.00 %
Total	(0.10)%	(0.05)%
Current valuation	12.84 %	12.94 %
Statutory employer contribution rate	12.75 %	12.75 %
Margin available [contribution sufficiency/(deficiency)]	(0.09)%	(0.19)%

## DEVELOPMENT OF UNFUNDED ACTUARIAL ACCRUED LIABILITY (UAAL)

	(\$ in :	millions)
	7/1/2019	7/1/2018
UAAL at beginning of year	\$ 1,337.5	\$ 1,354.2
OAAL at beginning of year	φ 1,557.5	\$ 1,334.2
Normal cost	79.9	80.2
Total contributions	(173.9)	(168.9)
Interest on:		
UAAL and normal cost	109.8	111.2
Total contributions	(6.1)	(5.9)
Expected UAAL	\$ 1,347.2	\$ 1,370.8
Changes due to (gain)/loss from:		
Investments	\$ 34.8	\$ (4.6)
Demographics	(24.1)	(28.7)
Change due to actuarial audit	-	-
Change in actuarial assumptions	-	<u> </u>
UAAL at end of year	\$ 1,357.9	\$ 1,337.5

### **SOLVENCY TEST**

	Actuarial Accrued Liability (AAL) (in millions)				Portion of AA	AL Covered by Va	aluation Assets
			Active/Inactive				Active/Inactive
	Active		Members	Actuarial	Active		Members
Valuation	Member	Retirees and	(Employer	Value of Assets	Member	Retirees and	(Employer
Year	Contributions	Beneficiaries	Financed)	(\$ in millions)	Contributions	Beneficiaries	Financed)
2010	\$600.4	\$1,246.1	\$ 790.7	\$1,842.0	100.0%	99.6%	0.0%
2011	626.0	1,332.1	791.6	1,822.6	100.0	89.8	0.0
2012	647.9	1,429.0	794.9	1,748.1	100.0	77.0	0.0
2013	671.1	1,551.7	774.3	1,762.3	100.0	77.6	0.0
2014	698.2	1,661.6	779.0	1,940.5	100.0	74.8	0.0
2015	737.5	1,874.7	837.6	2,125.0	100.0	74.0	0.0
2016	792.8	1,976.3	820.3	2,229.3	100.0	51.4	0.0
2017	839.1	2,092.9	802.0	2,379.8	100.0	73.6	0.0
2018	881.4	2,222.0	760.1	2,526.1	100.0	74.0	0.0
2019	941.5	2,314.0	737.9	2,635.6	100.0	73.2	0.0

### SCHEDULE OF FUNDING PROGRESS

Actuarial Valuation Date July 1	Actuarial Value of Assets (AVA)	Actuarial Accrued Liability (AAL)	Unfunded/ Accrued Liability (UAAL)	Funded Ratio	Total Payroll (annualized)	UAAL as a % of Compensation
2010	\$1,842.0	\$2,637.2	\$ 795.2	69.8%	\$465.0	171.0%
2011	1,822.6	2,749.8	927.2	66.3	488.8	189.7
2012	1,748.1	2,871.9	1,123.8	60.9	505.3	222.4
2013	1,762.3	2,997.1	1,234.8	58.8	526.7	234.4
2014	1,940.5	3,138.8	1,198.3	61.8	557.2	215.1
2015	2,125.0	3,449.8	1,324.8	61.6	589.8	224.6
2016	2,229.3	3,589.4	1,360.1	62.1	627.0	216.9
2017	2,379.8	3,734.0	1,354.2	63.7	650.1	208.3
2018	2,526.1	3,863.5	1,337.5	65.4	653.5	204.7
2019	2,635.6	3,993.4	1,357.9	66.0	680.5	199.5

Please also refer to the Schedule of Employer Contributions in the required supplementary information to the financial statements on page 64.

#### SUMMARY OF PLAN PROVISIONS

Effective Date: July 1, 1971.

**Plan Year:** July 1 through June 30

<u>Administration</u>: The Teachers' Fund for Retirement (TFFR) is administered by a Board of Trustees. A separate State Investment Board is responsible for the investment of the trust assets, although the TFFR Board establishes the asset allocation policy. The TFFR Board is also responsible for establishing and maintaining a funding policy. The Retirement and Investment Office is the administrative agency for TFFR.

**Type of Plan:** TFFR is a qualified governmental defined benefit retirement plan. For Governmental Accounting Standards Board purposes, it is a cost-sharing multiple-employer public employee retirement system.

**Eligibility:** All certified teachers of any public school in North Dakota participate in TFFR. This includes teachers, supervisors, principals, administrators, etc. Non-certified employees such as teacher's aides, janitors, secretaries, drivers, etc. are not allowed to participate in TFFR. Eligible employees become members at their date of employment.

Member Contributions: All active members contribute 11.75% of their salary per year. The employer may "pick up" the member's contributions under the provisions of Internal Revenue Code Section 414(h). The member contribution rate was increased from 7.75% to 9.75% effective July 1, 2012, and was increased to 11.75% effective July 1, 2014. The total addition of 4% to the member contribution rate will remain in effect until TFFR is 100% funded on an actuarial basis. At that point, the member contribution rate will revert to 7.75%.

<u>Salary</u>: A member's total earnings are used for salary purposes, including overtime, etc., and including nontaxable wages under a Section 125 plan, but excluding certain extraordinary compensation, such as fringe benefits or unused sick and vacation leave.

**Employer Contributions:** The district or other employer that employs a member contributes a percentage of the member's salary. This percentage consists of a base percentage of 7.75%, plus, since July 1, 2008, additions as shown below.

Effective Date	Addition to 7.75% Base Rate	Employer Contribution Rate
July 1, 2008	0.50%	8.25%
July 1, 2010	1.00%	8.75%
July 1, 2012	3.00%	10.75%
July 1, 2014	5.00%	12.75%

However, the additions are subject to a "sunset" provision, so the contribution rate will revert to 7.75% once the funded ratio reaches 100%, measured using the actuarial value of assets. The contribution rate will not automatically increase if the funded ratio later falls back below 100%.

#### Summary of Plan Provisions (continued)

<u>Service</u>: Employees receive credit for service while a member. A member may also purchase credit for certain periods, such as time spent teaching at a public school in another state, by paying the actuarially determined cost of the additional service. Special rules and limits govern the purchase of additional service.

<u>Tiers:</u> Members who join TFFR by June 30, 2008, are in Tier 1, while members who join later are in Tier 2. If a Tier 1 member terminates, takes a refund, and later rejoins TFFR after June 30, 2008, that member will be in Tier 2. As of June 30, 2013, Tier 1 members who are at least age 55 and vested (3 years of service) as of the effective date, or the sum of the member's age and service is at least 65, are considered Grandfathered, and previous plan provisions will not change. Tier 1 members who do not fit these criteria as of June 30, 2013, are considered Non-grandfathered. These members, along with Tier 2, will have new plan provisions, as described below.

<u>Final Average Compensation (FAC)</u>: The average of the member's highest three (Tier 1 members) or five (Tier 2 members) plan year salaries. Monthly benefits are based on one-twelfth of this amount.

#### **Normal Retirement:**

- a. Eligibility:
  - Tier 1 members may retire upon Normal Retirement on or after age 65 with credit for 3 years of service, or if earlier, when the sum of the member's age and service is at least 85. Effective as of June 30, 2013, Tier 1 members who are at least age 55 and vested (3 years of service) as of the effective date, or the sum of the member's age and service is at least 65, normal retirement eligibility will not change (participants are Grandfathered). For those who do not meet this criteria as of June 30, 2013 (Non-grandfathered), members may retire upon Normal Retirement on or after age 65 with credit for 3 years of service, or if earlier, when the sum of the member's age and service is at least 90, with a minimum age of 60.
  - Tier 2 members may retire upon Normal Retirement on or after age 65 with credit for 5 years of service, or if earlier, when the sum of the member's age and service is at least 90. Effective July 1, 2013, Tier 2 members may retire upon Normal Retirement on or after age 65 with credit for 5 years of service, or if earlier, when the sum of the member's age and service is at least 90, with a minimum age of 60.
- b. Monthly Benefit: 2.00% of FAC (monthly) times years of service.
- c. Payment Form: Benefits are paid as a monthly life annuity, with a guarantee that if the payments made do not exceed the member's assessments plus interest, determined as of the date of retirement, the balance will be paid in a lump-sum to the member's beneficiary. Optional forms of payment are available; see below.

#### **Early Retirement:**

a. Eligibility: Tier 1 members may retire early after reaching age 55 with credit for three years of service, while Tier 2 members may retire early after reaching age 55 with credit for five years of service.

#### Summary of Plan Provisions (continued)

- b. Monthly Benefit: 2.00% of FAC (monthly) times years of service, multiplied by a factor which reduces the benefit 6% for each year from the earlier of (i) age 65, or (ii) the age at which current service plus age equals 85 (Tier 1 members) or 90 (Tier 2 members). Effective July 1, 2013, for members who are either Nongrandfathered Tier 1 or Tier 2: 2.00% of FAC (monthly) times years of service, multiplied by a factor which reduces the benefit 8% for each year from the earlier of (i) age 65, or (ii) the age at which current service plus age equals 90 with a minimum age of 60.
- c. Payment Form: Same as for Normal Retirement above.

#### **Disability Retirement:**

- a. Eligibility: A member is eligible provided he/she has credit for at least one year of service. Effective July 1, 2013, a member is eligible provided he/she has credit for at least five years of service.
- b. Monthly Benefit: 2.00% of FAC (monthly) times years of service with a minimum 20 years of service. Effective July 1, 2013, 2.00% of FAC (monthly) times years of service.
- c. Payment Form: The disability benefit commences immediately upon the member's retirement. Benefits cease upon recovery or reemployment. Disability benefits are payable as a monthly life annuity with a guarantee that, at the member's death, the sum of the member's contributions plus interest as of the date of retirement that is in excess of the sum of payments already received will be paid in a lump-sum to the member's beneficiary.
- d. All alternative forms of payment other than level income and the partial lump-sum option are also permitted in the case of disability retirement. For basis recovery only, disability benefits are converted to normal retirement benefits when the member reaches normal retirement age or age 65, whichever is earlier.

#### **Deferred Termination Benefit:**

- a. Eligibility: A Tier 1 member with at least three years of service, or a Tier 2 member with at least five years of service, who does not withdraw his/her contributions from the fund, is eligible for a deferred termination benefit.
- b. Monthly Benefit: 2.00% of FAC (monthly) times years of service. Both FAC and service are determined at the time the member leaves active employment. Benefits may commence unreduced at age 65 or when the member's age and service is 85 (Grandfathered Tier 1 members) or 90 with a minimum age of 60 (Nongrandfathered Tier 1 and Tier 2 members). Reduced benefits may commence at or after age 55 if the member is not eligible for an unreduced benefit. Reductions are the same as for Early Retirement.
- c. Payment Form: The form of payment is the same as for Normal Retirement above.
- d. Death Benefit: A member who dies after leaving active service but before retiring is entitled to receive a benefit as described below.

#### Withdrawal (Refund) Benefit:

a. Eligibility: Tier 1 members leaving covered employment with less than three years of service, and Tier 2 members leaving covered employment with less than five years of service, are eligible. Optionally, vested members may withdraw their contributions plus interest in lieu of the deferred benefits otherwise due.

#### Summary of Plan Provisions (continued)

b. Benefit: The member who withdraws receives a lump-sum payment of his/her employee contributions, plus the interest credited on these contributions. Interest is credited at 6% per year (0.5% per month).

#### **Death Benefit:**

- a. Eligibility: Death must have occurred while an active or an inactive, non-retired member.
- b. Benefit: Upon the death of a nonvested member, a refund of the member's contributions and interest is paid. Upon the death of a vested member, the beneficiary may elect (i) the refund benefit above, or (ii) a life annuity of the normal retirement benefit, determined under Option One below, based on FAC and service as of the date of death, but without applying any reduction for the member's age at death. In determining the reduction for Option One, members not eligible for normal retirement benefits use the Fund's option tables for disabled members.

**Optional Forms of Payment:** There are optional forms of payment available on an actuarially equivalent basis, as follows:

- a. Option 1 A life annuity payable while either the participant or his beneficiary is alive, "popping-up" to the original life annuity if the beneficiary predeceases the member.
- b. Option 2 A life annuity payable to the member while both the member and beneficiary are alive, reducing to 50% of this amount if the member predeceases the beneficiary, and "popping-up" to the original life annuity if the beneficiary predeceases the member.
- c. Option 3a A life annuity payable to the member, with a guarantee that, should the member die prior to receiving 60 payments (five years), the payments will be continued to a beneficiary for the balance of the five-year period. (This option has been replaced by Option 3b. It is not available to employees who retire on or after August 1, 2003. Retirees who elected this option prior to that date are unaffected.)
- d. Option 3b A life annuity payable to the member, with a guarantee that, should the member die prior to receiving 240 payments (twenty years), the payments will be continued to a beneficiary for the balance of the twenty-year period. (This option replaced Option 3a effective August 1, 2003.)
- e. Option 4 A life annuity payable to the member, with a guarantee that, should the member die prior to receiving 120 payments (ten years), the payments will be continued to a beneficiary for the balance of the ten-year period.
- f. Option 5 A non-level annuity payable to the member, designed to provide a level total income when combined with the member's Social Security benefit. This option is not available to disabled retirees.

In addition, members may elect a partial lump-sum option (PLSO) at retirement. Under this option, a member receives an immediate lump-sum equal to 12 times the monthly life annuity benefit and a reduced annuity. The reduction is determined actuarially. The member can then elect to receive the annuity benefit in one of the other optional forms, except that members who receive a PLSO may not elect Option 5 – the level income option. The PLSO is not available to disabled retirees or retirees who are not eligible for an unreduced retirement benefit.

Actuarial equivalence is based on tables adopted by the Board of Trustees.

<u>Cost-of-living Increase</u>: From time to time, TFFR has been amended to grant certain post-retirement benefit increases. However, TFFR has no automatic cost-of-living increase features.

#### SUMMARY OF PLAN CHANGES

#### 1991 Legislative Session:

- 1. Benefit multiplier increased from 1.275% to 1.39% for all future retirees.
- 2. Provide a post-retirement benefit increase for all annuitants receiving a monthly benefit on June 30, 1991. The monthly increase is the greater of a 10% increase or a level increase based on years of service and retirement date:
  - a. \$3 per year of service for retirements before 1980.
  - b. \$2 per year of service for retirements between 1980 and 1983.
  - c. \$1 per year of service for retirements from 1984 through June 30, 1991.

Minimum increase is \$5 per month. Maximum increase is \$75 per month.

#### 1993 Legislative Session:

- 1. Benefit multiplier increased from 1.39% to 1.55% for all future retirees.
- 2. Provide a post-retirement benefit increase for all annuitants receiving a monthly benefit on June 30, 1993. The monthly increase is the greater of a 10% increase or a level increase based on years of service and retirement date:
  - a. \$3 per year of service for retirements before 1980.
  - b. \$2.50 per year of service for retirements between 1980 and 1983.
  - c. \$1 per year of service for retirements from 1984 through June 30, 1993.

Minimum increase is \$5 per month. Maximum increase is \$100 per month.

- 3. Minimum retirement benefit increased to \$10 times years of service up to 25, plus \$15 times years of service greater than 25. (Previously was \$6 up to 25 years of service plus \$7.50 over 25 years of service.)
- 4. Disability benefit changed to 1.55% of FAC times years of service using a minimum of 20 years of service.

#### 1995 Legislative Session:

There were no material changes made during the 1995 legislative session.

#### 1997 Legislative Session:

- 1. Benefit multiplier increased from 1.55% to 1.75% for all future retirees.
- 2. Member assessment rate and employer contribution rate increased from 6.75% to 7.75%.
- 3. A \$30.00/month benefit improvement was granted to all retirees and beneficiaries.

#### Summary of Plan Changes (continued)

#### 1999 Legislative Session:

- 1. Active members will now be fully vested after three years (rather than five years) of service.
- 2. Early retirement benefits will be reduced 6% per year from the earlier of (i) age 65, or (ii) the date as of which age plus service equals 85 (rather than from age 65 in all cases).
- 3. An ad hoc COLA was provided for all retirees and beneficiaries. This increase is equal to an additional \$2 per month for each year of service plus \$1 per month for each year since the member's retirement.
- 4. The formula multiplier was increased from 1.75% to 1.88% effective July 1, 1999.

#### **2001 Legislative Session:**

- 1. An ad hoc COLA was provided for all retirees and beneficiaries. The ad hoc COLA increase is equal to an additional \$2.00 per month for each year of service plus \$1.00 per month for each year since the member's retirement. Retirees and beneficiaries will also receive two additional increases equal to 0.75% times the monthly benefit, payable July 1, 2001 and July 1, 2002. The two 0.75% increases are conditional. If the actuarial margin is a shortfall, i.e., is negative, by 60 basis points or more, or if the margin has been negative by 30 or more basis points for two years, the Board could elect to suspend the increase.
- 2. The formula multiplier was increased from 1.88% to 2.00% effective July 1, 2001.

#### **2003 Legislative Session:**

- 1. Partial lump-sum option adopted, equal to twelve times the monthly life annuity benefit. Not available if level-income option is elected. Not available for reduced retirement or disability retirement.
- 2. Five-year certain and life option replaced with 20-year certain and life. This does not impact retirees who retired under the five-year certain and life option.
- 3. Employer service purchase authorized.
- 4. Active members of the Department of Public Instruction are permitted to make a one-time irrevocable election to transfer to the North Dakota Public Employees Retirement System in FY2004. Both assets and liabilities for all TFFR service will be transferred for electing employees. Transferred assets will be based on the actuarial present value of the member's accrued TFFR benefit, or the member's contribution account balance if larger.

#### **2005 Legislative Session:**

There were no material changes made during the 2005 legislative session.

#### Summary of Plan Changes (continued)

#### **2007 Legislative Session:**

- 1. For active members hired on or after July 1, 2008 (called Tier 2 members):
  - a. Members will be eligible for an unreduced retirement benefit when they reach age 65 with at least five years of service (rather than three years of service); or if earlier, when the sum of the member's age and service is at least 90 (rather than 85).
  - b. Members will be eligible for a reduced (early) retirement benefit when they reach age 55 with five years of service, rather than three years of service.
  - c. Members will be fully vested after five years of service (rather than three years of service).
  - d. The Final Average Compensation for Tier 2 members is the average of the member's highest five plan year salaries, rather than the average of the three highest salaries.
- 2. The employer contribution rate increases from 7.75% to 8.25% effective July 1, 2008, but this rate will reset to 7.75% once the Fund reaches a 90% funded ratio, measured using the actuarial value of asset. (If the funded ratio later falls below 90% again, the contribution rate will not automatically return to 8.25%.)
- 3. Employer contributions are required on the salary of reemployed retirees.
- 4. Active members of the Department of Career and Technical Education are permitted to make a one-time irrevocable election to transfer to the North Dakota Public Employees Retirement System in FY 2008. Both assets and liabilities for all TFFR service will be transferred for electing employees. Transferred assets will be the actuarial present value of the member's accrued TFFR benefit, or the member's contribution account balance, if larger.

#### **2009 Legislative Session:**

- 1. An individual who retired before January 1, 2009, and is receiving monthly benefits is entitled to receive a supplemental payment from the fund. The supplemental payment is equal to an amount determined by taking twenty dollars multiplied by the member's number of years of service credit plus fifteen dollars multiplied by the number of years since the member's retirement as of January 1, 2009. The supplemental payment may not exceed the greater of 10% of the member's annual annuity or \$750.00. TFFR will make the supplemental payment in December 2009.
- 2. The employer contribution rate increases from 8.25% to 8.75% effective July 1, 2010, but this rate will be reset to 7.75% once the Fund reaches a 90% funded ratio, measured using the actuarial value of assets. (If the funded ratio later falls below 90% again, the contribution rate will not automatically return to 8.75%.)

#### **2011 Legislative Session:**

- 1. The employer contribution rate increases from 8.75% to 10.75% effective July 1, 2012, and increases thereafter to 12.75% effective July 1, 2014. The member contribution rate increases from 7.75% to 9.75% effective July 1, 2012, and increases thereafter to 11.75% effective July 1, 2014. Employer and member contributions will be reset to 7.75% once the Fund reaches a 90% funded ratio, measured using the actuarial value of assets.
- 2. Current Tier 1 members who, as of June 30, 2013, are vested (at least 3 years of service), and at least age 55, OR the sum of the member's age and service is at least 65, are considered a Tier 1 Grandfathered member. Current Tier 1 members, who do not meet this criteria as of June 30, 2013, are considered a Tier 1 Nongrandfathered member.

#### Summary of Plan Changes (continued)

- 3. Eligibility for normal/unreduced retirement benefits do not change for Tier 1 Grandfathered members. For Tier 1 Non-grandfathered and Tier 2 members, effective June 30, 2013, unreduced retirement benefits start when the member reaches age 65 and is vested (3 years for Tier 1 Non-grandfathered, 5 years for Tier 2); or if earlier, when the sum of the member's age and service is at least 90, with a minimum age of 60.
- 4. Early retirement benefits do not change for Tier 1 Grandfathered members. For Tier 1 Non-grandfathered and Tier 2 members, effective after June 30, 2013, the normal retirement benefit will be reduced by 8% per year from the earlier of age 65 OR the age at which the sum of the member's age and service is at least 90, with the minimum age of 60.
- 5. Effective after June 30, 2013, all members may retire on disability after a period of at least five years of service (rather than one year of service). The amount of the benefit is based on a 2% multiplier and actual service (rather than a minimum of twenty years of service in the current calculation).
- 6. Effective July 1, 2012, re-employed retirees are required to pay member contributions.
- 7. Effective August 1, 2011, beneficiary and death benefit provisions were updated, and the 60-month death payment benefit was removed.

#### **2013 Legislative Session:**

- 1. Employer and member contribution rates will be reset to 7.75% once the Fund reaches a 100% funded ratio (rather than the 90% funded ratio enacted with the 2011 Legislation), measured using the actuarial value of assets.
- 2. Various technical and administrative changes that do not have an actuarial effect on the Plan were enacted.

#### 2015 Legislative Session:

1. Various technical and administrative changes that do not have an actuarial effect on the Plan were enacted.

#### **2017 Legislative Session:**

There were no material changes made during the 2017 legislative session.

#### **2019 Legislative Session:**

There were no material changes made during the 2019 legislative session.

# STATISTICAL SECTION

This part of the Retirement and Investment Office's (RIO) comprehensive annual financial report presents detailed information as a context for understanding what the information in the financial statements, note disclosures, and required supplementary information says about RIO's overall financial health.

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Financial Trends 190

These schedules contain trend information to help the reader understand how RIO's financial performance and well-being have changed over time.

#### **Demographic Information**

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These schedules offer demographic indicators to help the reader understand the environment within which RIO's financial activities take place.

#### **Operating Information**

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These schedules contain service data to help the reader understand how the information in RIO's financial report relates to the services RIO provides and the activities it performs.

Sources: Unless otherwise noted, the information in these schedules is derived from the comprehensive annual financial reports for the relevant year.

## CHANGES IN NET POSITION PENSION TRUST FUND

#### **ADDITIONS**

			Employer Contributions			
Fiscal	Member	Emml or or	as a Percentage of Annual	Investment and Other	Purchased Service	Total
Year	Contributions	Employer Contributions	Covered Payroll	Income	Credit	Additions
	001111101110110				010020	
2010	\$ 36,848,481	\$ 39,836,646	8.25	\$179,066,695	\$ 1,413,481	\$ 257,165,303
2011	38,869,260	44,545,433	8.75	334,965,040	1,499,748	419,879,481
2012	40,254,562	46,126,193	8.75	(21,501,670)	2,417,995	67,297,080
2013	53,824,557	59,352,860	10.75	220,236,221	2,641,019	336,054,657
2014	56,554,767	62,355,146	10.75	294,294,215	2,034,289	415,238,417
2015	72,268,451	78,422,098	12.75	73,377,280	1,600,739	225,668,568
2016	76,342,685	82,839,932	12.75	8,283,962	2,768,245	170,234,824
2017	79,309,153	86,058,868	12.75	266,924,541	2,553,200	434,845,762
2018	79,877,611	86,675,715	12.75	211,539,397	2,181,106	380,273,829
2019	82,429,594	89,444,881	12.75	135,202,032	1,916,787	308,993,294

#### **DEDUCTIONS**

				-0110		
Fiscal	<b>Benefits Paid</b>		A	dministrative	Total	Change in
Year	to Participants	Refunds		Charges	Deductions	Net Position
2010	\$ 124,472,154	\$ 2,557,240	\$	1,902,796	\$128,932,190	\$128,233,113
2011	127,435,564	2,210,738		2,003,705	131,650,007	288,229,474
2012	135,250,568	2,479,194		1,596,976	139,326,738	(72,029,658)
2013	145,943,323	3,053,395		1,623,638	150,620,356	185,434,301
2014	158,350,355	3,908,921		1,586,045	163,845,321	251,393,096
2015	168,349,762	3,889,671		1,923,392	174,162,825	51,505,743
2016	180,617,784	5,350,896		1,851,656	187,820,336	(17,585,512)
2017	191,104,694	5,411,850		2,173,431	198,689,975	181,583,854
2018	202,417,031	5,561,668		2,128,794	210,107,493	98,885,801
2019	215,328,174	5,900,392		2,251,083	223,479,649	85,513,645

## BENEFIT AND REFUND DEDUCTIONS BY TYPE

			Anı	nuity Payme	nts	Refunds										
Fiscal	Service		PLSO	]	Disability			T	otal Annuity							<b>Total Benefit</b>
Year	Retirements	Dis	tributions	R	etirements	Beneficiaries			Payments		Separation		Death		al Refunds	Expenses
2010	\$115,203,349	\$	821,478	\$	1,440,481	\$	7,006,846	\$	124,472,154	\$	1,953,964	\$	256,774	\$	2,557,240	\$127,029,394
2011	117,868,157		951,229		1,705,041		6,911,137		127,435,564		2,139,727		339,467		2,210,738	129,646,302
2012	125,721,931		532,104		1,685,206		7,311,327		135,250,568		2,870,693		182,702		2,479,194	137,729,762
2013	135,498,122		863,990		1,738,006		7,843,205		145,943,323		3,451,162		457,759		3,053,395	148,996,718
2014	147,286,889		820,463		1,960,290		8,282,713		158,350,355		3,090,345		799,326		3,908,921	162,259,276
2015	157,134,597		557,332		1,891,043		8,766,790		168,349,762		4,618,157		732,739		3,889,671	172,239,433
2016	168,179,310		992,233		1,920,107		9,526,134		180,617,784		4,776,556		635,294		5,350,896	185,968,680
2017	177,795,295		1,075,553		1,892,150		10,341,696		191,104,694		4,631,061		780,789		5,411,850	196,516,544
2018	188,684,763		768,829		1,903,460		11,059,979		202,417,031		4,770,163		791,505		5,561,668	207,978,699
2019	200,474,295		1,237,129		1,948,753		11,667,997		215,328,174		5,252,032		648,360		5,900,392	221,228,566

# SCHEDULE OF CONTRIBUTION RATES LAST 10 FISCAL YEARS

Fiscal	Member	Employer
Year	Rate	Rate
2010	7.75%	8.25%
2011	7.75%	8.75%
2012	7.75%	8.75%
2013	9.75%	10.75%
2014	9.75%	10.75%
2015	11.75%	12.75%
2016	11.75%	12.75%
2017	11.75%	12.75%
2018	11.75%	12.75%
2019	11.75%	12.75%

## PRINCIPAL PARTICIPATING EMPLOYERS CURRENT YEAR AND NINE YEARS AGO

2019 2010

Doutising ting Fundamen	Covered	Doub	% of Total	Covered	Dank	% of Total
Participating Employer	Employees	Rank	System	Employees	Rank	System
Bismarck Public Schools	1,254	1	10.37%	1,054	1	8.90%
Fargo Public Schools	1,156	2	9.56%	1,037	2	8.75%
West Fargo Schools	1,061	3	8.78%	611	5	5.16%
Grand Forks Schools	830	4	6.87%	774	3	6.53%
Minot Schools	706	5	5.84%	642	4	5.42%
Mandan Public Schools	348	6	2.88%	297	6	2.51%
Dickinson Schools	331	7	2.74%	238	7	2.01%
Williston Schools	300	8	2.48%	198	9	1.67%
Jamestown Schools	224	9	1.85%	220	8	1.86%
Devils Lake Schools	173	10	1.43%	176	10	1.49%
All Other <sup>1</sup>	5,705		47.20%	6,600		55.71%
Total (213 & 231 employers) <sup>2</sup>	12,088		100.00%	11,847		100.00%

<sup>1</sup> In 2019 "all other" consisted of:			<sup>1</sup> In 2010 "all other" consisted of:						
Туре	Number	<b>Employees</b>	Number Employees						
School Districts	165	5,121	173 6,066						
County Superintendents	6	6	11 11						
Special Education Units	19	372	21 383						
Vocational Centers	4	54	5 53						
State Agencies/Institutions	5	106	7 80						
Other	4	46	4 7						
Total	203	5,705	221 6,600						

<sup>&</sup>lt;sup>2</sup> This schedule includes all employees who earned service credit during the fiscal year. If an employee worked for more than one employer during the year, that employee is counted multiple times. The total differs from the actuary's total active members as the actuary's total only includes those employees who were active at the end of the fiscal year and only counts each individual one time.

Oakes

#### SCHEDULE OF PARTICIPATING EMPLOYERS AT JUNE 30, 2019

**School Districts Grand Forks** Minto

Alexander Grenora Mohall-Lansford-Sherwood

Anamoose Griggs County Central Montpelier Apple Creek Elementary Halliday Mott-Regent Mt. Pleasant Ashley Hankinson Munich Bakker Elementary Harvey Barnes County North Hatton Napoleon Hazelton - Moffit Beach Naughton Rural

Belcourt Nedrose Hazen Belfield Hebron Nesson New England Beulah Hettinger

**Billings County School** New Rockford-Shevenne Hillsboro Bismarck New Salem-Almont Hope

Bottineau Horse Creek Elementary New Town Bowbells Newburg United Jamestown Bowman Kenmare North Border School Burke Central Kensal North Sargent North Star Carrington Kidder County School Northern Cass Cavalier Killdeer Center-Stanton Kindred Northwood

Central Cass **Oberon Elementary** Central Valley Lakota

Page Dakota Prairie LaMoure

Kulm

Park River Area Devils Lake Langdon

Parshall Dickinson Larimore

Divide Pingree – Buchanan Leeds Powers Lake Lewis and Clark Drake Richardton-Taylor Drayton Lidgerwood

Dunseith Linton Richland Rolette Earl Elementary Lisbon Roosevelt Edgeley Litchville-Marion Rugby Edmore Little Heart Elementary

Sargent Central Eight Mile Lone Tree Elementary Sawyer Elgin/New Leipzig Maddock Ellendale Mandan Scranton Selfridge Emerado Elementary Mandaree

Solen-Cannonball Manning Elementary Enderlin Area School South Heart Fairmount Manvel Elementary

South Prairie Elementary Maple Valley Fargo

St. John's Fessenden-Bowdon **Mapleton Elementary** Finley-Sharon Marmarth Elementary St. Thomas Stanley Flasher Starkweather Mayville - Portland CG Fordville Lankin McClusky Sterling Fort Ransom Elementary

Strasburg McKenzie County School Fort Totten Surrey Medina Fort Yates

Sweet Briar Elementary Menoken Elementary Gackle-Streeter

**TGU** Midkota Garrison Thompson Midway Glen Ullin Milnor Tioga Glenburn

Turtle Lake - Mercer Minnewauken Goodrich Twin Buttes Elementary Minot Grafton

#### **SCHEDULE OF PARTICIPATING EMPLOYERS (Continued)**

School Districts (cont.)	Pembina Spec. Ed. Co-Op
Underwood	Rural Cass County Special Ed.
United	Sheyenne Valley Special Ed.
Valley-Edinburg	Souris Valley Special Ed.
Valley City	South Central Prairie Special Ed.
Velva	South Valley Special Ed.
Wahpeton	Southwest Special Ed.
Warwick	Upper Valley Special Ed.
Washburn	West River Student Services
West Fargo	Wil-Mac Special Ed.
Westhope	
White Shield	Total Special Ed Units 19
Williams County School	
Williston	<u>Vocational Centers</u>
Wilton	North Valley Career & Tech Center
Wing	Roughrider Area Career & Tech
Wishek	SE Region Career & Tech Center
Wolford	Sheyenne Valley Area Voc Center
Wyndmere	
Yellowstone	Total Vocational Centers 4
Zeeland	
Ziolana	State Agencies & Institutions
Total School Districts 17	ND Center for Distance Education
	ND Dept. of Public Instruction
<b>County Superintendents</b>	ND School for the Blind
Logan County	ND School for the Deaf
McKenzie County	ND Youth Correctional Center
Morton County	
Nelson County	Total State Agencies
Slope County	& Institutions 5
Ward County	
Total County Super.	6 Other
Total County Super.	Great NW Cooperative
C 'IEI 4' II'4	ND United

### **Special Education Units**

Burleigh County Special Ed.
E Central Center for Exc. Children
GST Educational Services
James River Multidistrict Spec. Ed.
Lake Region Special Ed.
Lonetree Special Ed.
Northern Plains Special Ed.
Oliver – Mercer Special Ed.
Peace Garden Special Ed.

Total Other 4

Total Employers 213

Roughrider Service Program

South East Education Co-Op

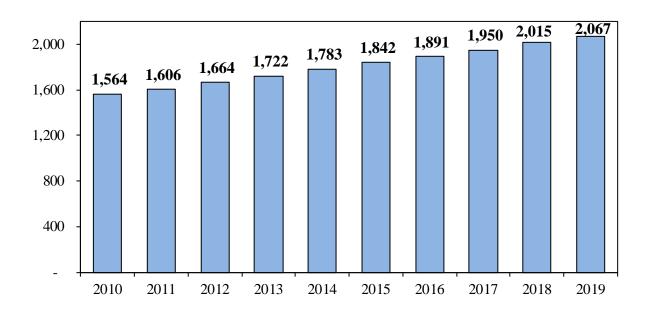
## SCHEDULE OF RETIREES RESIDING IN NORTH DAKOTA BY COUNTY AS OF JUNE 30, 2019

								<b>\</b>
County	Number	Average Benefit	County	Number	Average Benefit	County	Number	Average Benefit
Adams	25	\$ 2,061	Griggs	42	\$ 2,053	Richland	142	\$ 2,351
Barnes	175	2,291	Hettinger	29	1,969	Rolette	104	2,077
Benson	56	2,242	Kidder	40	1,872	Sargent	44	1,727
Billings	5	2,042	LaMoure	66	1,958	Sheridan	15	1,718
Bottineau	132	1,808	Logan	18	1,936	Sioux	8	1,997
Bowman	47	1,909	McHenry	72	2,114	Slope	3	1,355
Burke	40	1,556	McIntosh	38	1,882	Stark	235	2,298
Burleigh	946	2,225	McKenzie	61	1,994	Steele	20	1,894
Cass	1156	2,362	McLean	129	2,034	Stutsman	234	2,135
Cavalier	73	1,775	Mercer	112	2,163	Towner	33	1,953
Dickey	68	2,052	Morton	302	2,104	Traill	112	2,060
Divide	32	1,925	Mountrail	80	1,809	Walsh	159	2,043
Dunn	40	2,117	Nelson	59	1,775	Ward	643	2,220
Eddy	38	1,972	Oliver	17	2,433	Wells	70	2,038
Emmons	40	1,993	Pembina	114	2,197	Williams	196	2,365
Foster	48	2,325	Pierce	67	1,911	Out of State	1,798	1,647
Golden Valley	19	2,064	Ramsey	138	1,940			
Grand Forks	650	2,305	Ransom	58	1,877	GRAND TOTALS:	8,918	\$ 2,067
Grant	31	1,669	Renville	39	1,875			

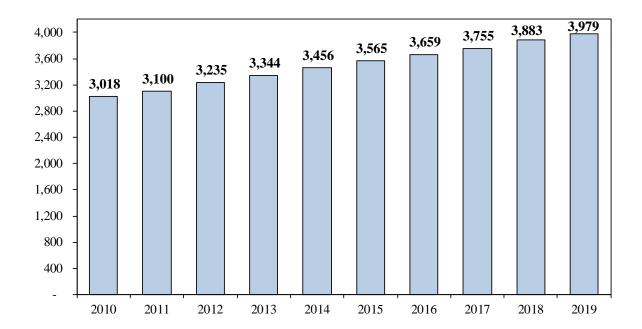
## SCHEDULE OF AVERAGE BENEFIT PAYMENTS

V-1 ('					Ye	ars of Serv	vice			
Valuation Year		< 5	5 - 9	10 - 14	15 - 19	20 - 24	25 - 29	30 - 34	> 34	TOTAL
2010	Number of Retirees	90	262	463	430	717	1,438	1,971	1,301	6,672
	Average Monthly Benefit	199	316	441	695	1,130	1,569	1,984	2,194	1,564
	Average Final Average Salary	1,695	2,034	1,901	2,253	2,761	3,100	3,403	3,427	3,018
	Average Years of Service	2.7	7.4	12.5	17.4	22.7	27.5	31.9	37.9	27.5
2011	Number of Retirees	99	291	475	446	746	1,494	2,148	1,234	6,933
	Average Monthly Benefit	203	316	457	719	1,182	1,626	2,015	2,306	1,606
	Average Final Average Salary	1,806	2,072	1,967	2,351	2,869	3,209	3,456	3,537	3,100
	Average Years of Service	2.8	7.3	12.5	17.3	22.7	27.5	32.1	38.2	27.4
2012	Number of Retirees	99	309	482	464	771	1,521	2,232	1,273	7,151
	Average Monthly Benefit	202	317	479	757	1,228	1,673	2,065	2,438	1,664
	Average Final Average Salary	1,973	2,118	2,120	2,507	3,008	3,322	3,570	3,740	3,235
	Average Years of Service	2.7	7.4	12.5	17.3	22.7	27.5	32.1	38.2	27.4
2013	Number of Retirees	105	330	493	497	806	1,571	2,322	1,365	7,489
	Average Monthly Benefit	225	331	496	799	1,275	1,717	2,113	2,558	1,722
	Average Final Average Salary	1,989	2,219	2,210	2,663	3,118	3,412	3,661		3,344
	Average Years of Service	2.8	7.4	12.5	17.3	22.7	27.5	32.1	38.2	27.5
2014	Number of Retirees	111	351	498	507	835	1,618	2,400	1,427	7,747
	Average Monthly Benefit	232	333	512	837	1,340	1,770	2,169	2,667	1,783
	Average Final Average Salary	2,072	2,274	2,308	2,826	3,266	3,522	3,754	1,301 2,194 3,427 37.9 1,234 2,306 3,537 38.2 1,273 2,438 3,740 38.2 1,365 2,558 3,893 38.2 1,427	3,456
	Average Years of Service	2.8	7.4	12.5	17.3	22.7	27.5	32.1	38.1	27.5
2015	Number of Retirees	115	373	513	527	869	1,656	2,492	1,480	8,025
	Average Monthly Benefit	229	339	530	857	1,385	1,822	2,232		1,842
	Average Final Average Salary	2,112	2,352	2,417	2,895	3,372	3,625	3,862		3,565
	Average Years of Service	2.8	7.3	12.5	17.3	22.7	27.5	32.1	38.1	27.5
2016	Number of Retirees	118	400	530	540	897	1,692	2,541		8,249
	Average Monthly Benefit	224	344	547	890	1,435	1,871	2,292		1,891
	Average Final Average Salary	2,096	2,425	2,523	2,998	3,497	3,716	3,958		3,659
	Average Years of Service	3.0	7.0	12.0	17.0	23.0	28.0	32.0	38.0	27.0
2017	Number of Retirees	126	419	549	558	920	1,747	2,596	1,586	8,501
	Average Monthly Benefit	215	352	560	917	1,504	1,925	2,346	2,993	1,950
	Average Final Average Salary	2,139	2,501	2,590	3,070	3,647	3,809	4,034	4,403	3,755
1	Average Years of Service	3.0	7.0	12.0	17.0	23.0	28.0	32.0	38.0	27.0
2018	Number of Retirees	123	444	560	588	952	1,781	2,659	1,636	8,743
	Average Monthly Benefit	211	361	576	981	1,557	1,990	2,407		2,015
	Average Final Average Salary	2,140	2,600	2,691	3,303	3,773	3,943	4,137		3,883
	Average Years of Service	2.8	7.3	12.4	17.3	22.7	27.5	32.1	38.2	27.4
2019	Number of Retirees	132	474	573	597	965	1,814	2,698	1,665	8,918
	Average Monthly Benefit	205	365	592	1,007	1,616	2,039	2,471	3,226	2,067
	Average Final Average Salary	2,167	2,687	2,757	3,384	3,913	4,032	4,233	4,693	3,979
	Average Years of Service	2.9	7.3	12.4	17.3	22.7	27.5	32.1	38.3	27.3

### **AVERAGE BENEFIT PAYMENTS**



## AVERAGE FINAL AVERAGE SALARY



## SCHEDULE OF RETIREES BY BENEFIT AMOUNT

Monthly Benefit	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010
Under \$200	260	253	251	241	231	228	224	215	215	199
200 to 399	463	448	460	461	465	462	464	464	471	466
400 to 599	424	434	435	445	449	443	454	473	489	500
600 to 799	399	403	400	387	392	402	417	418	436	446
800 to 999	387	400	401	398	402	408	410	409	410	410
1,000 to 1,199	498	500	497	506	511	522	533	518	515	527
1,200 to 1,399	490	504	513	528	527	532	535	525	524	514
1,400 to 1,599	550	555	567	583	590	587	591	573	574	556
1,600 to 1,799	608	620	622	619	619	615	607	592	568	550
1,800 to 1,999	608	611	605	608	599	599	586	570	557	526
2,000 to 2,199	573	570	566	557	557	537	522	501	474	445
2,200 to 2,399	542	538	531	514	484	462	435	409	394	381
2,400 to 2,599	440	436	421	406	398	377	349	325	313	287
2,600 to 2,799	402	384	372	356	347	320	303	281	267	237
2,800 to 2,999	387	378	356	336	309	301	261	227	200	178
3,000 to 3,199	341	329	314	292	277	228	206	178	155	124
3,200 to 3,399	301	288	272	239	210	178	147	124	91	84
3,400 to 3,599	239	220	197	175	156	141	114	92	79	72
3,600 to 3,799	197	186	162	144	132	101	83	72	55	46
3,800 to 3,999	154	131	115	105	79	62	58	42	35	34
4,000 & Over	655	555	444	349	291	242	190	143	111	90
TOTAL	8,918	8,743	8,501	8,249	8,025	7,747	7,489	7,151	6,933	6,672

## SCHEDULE OF RETIREES BY BENEFIT TYPE

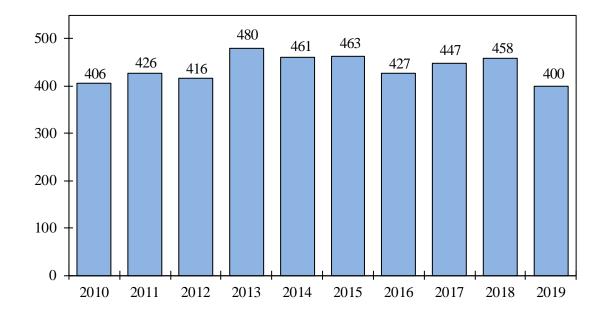
Form of Payment	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010
Service:										
Straight Life	2,994	2,988	2,960	2,917	3,096	3,014	2,916	2,801	2,739	2,583
100% J&S	3,483	3,358	3,195	3,035	2,733	2,570	2,449	2,279	2,153	2,095
50% J&S	689	680	666	644	576	552	531	515	501	500
5 Years C&L	17	18	18	19	19	21	22	23	28	32
10 Years C&L	175	173	172	175	171	175	177	178	184	179
20 Years C&L	143	130	113	100	96	91	85	73	63	55
Level	518	530	540	545_	559	568_	574_	579_	584	585
Subtotal	8,019	7,877	7,664	7,435	7,250	6,991	6,754	6,448	6,252	6,029
Disability:										
Straight Life	98	97	102	105	105	105	103	96	97	88
100% J&S	21	20	18	14	12	13	12	13	11	11
50% J&S	5	5	6	7	8	7	6	8	8	7
5 Years C&L	1	1	1	1	1	2	2	2	2	2
10 Years C&L	0	0	0	0	0	0	0	-	1	2
20 Years C&L	2	2	1	1	2	2	1	1	1	1
Subtotal	127	125	128	128	128	129	124	120	120	111
Beneficiaries:										
Straight Life	717	698	667	662	631	612	599	571	545	522
5 Years Certain Only	0	0	0	3	2	2	2	2	6	6
10 Years Certain Only	4	4	4	11	9	9	9	9	9	3
20 Years Certain Only	23	12	12	10	5	4	1	1	1	1
QDRO Alternate Payee*	28	27	26							
Subtotal	772	741	709	686	647	627	611	583	561	532
TOTAL	8,918	8,743	8,501	8,249	8,025	7,747	7,489	7,151	6,933	6,672

<sup>\*</sup> Prior to 2017, QDRO Alternate Payees were included within the other listed beneficiary options.

## SCHEDULE OF NEW RETIREES BY TYPE

Valuation				
Year	Retirement	Disability	Beneficiary	Total
<del>.</del>				
2010	366	8	32	406
2011	370	12	44	426
2012	371	7	38	416
2013	425	11	44	480
2014	407	7	47	461
2015	415	5	43	463
2016	354	5	68	427
2017	391	4	52	447
2018	398	3	57	458
2019	326	4	70	400

## **TOTAL NEW RETIREES**



## SUMMARY OF OPERATIONS FOR FISCAL YEARS ENDED JUNE 30

### PENSION INVESTMENT POOL

		2019		2018		2017		2016		2015
Public Employees Retirement System										
Net position beginning of year *	\$	3,023,532,073	\$	2,779,324,311	\$	2,457,275,530	\$	2,418,931,000	\$	2,328,985,200
Net change in fair value of investments	·	103,282,337		196,115,456		266,102,905		(39,399,793)		46,174,788
Interest, dividends and other income		68,783,166		66,566,132		61,615,229		58,071,997		45,848,042
Expenses		(8,255,626)		(6,981,342)		(7,653,510)		(7,314,631)		(8,177,030)
Net securities lending income		217,516		227,516		224,157		286,957		-
Net change in net position				,		,		,		
resulting from unit transactions		(35,900,000)		(11,720,000)		1,760,000		26,700,000		6,100,000
Net position end of year	\$	3,151,659,466	\$	3,023,532,073	\$	2,779,324,311	\$	2,457,275,530	\$	2,418,931,000
1		<u> </u>		· · · · ·		· · · · ·		· · · · ·		· · · · ·
City of Bismarck Employees Pension										
Net position beginning of year	\$	99,136,094	\$	91,886,553	\$	82,369,575	\$	81,619,071	\$	78,675,585
Net change in fair value of investments		3,701,861		5,176,598		7,655,028		(962,485)		1,640,168
Interest, dividends and other income		2,384,963		2,310,859		2,110,479		1,944,554		1,580,510
Expenses		(265,103)		(245,148)		(255,656)		(240,726)		(277,192)
Net securities lending income		6,769		7,232		7,127		9,161		-
Net change in net position										
resulting from unit transactions		(500,000)		-		-			_	
Net position end of year	\$	104,464,584	\$	99,136,094	\$	91,886,553	\$	82,369,575	\$	81,619,071
City of Bismarck Police Pension Plan										
Net position beginning of year	\$	40,089,884	\$	38,108,450	\$	33,953,131	\$	35,834,028	\$	34,585,870
Net change in fair value of investments	Ψ	1,426,526	Ψ	2,356,809	Ψ	3,396,504	Ψ	(604,855)	Ψ	683,609
Interest, dividends and other income		929,699		921,416		862,083		821,724		686,314
Expenses		(106,866)		(99,784)		(106,294)		(101,614)		(121,765)
Net securities lending income		2,744		2,993		3,026		3,848		(121,765)
Net change in net position		2,7		2,770		5,020		2,0.0		
resulting from unit transactions		(500,000)		(1,200,000)		-		(2,000,000)		_
Net position end of year	\$	41,841,987	\$	40,089,884	\$	38,108,450	\$	33,953,131	\$	35,834,028
City of Grand Forks Pension Plan	Φ.	62 622 640	Φ.	<2.24E.014	ф	55 022 050	ф	50 1 15 201	Φ.	55 005 5 <b>3</b> 5
Net position beginning of year	\$	63,623,648	\$	63,347,814	\$	57,923,958	\$	59,147,291	\$	57,805,527
Net change in fair value of investments		2,413,739		4,557,454		5,945,750		(1,154,709)		1,108,806
Interest, dividends and other income		1,463,331		1,398,714		1,342,535		1,271,401		1,076,573
Expenses		(160,844)		(137,236)		(160,995)		(158,797)		(187,677)
Net securities lending income		4,958		4,991		5,157		6,461		-
Net change in net position resulting from unit transactions		1 055 057		(F F 10 000)		(1.709.501)		(1.107.600)		((55,029)
Net position end of year	\$	1,055,057 68,399,889	\$	(5,548,089) 63,623,648	\$	(1,708,591) 63,347,814	\$	(1,187,689) 57,923,958	\$	(655,938) 59,147,291
Net position end of year	Þ	00,399,009	φ	03,023,048	ф	03,347,614	ф	31,923,936	Ф	39,147,291
Grand Forks Park District Pension P	lan									
Net position beginning of year	\$	6,773,249	\$	6,156,995	\$	5,715,936	\$	6,027,469	\$	5,930,656
Net change in fair value of investments		258,536		461,549		611,751		(86,854)		167,018
Interest, dividends and other income		167,316		123,586		119,884		120,995		100,269
Expenses		(20,402)		(10,205)		(13,430)		(13,850)		(17,396)
Net securities lending income										
		508		368		447		645		-
Net change in net position		508		368		447		645		-
- C	\$	508 (5,537)	\$	368 40,956	\$	(277,593)		(332,469)	\$	(153,078)

### SUMMARY OF OPERATIONS FOR FISCAL YEARS ENDED JUNE 30

### PENSION INVESTMENT POOL (Continued)

		2019		2018		2017		2016		2015
City of Fargo Employee Pension Plan										
Net position beginning of year	\$	-	\$	-	\$	-	\$	1,459	\$	9,653
Net change in fair value of investments		-		-		-		-		-
Interest, dividends and other income		-		-		-		41,431		12
Expenses		-		-		-		(242)		(50)
Net securities lending income		-		-		-		-		-
Net change in net position										
resulting from unit transactions		-		-				(42,648)		(8,156)
Net position end of year	\$	-	\$	-	\$	-	\$	-	\$	1,459
		INSURAN	CE	INVESTM	EN	T POOL				
Workforce Safety & Insurance Fund										
Net position beginning of year *	\$	1,922,758,322	\$	1,893,847,576	\$	1,831,144,126	\$	1,761,372,600	\$	1,703,113,129
Net change in fair value of investments		86,250,882		56,336,181		105,693,277		22,777,732		19,423,177
Interest, dividends and other income		50,611,227		47,422,961		46,210,318		46,504,149		40,772,394
Expenses		(4,018,848)		(4,009,141)		(4,348,175)		(4,681,475)		(4,436,100)
Net securities lending income		116,001		160,745		148,030		171,120		-
Net change in net position		ŕ		ŕ		,		r		
resulting from unit transactions		9,000,000		(71,000,000)		(85,000,000)		5,000,000		2,500,000
Net position end of year	\$	2,064,717,584	\$	1,922,758,322	\$	1,893,847,576	\$	1,831,144,126	\$	1,761,372,600
State Fire & Tornado Fund										
Net position beginning of year *	\$	23,063,239	\$	21,996,785	\$	24,074,271	\$	23,400,586	\$	29,208,127
Net change in fair value of investments	_	871,338	-	706,982	-	1,593,978	-	150,447	-	249,666
Interest, dividends and other income		531,919		488,940		491,258		567,145		513,284
Expenses		(38,158)		(31,810)		(40,086)		(46,813)		(45,491)
Net securities lending income		1,714		2,342		2,364		2,906		-
Net change in net position		,		,		,		,		
resulting from unit transactions		(1,675,000)		(100,000)		(4,125,000)		-		(6,525,000)
Net position end of year	\$	22,755,052	\$	23,063,239	\$	21,996,785	\$	24,074,271	\$	23,400,586
State Bonding Fund										
Net position beginning of year *	\$	3,411,247	\$	3,374,454	\$	3,296,466	\$	3,180,146	\$	3,269,043
Net change in fair value of investments	Ψ	121,242	Ψ	(25,066)	Ψ	30,591	Ψ	68,582	Ψ	(3,765)
Interest, dividends and other income		80,844		65,328		50,948		51,284		43,443
Expenses		(3,563)		(3,577)		(3,615)		(3,614)		(3,575)
Net securities lending income		89		108		64		68		-
Net change in net position		-								
resulting from unit transactions		_		_		_		_		(125,000)
Net position end of year	\$	3,609,859	\$	3,411,247	\$	3,374,454	\$	3,296,466	\$	3,180,146
Petroleum Tank Release Compensation			¢	C 205 91C	¢	7 140 (52	ď	7 171 007	¢	7 002 049
Net position beginning of year * Net change in fair value of investments	\$	6,166,588	\$	6,395,816	\$	7,148,653	\$	7,161,986	\$	7,092,048
9		191,339		(39,367)		53,887		133,864		(10,166)
Interest, dividends and other income		140,430		115,418		99,013		108,926		86,302
Expenses Not securities landing income		(5,201)		(5,463) 184		(5,859)		(6,259)		(6,198)
Net securities lending income Net change in net position		143		184		122		136		-
resulting from unit transactions		(500,000)		(300,000)		(900,000)		(250,000)		_
Net position and of year	\$	5 993 299	•	6 166 588	•	6 305 816	Ф	7 148 653	•	7 161 086

5,993,299

Net position end of year

6,166,588

6,395,816

7,161,986

## SUMMARY OF OPERATIONS FOR FISCAL YEARS ENDED JUNE 30

## **INSURANCE INVESTMENT POOL (Continued)**

		2019		2018		2017		2016		2015
Insurance Regulatory Trust Fund				_		_				
Net position beginning of year * Net change in fair value of investments Interest, dividends and other income Expenses	\$	5,638,435 174,407 81,816 (4,869)	\$	5,288,341 114,512 61,910 (3,107)	\$	1,085,848 109,740 41,650 (4,697)	\$	2,635,975 (14,307) 26,821 (2,768)	\$	1,146,179 (21,102) 13,845 (2,947)
Net securities lending income Net change in net position		224		279		200		127		-
resulting from unit transactions Net position end of year	\$	329,100 6,219,113	\$	176,500 5,638,435	\$	4,055,600 5,288,341	\$	(1,560,000) 1,085,848	\$	1,500,000 2,635,975
<b>F</b>		3,222,222	_	2,000,000	_	2,23,212	_	-,000,010	_	_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Risk Management Fund										
Net position beginning of year *	\$	4,956,766	\$	5,779,115	\$	6,531,063	\$	6,845,712	\$	6,945,451
Net change in fair value of investments		253,740		169,318		371,439		142,283		119,666
Interest, dividends and other income		106,435		114,213		135,891		154,478		142,740
Expenses		(7,629)		(6,357)		(9,781)		(12,010)		(12,145)
Net securities lending income		298		477		503		600		-
Net change in net position										
resulting from unit transactions		(400,000)		(1,100,000)		(1,250,000)		(600,000)		(350,000)
Net position end of year	\$	4,909,610	\$	4,956,766	\$	5,779,115	\$	6,531,063	\$	6,845,712
Risk Management Workers Comp Fu Net position beginning of year * Net change in fair value of investments Interest, dividends and other income Expenses Net securities lending income Net change in net position resulting from unit transactions Net position end of year  Cultural Endowment Fund Net position beginning of year * Net change in fair value of investments Interest, dividends and other income Expenses Net securities lending income Net change in net position resulting from unit transactions	\$ \$	5,357,456 285,789 102,266 (7,707) 316 (550,000) 5,188,120 449,190 16,907 10,871 (1,570) 40	\$ \$	5,532,694 215,550 115,169 (6,488) 531 (500,000) 5,357,456 431,225 26,754 9,983 (1,331) 59 (17,500)	\$ \$	5,512,685 401,369 128,181 (10,079) 538 (500,000) 5,532,694 386,356 40,393 9,403 (1,481) 54 (3,500)	\$ \$	6,221,021 110,474 142,278 (11,724) 636 (950,000) 5,512,685 383,024 59 9,737 (1,525) 61 (5,000)	\$ \$	5,962,912 140,595 129,379 (11,865) - - - - - - - - - - - - - - - - - - -
Net position end of year	\$	475,438	\$	449,190	\$	431,225	\$	386,356	\$	383,024
<b>Budget Stabilization Fund</b>										
Net position beginning of year *	\$	113,551,329	\$	6,105,913	\$	575,715,191	\$	573,636,701	\$	585,977,310
Net change in fair value of investments		2,511,852		(694,082)		(2,161,212)		(2,598,566)		(3,424,930)
Interest, dividends and other income		2,762,013		1,024,321		5,327,628		14,079,730		15,215,741
Expenses		(183,828)		(89,583)		(293,371)		(806,390)		(798,665)
Net securities lending income Net change in net position		6,338		2,005		3,131		9,885		- (22, 222, 777)
resulting from unit transactions		- 110 617 70 1		107,202,755	_	(572,485,454)		(8,606,169)		(23,332,755)
Net position end of year	\$	118,647,704	\$	113,551,329	\$	6,105,913	\$	575,715,191	\$	573,636,701

## SUMMARY OF OPERATIONS FOR FISCAL YEARS ENDED JUNE 30

### **INSURANCE INVESTMENT POOL (Continued)**

		2019		2018		2017		2016		2015
ND Association of Counties Fund										
Net position beginning of year	\$	5,909,536	\$	4,381,695	\$	4,046,185	\$	3,831,089	\$	3,443,524
Net change in fair value of investments		286,310		109,928		254,411		32,045		26,016
Interest, dividends and other income		145,905		126,224		88,365		90,580		68,564
Expenses		(10,924)		(8,864)		(7,656)		(7,974)		(7,015)
Net securities lending income		461		553		390		445		-
Net change in net position										
resulting from unit transactions		-		1,300,000		-		100,000		300,000
Net position end of year	\$	6,331,288	\$	5,909,536	\$	4,381,695	\$	4,046,185	\$	3,831,089
City of Bismarck Deferred Sick Leav	e Fund									
Net position beginning of year	\$	729,656	\$	697,552	\$	641,629	\$	871,405	\$	849,149
Net change in fair value of investments	Ψ	33,901	Ψ	17,889	Ψ	43,207	Ψ	4,725	Ψ	6,205
Interest, dividends and other income		17,687		16,101		14,747		17,577		18,591
Expenses		(2,152)		(1,960)		(2,097)		(2,153)		(2,540)
Net securities lending income		54		74		66		75		(2,540)
Net change in net position		34		7-		00		73		
resulting from unit transactions								(250,000)		
Net position end of year	\$	779,146	\$	729,656	\$	697,552	\$	641,629	\$	871,405
The position end of year	Ψ	777,140	Ψ	727,030	Ψ	071,332	Ψ	041,027	Ψ	071,403
PERS Group Insurance Fund										
Net position beginning of year	\$	31,600,069	\$	37,481,530	\$	37,700,792	\$	39,652,179	\$	37,424,174
Net change in fair value of investments		603,923		(534,557)		(673,576)		208,951		-
Interest, dividends and other income		917,321		856,706		809,996		389,887		4,993
Expenses		(43,655)		(40,622)		(106,491)		(42,532)		(5,336)
Net securities lending income		1,584		1,252		809		185		-
Net change in net position										
resulting from unit transactions		(2,026,000)		(6,164,240)		(250,000)		(2,507,878)		2,228,348
Net position end of year	\$	31,053,242	\$	31,600,069	\$	37,481,530	\$	37,700,792	\$	39,652,179
City of Fargo FargoDome Permanen	t Fund									
Net position beginning of year	\$	44,624,198	\$	41,608,846	\$	38,746,191	\$	40,968,808	\$	41,747,304
Net change in fair value of investments		1,219,139		2,364,132		3,624,439		(402,921)		579,771
Interest, dividends and other income		1,034,503		937,419		814,008		970,497		840,686
Expenses		(88,641)		(72,390)		(81,422)		(97,132)		(98,953)
Net securities lending income		4,379		6,191		5,630		6,939		-
Net change in net position										
resulting from unit transactions		(1,965,000)		(220,000)		(1,500,000)		(2,700,000)		(2,100,000)
Net position end of year	\$	44,828,578	\$	44,624,198	\$	41,608,846	\$	38,746,191	\$	40,968,808
ND State Board of Medicine										
Net position beginning of year	\$	2,250,449	\$	2,178,536	\$	2,207,217	\$	2,172,692	\$	1,888,805
Net change in fair value of investments	Ф	60,744	φ	23,597	φ	69,279	φ	(13,650)	φ	8,349
Interest, dividends and other income		54,930		50,861		51,834		53,273		50,585
Expenses						(7,288)		(5,270)		(5,047)
-		(4,935)		(4,025)						(3,047)
Net securities lending income		165		1,480		148		172		-
Net change in net position						(140.654)				220,000
resulting from unit transactions	¢	2,361,353	•	2,250,449	•	(142,654)	\$	2,207,217	\$	230,000
Net position end of year	\$	2,301,333	\$	2,230,449	\$	2,178,536	Ф	2,207,217	ф	2,172,692

### SUMMARY OF OPERATIONS FOR FISCAL YEARS ENDED JUNE 30

#### **INSURANCE INVESTMENT POOL (Continued)**

Net position beginning of year   \$ 702,897   \$			2019		2018		2017		2016		2015
Net position beginning of year   \$ 70,2897   \$ 1.0	Lewis & Clark Interpretive Center 1	Endowr	nent				_		_		
Not part   March   M				\$	_	\$	_	\$	_	\$	_
Interest, dividends and other income   17,960   4,667   5   5   5   5   5   5   5   5   5		Ψ		Ψ	(1.265)	Ψ	_	Ψ		Ψ	_
Expenses   1,240   1,240   1,240   1,240   1,240   1,400   1							_				
Net schange in net position resulting from unit transactions   1					· · · · · · · · · · · · · · · · · · ·		_		_		_
Net position end of year   Net position heginning of year *   S.576,084,018   S.4685,637.731   S.3806,541,341   S.325,835,711   S.214,519,737   Net change in fair value of investments   174,927,813   2.233,24,655   3.899,70,910   (31,454,851)   45,818,808   Net change in fair value of investments   174,927,813   2.233,24,655   3.899,70,910   (31,454,851)   45,818,808   Interest, dividends and other income   147,634,462   117,456,240   9.99,37,760   86,798,282   62,243,945   Expenses   (14,40,987)   (10,853,698)   (10,575,051)   (10,160,008)   (8,089,655)   Net securities lending income   616,838   648,338   646,337,310   (10,160,008)   (10,160,008	•		` ' '				-		-		-
Net position end of year   S   S   S   S   S   S   S   S   S			01		22		-		-		-
Net position end of year   S					700 130						
Note		2	751 207	\$		Φ		Φ	-	Φ	-
Legacy Fund           Net position beginning of year *         \$ 5,576,084,018         \$ 4,685,637,321         \$ 3,806,541,341         \$ 3,325,835,711         \$ 2,214,519,573           Net change in fair value of investments         174,927,813         253,324,655         389,970,910         (31,454,851)         45,818,808           Interest, dividends and other income         147,634,462         117,645,40         99,997,700         68,078,282         62,243,945           Net securities lending income         1616,838         648,335         601,637         66,879,828         62,243,945           Net change in net position         237,305,727         529,870,755         399,501,134         434,853,950         1101,343,040           Net position ed of year         \$ 6,122,227,871         \$ 529,870,755         399,501,134         434,853,950         101,134,340,040           PEERS Retiree Health Insurance Credit         Total         \$ 6,122,227,871         \$ 529,870,755         399,501,134         434,853,950         \$ 101,134,340,040           Net position beginning of year         \$ 126,505,792         \$ 116,059,215         \$ 101,564,422         \$ 97,598,008         \$ 90,294,490           Net position beginning of year         \$ 126,505,792         \$ 116,059,215         \$ 10,061,109         (11,81,149         29,6270,223         2	Net position end of year	Ψ	731,277	Ψ	702,877	ψ		Ψ		Ψ	
Net position beginning of year *   \$1,516,084,018   \$1,408,5637,713   \$3,806,541,341   \$3,325,835,711   \$1,215,185,735   \$1,145,185,185,185,185,185,185,185,185,185,18		INI	DIVIDUAL	IN	IVESTMEN	T.	ACCOUNT	S			
Net position beginning of year *   \$1,516,084,018   \$1,408,5637,713   \$3,806,541,341   \$3,325,835,711   \$1,215,185,735   \$1,145,185,185,185,185,185,185,185,185,185,18	Legacy Fund										
Net change in fair value of investments   174,927,813   253,324,655   389,970,910   31,454,851   45,818,808   Interest, dividends and other income   147,634,462   117,456,240   99,597,760   86,798,282   62,243,945   Expenses   (14,340,987)   (10,853,698)   (10,575,051)   (10,160,008)   (8,089,055)   Net securities lending income   616,838   648,335   601,637   668,257   Net echange in net position   resulting from unit transactions   237,305,727   529,870,755   399,501,134   434,853,950   1,011,343,040   Net position end of year   \$6,122,227,871   \$5,576,084,018   \$4,685,637,731   \$3,806,541,341   \$3,325,835,711   \$PERS Retiree Health Insurance Credit Furth   Net position beginning of year   \$1,6505,792   \$116,059,215   \$101,546,422   \$9,7598,008   \$90,294,490   Net change in fair value of investments   5,197,140   5,447,995   10,061,109   (1,185,174   936,842   1nterest, dividends and other income   3,371,362   3,138,168   2,342,444   2,271,408   2,105,154   Expenses   (391,416   (379,586   2445,000   2,245,000   3,155,000   4,543,000   Net position end of year   \$15,685,2378   \$126,505,792   \$116,059,215   \$101,546,422   \$9,7598,008   Net position end of year   \$9,5611,108   \$9,7256,634   \$9,6528,021   \$9,6270,523   \$9,7598,008   Net position end of year   \$9,5611,108   \$9,7256,634   \$9,6528,021   \$9,6270,523   \$9,7598,008   Net position beginning of year   \$9,5611,108   \$9,7256,634   \$9,6528,021   \$9,6270,523   \$9,7598,008   Net position beginning of year   \$9,5611,108   \$9,7256,634   \$9,6528,021   \$9,6270,523   \$9,7598,008   Net change in fair value of investments   3,497,989   483,223   3,337,293   2,352,098   1,818,431   Net position beginning of year   \$9,798,008   \$9,79		\$	5,576,084,018	\$	4,685,637,731	\$	3,806,541,341	\$	3,325,835,711	\$	2,214,519,573
Interest, dividends and other income											
Expenses											
Net ecurities lending income Net change in net position resulting from unit transactions Net position end of year         237,305,727         529,870,755         399,501,134         434,853,950         1,011,343,040           PERS Retiree Health Insurance Credit Fund           Net position beginning of year         \$ 126,505,792         \$ 116,059,215         \$ 101,546,422         97,598,008         \$ 90,294,490           Net change in fair value of investments Interest, dividends and other income Net change in fair value of investments         3,371,362         3,138,168         2,342,444         2,271,408         2,015,154           Expenses         (391,416)         (379,586)         (335,760)         (292,820)         (281,478)           Net securities lending income         1,169,500         2,240,000         2,445,000         3,155,000         4,543,000           Net position end of year         \$ 1,169,500         2,240,000         2,445,000         3,155,000         4,543,000           Net position end of year         \$ 9,5611,108         \$ 97,256,634         \$ 96,280,21         \$ 96,270,523         \$ 97,598,008           Net position beginning of year         \$ 9,5611,108         \$ 97,256,634         \$ 96,280,21         \$ 96,270,523         \$ 97,598,008           Net position beginning of year         \$ 9,5611,108         \$ 97,256,634         \$ 96,270,523											
Net change in net position resulting from unit transactions											-
Pesulting from unit transactions			,		,		,,,,,,		,		
Performance   Section			237,305,727		529,870,755		399,501,134		434,853,950		1,011,343,040
Net position beginning of year   \$ 126,505,792   \$ 116,059,215   \$ 101,546,422   \$ 97,598,008   \$ 90,294,490     Net change in fair value of investments   5,197,140   5,447,995   10,061,109   (1,185,174)   936,842     Interest, dividends and other income   3,371,362   3,138,168   2,342,444   2,271,408   2,105,154     Expenses   (391,416)   (379,586)   (335,760)   (292,820)   (281,478)     Net securities lending income   1,169,500   2,240,000   2,445,000   3,155,000   4,543,000     Net position end of year   \$ 135,852,378   \$ 126,505,792   \$ 116,059,215   \$ 101,546,422   \$ 97,598,008     Net change in nativalue of investments   3,497,989   443,223   3,337,293   2,352,098   1,818,431     Interest, dividends and other income   3,043,292   2,739,029   2,187,163   2,650,945   1,721,361     Expenses   (311,651)   (303,667)   (285,579)   (166,226)   (279,285)     Net change in nat position resulting from unit transactions   (4,645,062)   (4,564,111)   (4,510,264)   (4,582,835)   (4,672,143)     Net position beginning of year   \$ 54,357,675   \$ 95,611,108   \$ 97,256,634   \$ 96,528,021   \$ 96,528,021   \$ 96,270,523     Net position beginning of year   \$ 54,357,675   \$ 95,611,108   \$ 97,256,634   \$ 96,528,021   \$ 96,270,523   \$ 96,270,523     Net position beginning of year   \$ 54,357,675   \$ 57,453,579   \$ 54,359,321   \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ - \$ \$ \$ \$		\$		\$		\$		\$		\$	
Net position beginning of year   \$ 126,505,792   \$ 116,059,215   \$ 101,546,422   \$ 97,598,008   \$ 90,294,490     Net change in fair value of investments   5,197,140   5,447,995   10,061,109   (1,185,174)   936,842     Interest, dividends and other income   3,371,362   3,138,168   2,342,444   2,271,408   2,105,154     Expenses   (391,416)   (379,586)   (335,760)   (292,820)   (281,478)     Net securities lending income   1,169,500   2,240,000   2,445,000   3,155,000   4,543,000     Net position end of year   \$ 135,852,378   \$ 126,505,792   \$ 116,059,215   \$ 101,546,422   \$ 97,598,008     Net change in nativalue of investments   3,497,989   443,223   3,337,293   2,352,098   1,818,431     Interest, dividends and other income   3,043,292   2,739,029   2,187,163   2,650,945   1,721,361     Expenses   (311,651)   (303,667)   (285,579)   (166,226)   (279,285)     Net change in nat position resulting from unit transactions   (4,645,062)   (4,564,111)   (4,510,264)   (4,582,835)   (4,672,143)     Net position beginning of year   \$ 54,357,675   \$ 95,611,108   \$ 97,256,634   \$ 96,528,021   \$ 96,528,021   \$ 96,270,523     Net position beginning of year   \$ 54,357,675   \$ 95,611,108   \$ 97,256,634   \$ 96,528,021   \$ 96,270,523   \$ 96,270,523     Net position beginning of year   \$ 54,357,675   \$ 57,453,579   \$ 54,359,321   \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ - \$ \$ \$ \$											
Net change in fair value of investments   5,197,140   5,447,995   10,061,109   (1,185,174)   936,842     Interest, dividends and other income   3,371,362   3,138,168   2,342,444   2,271,408   2,105,154     Expenses   (391,416)   (379,586)   (335,760)   (292,820)   (281,478)     Net securities lending income   -											
Interest, dividends and other income   3,371,362   3,138,168   2,342,444   2,271,408   2,105,154     Expenses   (391,416)   (379,586)   (335,760)   (292,820)   (281,478)     Net securities lending income   -   -   -   -   -   -     Net change in net position     resulting from unit transactions   1,169,500   2,240,000   2,445,000   3,155,000   4,543,000     Net position end of year   \$ 135,852,378   \$ 126,505,792   \$ 116,059,215   \$ 101,546,422   \$ 97,598,008      Service North Dakota     Net position beginning of year   \$ 95,611,108   \$ 97,256,634   \$ 96,528,021   \$ 96,270,523   \$ 97,682,159     Net change in fair value of investments   3,497,989   483,223   3,337,293   2,352,098   1,818,431     Interest, dividends and other income   3,043,292   2,739,029   2,187,163   2,650,945   1,721,361     Expenses   (311,651)   (303,667)   (285,579)   (166,226)   (279,285)     Net securities lending income   -   -   -   3,516   -     Net change in net position     resulting from unit transactions   (4,645,062)   (4,564,111)   (4,510,264)   (4,582,835)   (4,672,143)     Net position end of year   \$ 97,195,676   \$ 95,611,108   \$ 97,256,634   \$ 96,528,021   \$ 96,270,523      Tobacco Prevention and Control Fund   Net position beginning of year   \$ 54,357,675   \$ 57,453,579   \$ 54,359,321   \$ -		\$		\$		\$		\$		\$	
Expenses   (391,416)   (379,586)   (335,760)   (292,820)   (281,478)     Net securities lending income	9										
Net securities lending income         -	*										
Net change in net position resulting from unit transactions         1,169,500         2,240,000         2,445,000         3,155,000         4,543,000           Net position end of year         \$ 135,852,378         \$ 126,505,792         \$ 116,059,215         \$ 101,546,422         \$ 97,598,008           Job Service North Dakota           Net position beginning of year         \$ 95,611,108         \$ 97,256,634         \$ 96,528,021         \$ 96,270,523         \$ 97,682,159           Net change in fair value of investments         3,497,989         483,223         3,337,293         2,352,098         1,818,431           Interest, dividends and other income         3,043,292         2,739,029         2,187,163         2,650,945         1,721,361           Expenses         (311,651)         (303,667)         (285,579)         (166,226)         (279,285)           Net securities lending income         -         -         -         -         3,516         -           Net change in net position         (4,645,062)         (4,564,111)         (4,510,264)         (4,582,335)         (4,672,143)           Net position end of year         \$ 97,195,676         \$ 95,611,108         \$ 97,256,634         \$ 96,528,021         \$ 96,270,523           Tobacco Prevention and Control Fund			(391,416)		(379,586)		(335,760)		(292,820)		(281,478)
Resulting from unit transactions   1,169,500   2,240,000   2,445,000   3,155,000   4,543,000			-		-		-		-		-
Net position end of year   \$ 135,852,378   \$ 126,505,792   \$ 116,059,215   \$ 101,546,422   \$ 97,598,008											
Net position beginning of year   \$ 95,611,108   \$ 97,256,634   \$ 96,528,021   \$ 96,270,523   \$ 97,682,159     Net change in fair value of investments   3,497,989   483,223   3,337,293   2,352,098   1,818,431     Interest, dividends and other income   3,043,292   2,739,029   2,187,163   2,650,945   1,721,361     Expenses   (311,651)   (303,667)   (285,579)   (166,226)   (279,285)     Net securities lending income   3,516       Net change in net position   resulting from unit transactions   (4,645,062)   (4,564,111)   (4,510,264)   (4,582,835)   (4,672,143)     Net position end of year   \$ 97,195,676   \$ 95,611,108   \$ 97,256,634   \$ 96,528,021   \$ 96,270,523      Tobacco Prevention and Control Fund   Net position beginning of year   \$ 54,357,675   \$ 57,453,579   \$ 54,359,321   \$ -		Φ.		Φ.		ф		Φ.		Ф	
Net position beginning of year         \$ 95,611,108         \$ 97,256,634         \$ 96,528,021         \$ 96,270,523         \$ 97,682,159           Net change in fair value of investments         3,497,989         483,223         3,337,293         2,352,098         1,818,431           Interest, dividends and other income         3,043,292         2,739,029         2,187,163         2,650,945         1,721,361           Expenses         (311,651)         (303,667)         (285,579)         (166,226)         (279,285)           Net securities lending income         -         -         -         -         3,516         -           Net change in net position         (4,645,062)         (4,564,111)         (4,510,264)         (4,582,835)         (4,672,143)           Net position end of year         \$ 97,195,676         \$ 95,611,108         97,256,634         96,528,021         \$ 96,270,523           Tobacco Prevention and Control Fund           Net position beginning of year         \$ 54,357,675         \$ 57,453,579         \$ 54,359,321         \$ -         \$ -           Net change in fair value of investments         1,117,230         828,375         839,579         840,505         -           Interest, dividends and other income         113,765         102,409         33,094         8,	Net position end of year	\$	135,852,378	<u>\$</u>	126,505,792	\$	116,059,215	\$	101,546,422	\$	97,598,008
Net position beginning of year         \$ 95,611,108         \$ 97,256,634         \$ 96,528,021         \$ 96,270,523         \$ 97,682,159           Net change in fair value of investments         3,497,989         483,223         3,337,293         2,352,098         1,818,431           Interest, dividends and other income         3,043,292         2,739,029         2,187,163         2,650,945         1,721,361           Expenses         (311,651)         (303,667)         (285,579)         (166,226)         (279,285)           Net securities lending income         -         -         -         -         3,516         -           Net change in net position         (4,645,062)         (4,564,111)         (4,510,264)         (4,582,835)         (4,672,143)           Net position end of year         \$ 97,195,676         \$ 95,611,108         97,256,634         96,528,021         \$ 96,270,523           Tobacco Prevention and Control Fund           Net position beginning of year         \$ 54,357,675         \$ 57,453,579         \$ 54,359,321         \$ -         \$ -           Net change in fair value of investments         1,117,230         828,375         839,579         840,505         -           Interest, dividends and other income         113,765         102,409         33,094         8,	Joh Service North Dakota										
Net change in fair value of investments         3,497,989         483,223         3,337,293         2,352,098         1,818,431           Interest, dividends and other income         3,043,292         2,739,029         2,187,163         2,650,945         1,721,361           Expenses         (311,651)         (303,667)         (285,579)         (166,226)         (279,285)           Net securities lending income         -         -         -         3,516         -           Net change in net position         (4,645,062)         (4,564,111)         (4,510,264)         (4,582,835)         (4,672,143)           Net position end of year         \$ 97,195,676         \$ 95,611,108         \$ 97,256,634         \$ 96,528,021         \$ 96,270,523           Tobacco Prevention and Control Fund           Net position beginning of year         \$ 54,357,675         \$ 57,453,579         \$ 54,359,321         \$ -         \$ -           Net change in fair value of investments         1,117,230         828,375         839,579         840,505         -           Interest, dividends and other income         113,765         102,409         33,094         8,255         -           Expenses         (16,826)         (26,688)         (28,415)         (20,328)         -           Net s		\$	95.611.108	\$	97.256.634	\$	96.528.021	\$	96.270.523	\$	97.682.159
Interest, dividends and other income         3,043,292         2,739,029         2,187,163         2,650,945         1,721,361           Expenses         (311,651)         (303,667)         (285,579)         (166,226)         (279,285)           Net securities lending income         -         -         -         -         3,516         -           Net change in net position resulting from unit transactions         (4,645,062)         (4,564,111)         (4,510,264)         (4,582,835)         (4,672,143)           Net position end of year         \$ 97,195,676         \$ 95,611,108         \$ 97,256,634         \$ 96,528,021         \$ 96,270,523           Tobacco Prevention and Control Fund           Net position beginning of year         \$ 54,357,675         \$ 57,453,579         \$ 54,359,321         \$ -         \$ -           Net change in fair value of investments         1,117,230         828,375         839,579         840,505         -           Interest, dividends and other income         113,765         102,409         33,094         8,255         -           Expenses         (16,826)         (26,688)         (28,415)         (20,328)         -           Net securities lending income         -         -         -         -         -         -         -		Ψ		Ψ		Ψ		Ψ		Ψ	
Expenses   (311,651)   (303,667)   (285,579)   (166,226)   (279,285)					, -						
Net securities lending income         -         -         -         3,516         -           Net change in net position resulting from unit transactions         (4,645,062)         (4,564,111)         (4,510,264)         (4,582,835)         (4,672,143)           Net position end of year         \$ 97,195,676         \$ 95,611,108         \$ 97,256,634         \$ 96,528,021         \$ 96,270,523           Tobacco Prevention and Control Fund           Net position beginning of year         \$ 54,357,675         \$ 57,453,579         \$ 54,359,321         \$ -         \$ -           Net change in fair value of investments         1,117,230         828,375         839,579         840,505         -           Interest, dividends and other income         113,765         102,409         33,094         8,255         -           Expenses         (16,826)         (26,688)         (28,415)         (20,328)         -           Net securities lending income         -         -         -         -         -         -           Net change in net position         -         -         -         -         -         -         -         -           resulting from unit transactions         (46,280,000)         (4,000,000)         2,250,000         53,530,889         -	*										
Net change in net position resulting from unit transactions         (4,645,062)         (4,564,111)         (4,510,264)         (4,582,835)         (4,672,143)           Net position end of year         \$ 97,195,676         \$ 95,611,108         \$ 97,256,634         \$ 96,528,021         \$ 96,270,523           Tobacco Prevention and Control Fund           Net position beginning of year         \$ 54,357,675         \$ 57,453,579         \$ 54,359,321         \$ -         \$ -           Net change in fair value of investments         1,117,230         828,375         839,579         840,505         -           Interest, dividends and other income         113,765         102,409         33,094         8,255         -           Expenses         (16,826)         (26,688)         (28,415)         (20,328)         -           Net securities lending income         -         -         -         -         -         -           Net change in net position         -         -         -         -         -         -         -         -           resulting from unit transactions         (46,280,000)         (4,000,000)         2,250,000         53,530,889         -	-		-		-		-				-
resulting from unit transactions         (4,645,062)         (4,564,111)         (4,510,264)         (4,582,835)         (4,672,143)           Net position end of year         \$ 97,195,676         \$ 95,611,108         \$ 97,256,634         \$ 96,528,021         \$ 96,270,523           Tobacco Prevention and Control Fund           Net position beginning of year         \$ 54,357,675         \$ 57,453,579         \$ 54,359,321         \$ -         \$ -           Net change in fair value of investments         1,117,230         828,375         839,579         840,505         -           Interest, dividends and other income         113,765         102,409         33,094         8,255         -           Expenses         (16,826)         (26,688)         (28,415)         (20,328)         -           Net securities lending income         -         -         -         -         -         -           Net change in net position         -         -         -         -         -         -         -           resulting from unit transactions         (46,280,000)         (4,000,000)         2,250,000         53,530,889         -									2,220		
Net position end of year         \$ 97,195,676         \$ 95,611,108         \$ 97,256,634         \$ 96,528,021         \$ 96,270,523           Tobacco Prevention and Control Fund           Net position beginning of year         \$ 54,357,675         \$ 57,453,579         \$ 54,359,321         \$ -         \$ -           Net change in fair value of investments         1,117,230         828,375         839,579         840,505         -           Interest, dividends and other income         113,765         102,409         33,094         8,255         -           Expenses         (16,826)         (26,688)         (28,415)         (20,328)         -           Net securities lending income         -         -         -         -         -         -         -           Net change in net position         -         -         -         -         -         -         -         -         -           resulting from unit transactions         (46,280,000)         (4,000,000)         2,250,000         53,530,889         -			(4.645,062)		(4.564.111)		(4.510.264)		(4.582.835)		(4.672.143)
Net position beginning of year         \$ 54,357,675         \$ 57,453,579         \$ 54,359,321         \$ -         \$ -           Net change in fair value of investments         1,117,230         828,375         839,579         840,505         -           Interest, dividends and other income         113,765         102,409         33,094         8,255         -           Expenses         (16,826)         (26,688)         (28,415)         (20,328)         -           Net securities lending income         -         -         -         -         -         -           Net change in net position         -         (46,280,000)         (4,000,000)         2,250,000         53,530,889         -		\$		\$		\$		\$		\$	
Net position beginning of year         \$ 54,357,675         \$ 57,453,579         \$ 54,359,321         \$ -         \$ -           Net change in fair value of investments         1,117,230         828,375         839,579         840,505         -           Interest, dividends and other income         113,765         102,409         33,094         8,255         -           Expenses         (16,826)         (26,688)         (28,415)         (20,328)         -           Net securities lending income         -         -         -         -         -         -           Net change in net position         -         (46,280,000)         (4,000,000)         2,250,000         53,530,889         -											
Net change in fair value of investments       1,117,230       828,375       839,579       840,505       -         Interest, dividends and other income       113,765       102,409       33,094       8,255       -         Expenses       (16,826)       (26,688)       (28,415)       (20,328)       -         Net securities lending income       -       -       -       -       -         Net change in net position       -       -       -       -       -       -         resulting from unit transactions       (46,280,000)       (4,000,000)       2,250,000       53,530,889       -	<b>Tobacco Prevention and Control Fu</b>	nd									
Interest, dividends and other income         113,765         102,409         33,094         8,255         -           Expenses         (16,826)         (26,688)         (28,415)         (20,328)         -           Net securities lending income         -         -         -         -         -         -           Net change in net position resulting from unit transactions         (46,280,000)         (4,000,000)         2,250,000         53,530,889         -	Net position beginning of year	\$	54,357,675	\$	57,453,579	\$	54,359,321	\$	-	\$	-
Interest, dividends and other income         113,765         102,409         33,094         8,255         -           Expenses         (16,826)         (26,688)         (28,415)         (20,328)         -           Net securities lending income         -         -         -         -         -         -           Net change in net position resulting from unit transactions         (46,280,000)         (4,000,000)         2,250,000         53,530,889         -									840,505		-
Net securities lending income  Net change in net position resulting from unit transactions  (46,280,000) (4,000,000) 2,250,000 53,530,889 -									8,255		-
Net securities lending income       - <t< td=""><td>Expenses</td><td></td><td>(16,826)</td><td></td><td>(26,688)</td><td></td><td>(28,415)</td><td></td><td>(20,328)</td><td></td><td>-</td></t<>	Expenses		(16,826)		(26,688)		(28,415)		(20,328)		-
resulting from unit transactions (46,280,000) (4,000,000) 2,250,000 53,530,889 -	Net securities lending income		-		-		- ·		-		-
Net position end of year \$ 9,291,844 \$ 54,357,675 \$ 57,453,579 \$ 54,359,321 \$ -											-
	Net position end of year	\$	9,291,844	\$	54,357,675	\$	57,453,579	\$	54,359,321	\$	_

<sup>\*</sup> Restated for FY15 due to prior period adjustment. Legacy Fund was part of the Insurance Investment Pool until near the end of FY2015. Job Service North Dakota was part of the Pension Investment Pool until mid-FY2016.