



Comprehensive Annual Financial Report

For the Fiscal Years Ended June 30, 2020 & 2019

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
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www.rio.nd.gov

For the Fiscal Years Ended June 30, 2020 and 2019

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, 2020

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, 2020, 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 11,347 members from 213 employer groups and pays benefits to 9,036 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 \$16.3 billion in assets for seven pension funds and 20 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, 2020:

Page 2

	Fair Value in millions	% Of Pool	FY2020 Return		Fair Value in millions	% Of Pool	FY2020 Return
PENSION POOL PARTICIPANTS				INSURANCE POOL PARTICIPANTS			
Teachers' Fund for Retirement	\$2,612.72	43.2%	3.45%	Workforce Safety & Insurance Fund	\$2,125.88	71.1%	6.00%
Public Employees Retirement System	3,212.11	53.1%	3.41%	State Fire and Tornado Fund	22.83	0.8%	4.97%
Bismarck City Employee Pension Fund	106.95	1.8%	3.75%	State Bonding Fund	3.79	0.1%	4.95%
Bismarck City Police Pension Fund	42.55	0.7%	3.41%	Petroleum Tank Release Compensation Fund	6.17	0.2%	4.55%
City of Grand Forks Pension Fund	67.46	1.1%	4.02%	Insurance Regulatory Trust Fund	5.71	0.2%	6.11%
Grand Forks Park District Pension Fund	7.41	0.1%	3.78%	State Risk Management Fund	4.56	0.2%	5.88%
Subtotal Pension Pool Participants	\$6,049.19	100.0%		State Risk Management Workers Comp	5.12	0.2%	5.73%
				Cultural Endowment Fund	0.49	0.0%	3.91%
				Budget Stabilization Fund	727.28	24.3%	2.35%
INDIVIDUAL INVESTMENT ACCOUNTS				ND Assoc. of Counties (NDACo) Fund	6.69	0.2%	5.67%
Legacy Fund	\$6,999.78		4.23%	City of Bismarck Deferred Sick Leave	0.77	0.0%	5.43%
Retiree Health Insurance Credit Fund	144.24		4.98%	PERS Group Insurance	31.50	1.1%	2.35%
Job Service of North Dakota	95.34		2.82%	State Board of Medical Examiners	2.47	0.1%	5.54%
Tobacco Prevention and Control Trust Fund	7.59		3.69%	City of Fargo FargoDome Permanent Fund	43.55	1.5%	3.78%
				Lewis & Clark Interpretive Center Endowment	0.79	0.0%	5.70%
				Attorney General Settlement Fund	1.06	0.0%	*
				Veterans' Cemetery Trust Fund	0.31	0.0%	*
				Subtotal Insurance Pool Participants	2,988.97	100.0%	
TO TAL ASSETS UNDER MANAGEMENT					\$16,285.11		
Columns may not foot due to rounding.							

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 City of 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 Compensation 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.
- The Attorney General Settlement Fund was added in September 2019.
- The Veterans' Cemetery Trust Fund rejoined the pool in March, 2020. The fund had been a previous member of the pool from August 1997 until August 2007.

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 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 & HIGHLIGHTS

The global pandemic affected the way RIO conducted business during the latter half of the fiscal year, by requiring staff to quickly transition paper heavy processes and communication efforts to a digital format while adjusting to a new "hybrid" work environment. Despite this the boards and staff were still able to accomplish many important initiatives during the year.

TFFR Retirement Program

- After more than 32 years of dedicated service with RIO/TFFR, 21 of those years as Deputy Executive
 Director/Chief Retirement Officer, Fay Kopp retired effective April 30, 2020. The staff and boards of RIO
 express their sincere gratitude to Fay for all of her contributions to the agency and TFFR program. We wish
 her the best in her retirement years. Janilyn Murtha, former fund counsel, filled this position effective June
 1, 2020.
- Work began on the TFFR Pension Administration System (PAS) project that received legislative approval in the 2019 session. The project goal is to upgrade or replace TFFR's current pension administration software and processes to a more technologically advanced and secure web based system and improve member and employer interaction with the plan. The new system is expected to provide improved functionality for members, employers and staff by transforming TFFR pension administration processes, reporting capabilities, communications, and services. A project charter was developed and an RFP was put out for bids for a project management consultant for the project. As of June 30, 2020, final contract negotiations were in progress with the successful consultant bidder.
- Work continued on the TFFR Plan Management Policy which serves 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. The TFFR Board approved the Plan Management Policy in September, 2019.

- Developed and adopted new mission and vision statements and core values for the TFFR Board.
- Conducted an Experience Study for the period July 1, 2014-June 30, 2019, resulting in changes to
 assumptions regarding inflation rate, expected return, payroll growth and mortality which are detailed in the
 Financial and Actuarial Sections of this report.
- Governor Burgum re-appointed Dr. Rob Lech to represent school administrators on the TFFR Board from July 1, 2020 to June 30, 2025.

SIB Investment Program

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

Initiatives completed by the SIB during the year included:

- Expanded existing investment relationships in the private credit, private equity and private infrastructure sectors by committing \$375 million of new capital with four 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.
- Expanded our Legacy Fund in-state investment program commitment (Match Loan Program) by 50% to \$300
 million to support future anticipated growth in this economic development program administered by the Bank
 of North Dakota.
- 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.
- Obtained board approval to add two new U.S. small cap equity managers and one new opportunistic credit
 manager to enhance risk adjusted returns while improving downside risk performance. All will be funded
 during the next fiscal year.
- Maintained 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, 2019. This was the twenty-second 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 received the 2020 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.

TFFR also received the 2019 Certificate of Transparency, awarded by the National Council on Public Employee Retirement Systems (NCPERS) for participation in the 2019 NCPERS Public Retirement Systems Study.

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, 2020.

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

Pension Trust Fund (TFFR)	1	6/30/2020 6/30/2019 (in millions) (in millions)		Incr/(Decr) \$ (in millions)	Incr((llecr) %	
Additions		\$ 267	\$	309	\$ (42	-13.5%
Deductions		233		223	9	4.2%
Net Change		\$ 34	\$	86	\$ (51	-59.8%

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

Investment Trust Funds	6/30/2020 6/30/2019 (in millions) (in millions)		` /		Incr/(Decr) %	
Additions	\$ 1,984	\$	1,636	\$	349	21.3%
De ductions	378		836	\$	(458)	-54.8%
Net Change	\$ 1,606	\$	800	\$	806	100.8%

In the investment trust funds, additions increased as new deposits outpaced the weaker financial markets. Deductions decreased due to the first biennial Legacy Fund earnings transfer to the State's General Fund at the end of the previous 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, 2020, 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 (23 years remaining as of July 1, 2020). For this calculation, payroll is assumed to increase 3.25% per year. As of July 1, 2020, the ADC is 13.19%, compared to 12.84% last year. This is greater than the 12.75% rate currently required by law. The increase in ADC is driven by unfavorable investment experience and the change in the investment return assumption from 7.75% to 7.25%, partially offset by the changes in various demographic assumptions.

The funded ratio (the ratio of the actuarial value of assets to the actuarial accrued liability) decreased from last year. The funded ratio at July 1, 2020, was 65.7%, compared to 66.0% as of July 1, 2019. Based on the market values rather than actuarial values of assets, the funded ratio decreased to 63.4% compared to 65.5% last year.

The plan has a net investment loss of \$94.5 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 2019 and FY2020 offset by market gains in FY2017 and FY2018. As these losses are recognized over the next four years, the funded ratio is expected to slightly decrease, assuming the plan's market return on assets meets the 7.25% 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.

	July 1, 2020 (in millions)		• /	
Actuarial Accrued Liability (AAL) Actuarial value of assets (AVA)	\$	4,181.0 2,745.0	\$	3,993.4 2,635.6
Unfunded actuarial accrued liability (UAAL) Funded ratio		1,436.0 65.7%		1,357.8 66.0%

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.

		• .	July 1, 2019 (in millions)		
Total pension liability (TPL) Plan fiduciary net position (FNP) Net pension liability (NPL) Plan FNP as % of TPL	s	4,181.0 2,650.5 1,530.5 63.4%	\$	3,993.4 2,616.2 1,377.3 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.

He K. Muntha Connie & Harring

Respectfully yours,

DAVID HUNTER Executive Director/ Chief Investment Officer JANILYN MURTHA, J.D., SHRM-SCP Deputy Executive Director/ Chief Retirement Officer CONNIE L. FLANAGAN Chief Financial Officer

NORTH DAKOTA RETIREMENT AND INVESTMENT OFFICE As of June 30, 2020

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 HunterExecutive Director/
Chief Investment Officer



Janilyn Murtha, J.D., SHRM-SCP
Deputy Executive Director/
Chief Retirement Officer



Darren Schulz, CFA, CAIA

Deputy Chief

Investment Officer

Supervisory Staff

Connie L. Flanagan
Fiscal & Investment Operations

Denise WeeksTFFR Retirement Services
& Public Information

Sara Sauter Internal Audit

Bonnie Heit *Administrative Services*

Richard Nagel *Information Services*

NORTH DAKOTA STATE INVESTMENT BOARD Board Members as of June 30, 2020

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



Troy SeibelPERS Trustee
Parliamentarian



Kelly Schmidt State Treasurer



Jon Godfread State Insurance Commissioner



Bryan KlipfelWorkforce 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



Keith Kempenich Legacy & Budget Stabilization Fund Advisory Board

NORTH DAKOTA TEACHERS' FUND FOR RETIREMENT Board of Trustees as of June 30, 2020

Retirement Program

Our Mission

To administer a comprehensive retirement program that provides North Dakota public educators with a foundation for retirement security.

Our Vision

To be a trusted leader in the administration of a financially sound retirement program for North Dakota educators by providing exceptional customer service, professional plan management and organizational effectiveness by adhering to the principles of good governance, transparency and accountability.

Our Core Values

Customer Satisfaction and Commitment to Excellence which is demonstrated by our trustworthiness, accountability and respectfulness.

Strong Governance and Operational Effectiveness through our strategic leadership, fiduciary responsibility, ethical practices and transparency.



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



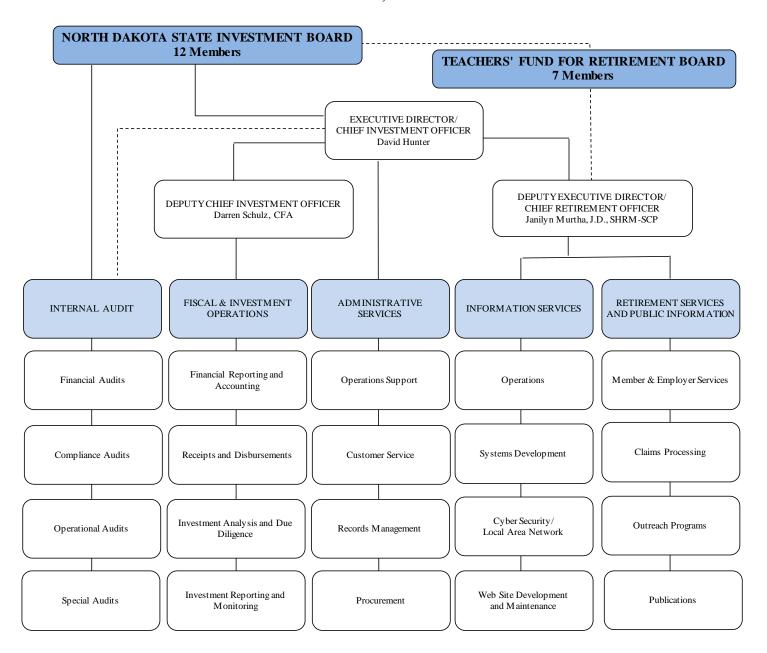
Kelly Schmidt
State Treasurer



Kirsten Baesler State Superintendent of Public Instruction

NORTH DAKOTA RETIREMENT AND INVESTMENT OFFICE

ADMINISTRATIVE ORGANIZATION JUNE 30, 2020



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, 2020

Actuary

Segal Consulting Chicago, Illinois

Auditor

CliftonLarsonAllen LLP Baltimore, Maryland

Legal Counsel

North Dakota Attorney General's

Office

Bismarck, North Dakota

Jackson Walker LLP

Dallas, Texas

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, California

Master Custodian

The Northern Trust Company

Chicago, Illinois

Investment Consultant and Performance Measurement

Callan, LLC

San Francisco, 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

Bank of North Dakota

Bismarck, North Dakota

Barings

Charlotte, North Carolina

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

Goldman Sachs Asset Management

New York, New York

Grosvenor Capital Management

New York, New York

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

Investment Managers (cont.)

Loomis Sayles & Company

Boston, Massachusetts

Los Angeles Capital Management

Los Angeles, California

LSV Asset Management

Chicago, Illinois

Manulife Asset Management, LLC

McLean, Virginia

Macquarie Infrastructure Partners

New York, New York

Matlin Patterson Global Advisers LLC

New York, New York

Northern Trust Asset Management

Chicago, Illinois

Parametric Portfolio Associates

Minneapolis, Minnesota

PIMCO

Newport Beach, California

Prudential Global Investment Mgmt.

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, 2019

Christopher P. Morrill

Executive Director/CEO



Public Pension Coordinating Council

Recognition Award for Administration 2020

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



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, 2020 and 2019, 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, 2020 and 2019, 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, 2020 and 2019, 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, 2020 and 2019, 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, 2020 and 2019, 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 November 9, 2020, 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 November 9, 2020

Management's Discussion and Analysis June 30, 2020 and 2019

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, 2020 and 2019. 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 26 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 \$1.6 billion (11.2%) and \$885.4 million (6.4%) in FY2020 and FY2019, respectively. Approximately 53% of the FY2020 increase and 62% of the FY2019 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 \$596.6 million and \$692.6 million, and net investment income exceeded \$277 million and \$309 million in FY2020 and FY2019, respectively.

Total additions in the fiduciary funds for FY2020 increased by \$307.0 million (15.8%) and decreased by \$60.1 million (3.0%) in FY2019. Net investment income decreased in both years (by \$158.7 million and \$181.6 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 (although the effects of the global pandemic began to reduce those collections in the last quarter of FY2020). The increase in FY2020 was also due to deposits into the Budget Stabilization Fund that brought that fund back to statutory limits. Total fiduciary fund purchases of units increased \$458.8 million (46.4%) and \$116.6 million (13.4%) in FY2020 and FY2019, respectively.

Deductions in the fiduciary funds decreased by \$448.4 million (42.3%) in FY2020 after increasing by \$511.2 million (93.3%) in FY2019. The majority of the decrease from FY2019 to FY2020 was in redemptions of units, which decreased by \$457.9 million (54.9%) due to the constitutionally mandated earnings transfer from the Legacy Fund to the General Fund in FY2019. 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.

Payments to TFFR members in the form of benefits and refunds increased by \$9.6 million (4.3%) and \$13.2 million (6.4%) in FY2020 and FY2019, 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, 2020 and 2019, the TFFR pension plan had a Net Pension Liability (NPL) of \$1.53 billion and \$1.38 billion, and Plan Fiduciary Net Position as a percent of Total Pension Liability (TPL) of 63.4% and 65.5%, respectively.

Overview of the Financial Statements

This report consists of four parts – management's discussion and analysis (this section), the basic financial statements, required 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

Management's Discussion and Analysis June 30, 2020 and 2019

about our investment trust funds, each of which are added together and presented in single columns in the basic financial statements.

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, 2020 and 2019, were \$16.4 billion and \$15.2 billion, respectively, and were comprised mainly of investments. Total assets increased by \$1.2 billion (7.9%) and \$1.3 billion (9.7%) from each prior year primarily due to on-going deposits to the Legacy Fund and Budget Stabilization Fund.

Total liabilities as of June 30, 2020 and 2019, were \$72.6 million and \$511.3 million. Over 90% of the liabilities (\$455.3 million) as of June 30, 2019, were the Legacy Fund's earnings that were due to be transferred to the General Fund at the end of the biennium. Current year-end liabilities were comprised mainly of the securities lending collateral payable.

RIO's fiduciary fund total net position was \$ 16.3 billion and \$14.7 billion at the close of fiscal years 2020 and 2019, respectively.

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

	2020	2019	Total % Change
Assets			
Investments	\$ 16,220.7	\$ 15,028.7	7.9%
Securities Lending Collateral	58.8	46.3	27.1%
Receivables	85.3	87.7	-2.7%
Cash & Other	21.4	20.5	4.1%
Total Assets	16,386.2	15,183.2	7.9%
Deferred Outflows of Resources Deferred outflows related to pensions	0.9	1.2	-23.7%
Liabilities			
Obligations under Securities Lending	58.8	46.3	27.1%
Accounts Payable & Accrued Expenses	13.8	465.0	-97.0%
Total Liabilities	72.6	511.3	-85.8%
Deferred Inflows of Resources			
Deferred inflows related to pensions	0.9	0.2	448.2%
Total Net Position	\$ 16,313.6	\$ 14,672.9	11.2%

North Dakota Retirement and Investment Office Management's Discussion and Analysis June 30, 2020 and 2019

	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	. <u> </u>	20.9	-1.6%
Total Assets	15,183.2		13,840.9	9.7%
Deferred Outflows of Resources Deferred outflows related to pensions Liabilities	 1.2		1.4	-12.9%
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 Changes in Net Position – Fiduciary Funds (In Millions)

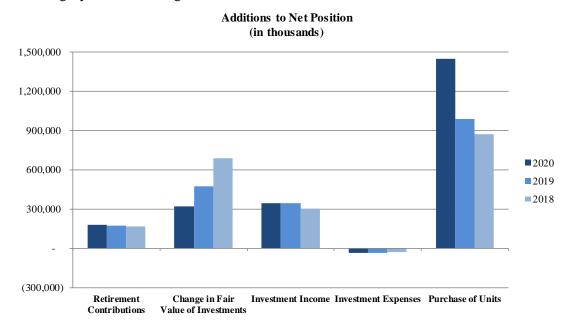
	2020		2019	Total % Change
Additions				
Contributions	\$	181.1	\$ 173.9	4.1%
Net Investment Income		622.9	781.6	-20.3%
Net Securities Lending Income		0.9	1.2	-20.2%
Purchase of Units		1,446.6	 987.8	46.4%
Total Additions		2,251.5	1,944.5	15.8%
Deductions				
Payments to TFFR members		230.8	221.2	4.3%
Administrative Expenses		3.9	4.0	-3.8%
Redemption of Units		376.1	 833.9	-54.9%
Total Deductions		610.8	 1,059.2	-42.3%
Total Change in Net Position	\$	1,640.7	\$ 885.4	85.3%

Management's Discussion and Analysis June 30, 2020 and 2019

	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%		
Total Additions		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%		
Total Deductions		1,059.2		548.0	93.3%		
Total Change in Net Position	\$	885.4	\$	1,456.7	-39.2%		

Statement of Changes in Net Position - Additions

Contributions collected by the pension trust fund increased by \$7.2 million (4.1%) in FY2020 and \$5.0 million (3.0%) in FY2019 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 \$158.9 million (20.3%) and \$181.7 million (18.9%) in FY2020 and FY2019, respectively. This was the result of weaker financial markets in both years compared to FY2018. Deposits of funds into the investment trust fund (purchase of units) continue to increase year-over-year, from \$871.3 million in FY2018 to \$1.4 billion in FY2020, mainly due to increased deposits to the Legacy Fund and Budget Stabilization Fund.



Statement of Changes in Net Position – Deductions

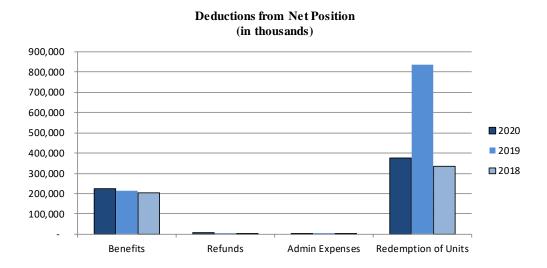
Benefits paid to TFFR plan participants, including partial lump-sum distributions, increased by \$9.0 million (4.2%) and \$13.2 million (6.4%) in FY2020 and FY2019, respectively. The increases are due to an increase in

Management's Discussion and Analysis June 30, 2020 and 2019

the total number of retirees in the plan as well as an increased retirement salary on which the benefits are based. Refunds increased by over \$589,000 (10.0%) and nearly \$339,000 (6.1%) in fiscal years 2020 and 2019, respectively.

Administrative expenses decreased in fiscal year 2020 by nearly \$154,000 after increasing by nearly \$233,000 in fiscal year 2019. Much of the decrease in FY2020 was related to the global pandemic that caused a halt in travel for staff and board member education and due diligence on-site visits, which were replaced with virtual on-line conferences and manager meetings. The increase in FY2019 was mainly due to an increase in IT contractual services, including the payment of the biennial retirement administration software maintenance fee as well as an increase in pension expense due to RIO's participation in the NDPERS pension plan.

The redemption of units in the investment trust funds decreased by \$457.9 million in FY2020 after increasing by \$497.8 million in FY2019 due mainly to the first biennial earnings transfer from the Legacy Fund that occurred at the end of FY2019.



Conclusion

For the fiscal year ended June 30, 2020, the pension investment pool and the TFFR pension plan generated net time weighted returns of over 3.4%, exceeding their respective policy benchmarks. The Legacy Fund and insurance investment pool achieved higher absolute returns of 4.2% and 5%, respectively, but trailed policy benchmarks this past year. Investment returns were below long-term expectations in fiscal 2020 largely due to the impact of the global pandemic in the first quarter. Investment performance in the first half of fiscal 2020 benefited from continuing favorable US income tax policy which bolstered revenues, margins and capital spending. Despite a very sharp and severe market decline in the first calendar quarter of 2020, the markets materially recovered in the second quarter to push returns into positive territory for the fiscal year ended June 30, 2020. Public equity returns were mixed as US equities earned over 8%, while international equities were flat and global equities were down over 7% within the pension pool. Fixed income results were strong, but mixed, as US investment grade debt earned over 9%, while non-investment grade debt earned less than 1% in FY20 within the pension pool. Real asset performance was also mixed with above benchmark returns for timber (up 6%) and infrastructure (up 4%), while real estate posted a 2.2% return, which trailed policy benchmarks within the pension pool last year. Private equity returns were disappointing within the pension pool earning slightly over 3% for the 1-year ended June 30, 2020, largely due to poor results in liquidating strategies, but trending favorably in recent years with our two long-term strategic partners.

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%, respectively, trailing their

Management's Discussion and Analysis June 30, 2020 and 2019

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

While cumulative returns in the post-credit crisis era remained fairly strong, albeit weakening in the past year primarily due to the impact of the global pandemic, 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 particularly as the world continues to battle the immediate and potential long-term impact of the global pandemic on most sectors and industries. Second, the ever-growing debt burden from unprecedented monetary and fiscal policy intervention will likely serve to dampen future long-term economic growth potential in nearly all economies. Finally, the evolving uncertainty of global trade relations and policies between the US 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 2011 and approved legislation to increase contributions (4% member and 4% employer) and modify certain benefits for nongrandfathered 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 decreased from 66.0% to 65.7% on an actuarial basis (and on a market basis from 65.5% to 63.4%) from July 1, 2019 to July 1, 2020. 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 7.25% investment return assumption.

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, 2020 and 2019

	Pension	n Trust	Investmen	nt Trust	Tot	otal	
	2020	2019	2020	2019	2020	2019	
Assets:							
Investments, at fair value							
•	\$ 1,500,306,819	1,495,354,621 \$	6,047,922,687 \$	5,758,237,240 \$	7,548,229,506 \$	7,253,591,861	
Global fixed income	609,737,594	575,551,625	5,437,603,865	4,510,779,742	6,047,341,459	5,086,331,367	
Global real assets	466,252,190	455,163,805	1,989,786,268	1,889,505,508	2,456,038,458	2,344,669,313	
Cash equivalents	23,710,131	35,025,659	145,396,714	309,039,173	169,106,845	344,064,832	
Total investments	2,600,006,734	2,561,095,710	13,620,709,534	12,467,561,663	16,220,716,268	15,028,657,373	
Invested securities lending collateral	7,594,167	8,495,437	51,197,270	37,770,485	58,791,437	46,265,922	
Receivables:							
Investment income	12,709,777	12,526,857	51,681,680	50,051,024	64,391,457	62,577,881	
Contributions	20,919,360	25,070,538	-	-	20,919,360	25,070,538	
Miscellaneous	5,683	6,394	24,662	26,379	30,345	32,773	
Total receivables	33,634,820	37,603,789	51,706,342	50,077,403	85,341,162	87,681,192	
Due from other state agency	-	-	-	-	-	-	
Cash and cash equivalents	21,060,210	20,305,041	353,025	257,511	21,413,235	20,562,552	
Equipment & Software (net of depr)	3,149	4,949	<u> </u>		3,149	4,949	
Total assets	2,662,299,080	2,627,504,926	13,723,966,171	12,555,667,062	16,386,265,251	15,183,171,988	
Deferred outflows of resources							
Related to pensions	549,008	709,618	352,915	472,668	901,923	1,182,286	
Liabilities:							
Accounts payable	165,186	178,293	261,446	253,814	426,632	432,107	
Investment expenses payable	2,038,386	812,385	8,513,217	4,829,521	10,551,603	5,641,906	
Securities lending collateral	7,594,167	8,495,437	51,197,270	37,770,485	58,791,437	46,265,922	
Accrued expenses	1,973,137	2,445,348	843,730	1,193,588	2,816,867	3,638,936	
Miscellaneous payable	-	-	29,597	32,115	29,597	32,115	
Due to other state funds	_	-	-	455,263,216	-	455,263,216	
Due to other state agencies	7,961	7,954	3,218	1,470	11,179	9,424	
Total liabilities	11,778,837	11,939,417	60,848,478	499,344,209	72,627,315	511,283,626	
Deferred inflows of resources							
Related to pensions	536,950	104,071	403,422	67,473	940,372	171,544	
Fiduciary not position:	_	-	_	_		_	
Fiduciary net position: Restricted for pensions	2,650,532,301	2,616,171,056			2,650,532,301	2,616,171,056	
Held in trust for external investment	2,030,332,301	2,010,171,030	-	-	2,030,332,301	2,010,171,030	
pool participants:			2 422 270 472	2 272 520 507	2 422 270 472	2 272 520 506	
Pension pool	-	-	3,433,370,472	3,373,539,596	3,433,370,472	3,373,539,596	
Insurance pool Held in trust for individual investment	-	-	2,987,425,838	2,318,620,683	2,987,425,838	2,318,620,683	
accounts			7,242,270,876	6,364,567,769	7,242,270,876	6,364,567,769	
Total fiduciary net position	\$ 2,650,532,301	2,616,171,056 \$	13,663,067,186 \$	12,056,728,048 \$	16,313,599,487 \$	14,672,899,104	
Each participant unit is valued at \$1.00 Participant units outstanding			13,663,067,186	12,056,728,048			

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

Statement of Changes in Net Position – Fiduciary Funds Year Ended June 30, 2020 and 2019

	Pension Trust		Investment	t Trust	Total		
	2020	2019	2020	2019	2020	2019	
Additions:							
Contributions:							
Employer contributions	\$ 93,032,453 \$	89,444,881 \$	- \$	- :	\$ 93,032,453 \$	89,444,881	
Member contributions	85,735,134	82,429,594	-	-	85,735,134	82,429,594	
Purchased service credit	2,175,497	1,916,787	-	-	2,175,497	1,916,787	
Interest, penalties and other	158,683	158,713		-	158,683	158,713	
Total contributions	181,101,767	173,949,975			181,101,767	173,949,975	
Investment income:							
Net change in fair							
value of investments	37,928,921	84,701,380	278,642,657	388,737,303	316,571,578	473,438,683	
Interest, dividends and other income	54,664,894	56,434,954	286,561,726	284,507,483	341,226,620	340,942,437	
	92,593,815	141,136,334	565,204,383	673,244,786	657,798,198	814,381,120	
Less investment expenses	6,523,407	6,272,801	28,437,549	26,513,804	34,960,956	32,786,605	
Net investment income	86,070,408	134,863,533	536,766,834	646,730,982	622,837,242	781,594,515	
Securities lending activity:							
Securities lending income	169,620	224,713	988,246	1,226,258	1,157,866	1,450,971	
Less securities lending expenses	(33,911)	(44,927)	(197,478)	(245,058)	(231,389)	(289,985)	
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Net securities lending income	135,709	179,786	790,768	981,200	926,477	1,160,986	
Purchase of units (\$1 per unit)			1,446,622,465	987,842,755	1,446,622,465	987,842,755	
Total additions	267,307,884	308,993,294	1,984,180,067	1,635,554,937	2,251,487,951	1,944,548,231	
Deductions:							
Benefits paid to participants	223,936,233	214,091,045	_	-	223,936,233	214,091,045	
Partial lump-sum distributions	425,297	1,237,129	-	-	425,297	1,237,129	
Refunds	6,489,704	5,900,392	-	-	6,489,704	5,900,392	
Administrative expenses	2,095,405	2,251,083	1,781,619	1,779,837	3,877,024	4,030,920	
Redemption of units (\$1 per unit)	-	-	376,059,310	833,929,970	376,059,310	833,929,970	
Total deductions	232,946,639	223,479,649	377,840,929	835,709,807	610,787,568	1,059,189,456	
Change in fiduciary							
net position	34,361,245	85,513,645	1,606,339,138	799,845,130	1,640,700,383	885,358,775	
Fiduciary net position:							
Beginning of year	2,616,171,056 \$	2,530,657,411 \$	12,056,728,048 \$	11,256,882,918	\$ <u>14,672,899,104</u> \$	13,787,540,329	
End of Year	\$ 2,650,532,301 \$	2,616,171,056 \$	13,663,067,186 \$	12,056,728,048	\$ 16,313,599,487 \$	14,672,899,104	

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

North Dakota Retirement and Investment Office Notes to Combined Financial Statements

June 30, 2020 and 2019

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.

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 the 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. The 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, Attorney General Settlement Fund, Veterans' Cemetery Trust 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 the SIB in individual investment accounts.

RIO has no statutory authority over, nor 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,

North Dakota Retirement and Investment Office Notes to Combined Financial Statements June 30, 2020 and 2019

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 pass-through 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.

Notes to Combined Financial Statements June 30, 2020 and 2019

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

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 US 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-to-date 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

North Dakota Retirement and Investment Office Notes to Combined Financial Statements

June 30, 2020 and 2019

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 ex-dividend 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 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, 2020 and 2019 were deposited in the Bank of North Dakota. At June 30, 2020 and 2019, the carrying amount of TFFR's deposits was \$21,060,210 and \$20,305,041, respectively, and the bank balance was \$21,073,623 and \$20,402,305, 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 \$136,809,065 and \$276,189,990 at June 30, 2020 and 2019, respectively. In addition, these funds carry cash and cash equivalents totaling \$353,025 and \$257,511 at June 30, 2020 and 2019, 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, 2020 and 2019, the following tables show the investments by investment type and maturity (expressed in thousands).

	Total Fair		I	Less than					Mo	ore than 10	
2020	Value			1 Year		1-6 Years		6-10 Years		Years	
Asset Backed Securities	\$	459,221	\$	104	\$	122,916	\$	95,116	\$	241,085	
Bank Loans		898		-		898		-		-	
Collateralized Bonds		2,633		-		-		217		2,416	
Commercial Mortgage-Backed		294,632		2,588		913		1,965		289,166	
Commercial Paper		33,978		33,978		-		-		-	
Corporate Bonds		2,230,382		77,375		1,142,807		519,710		490,490	
Corporate Convertible Bonds		10,197		-		4,534		1,825		3,838	
Government Agencies		38,491		1,918		16,412		14,179		5,982	
Government Bonds		540,285		5,049		225,629		60,235		249,372	
Gov't Mortgage Backed		882,440		6		6,682		40,851		834,901	
Gov't-issued CMB		62,317		-		7,526		36,243		18,548	
Index Linked Government Bonds		585,354		-		268,167		84,069		233,118	
Municipal/Provincial Bonds		46,452		3,299		11,713		5,448		25,992	
Non-Government Backed CMOs		115,408		-		2,745		7,555		105,108	
Short Term Bills and Notes		58,648		58,648		-		=		-	
Funds/Pooled Investments		1,481,985		27,098		1,018,852		184,510		251,525	
Total Debt Securities	\$	6,843,321	\$	210,063	\$	2,829,794	\$	1,051,923	\$	2,751,541	

2019	 Total Fair Value		ess than 1 Year	1-6 Years		6	-10 Years	Mo	ore than 10 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

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 \$24.4 and \$18.8 million at June 30, 2020 and 2019, 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, 2020 and 2019, (expressed in thousands).

						Credi	it Rating*					
2020	Total Fair Value	AAA	AA	A	BBB	BB	В	CCC	CC	С	D	NR
Asset Backed Securities	\$ 459,221	\$ 239,274	\$ 57,836	\$ 41,573	\$ 48,308	\$ 6,957	\$ 1,424	\$ 3,669	\$ 1,707	\$ -	\$ 1,102	\$ 57,371
Bank Loans	898	-	-	-	-	-	130	316	-	-	-	452
Collateralized Bond	2,633	2,633	-	-	-	-	-	-	-	-	-	-
Commercial Mortgage Backed	294,632	222,765	7,606	9,032	5,452	3,243	4,082	1,685	-	-	-	40,767
Commercial Paper	33,978	-	-	-	-	-	-	-	-	-	-	33,978
Corporate Bonds	2,230,382	14,432	102,599	654,018	1,130,019	217,674	74,429	26,995	286	1,105	485	8,340
Corporate Convertible Bonds	10,197	-	-	-	915	2,635	923	2,639	-	-	20	3,065
Gov't Agencies	35,950	9,347	4,653	6,926	13,607	-	-	1,417	-	-	-	-
Gov't Bonds	122,856	2,479	9,698	1,725	56,336	34,417	10,249	-	3,286	-	921	3,745
Gov't Mortgage Backed	723,348	-	710,210	1,023	3,399	-	7,941	-	-	-	-	775
Gov't Issued CMB	46,648	2,044	44,604	-	-	-	-	-	-	-	-	-
Index Linked Government Bonds	-	-	-	-	-	-	-	-	-	-	-	-
Municipal/Provincial Bonds	46,452	2,522	21,104	14,331	4,206	1,866	-	-	481	-	634	1,308
Non-Gov't Backed CMOs	115,408	37,218	4,281	7,884	14,053	1,128	1,446	902	1,168	-	152	47,176
Short Term Bills & Notes	6,098	-	6,098	-	-	-	-	-	-	-	-	-
Funds/Pooled Investments	1,481,985	380,142	247,276	656,131	116,280	18,038	26,709	-	-			37,409
Total Credit Risk of Debt Securities	5,610,686	\$ 912,856	\$ 1,215,965	\$1,392,643	\$ 1,392,575	\$ 285,958	\$ 127,333	\$ 37,623	\$ 6,928	\$ 1,105	\$ 3,314	\$ 234,386
US Gov't & Agencies **	1,232,635											
Total Debt Securities	\$ 6,843,321											

Notes to Combined Financial Statements June 30, 2020 and 2019

						Cr	edit Rating*					
2010	Total Fair				nnn	- P.D.		aaa		-		\m
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											

- * 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, and SLMA.

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, 2020 and 2019, 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 US 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, 2020 and 2019 (expressed in thousands).

Currency	Sho	rt-Term	 Debt	 Equity	Rea	al Estate	 Total
Argentine peso	\$	205	\$ 416	\$ -	\$	-	\$ 621
Australian dollar		(453)	704	63,821		-	64,072
Brazilian real		458	-	3,903		-	4,361
British pound sterling		(25,312)	26,067	237,714		-	238,469
Canadian dollar		(690)	369	37,124		-	36,803
Chinese yuan renminbi		278	-	-		-	278
Colombian peso		452	-	-		-	452
Danish krone		64	-	72,330		-	72,394
Euro		(30,138)	32,755	459,666		613	462,896
Hong Kong dollar		1,038	-	142,692		-	143,730
Hungarian forint		243	-	2,169		-	2,412
Indonesian rupiah		55	-	-		-	55
Japanese yen		2,616	-	288,982		-	291,598
Malaysian ringgit		203	-	-		-	20:
Mexican peso		(24)	-	1,189		-	1,16
New Israeli shekel		-	-	3,463		-	3,46
New Taiwan dollar		23	-	8,138		-	8,16
New Zealand dollar		101	-	17		-	11
Norwegian krone		133	-	8,613		-	8,74
Polish zloty		(47)	-	-		-	(4'
Russian ruble		(52)	-	-		-	(5)
Singapore dollar		276	-	8,120		-	8,39
South African rand		1,098	-	480		-	1,57
South Korean won		-	-	11,816		-	11,81
Swedish krona		37	-	72,201		-	72,23
Swiss franc		1,618	-	148,008		-	149,62
Thai baht		-	-	3,088		-	3,088
International commingled							
funds (various currencies)			-	980,048		35,004	1,015,05
Total international							
investment securities	\$	(47,818)	\$ 60,311	\$ 2,553,582	\$	35,617	\$ 2,601,69

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

Negative amounts represent short positions.

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, 2020 and 2019, 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 \$65.4 and \$17.0 million for fiscal years 2020 and 2019, respectively. At June 30, 2020 and 2019, the SIB investment portfolio had the notional futures balances shown below (expressed in thousands).

<u>Futures</u>		Notiona	ıl Valu	e
	Ju	ne 30, 2020	Jun	e 30, 2019
Cash & Cash Equivalent Derivative Futures				
Long	\$	-	\$	188,152
Short		(258,482)		(657,304)
Equity Derivative Futures				
Long		1,064,665		808,005
Short		-		-
Fixed Income Derivative Futures				
Long		262,374		352,611
Short		(1,703,654)		(141,400)
Total Futures	\$	(635,097)	\$	550,064

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 \$5.3 million and \$3.3 million for fiscal years 2020 and 2019, respectively. At June 30, 2020 and 2019, the SIB investment portfolio had the following option balances (expressed in thousands).

<u>Options</u>		Fair V	alue	
	June 30,	2020	June 30,	2019
Cash & Other Options				
Call	\$	201	\$	(10)
Put		537		1
Fixed Income Options				
Call		(146)		(38)
Put		(70)		(241)
Total Options	\$	522	\$	(288)

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, credit 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 \$(22.5) and \$(18.6) million for fiscal years 2020 and 2019, respectively. The maximum loss that would be recognized at June 30, 2020 and 2019, if all counterparties failed to perform as contracted is \$3.0 million and \$3.0 million, respectively. Swap fair values are determined by a third party pricing source. At June 30, 2020 and 2019, 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.

	N	lotional	Amou	nt			Fair V	<i>V</i> alue			
					Expiration Date	e					
Counterparty/Moody's Rating	June 30	, 2020	June	30, 2019	Range	Ju	ne 30, 2020	Jun	e 30, 2019		
Bank of America/Aa2 (2 contracts)	\$	-	\$	(430)	2021 - 2025	\$	-	\$	(32)		
Bank of America/Aa2 (5 contracts)		(3,730)			2021 - 2025		(71)				
Citibank/A1 (34 contracts)				(2,535)	2019 - 2024				(172)		
Citibank/Aa3 (33 contracts)		3,715			2020 - 2024		(262)				
Citigroup Global Markets/A1 (2 contracts)		(400)			2024		(9)				
Credit Suisse First Boston/A1 (8 contracts)				(43,200)	2022 - 2024				931		
Credit Suisse First Boston/A1 (9 contracts)		(3,675)			2020 - 2024		(114)				
Deutsche Bank/A3 (2 contracts)				2,000	2059				(16)		
Deutsche Bank/A3 (2 contracts)		2,000			2059		(15)				
Goldman Sachs/A3 (4 contracts)				(1,900)	2020 - 2024				(28)		
Goldman Sachs/A3 (4 contracts)		(1,700)			2023 - 2024		(55)				
HSBC Bank/Aa3 (2 contracts)				(1,550)	2019				2		
JP Morgan Chase/Aa2 (2 contracts)				(400)	2019 - 2024				1		
JP Morgan Chase/Aa2 (4 contracts)	(25,515)			2025 - 2029		852				
Morgan Stanley/A3 (2 contracts)				(245)	2024				2		
Morgan Stanley/A3 (5 contracts)		2,555			2024 - 2025		(35)				
Total Credit Default Swaps	\$ ((26,750)	\$	(48,260)		\$	291	\$	688		

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.

		Notional	Amo	unt			Fair V	Value		
					Expiration Date					
Counterparty/Moody's Rating	Jun	e 30, 2020	Jun	e 30, 2019	Range	June 30, 2020		June	2019	
Citigroup Global Markets/A1 (24 contracts)	\$	-	\$	84,455	2020 - 2049	\$	-	\$	(3,427)	
Citigroup Global Markets/A1 (16 contracts)		112,251			2020 - 2050		443			
Credit Suisse First Boston/A1 (39 contracts)				128,462	2019 - 2049				12	
Credit Suisse First Boston/A1 (22 contracts)		185,220			2020 - 2050		714			
JP Morgan Chase/Aa2 (119 contracts)				447,530	2020 - 2048				(14,715)	
JP Morgan Chase/Aa2 (100 contracts)		367,049			2020 - 2045		4,871			
Total Interest Rate Swaps	\$	664,520	\$	660,447		\$	6,028	\$	(18,130)	

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.

		Notional	Amoi	unt		Fair Value					
					Expiration Date						
Counterparty/Moody's Rating	June	June 30, 2020		e 30, 2019	Range	June 30, 2020		June	30, 2019		
Credit Suisse International/A1 (2 contracts) Credit Suisse International/A1 (2 contracts)	\$	- 2,764	\$	4,800	2041 2041	\$	2	\$	(23)		
Total Total Return Swaps	\$	2,764	\$	4,800		\$	2	\$	(23)		

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

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 \$2.4 million and \$1.7 million for fiscal years 2020 and 2019, respectively. At June 30, 2020 and 2019, the SIB's investment portfolio included the currency forwards balances shown below (expressed in thousands).

							Fair V	Value		
Currency		Cost	Pι	ırchases	Sales	6/30/2020		6/	30/2019	
Argentine peso	\$	-	\$	-	\$ -	\$	-	\$	15	
Australian dollar		(722)		-	(722)		(737)		(1,484)	
Brazilian real		2		20	(18)		(2)		(30)	
British pound sterling		(39,156)		4,970	(44,126)		(39,408)		(8,279)	
Canadian dollar		(569)		-	(569)		(579)		(8,491)	
Colombian peso		174		174	-		167		195	
Euro		(59,294)		41,056	(100,350)		(60,502)		(62,411)	
Japanese yen		-		-	-		-		(18,046)	
Mexican peso		-		-	-		-		38	
Russian ruble		(136)		1,216	(1,352)		(52)		-	
United States dollar		99,701		147,137	(47,436)		99,701		97,228	
Total forwards subject to	curr	ency risk				\$	(1,412)	\$	(1,265)	

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, 2020 and 2019, the tables below show the SIB's derivative investments subject to interest rate risk (expressed in thousands).

То	tal												
Noti	onal											Great	er than
Va	lue	3 mor	nths or less	3 to	6 months	6 to	12 months	1-5	years	5-10	years	10 y	ears
\$(1,69	99,762)	\$	(265,954)	\$ (1,175,326)	\$	(86,077)	\$ (1	72,405)	\$	-	\$	-
	(3)		(3)				-				-		-
\$(1,69	99,765)	\$	(265,957)	\$ (1,175,326)	\$	(86,077)	\$ (1	72,405)	\$	-	\$	-
		3 mor	oths or less	3 to	6 months	6to	12 months	1-5	vears	5-10	vears		er than
\$	731	\$	(7)	\$	-	\$	-	\$	-	\$	-	\$	738
	(209)		(209)		-		-		-		-		-
	6,028		7		(2)		472		5,826		250		(525)
	291		-		(3)		-		396		(87)		(15)
	Noti Va \$(1,69 \$(1,69) Tota Va	\$(1,699,765) Total Fair Value \$ 731 (209) 6,028	Notional Value 3 more \$(1,699,762) \$ (3) \$(1,699,765) \$ Total Fair Value 3 more \$ 731 \$ (209) 6,028	Notional Value 3 months or less \$(1,699,762) \$ (265,954) (3) \$(3) \$(1,699,765) \$ (265,957) Total Fair Value 3 months or less \$ 731 \$ (7) (209) (209) 6,028 7	Notional Value 3 months or less 3 to \$(1,699,762) \$ (265,954) \$ ((3) (3) \$ (\$(1,699,765) \$ (265,957) \$ (Total Fair Value 3 months or less 3 to \$ 731 \$ (7) \$ (209) 6,028 7	Notional Value 3 months or less 3 to 6 months \$(1,699,762) \$ (265,954) \$ (1,175,326) (3) (3) - \$(1,699,765) \$ (265,957) \$ (1,175,326) Total Fair Value 3 months or less 3 to 6 months \$ 731 \$ (7) - (209) (209) - 6,028 7 (2)	Notional Value 3 months or less 3 to 6 months 6 to \$(1,699,762) \$ (265,954) \$ (1,175,326) \$ (3) (3) - \$ \$(1,699,765) \$ (265,957) \$ (1,175,326) \$ Total Fair Value 3 months or less 3 to 6 months 6 to \$ 731 \$ (7) \$ - \$ (209) (209) - 6,028 7 (2)	Notional Value 3 months or less 3 to 6 months 6 to 12 months \$(1,699,762) \$ (265,954) \$ (1,175,326) \$ (86,077) (3) (3) - - \$(1,699,765) \$ (265,957) \$ (1,175,326) \$ (86,077) Total Fair Value 3 months or less 3 to 6 months 6 to 12 months \$ 731 \$ (7) \$ - \$ - (209) (209) - - 6,028 7 (2) 472	Notional Value 3 months or less 3 to 6 months 6 to 12 months 1-5 \$(1,699,762) \$ (265,954) \$ (1,175,326) \$ (86,077) \$ (1 \$(1,699,765) \$ (265,957) \$ (1,175,326) \$ (86,077) \$ (1 Total Fair Value 3 months or less 3 to 6 months 6 to 12 months 1-5 \$ 731 \$ (7) \$ - \$ - \$ - \$ (209) (209) - - - 6,028 7 (2) 472	Notional Value 3 months or less 3 to 6 months 6 to 12 months 1-5 years \$(1,699,762) \$ (265,954) \$ (1,175,326) \$ (86,077) \$ (172,405) (3) (3) - - - \$(1,699,765) \$ (265,957) \$ (1,175,326) \$ (86,077) \$ (172,405) Total Fair Value 3 months or less 3 to 6 months 6 to 12 months 1-5 years \$ 731 \$ (7) - - - (209) (209) - - - 6,028 7 (2) 472 5,826	Notional Value 3 months or less 3 to 6 months 6 to 12 months 1-5 years 5-10 \$(1,699,762) \$ (265,954) \$ (1,175,326) \$ (86,077) \$ (172,405) \$ (3) (3) - - - - - - \$(1,699,765) \$ (265,957) \$ (1,175,326) \$ (86,077) \$ (172,405) \$ Total Fair Value 3 months or less 3 to 6 months 6 to 12 months 1-5 years 5-10 \$ 731 \$ (7) - - - - - \$ (209) (209) - - - - - 6,028 7 (2) 472 5,826	Notional Value 3 months or less 3 to 6 months 6 to 12 months 1-5 years 5-10 years \$(1,699,762) \$ (265,954) \$ (1,175,326) \$ (86,077) \$ (172,405) \$ - \$(1,699,765) \$ (265,957) \$ (1,175,326) \$ (86,077) \$ (172,405) \$ - Total Fair Value 3 months or less 3 to 6 months 6 to 12 months 1-5 years 5-10 years \$ 731 \$ (7) \$ - \$ - \$ - \$ - (209) (209) - - - - - 6,028 7 (2) 472 5,826 250	Notional Value 3 months or less 3 to 6 months 6 to 12 months 1-5 years 5-10 years 10 years \$(1,699,762) \$ (265,954) \$ (1,175,326) \$ (86,077) \$ (172,405) \$ - \$ - \$(1,699,765) \$ (265,957) \$ (1,175,326) \$ (86,077) \$ (172,405) \$ - \$ - Total Fair Value 3 months or less 3 to 6 months 6 to 12 months 1-5 years 5-10 years 10 years \$ 731 \$ (7) \$ - \$ - \$ - \$ - \$ - \$ (209) (209) - - - - - - 6,028 7 (2) 472 5,826 250 250

Notes to Combined Financial Statements June 30, 2020 and 2019

2010												
2019		Total										
	ľ	Notional									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)
								200	Φ.	- 10	_	
Total	\$	(17,721)	\$	(280)	\$	7	_\$_	298	_\$	240	_\$_	(17,986)

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, 2020 and 2019 (expressed in thousands).

				Do	ollars in (000)					
		Fair Value Measures Using								
2020			Quot	ed Prices in		8				
			_	Markets for	Significant Other	Significant				
	Fa	ir Value	Inden	tical Assets	Observable Inputs	Unobservable Inputs				
	(5/30/20	(Level 1)	(Level 2)	(Level 3)				
Investments by Fair Value Level	`									
Short Term Securities										
Commercial Paper	\$	33,978	\$	-	\$ 33,978	\$ -				
Short Term Bills and Notes		58,648		-	58,648	-				
Total Short Term Securities		92,626		-	92,626	-				
Fixed Income Investments										
Asset Backed Securities		458,001		-	458,001	-				
Bank Loans		898		-	898	-				
Collateralized Bonds		2,633		-	2,633	-				
Commercial Mortgage-Backed		294,632		-	294,632	-				
Corporate Bonds		2,228,985		-	2,226,656	2,329				
Corporate Convertible Bonds		10,197		-	10,197	, -				
Funds - Fixed Income ETF		24,430		24,430	· -	-				
Government Agencies		38,491		-	35,309	3,182				
Government Bonds		540,285		-	540,285	-				
Government Mortgage Backed Securities		866,696		-	866,696	-				
Gov't-issued Commercial Mortgage-Backed		62,317		-	62,317	-				
Index Linked Government Bonds		585,354		-	585,354	-				
Municipal/Provincial Bonds		41,223		-	41,223	-				
Non-Government Backed C.M.O.s		110,132		-	110,132	-				
Other Fixed Income		76		67	9	-				
Total Fixed Income Investments		5,264,350		24,497	5,234,342	5,511				
Equity Investments										
Common Stock		4,689,513		4,689,513	_	_				
Convertible Equity		15,417		15,417	_	_				
Funds - Equities ETF		86,628		86,628	-	-				
Preferred Stock		2,262		2,262	-	-				
Rights/Warrants		257		257	-	-				
Stapled Securities		2,666		2,666	-	-				
Total Equity Investments		4,796,743		4,796,743	-	-				
Derivative Investments										
Exchange Cleared Swaps		6,806		-	6,806	_				
Options		522		(209)	731	<u>-</u>				
Swaps		(485)		-	(485)	_				
Total Derivative Investments		6,843		(209)	7,052	-				
Total Investments by Fair Value Level	\$ 1	0,160,562	\$	4,821,031	\$ 5,334,020	\$ 5,511				

	Dollar	rs ir	n (000)		
			Unfunded	Redemption Frequency	Redemption
Investments Measured at the Net Asset Value (NAV)			Commitments	(If Currently Eligible)	Notice Period
Commingled Funds-Debt	\$ 1,457,557	\$	-	Daily, monthly	1-15 days
Commingled Funds-Equities	1,086,970		-	Daily, monthly	1-15 days
Distressed Debt	245,445		90,604	Quarterly, Not eligible	60 days
Long/Short	263,941		-	Monthly	15 days
Mezzanine Debt	229		8,499	Not eligible	Not eligible
Private Credit	413,775		191,200	Not eligible	Not eligible
Private Equity	290,360		332,373	Not eligible	Not eligible
Real Assets	1,886,206		246,371	Quarterly, Not eligible	30-90 days
Total Investments Measured at the NAV	\$ 5,644,483	\$	869,047		
Investments at Other Than Fair Value					
Cash and adjustments to cash	\$ 298,319				
Bank Certificates of Deposit	88,433				
Other miscellaneous securities	28,919				
Total Investments at Other Than Fair Value	\$ 415,671				
Total Investments	\$ 16,220,716				

				Do	ollars in (000)					
		Fair Value Measures Using								
2019		ir Value /30/19	Active I Indenti	d Prices in Markets for cal Assets evel 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)				
Investments by Fair Value Level		20,19		, (11)	(20, 012)					
Short Term Securities										
Commercial Paper	\$	1,596	\$	-	\$ 1,596	5 \$ -				
Short Term Bills and Notes		31,986		-	31,986	· -				
Total Short Term Securities		33,582		-	33,582	-				
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					
Corporate Convertible Bonds		21,761		_	20.995	*				
Funds - Fixed Income ETF		23,735		23,735		-				
Government Agencies		73,034		-	73,034	<u>-</u>				
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)	(17,100	•				
Swaps		(297)		-	(297	<i>'</i>				
Total Derivative Investments		(17,753)		(279)	(17,474	/				
Total Investments by Fair Value Level	\$ 9	,235,181	\$	4,854,435	\$ 4,362,453	·				

Notes to Combined Financial Statements June 30, 2020 and 2019

	Dollar	rs in	(000)		
			Unfunded	Redemption Frequency	Redemption
Investments Measured at the Net Asset Value (NAV)		(Commitments	(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				

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 open-ended 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, 2020 and 2019, unfunded commitments in one of its two distressed debt funds totaled \$90.6 million and \$76.9 million, respectively. This fund is not eligible for redemptions. The other fund is eligible for redemptions with

Notes to Combined Financial Statements June 30, 2020 and 2019

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, 2020 and 2019.

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 1-4 years, and unfunded commitments of \$8.5 million as of June 30, 2020 and 2019.

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 below-investment 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 1 to 2 years, and the unfunded commitments totaled \$191.2 million and \$146.2 million as of June 30, 2020 and 2019, respectively.

Private Equity — Private Equity investments are typically private interests in corporations across different areas of the capital structure and in different stages of the 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 sub-asset 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 \$333.3 million and \$339.9 million in unfunded private equity commitments as of June 30, 2020 and 2019, 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.

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:

Notes to Combined Financial Statements June 30, 2020 and 2019

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 nine different real estate funds in the portfolio. Four of those funds are open-ended vehicles that accept redemption requests quarterly with a 30-90 day notification period. Two of the four open-ended funds had unfunded commitments totaling \$45 million as of June 30, 2020; and there were no unfunded commitments in the open-ended funds as of June 30, 2019. The remaining five funds are closed-ended limited partnerships that are not eligible for redemptions. Those five funds have a combined unfunded commitment of \$85.1 million and \$114.4 million as of June 30, 2020 and 2019, 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 1-6 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 and oil distribution and wastewater 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, 2020 and 2019, include both open and closed-ended funds. The open-ended funds have no unfunded commitments and are eligible for 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 \$116.3 million and \$243.9 million at June 30, 2020 and 2019, 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, US government securities and irrevocable letters of credit. US securities are loaned versus collateral valued at 102% of the fair value of the securities plus any accrued interest. Non-US 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 232 and 71 days as of June 30, 2020 and 2019, respectively. Cash open collateral is invested in a short term investment pool, which had an interest sensitivity of 1 day and 3 days as of June 30, 2020 and 2019, respectively. 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 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, 2020 and 2019 (expressed in thousands).

2020	Se	curities Lent	Co	on-Cash llateral Value	Co Inv	Cash llateral estment Value
Lent for cash collateral:						
US agency securities	\$	634	\$	-	\$	646
US government securities		1,471		-		1,487
US corporate fixed income securities		16,468		-		16,744
Global government securities		827		-		875
Global corporate fixed income securities		205		-		214
US equities		7,717		-		7,815
Global equities		29,051		-		31,010
Lent for non-cash collateral:						
US government securities		1,316		1,343		-
US corporate fixed income securities		17,204		17,555		-
US equities		87,966		89,262		-
Global equities		12,630		13,519		-
Total	\$	175,489	\$	121,679	\$	58,791

						Cash
			No	n-Cash	Co	llateral
	Se	curities	Co	llateral	Inv	estment
2019		Lent	Value			Value
Lent for cash collateral:						
US agency securities	\$	528	\$	-	\$	541
US government securities		4,387		-		4,481
US corporate fixed income securities		20,637		-		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		14,560		-		14,762
Global equities		1,934		-		2,025
Lent for non-cash collateral:						
US agency securities		200		202		-
US government securities		17,679		17,968		-
US corporate fixed income securities		64,979		65,750		-
US equities		211,061		213,840		-
Global equities		17,900		18,960		-
Total	\$	357,089	\$	316,720	\$	46,266

Note 4 - Capital Assets

	June 30, 2018	Additions	Retirements	June 30, 2019	Additions	Retirements	June 30, 2020
Office equipment Less accumulated	\$16,879	\$ -	\$ -	\$16,879	\$ -	\$ -	\$16,879
depreciation on office equipment	(10,130)	(1,800)	-	(11,930)	(1,800)	-	(13,730)
Software Less accumulated	1,213,500	-	-	1,213,500	-	-	1,213,500
depreciation on software	(1,213,500)	-	-	(1,213,500)	-	-	(1,213,500)
	\$ 6,749	\$ (1,800)	\$ -	\$ 4,949	\$ (1,800)	\$ -	\$ 3,149

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, 2020 and 2019:

	 2020	 2019
Due To Other State Agencies		
Information Technology Department	\$ 7,831	\$ 7,848
Office of Attorney General	3,011	1,288
Office of Management and Budget	337	150
Rough Rider Industries	-	137
Total due to other state agencies	\$ 11,179	\$ 9,424
Due To Other State Funds		
General Fund	\$ 	\$ 455,263,216

Due to 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 \$89,924 and \$87,766 for fiscal years 2020 and 2019, respectively. Minimum payments under the lease for fiscal 2021 are \$88,365.

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, 2020 and 2019 are summarized as follows:

Notes to Combined Financial Statements June 30, 2020 and 2019

	Beginning Balance 7/1/2019	Additions	Reductions	Ending Balance 6/30/2020	Amounts Due Within One Year
Accrued Leave	\$194,227	\$149,970	(\$138,367)	\$205,830	\$135,440
	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

Pension and Investment Trust Funds liquidate the accrued annual leave.

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, 2020 and 2019, the number of participating employer units was 213, consisting of the following:

	June 30, 2020	June 30, 2019
Public School Districts	174	175
County Superintendents	6	6
Special Education Units	20	19
Vocational Education Units	4	4
Other	9	9
Total	213	213

Notes to Combined Financial Statements June 30, 2020 and 2019

TFFR's membership consisted of the following:

	2020	2019
Retirees and beneficiaries currently receiving benefits	9,036	8,918
Terminated employees - vested	1,715	1,657
Terminated employees - nonvested	1,132	1,035
Total	11,883	11,610
	_	
Current employees		
Vested	8,216	7,936
Nonvested	3,131	3,239
Total	11,347	11,175

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 non-vested 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 non-grandfathered 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 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 3.37% and 5.46% for the years ended June 30, 2020 and 2019, 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, 2020 and 2019, TFFR had net realized gains of \$50,611,877 and \$66,548,800, respectively.

Net Pension Liability

The components of the net pension liability of TFFR at June 30, 2020 and 2019 (expressed in thousands), were as follows:

	June 30, 2020		June 30, 2019	
Total pension liability	\$	4,181,036	\$	3,993,424
Plan fiduciary net position		(2,650,532)		(2,616,171)
Net pension liability (NPL)	\$	1,530,504	\$	1,377,253
Plan fiduciary net position as a percentage of the total pension liability		63.4%		65.5%

Actuarial Assumptions

The total pension liability was determined by an actuarial valuation as of July 1, 2020 and 2019, using the following actuarial assumptions:

Valuation date	July 1, 2020	July 1, 2019
Inflation Salary increases	2.30% 3.80% to 14.80%; varying by service, including inflation and productivity	2.75% 4.25% to 14.50%; varying by service, including inflation and productivity
Cost of living adjustments Investment rate of return	None 7.25% net of investment expenses, including inflation	None 7.75% net of investment expenses, including inflation

For the July 1, 2020, valuation, the post-retirement healthy mortality table was updated to 104% of the PubT-2010 Retiree table for retirees and to 95% of the PubT-2010 Contingent Survivor table for beneficiaries, both projected with generational improvement using Scale MP-2019. The disabled mortality was updated to the PubNS-2010 Non-Safety Disabled Mortality table projected with generational improvement using Scale MP-2019.

The pre-retirement mortality table was updated to the Pub T-2010 Employee table projected with generational improvement using Scale MP-2019. The actuarial assumptions used were based on the results of an experience study dated March 19, 2020.

For the July 1, 2019, valuation, 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.

Long Tom

The actuarial assumptions used in the July 1, 2019, valuation 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, 2020 and 2019 are summarized in the following tables:

2020		Long-Term
		Expected
	Target	Real Rate of
	Allocation	Return
Global Equity	58.0%	6.9%
Global Fixed Income	23.0%	1.3%
Global Real Assets	18.0%	5.0%
Cash Equivalents	1.0%	0.0%
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%

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 7.25% and 7.75% as of June 30, 2020 and 2019, respectively. 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, 2020 and 2019 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, 2020 and 2019. 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, 2020 and 2019.

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, 2020 and 2019, 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:

1% Decrease	Current Discount	1% Increase
(6.25%)	Rate (7.25%)	(8.25%)
\$ 2,038,548,355	\$ 1,530,503,462	\$1,108,292,065
1% Decrease	Current Discount	1% Increase
(6.75%)	Rate (7.75%)	(8.75%)
\$ 1,859,994,289	\$ 1,377,253,104	\$ 976,082,834
	(6.25%) \$ 2,038,548,355 1% Decrease (6.75%)	(6.25%) Rate (7.25%) \$ 2,038,548,355 \$ 1,530,503,462 1% Decrease Current Discount (6.75%) Rate (7.75%)

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 long-term care plan and any other health insurance plan. Effective August 1, 2019, the credit is expanded to also include any dental, vision, and long-term care 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 postretirement 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 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 contributions are set by statute. During the 1983-1985 biennium the State of North Dakota implemented the employer pickup provision of the IRS code whereby a portion or all of the required member contributions are made by the employer. RIO, as the employer, is paying 4% of the member contribution. Employer contributions are set by statute.

Notes to Combined Financial Statements June 30, 2020 and 2019

Contribution rates are established as a percent of covered compensation as follows:

	Member	Employer
Members first enrolled prior to January 1, 2020	7.00%	7.12%
Members first enrolled after January 1, 2020	7.00%	8.26%
Members returning to the DB Plan as a result of Senate Bill 2015	9.00%	7.12%

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 is set by statute at 1.14% of covered compensation. 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, 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.

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, 2020 and 2019, RIO reported a liability of \$1,889,405 and \$2,704,103, 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, 2019 and 2018, 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, 2019, RIO's pension plan proportion was 0.151523 percent and as of June 30, 2018, was 0.153507 percent. RIO's OPEB plan proportion was 0.141245 percent as of June 30, 2019 and was 0.144121 percent as of June 30, 2018.

RIO recognized pension and OPEB expense of \$234,757 and \$345,458 for the years ended June 30, 2020 and 2019, respectively. At June 30, 2020 and 2019, RIO reported deferred outflows of resources and deferred inflows of resources related to pensions and OPEB from the following sources:

	Deferred Outflows of Resources			Deferred Inflows of Resources				
		2020		2019	9 2020		2019	
Differences between expected and actual								
experience	\$	3,853	\$	10,258	\$	325,848	\$	90,482
Changes in assumptions		677,150		944,466		569,784		36,976
Net differences between projected and								
actual earnings on plan investments		31,068		-		-		15,046
Changes in proportion and differences								
between employer contributions and								
proportionate share of contributions		55,138		96,731		44,740		29,040
Employer contributions subsequent to the								
measurement date		134,714		130,831				-
Total	\$	901,923	\$	1,182,286	\$	940,372	\$	171,544

Deferred outflows of resources related to pensions and OPEB resulting from employer contributions subsequent to the measurement date in the amount of \$134,714 will be recognized as a reduction of the net pension liability in the year ended June 30, 2021.

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		
2021		91,327
2022		22,877
2023		(69,189)
2024		(167,521)
2025		(51,149)
Thereafter		492
	\$	(173,163)
	•	

Actuarial assumptions

The total pension and OPEB liabilities in the July 1, 2019 and 2018 actuarial valuation were determined using the following actuarial assumptions, applied to all periods included in the measurement:

4010	-	•	TOI .
2019	$ P_{\Delta 1}$	าตากท	Plan
4017	-1	191011	ı ıan

Inflation 2.50%

Salary Increase (Payroll Growth) 4.00% to 20%, including inflation

Investment Rate of Return 7.50%, net of investment expense, including inflation

Cost-of-living Adjustments None

2018 - Pension Plan

Inflation 2.50%

Salary increases	Service at Beginning	g of Year: State Employee	Non-State Employee
·	0	12.00%	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%

^{*}Age-based salary increase rates apply for employees with three or more years of service

Investment rate of return 7.75%, net of investment expenses

Cost-of-living adjustments 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, 2019 and 2018, funding actuarial valuation for NDPERS.

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.

Notes to Combined Financial Statements June 30, 2020 and 2019

2019 - OPEB Plan

Inflation 2.50%

Salary increase Not applicable

Investment Rate of Return 7.25%, net of investment expenses, including inflation

Cost of Living Adjustment None

2018 - OPEB Plan

Inflation 2.50%

Salary increase Not applicable

Investment Rate of Return 7.50%, net of investment expenses

Cost of Living Adjustment 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%.

There were no benefit changes during the year. Beginning January 1, 2020, members first enrolled in the NDPERS Main System and the Defined Contribution Plan on our after that date will not be eligible to participate in the OPEB Plan. Therefore, the OPEB Plan will become for the most part a closed plan. There were no other benefit changes during the year. The economic assumptions (excluding salary increases) and the asset smoothing method were updated beginning with the actuarial valuation as of July 1, 2017, based on a review performed by the actuary. The investment return assumption was decreased from 7.5% to 7.25% beginning with the actuarial valuation as of July 1, 2019. All other actuarial assumptions were adopted by the PERS Board based on an experience study covering the period July 1, 2009, through June 30, 2014. The employer rate to the System is the statutory contribution rate of 1.14% of payroll.

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:

2020 - Pension Plan		
		Long-Term
		Expected
	Target	Real Rate of
Asset Class	Allocation	Return
Global Equity	57%	7.0%
Global Fixed Income	23%	2.1%
Global Real Assets	20%	5.4%

2010 Dangien Dlen

Large Cap Domestic Equity

Small Cap Domestic Equity

Core-Plus Fixed Income

International Equity

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%
2020 - OPEB Plan		
		Long-Term
		Expected
	Target	Real Rate of
Asset Class	Allocation	Return
Large Cap Domestic Equity	37%	6.0%
Small Cap Domestic Equity	9%	7.3%
International Equity	14%	7.0%
Core-Plus Fixed Income	40%	2.1%
2019 - OPEB Plan		
		Long-Term
		Expected
	Target	Real Rate of

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.

37%

9%

14%

40%

5.8%

7.1%

6.2%

1.5%

Projected benefit payments are required to be discounted to their actuarial present values using a Single Discount Rate (SDR) that 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 2019, the expected return on pension plan investments is 7.50%; the municipal bond rate is 3.13% (based on the most recent date available on or before the measurement date of the "20-year Municipal Go Index" from Fidelity); and the resulting Single Discount Rate is 7.50%.

For 2018, the expected return on pension plan investments is 7.75%; the municipal bond rate is 3.62% (based on the most recent date available on or before the measurement date of the "20-year Municipal Go Index" from Fidelity); and the resulting Single Discount Rate is 6.32%.

The discount rate used to measure the total OPEB liability for 2019 was 7.25% and for 2018 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, 2019 and 2018 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 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:

2020			
	1% Decrease	Current Discount	1% Increase
	(6.5%)	Rate (7.5%)	(8.5%)
RIO's net pension liability	\$ 2,546,343	\$ 1,775,959	\$ 1,128,702
	1% Decrease	Current Discount	1% Increase
	(6.25%)	Rate (7.25%)	(8.25%)
RIO's net OPEB liability	144,799	113,446	86,608
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

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: https://ndpers.nd.gov/about/financial/annual-report-archive/.

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 a case arising out of the Tribune 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, in addition to assistance received from the ND Office of Attorney General. On July 15, 2019, the Litigation Trustee filed a Notice of Appeal to the Second Circuit, appealing the various judgments of the US 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. The Second Circuit held oral argument on August 24, 2020, and took the matter under advisement. 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)

	2020	2019		2018		2017		2016		2015		2014
Total pension liability												
Service cost	\$ 80,591	\$ 77,756	\$	78,041	\$	75,476	\$	68,239	\$	60,618	\$	56,752
Interest	306,791	296,876		287,375		276,412		265,440		249,064		237,821
Changes of benefit terms	-	-		-		-		-		-		-
Differences between expected and actual experience	(20,732)	(23,495)		(27,939)		(10,749)		(8,093)		2,209		9,347
Changes of assumptions	51,813	-		-		-		-		171,325		-
Benefit payments, including refunds of member contributions	 (230,851)	(221,228)		(207,979)		(196,516)	((185,969)		(172,239)		(162,259)
Net change in total pension liability	187,612	129,909		129,498		144,623		139,617		310,977		141,661
Total pension liability - beginning	 3,993,424	3,863,515	_3	3,734,017	3	,589,394	3	,449,777	3	3,138,800		2,997,139
Total pension liability - ending (a)	\$ 4,181,036	\$ 3,993,424	\$3	3,863,515	\$3	,734,017	\$3	,589,394	\$3	3,449,777	\$ 3	3,138,800
Plan fiduciary net position												
Contributions - employer	\$ 93,032	\$ 89,445	\$	86,676	\$	86,059	\$	82,840	\$	78,422	\$	62,355
Contributions - member	85,735	82,429		79,878		79,309		76,343		72,268		56,555
Contributions - purchased service credit	2,175	1,917		2,181		2,553		2,768		1,601		2,034
Contributions - other	159	159		194		236		45		172		48
Net investment income	86,206	135,043		211,345		266,688		8,239		73,205		294,246
Benefit payments, including refunds of member contributions	(230,851)	(221,228)		(207,979)		(196,516)	((185,969)		(172,239)		(162,259)
Administrative expenses	 (2,095)	(2,251)		(2,129)		(2,173)		(1,852)		(1,923)		(1,586)
Net change in plan fiduciary net position	34,361	85,514		170,166		236,156		(17,586)		51,506		251,393
Plan fiduciary net position - beginning **	 2,616,171	2,530,657		2,360,491	2	,124,335	2	,141,921	2	2,090,415		,839,584
Plan fiduciary net position - ending (b)	\$ 2,650,532	\$ 2,616,171	\$2	2,530,657	\$2	,360,491	\$2	,124,335	\$2	2,141,921	\$ 2	2,090,977
Plan's net pension liability - ending (a) - (b)	\$ 1,530,504	\$ 1,377,253	\$1	1,332,858	\$1	,373,526	\$1	,465,059	\$1	,307,856	\$:	,047,823
Plan fiduciary net position as a percentage of the total pension	62.45:	·		~# #a:		ca ac:		70.0 5:		60.161		
liability	63.4%	65.5%		65.5%		63.2%		59.2%		62.1%		66.6%
Covered payroll	729,661	701,528		679,809		674,971		649,725		615,105		580,053
Plan's net pension liability as a percentage of covered payroll	209.8%	196.3%		196.1%		203.5%		225.5%		212.6%		180.6%

Notes to Schedule:

- * Complete data for this schedule is not available prior to 2014.
- ** Restated in 2015 due to GASB 68 implementation.

Changes of assumptions:

In 2020, amounts reported as changes of assumptions resulted primarily from a decrease in the investment return assumption from 7.75% to 7.25%, the inflation assumption lowered from 2.75% to 2.30%, lower individual salary increases, and an updated mortality improvement scale.

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.

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

				tributions				Contributions
		ctuarially termined	in relation to the actuarially determined		 tribution ficiency	(Covered	as a percentage of covered
Fiscal Year	cor	itribution	contribution		excess)		payroll	payroll
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%
2020		93,688		93,032	656		729,661	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 23 years

Asset valuation method 5-year smoothed market

Inflation 2.30%; decreased from 2.75% prior to 7/1/2020 and from 3% prior to 7/1/2015.

Salary increases 3.80% - 14.80% including inflation and productivity; 4.25% - 14.5% prior to

7/1/2020; 4.5% - 14.75% prior to 7/1/2015.

Investment rate of return 7.25%, net of investment expenses, including inflation; rate was decreased from

7.75% beginning 7/1/2020 and decreased from 8% beginning 7/1/2015.

Retirement age In the 2020 and 2015 valuations, rates of retirement were changed to better reflect

anticipated future experience.

Mortality In the 2020 valuation, the PubT-2010 pre-retirement, retiree and contingent

survivor tables were adopted and for disabled members, PubNS-2010 tables were

adopted; all with generational improvement.

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*

ANNUAL MONEY-WEIGHTED RATE OF RETURN NET OF INVESTMENT EXPENSES

2020	2019	2018	2017	2016	2015	2014	2013	
3.37%	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)

	2020	2019	2018	2017	2016	2015	
RIO's proportion of NDPERS net pension liability (asset)	0.151523%	0.153507%	0.156317%	0.152969%	0.145546%	0.121849%	
RIO's proportion of NDPERS net OPEB liability (asset)	0.141245%	0.144121%	0.147503%				
RIO's proportionate share of NDPERS net pension liability (asset)	\$ 1,776	\$ 2,591	\$ 2,513	\$ 1,491	\$ 990	\$ 773	
RIO's proportionate share of NDPERS net OPEB liability (asset)	113	114	117_				
RIO's covered payroll	\$ 1,584	\$ 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	112.12%	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	7.16%	7.28%	7.31%				
NDPERS Plan fiduciary net position as a percentage of the total pension liability	71.66%	62.80%	61.98%	70.46%	77.15%	77.70%	
NDPERS Plan fiduciary net position as a percentage of the total OPEB liability	63.13%	61.89%	59.78%				

Notes to schedule:

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

^{*}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)

	2020	2019	2018	2017	2016	2015	2014
RIO's Statutorily required pension contributions RIO's Statutorily required OPEB contributions	\$ 116 19	\$ 113 18	\$ 112 18	\$ 114 18	\$ 107	\$ 98	\$ 73
RIO's pension contributions in relation to the statutory required contribution	116	113	112	114	107	98	73
RIO's OPEB contributions in relation to the statutory required contribution	19	18	18	18	ф.	Ф.	Ф.
Contribution deficiency (excess) RIO's Covered payroll	\$ - \$ 1,631	\$ 1,584	\$ - \$1,567	\$ - \$1,596	\$ 1,507	\$ 1,377	\$ -
RIO's pension contributions as a percentage of covered payroll	7.12%	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%	1.14%			

Notes to schedule:

^{*}Complete data for this schedule is not available prior to 2014 for pension contributions and 2017 for OBEP contributions.

	Pension Pool Participar	nts				Insurance Pool Part	icipants						
	Public	Bismarck	Bismarck	City of					Petroleum	Insurance			Risk
	Employees	City	City	Grand Forks	City of	Workforce	State		Tank	Regulatory	Cultural		Mgmt
	Retirement	Employee	Police	Employee	Grand Forks	Safety &	Fire &	State	Release	Trust	Endowment	Risk	Workers'
	System	Pension Plan	Pension Plan	Pension Plan	Park District	Insurance	Tornado	Bonding	Comp. Fund	Fund	Fund	Mgmt	Comp
Assets:													
Investments													
Global equities	\$1,845,599,025	\$48,982,380	\$21,615,244	\$40,309,634	\$4,019,784	\$463,600,269	\$7,934,558	\$0	\$0	\$1,714,400	\$270,860	\$1,358,949	\$1,880,916
Global fixed income	735,144,204	36,634,135	12,436,455	16,314,757	1,890,302	1,277,855,340	12,482,646	2,064,721	3,040,316	1,998,953	183,900	2,927,255	3,077,201
Global real assets	602,436,549	20,433,096	8,130,001	9,898,398	1,423,026	346,432,420	-	-	-	-	23,407	-	-
Cash equivalents	18,725,420	582,442	247,426	785,212	50,237	27,443,101	2,272,830	1,699,313	3,073,254	1,994,988	15,111	226,433	153,312
Total investments	3,201,905,198	106,632,053	42,429,126	67,308,001	7,383,349	2,115,331,130	22,690,034	3,764,034	6,113,570	5,708,341	493,278	4,512,637	5,111,429
Invested sec lending collateral	9,188,775	281,059	112,117	197,228	20,619	6,492,798	74,266	5,807	8,466	15,700	1,404	8,382	8,956
Investment income receivable	10,208,300	314,814	122,878	150,579	22,865	10,550,093	135,522	23,492	51,855	6,279	123	48,537	4,789
Operating Cash	74,910	-	-	-	-	60,673	1,238	1,110	1,366	1,270	246	1,165	1,121
Miscellaneous receivable	6,088	-	-	-	-	4,150	43	8	13	3	1	9	10
Due from other state agencies	-	-	-	-	-	-	-		-			-	
Total assets	3,221,383,271	107,227,926	42,664,121	67,655,808	7,426,833	2,132,438,844	22,901,103	3,794,451	6,175,270	5,731,593	495,052	4,570,730	5,126,305
Deferred outflows of resources													
Related to pensions	107,188					72,043	898	128	265	68	17	233	226
Liabilities:	2 (11 272	05.572	40.511	54.140	5.040	022 450			1.654	1.000	220	2.012	2.205
Investment expenses payable Securities lending collateral	2,644,373 9,188,775	95,672 281,059	40,511 112,117	54,149 197,228	6,948 20,619	933,458 6,492,798	11,112 74,266	1,112 5,807	1,654 8,466	1,900 15,700	230 1,404	2,013 8,382	2,286 8,956
Accounts payable	9,188,773	281,039	112,117	197,228	20,019	42,746	74,200 447	79	132	35	1,404	90	100
Accrued expenses	271.956		_		_	188,111	2.716	346	743	171	43	644	595
Miscellaneous payable		5,611	2,235	3,321	373		-,	-	-	-	-	-	-
Due to other state funds	_	-	-	-	-	_	_	_	-	_	_	_	-
Due to other state agencies	794					541	6	1	2	1	1	1	1
Total liabilities	12,172,652	382,342	154,863	254,698	27,940	7,657,654	88,547	7,345	10,997	17,807	1,687	11,130	11,938
Deferred inflows of resources							•						
Related to pensions	\$102,180	\$0	\$0	\$0	\$0	\$70,126	\$773	\$130	\$223	\$54	\$15	\$164	\$174
•													
Fiduciary net position held in trust for													
external investment pool participants	\$ 3,209,215,627	\$ 106,845,584	\$ 42,509,258	\$ 67,401,110	\$ 7,398,893	\$ 2,124,783,107	\$ 22,812,681	\$ 3,787,104	\$ 6,164,315	\$ 5,713,800	\$ 493,367	\$ 4,559,669	\$ 5,114,419
Each participant unit is valued at \$1.00 Participant units outstanding	3,209,215,627	106,845,584	42,509,258	67,401,110	7,398,893	2,124,783,107	22,812,681	3,787,104	6,164,315	5,713,800	493,367	4,559,669	5,114,419

North Dakota Retirement and Investment Office

Combining Statement of Net Position – Investment Trust Funds – Fiduciary Funds June 30, 2020

(With Comparative Totals for 2019)

nsurance Pool Pa				o: c	er. e		·	4	Individual Investment			DED 6		
ND Veterans'	ND			City of	City of		Lewis & Clark	Attorney		Job		PERS		
Cemetery	Ass'n. of	PERS	Budget	Bismarck	Fargo	State	Interpretive	General		Service	Tobacco	Retiree		
Trust	Counties	Group	Stabilization	Deferred	FargoDome	Board of	Center	Settlement	Legacy	of North	Prevention and	Health	To	
Fund	Fund	Insurance	Fund	Sick Leave	Fund	Medicine	Endowment	Fund	Fund	Dakota	Control Fund	Credit Fund	2020	2019
\$156,425	\$2,333,077	\$0	\$0	\$229,639	\$21,684,203	\$666,547	\$276,926	\$0	\$3,478,368,132	\$18,153,248	\$0	\$88,768,471	\$ 6,047,922,687	\$ 5,758,237,24
110,074	4,158,311	28,651,685	716,197,767	501,419	17,059,331	1,658,416	509,180	1,045,858	2,423,741,193	76,766,803	6,477,228	54,676,415	5,437,603,865	4,510,779,7
44,456	-	-	-	-	4,308,452	139,082	-	-	996,517,381	-	-	-	1,989,786,268	1,889,505,50
1,777	199,407	2,727,932	7,984,000	38,182	437,170	6,774	7,640	10,809	74,391,282	418,439	1,112,039	792,184	145,396,714	309,039,17
312,732	6,690,795	31,379,617	724,181,767	769,240	43,489,156	2,470,819	793,746	1,056,667	6,973,017,988	95,338,490	7,589,267	144,237,070	13,620,709,534	12,467,561,66
(820)	23,481	109,309	2,731,116	2,706	160,247	9,440	3,255	3,973	31,738,986	-	-	-	51,197,270	37,770,48
50	2,397	116,370	3,093,297	1,553	61,712	(30)	62	481	26,765,280	43	87	252	51,681,680	50,051,02
-	-	_	31,367		-	-	_	_	178,559	-		-	353,025	257,5
-	-	-	1,458	-	-	-	_	_	12,879	-		-	24,662	26,3
-	-	-	-	-	-	-	-	-	-	-		-	-	
311,962	6,716,673	31,605,296	730,039,005	773,499	43,711,115	2,480,229	797,063	1,061,121	7,031,713,692	95,338,533	7,589,354	144,237,322	13,723,966,171	12,555,667,0
				_			_				-			
_	-		1,347			-			170,502			_	352,915	472,6
140	3,311	14,671	347,719	395	25,549	1,247	434	510	4,133,132	84,088	2,438	104,165	8,513,217	4,829,5
(820)	23,481	109,309	2,731,116	2,706	160,247	9,440	3,255	3,973	31,738,986	-	-	-	51,197,270	37,770,4
-	-	-	14,973	-	-	-	-	-	136,081	-	-	-	261,446	253,8
-	-	-	19,263		-	-	-	-	359,142	-	-		843,730	1,193,5
105	340	1,704	-	250	2,196	250	250	250	-	5,346	421	6,945	29,597	32,1
-	-	-	-	-	-	-	-	-	-	-	-	-	-	455,263,2
	-		190						1,680				3,218	1,4
(575)	27,132	125,684	3,113,261	3,351	187,992	10,937	3,939	4,733	36,369,021	89,434	2,859	111,110	60,848,478	499,344,2
\$0	\$0	\$0	\$23,480	\$0	\$0	\$0	\$0	\$0	\$206,103	\$0	\$0		403,422	67,4
		•												
312,537	\$ 6,689,541	\$ 31,479,612	\$ 726,903,611	\$ 770,148	\$ 43,523,123	\$ 2,469,292	\$ 793,124	\$ 1,056,388	\$ 6,995,309,070	\$ 95,249,099	\$ 7,586,495	\$ 144,126,212	\$ 13,663,067,186	\$ 12,056,728,0
				· 			-							
312,537	6,689,541	31,479,612	726,903,611	770,148	43,523,123	2,469,292	793,124	1,056,388	6,995,309,070	95,249,099	7,586,495	144,126,212	13,663,067,186	12,056,728,0

	Pension Pool Particip	pants				Insurance Pool Parti	icipants						
	Public	Bismarck	Bismarck	City of	City of				Petroleum	Insurance			Risk
	Employees	City	City	Grand Forks	Grand Forks	Workforce	State		Tank	Regulatory	Cultural		Mgmt
	Retirement	Employee	Police	Employee	Park District	Safety &	Fire &	State	Release	Trust	Endowment	Risk	Workers'
	System	Pension Plan	Pension Plan	Pension Plan	Pension Plan	Insurance	Tornado	Bonding	Comp. Fund	Fund	Fund	Mgmt	Comp
Additions:													
Investment income:													
Net change in fair value of investments	\$ 44,741,951	\$ 1,826,538	\$ 637,666	\$ 1,027,301	\$ 107,635	\$ 77,621,108	\$ 624,250	\$ 114,953	\$ 170,176	\$ 225,107	\$ 9,624	\$ 172,210	\$ 190,845
Interest, dividends and other income	67,495,427	2,335,114	893,700	1,368,354	178,522	47,479,431	444,343	66,240	106,406	60,326	9,929	85,016	93,400
	112,237,378	4,161,652	1,531,366	2,395,655	286,157	125,100,539	1,068,593	181,193	276,582	285,433	19,553	257,226	284,245
Less investment expenses	8,227,685	286,083	116,264	169,943	22,064	3,843,479	36,334	3,018	4,497	3,572	956	6,437	7,259
Net investment income	104,009,693	3,875,569	1,415,102	2,225,712	264,093	121,257,060	1,032,259	178,175	272,085	281,861	18,597	250,789	276,986
Securities lending activity:													
Securities lending income	207,980	6,787	2,712	4,768	536	128,225	1,811	96	142	234	54	389	482
Less Securities lending expenses	(41,579)	(1,356)	(543)	(953)	(108)	(25,602)	(361)	(21)	(28)	(45)	(12)	(78)	(96)
Net securities lending income	166,401	5,431	2,169	3,815	428	102,623	1,450	75	114	189	42	311	386
Purchase of units (\$1 per unit)				3,799,733	423,980	2,000,000	4,327,187			5,201,869		250,000	1,000,000
Total Additions	104,176,094	3,881,000	1,417,271	6,029,260	688,501	123,359,683	5,360,896	178,250	272,199	5,483,919	18,639	501,100	1,277,372
Deductions:													
Administrative Expenses	469,933	-	-	-	-	294,160	3,267	1,005	1,183	1,001	710	1,041	1,073
Redemption of units (\$1 per unit)	46,150,000	1,500,000	750,000	7,028,039	463,278	63,000,000	5,300,000		100,000	5,988,231		850,000	1,350,000
Total Deductions	46,619,933	1,500,000	750,000	7,028,039	463,278	63,294,160	5,303,267	1,005	101,183	5,989,232	710	851,041	1,351,073
Change in fiduciary net position	57,556,161	2,381,000	667,271	(998,779)	225,223	60,065,523	57,629	177,245	171,016	(505,313)	17,929	(349,941)	(73,701)
Fiduciary net position:													
Beginning 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	5,188,120
End of year	\$ 3,209,215,627	\$ 106,845,584	\$ 42,509,258	\$ 67,401,110	\$ 7,398,893	\$ 2,124,783,107	\$ 22,812,681	\$ 3,787,104	\$ 6,164,315	\$ 5,713,800	\$ 493,367	\$ 4,559,669	\$ 5,114,419

North Dakota Retirement and Investment Office

Combining Statement of Changes in Net Position – Investment Trust Funds – Fiduciary Funds Year Ended June 30, 2020

(With Comparative Totals for 2019)

Insuran	ce Pool Par	rticipants								Individ	lual Investment	Accounts						
ND V	'eterans'	ND			City of	City of		Lewis & Clark	Attorney						PERS			
Cen	netery	Ass'n of	PERS	Budget	Bismarck	Fargo	State	Interpretive	General			Job Service	Toba	ассо	Retiree			
Ti	rust	Counties	Group	Stabilization	Deferred	FargoDome	Board of	Center	Settlement]	Legacy	of North	Prevention	n and	Health	T	otals	
F	und	Fund	Insurance	Fund	Sick Leave	Fund	Medicine	Endowment	Fund		Fund	Dakota	Contro	l Fund	Credit Fund	2020		2019
\$	31,431	\$ 235,639	\$ (218,883)	\$ (4,511,372)	\$ 27,520	\$ 673,479	\$ 57,481	\$ 27,707	\$ (10,306)	\$	150,636,769	\$ 149,250	\$	282,644	\$ 3,791,934	\$ 278,642,657	\$	388,737,303
	1,484	134,353	946,534	17,188,196	15,694	908,396	55,665	16,467	23,305		140,318,920	2,792,754		16,454	3,527,296	286,561,726		284,507,483
	32,915	369,992	727,651	12,676,824	43,214	1,581,875	113,146	44,174	12,999		290,955,689	2,942,004		299,098	7,319,230	565,204,383		673,244,786
	383	12,175	30,879	787,627	2,258	90,931	5,331	2,398	1,952		14,033,044	320,937		4,447	417,596	28,437,549		26,513,804
	32,532	357,817	696,772	11,889,197	40,956	1,490,944	107,815	41,776	11,047		276,922,645	2,621,067		294,651	6,901,634	536,766,834		646,730,982
	6 (1)	545 (109)	871 (173)	13,945 (2,783)	59 (13)	4,498 (897)	156 (32)	64 (13)	18 (2)		613,868 (122,673)	-		-	-	988,246 (197,478)		1,226,258 (245,058)
	5	436	698	11,162	46	3,601	124	51	16		491,195	-		-		790,768		981,200
	280,000		231,645,900	596,442,112	_	_	_	_	1,130,443		596,589,041	-			3,532,200	1,446,622,465		987,842,755
	312,537	358,253	232,343,370	608,342,471	41,002	1,494,545	107,939	41,827	1,141,506		874,002,881	2,621,067		294,651	10,433,834	1,984,180,067	_	1,635,554,937
	-	-	-	86,564	-	-	-	-	-		921,682	-		-	-	1,781,619		1,779,837
		-	231,917,000		50,000	2,800,000			85,118		-	4,567,644	2,	000,000	2,160,000	376,059,310		833,929,970
			231,917,000	86,564	50,000	2,800,000			85,118		921,682	4,567,644	2,	000,000	2,160,000	377,840,929		835,709,807
	312,537	358,253	426,370	608,255,907	(8,998)	(1,305,455)	107,939	41,827	1,056,388		873,081,199	(1,946,577)	(1,	705,349)	8,273,834	1,606,339,138		799,845,130
	_	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
•	312,537	\$ 6,689,541	\$ 31,479,612	\$ 726,903,611	\$ 770,148	\$ 43,523,123	\$ 2,469,292	\$ 793,124	\$ 1,056,388	\$ 6.	995,309,070	\$ 95,249,099	s 7.	586,495	\$ 144.126.212	\$ 13,663,067,186	\$	12.056.728.048

North Dakota Retirement and Investment Office Pension and Investment Trust Funds – Schedule of Administrative Expenses Years Ended June 30, 2020 and 2019

	Pensio	n Trust	Investme	ent Trust
	2020	2019	2020	2019
Salaries and wages:				
Salaries and wages	\$ 835,872	\$ 832,908	\$ 872,424	\$ 836,638
Fringe benefits	441,279	508,007	419,286	409,387
Total salaries and wages	1,277,151	1,340,915	1,291,710	1,246,025
Operating expenses:				
Travel	21,478	24,162	25,641	30,646
Supplies	2,799	3,167	1,465	1,563
Postage and Mailing Services	36,604	35,178	15,868	14,833
Printing	13,676	12,426	4,097	3,470
Small Office Equipment and Furniture	3,360	14,910	1,898	11,744
Insurance	546	398	373	228
Rent/Lease of Building Space	53,354	55,396	36,570	32,370
Repairs	1,266	917	898	536
Information Technology and Communications	73,166	74,217	22,959	17,519
IT Contractual Services	99,205	156,553	466,295	447,097
Professional Development	13,528	20,808	5,673	12,693
Operating Fees and Services	18,969	16,807	22,508	20,655
Professional Fees and Services	9,737	10,763	13,982	6,339
Consultant Services	253,576	263,269	86,872	153,516
Total operating expenses	601,264	688,971	705,099	753,209
Pension trust portion of investment program expenses	215,190	219,397	(215,190)	(219,397)
Depreciation	1,800	1,800		
Total administrative expenses	2,095,405	2,251,083	1,781,619	1,779,837
Less - nonappropriated items:				
Consultant Services	253,576	263,269	86,872	153,516
Other operating fees paid under continuing appropriation	110,071	132,871	522,515	498,969
Depreciation	1,800	1,800	-	-
Accrual adjustments to employee benefits	117,513	196,388	128,847	147,218
Total nonappropriated items	482,960	594,328	738,234	799,703
rr r				
Total appropriated administrative expenses	\$ 1,612,445	\$ 1,656,755	\$ 1,043,385	\$ 980,134

The accompanying notes are an integral part of these statements.

North Dakota Retirement and Investment Office Schedule of Appropriations – Budget Basis – Fiduciary Funds July 1, 2019 to June 30, 2021 Biennium

All Fund Types:	2	Approved 019-2021 opropriation	2019-2021 Appropriation Adjustment	Adjusted 2019-2021 Appropriation	Fiscal 2020 Expenses	nexpended propriations
Salaries and wages	\$	4,978,230	\$ -	\$ 4,978,230	\$ 2,322,501	\$ 2,655,729
Operating expenses		3,538,934	-	3,538,934	333,329	3,205,605
Capital Assets		6,300,000	-	6,300,000	-	6,300,000
Contingency		52,000		52,000	-	52,000
Total	\$	14,869,164	\$ -	\$ 14,869,164	\$ 2,655,830	\$ 12,213,334

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

Reconciliation of Administrative Expenses to Appropriated Expenditures

	2020
Administrative expenses as reflected in the financial statements	\$ 3,877,024
Less:	
Consulting Services*	(340,448)
Other operating fees paid under continuing appropriations*	(632,586)
Depreciation expense	(1,800)
Changes in benefit accrual amounts	(246,360)
Total appropriated expenses	\$ 2,655,830

^{*} North Dakota Century Code 21-10-06.2 and 15-39.1-05.2 provide authorization for the continuing appropriation.

North Dakota Retirement and Investment Office

Pension and Investment Trust Funds – Schedule of Consultant Expenses Years Ended June 30, 2020 and 2019

	Pensio	n Trust	Investme	ent Trust
	2020	2019	2019 2020 2019 08,000 \$ - \$ - 07,514 49,494 30,587 350 - - 3,383 - - 12,880 13,841 17,066 239 163 313 3,105 10,781 54,804 37,798 12,593 50,746	
Actuary fees: Segal Consulting	\$ 152,873	\$ 108,000	\$ -	\$ -
Auditing/Accounting fees: CliftonLarsonAllen LLP	71,986	97,514	49,494	30,587
Disability consulting fees: Sanford Health	150	350	-	-
Legal fees:				
Office of Administrative Hearings	2,100	3,383	-	-
K&L Gates LLP	10,363	12,880	13,841	17,066
Kasowitz, Benson, Torres & Friedman	125	239	163	313
Jackson Walker LLP	3,594	3,105	10,781	54,804
ND Attorney General	12,385	37,798	12,593	50,746
Total legal fees:	28,567	57,405	37,378	122,929
Total consultant expenses	\$ 253,576	\$ 263,269	\$ 86,872	\$ 153,516

North Dakota Retirement and Investment Office Pension and Investment Trust Funds – Schedule of Investment Expenses Years Ended June 30, 2020 and 2019

Investment managers' fees: Global equity managers \$1,373,171 \$1,367,498 \$1,848,580 \$1,802,596 Domestic large cap equity managers 602,625 445,300 30,91,577 1,405,370		Pensio	n Trust	Investm	ent Trust
Clobal equity managers \$1,373,171 \$1,367,498 \$1,848,580 \$1,802,596 Domestic targe cap equity managers \$717,445 \$62,6227 \$4,078,287 \$4,181,083 Domestic small cap equity managers \$602,625 \$445,360 \$3,091,577 \$1,465,370 International equity managers \$865,295 \$883,844 \$6,910,433 \$6,526,839 Emerging markets equity managers \$769,333 \$607,541 \$129,0364 \$987,011 Domestic fixed income managers \$1,091,995 \$1,137,802 \$10,733,934 \$10,833,676 \$8 leow investment grade fixed income managers \$2,064,617 \$2,446,530 \$2,999,775 \$3,346,917 \$2,999,775 \$3,346,917 \$2,999,775 \$3,346,917 \$2,999,775 \$3,346,917 \$2,999,775 \$3,346,917 \$2,999,775 \$3,346,917 \$2,999,775 \$3,346,917 \$2,999,775 \$3,346,917 \$2,999,775 \$3,346,917 \$2,999,775 \$3,346,917 \$2,999,775 \$3,346,917 \$2,999,775 \$3,346,917 \$2,999,775 \$3,469,917 \$2,999,775 \$3,469,917 \$2,999,775 \$3,469,917 \$2,999,775 \$3,469,917 \$2,999,775 \$3,469,917 \$2,999,775 \$3,469,917 \$2,999,775 \$3,469,917 \$2,999,775 \$3,919,919 \$1,919		2020	2019	2020	2019
Signatury Sign	Investment managers' fees:				
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Reconciliation of investment expenses to financial statements 2020 2019 2020 2019 Investment expenses as reflected in the financial statements \$ 6,523,407 \$ 6,272,801 \$ 28,437,549 \$ 26,513,804 Plus investment management fees included in investment income Domestic large cap equity managers 256,402 13,216 1,144,803 231,616 Domestic small cap equity managers - 16,233 - (352,236) International equity managers 207,075 240,154 1,777,070 1,664,052 Emerging markets equity managers 417,764 607,541 701,047 987,011 Domestic fixed income managers 680,670 749,012 5,765,868 6,550,173 Below investment grade fixed income managers 1,681,382 1,986,029 2,544,213 2,782,655 Diversified real assets managers 594,427 829,250 866,687 1,174,455 Infrastructure managers 1,379,223 1,380,280 1,798,221 1,811,371 Timber managers 2,585,827 1,667,745 3,011,435 1,953,932	Investment consultant fees	108,804	129,878	487,468	482,208
Reconciliation of investment expenses to financial statements 2020 2019 2020 2019 2020 2019 2020 2019 2020 2019 2020 2019 2020 2019 2020 2019 2020	SIB Service Fees	-	-	73,461	81,815
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Emerging markets equity managers 417,764 607,541 701,047 987,011 Domestic fixed income managers 680,670 749,012 5,765,868 6,550,173 Below investment grade fixed income managers 1,681,382 1,986,029 2,544,213 2,782,655 Diversified real assets managers - - 3,813,479 3,989,293 Real estate managers 594,427 829,250 866,687 1,174,455 Infrastructure managers 1,379,223 1,380,280 1,798,221 1,811,371 Timber managers 358,278 380,628 435,437 462,600 Private equity managers 2,585,827 1,667,745 3,011,435 1,953,932 Cash equivalents managers - - - 119,383 160,065 Balanced account managers - - 332,318 326,115	Domestic small cap equity managers	-	16,233	-	(352,236)
Domestic fixed income managers 680,670 749,012 5,765,868 6,550,173 Below investment grade fixed income managers 1,681,382 1,986,029 2,544,213 2,782,655 Diversified real assets managers - - 3,813,479 3,989,293 Real estate managers 594,427 829,250 866,687 1,174,455 Infrastructure managers 1,379,223 1,380,280 1,798,221 1,811,371 Timber managers 358,278 380,628 435,437 462,600 Private equity managers 2,585,827 1,667,745 3,011,435 1,953,932 Cash equivalents managers - - 119,383 160,065 Balanced account managers - - 332,318 326,115	International equity managers	207,075	240,154	1,777,070	1,664,052
Below investment grade fixed income managers 1,681,382 1,986,029 2,544,213 2,782,655 Diversified real assets managers - - 3,813,479 3,989,293 Real estate managers 594,427 829,250 866,687 1,174,455 Infrastructure managers 1,379,223 1,380,280 1,798,221 1,811,371 Timber managers 358,278 380,628 435,437 462,600 Private equity managers 2,585,827 1,667,745 3,011,435 1,953,932 Cash equivalents managers - - 119,383 160,065 Balanced account managers - - 332,318 326,115	Emerging markets equity managers	417,764	607,541	701,047	987,011
Diversified real assets managers - - 3,813,479 3,989,293 Real estate managers 594,427 829,250 866,687 1,174,455 Infrastructure managers 1,379,223 1,380,280 1,798,221 1,811,371 Timber managers 358,278 380,628 435,437 462,600 Private equity managers 2,585,827 1,667,745 3,011,435 1,953,932 Cash equivalents managers - - 119,383 160,065 Balanced account managers - - 332,318 326,115	Domestic fixed income managers	680,670	749,012	5,765,868	6,550,173
Real estate managers 594,427 829,250 866,687 1,174,455 Infrastructure managers 1,379,223 1,380,280 1,798,221 1,811,371 Timber managers 358,278 380,628 435,437 462,600 Private equity managers 2,585,827 1,667,745 3,011,435 1,953,932 Cash equivalents managers - - 119,383 160,065 Balanced account managers - - 332,318 326,115	Below investment grade fixed income managers	1,681,382	1,986,029	2,544,213	2,782,655
Infrastructure managers 1,379,223 1,380,280 1,798,221 1,811,371 Timber managers 358,278 380,628 435,437 462,600 Private equity managers 2,585,827 1,667,745 3,011,435 1,953,932 Cash equivalents managers - - 119,383 160,065 Balanced account managers - - 332,318 326,115	Diversified real assets managers	-	-	3,813,479	3,989,293
Timber managers 358,278 380,628 435,437 462,600 Private equity managers 2,585,827 1,667,745 3,011,435 1,953,932 Cash equivalents managers - - - 119,383 160,065 Balanced account managers - - 332,318 326,115	Real estate managers	594,427	829,250	866,687	1,174,455
Private equity managers 2,585,827 1,667,745 3,011,435 1,953,932 Cash equivalents managers - - 119,383 160,065 Balanced account managers - - 332,318 326,115	Infrastructure managers	1,379,223	1,380,280	1,798,221	1,811,371
Cash equivalents managers - - 119,383 160,065 Balanced account managers - - 332,318 326,115	Timber managers	358,278	380,628	435,437	462,600
Balanced account managers 332,318 326,115	Private equity managers	2,585,827	1,667,745	3,011,435	1,953,932
Balanced account managers 332,318 326,115	Cash equivalents managers	-	-	119,383	160,065
<u> </u>	-			332,318	326,115
	Investment expenses per schedule	\$14,684,455	\$ 14,142,889		

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INVESTMENT SECTION



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December 1, 2020

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, 2020.

Introduction

For the fiscal year ended June 30, 2020, the \$6.0 billion North Dakota pension investment pool portfolio experienced a net total return of 3.42%. The insurance investment pool, valued at \$3.0 billion on June 30, 2020, returned 5.00% (net), during the same time frame. The Legacy Fund, valued at \$7.0 billion the last day of the fiscal year returned 4.23% (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 \$596.6 million during the fiscal year ended June 30, 2020. 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, 23 basis points for the insurance pool, and 37 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, 2020, as measured by standard deviation has been 10.07% for the pension pool, 5.36% for the insurance pool and 10.47% 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, 2020

Accommodative global central banking policy propelled financial markets in the first half of the 2020 fiscal year. In the U.S., the Federal Reserve lowered the federal funds target rate by 25 basis points (bps) in each of three meetings during FY2020: July, September, and October. The European Central Bank lowered the deposit rate by ten bps in

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September and announced that its quantitative easing program would resume in the fourth calendar quarter of 2019. U.S. Treasury yields fell in the first half of the fiscal year. However, Treasuries lagged the broader bond market, with the riskier corporate and high yield segments of fixed income outperforming. The 10-year U.S. Treasury yield briefly dipped below the two-year yield in August, which raised investors' concerns as a potential indication of impending recession.

Despite the omen, the overall U.S. economic landscape remained resilient with unemployment dropping to 3.5% in December and GDP growing by 2.1% annualized in the fourth calendar quarter of 2019. Trade relations between the U.S. and China also improved in the first half of the fiscal year, with the two nations announcing a phase one trade deal. Domestically, however, the political situation became less stable with Congress launching an official impeachment inquiry into President Trump.

The global economic and political landscapes changed in the third fiscal quarter as people sheltered in place to slow the spread of COVID-19. The S&P 500 Index reached a record high in February 2020 and then declined precipitously, dropping over 30%. The pandemic-induced decline marked the fastest 20% decline (the threshold rate for a bear market) in the history of the index. As the virus spread outside of China, governments around the world closed non-essential businesses and encouraged social distancing procedures. These preventative measures resulted in significantly slowed economic activity and widespread unemployment. The U.S. unemployment rate peaked in April 2020 at 14.7%, the highest measure on record since the Bureau of Labor Statistics started tracking seasonally adjusted data in 1948.

In response to the pandemic, governments stepped in to provide relief through fiscal stimulus packages aimed at providing economic support to both individuals and businesses. Central banks infused liquidity into financial markets by cutting interest rates and expanding asset purchase programs. This support bolstered financial markets and led the S&P 500 index to its strongest quarterly performance since 1998, a 20.5% return in the fourth fiscal quarter of 2020. Developed and emerging market equity indices also participated in the recovery, posting returns just shy of 20% in the fourth fiscal quarter ended June 30, 2020. High yield bond and emerging market debt markets were up over 10% in the same quarter. After falling 65% in the third fiscal quarter, West Texas Intermediate (WTI) Crude prices doubled in the fourth quarter, closing the fiscal year near \$40 a barrel.

U.S. GDP dropped significantly at the end of the 2020 fiscal year. After falling at a 5% annualized rate in the third fiscal quarter, GDP declined 31.4% annualized in the final quarter. By comparison, the European Union experienced a 54% annualized contraction in GDP in the fourth fiscal quarter.

Domestic Equity

U.S. equities generated positive returns in the fiscal year ended June 30, 2020. Several of the same themes from the 2019 fiscal year persisted into 2020, with large capitalization stocks outperforming small caps, and the growth style outpacing value. The S&P 1500, a broad market indicator for the U.S. stock market, appreciated 6.08% in the fiscal year. Despite the overall strength of the asset class, there was significant disparity among size and style. The large cap index (S&P 500) grew by 7.51% over the period while the small cap index (S&P 600) declined by 11.29%. Similarly, the Russell 3000 Growth Index surged 21.94%, while the Russell 3000 Value Index fell by 9.42%.

International Equity

Developed international equities, as represented by the MSCI EAFE Index, produced a loss of 5.13% in the 2020 fiscal year. As with U.S. equities, international growth significantly outperformed value. The MSCI EAFE Growth Index climbed 4.15%, while the MSCI EAFE Value Index declined by 14.48%. Emerging market equities, as measured by the MSCI EM Index, fell by 3.39% during the fiscal year, marginally outpacing their developed market counterparts.

Private Equity

Private equity remained an attractive asset class in the 2020 fiscal year with institutional investors placing significant capital into new programs. According to Pitchbook, 1,440 new partnerships were formed raising \$749 billion in

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commitments during the 12-month period. This was a higher total dollar amount invested in the asset class when compared to fiscal year 2019. Due to the nature of private equity performance measurement, benchmark comparisons of fund performance are inherently imprecise.

Domestic Fixed Income

Due to falling interest rates, the U.S. fixed income market notched another impressive fiscal year performance. The Bloomberg Aggregate Bond Index rose 8.74%, outpacing U.S. equities during the 2020 fiscal year period. Interest rates, broadly, declined throughout the year. The U.S. Federal Reserve was particularly active, lowering the Federal Funds Target Rate by a total of 2.25% throughout the 2020 fiscal year, down to the historic lower bound of 0.0% to 0.25%. The 10-year Treasury yield dropped 1.34 percentage points during the 12-month period to end the fiscal year at 0.66%. The declining rate environment, coupled with pandemic-induced risk aversion in the third fiscal quarter propelled the Bloomberg Government Long Index 25.14% higher during the 12-month period. Similarly, the higher risk Bloomberg Corporate High Yield Index lagged the Bloomberg Credit Index during the period, with the indices gaining 0.03% and 9.07% respectively.

International Fixed Income

As in the U.S., developed international fixed income markets outperformed their equity counterparts in the 2020 fiscal year. The FTSE Non-U.S. World Government Hedged Bond Index appreciated 4.33% during the 12-month period, while the unhedged index underperformed with a 0.86% return. European sovereign debt started the fiscal year with three consecutive quarters of negative performance before rebounding to end the fiscal year in positive territory. The FTSE Euro Government Bond Index produced a gain of 1.39% for the 2020 fiscal year, after climbing 4% in the fourth quarter. Emerging market debt generally performed in line with non-U.S. developed markets in 2020 after an outstanding 2019 fiscal year. The JP Morgan Emerging Markets Bond Index Plus produced a 1.23% return over the trailing 12-month period ended June 30, 2020.

Real Estate

The NCREIF Property Index, a measure of the domestic direct private real estate market, appreciated 2.69% during the 2020 fiscal year. The index declined 0.99% in the fourth fiscal quarter, marking an end to the 41-quarter consecutive streak of positive performance. The FTSE NAREIT Equity Index, a measure of the public real estate securities market, declined 13.04% in fiscal year 2020. Being publicly-traded securities, Real Estate Investment Trusts tend to demonstrate higher correlations to public equities over shorter time periods as compared to private real estate. In the third fiscal quarter, the FTSE NAREIT Equity Index fell by over 27%, while the NCREIF Property Index increased by 0.71%.

Timber

The market value of the NCREIF Timberland Property Index declined in the 2020 fiscal year, despite adding acreage. This reflects an overall decline in the market value per acre. As of June 30, 2020, the total market value of the NCREIF Timberland Property Index was \$23.4 billion, representing 13.2 million acres of timberland. During the period the NCREIF Timberland Property Index rose marginally, returning 0.34%. The income component of return continued to drive performance, as price appreciation detracted. The largest regional component of the index remains the South by a significant margin. The South region boasts 8.5 million acres valued at \$15.4 billion. From a performance perspective, the South and the Lake States contributed positively, while the Northwest and Northeast both detracted from index returns.

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,

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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 -8.02% over the 12-month period ended June 30, 2020.

Summary

Investment results were highly volatile and mixed in fiscal 2020 with exceptional returns in U.S. large cap growth equities and long-term U.S. treasuries (up 22% to 25%), strong returns in U.S. core fixed income (up 8% to 9%), muted results within private real assets (up 3% to 5%) and disappointing returns for U.S. small cap and international equities (down 0% to 8%). With respect to relative performance, the pension pool exceeded its policy benchmark, while the Legacy Fund and insurance pool trailed their respective policy benchmarks for the year. Performance was negatively impacted by international, small cap and value tilts within public equities, whereas our U.S. core fixed income and real asset exposures generally enhanced total fund performance.

Although this past year's investment performance did not meet our long-term expectations, the North Dakota State Investment Board and staff take a long-term perspective in its asset allocation and investment decisions, and performance evaluation. Over the five years ended June 30, 2020, the pension and insurance pools and Legacy Fund generated net investment returns of 6.2%, 5.5%, and 5.9%, respectively; over the past ten years, the pension and insurance pools earned net investment returns of 8.4% and 6.0%, 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 8% to 14%) 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 8%) and U.S. fixed income (up 5%) 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 the strong recovery in the capital markets following the sharp market sell-off triggered by the global pandemic and continuing uncertainty with the development of an effective COVID-19 vaccine. 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, 2020

		Rates of Return (net of fees)										
	Fair Value		For Fisca	al Year E	nded 6/30			Annualized				
		2020	2019	2018	2017	2016	3 Years	5 Years	10 Years	20 Years	30 Years	
Total Assets Under Management	\$16,285,107,725											
<u>BENCHMARKS</u>												
S&P 500		7.51%	10.42%	14.37%	17.90%	3.99%	10.73%	10.73%	13.99%	5.91%	9.74%	
Bloomberg Aggregate		8.74%	7.87%	-0.40%	-0.31%	6.00%	5.32%	4.30%	3.82%	5.14%	6.02%	
90 Day T-Bills		1.63%	2.31%	1.36%	0.49%	0.19%	1.77%	1.19%	0.64%	1.66%	2.76%	
Callan Public Plan Sponsors Database (Media	an-GROSS of Fees)**	3.26%	6.08%	8.29%	12.36%	0.88%	5.81%	6.02%	8.09%	5.81%	8.09%	

		0/ 6				Rates	of Retu	n (net of	fees)			
	Fair Value	% of Pool -		For Fisca	l Year E	nded 6/30			A	nnualize	d	
PENSION POOL PARTICIPANTS		1 001	2020	2019	2018	2017	2016	3 Years	5 Years	10 Years	20 Years	30 Years
Teachers' Fund for Retirement	\$2,612,716,511	43.2%	3.45%	5.54%	9.11%	12.92%	0.28%	6.01%	6.17%	8.53%	5.28%	7.53%
Policy Benchmark			3.19%	6.35%	7.90%	11.63%	0.61%	5.80%	5.87%	7.90%	5.33%	7.60%
Public Employees Retirement System	3,212,113,498	53.1%	3.41%	5.52%	9.19%	13.05%	0.28%	6.01%	6.20%	8.38%	5.70%	7.70%
Policy Benchmark			3.21%	6.40%	7.82%	11.88%	0.56%	5.79%	5.90%	7.93%	5.75%	7.84%
Bismarck City Employee Pension Fund	\$106,946,867	1.8%	3.75%	5.94%	7.86%	11.56%	0.82%	5.84%	5.92%	8.09%	5.72%	7.96%
Policy Benchmark			3.73%	6.33%	6.64%	9.97%	1.37%	5.56%	5.57%	7.45%	5.44%	*
Bismarck City Police Pension Fund	\$42,552,004	0.7%	3.41%	5.76%	8.36%	12.24%	0.32%	5.83%	5.94%	8.25%	5.59%	7.86%
Policy Benchmark			3.28%	6.14%	7.20%	10.98%	0.76%	5.53%	5.61%	7.69%	5.43%	*
City of Grand Forks Pension Fund	\$67,458,580	1.1%	4.02%	6.17%	9.46%	12.84%	0.11%	6.53%	6.43%	8.72%	*	*
Policy Benchmark			3.61%	6.51%	8.38%	12.07%	0.55%	6.15%	6.15%	8.24%		
Grand Forks Park District Pension Fund	\$7,406,214	0.1%	3.78%	6.02%	9.33%	12.74%	0.36%	6.35%	6.36%	8.72%	*	*
Policy Benchmark			3.56%	6.65%	8.02%	11.82%	0.51%	6.06%	6.04%	8.27%		
Subtotal Pension Pool Participants	\$6,049,193,674	100.0%										

		Rates of Return (net of fees)									
	Fair Value		For Fisca	ıl Year E	nded 6/30			A	Annualiz	ed	
INDIVIDUAL INVESTMENT ACCOUNTS		2020	2019	2018	2017	2016	3 Years	5 Years	10 Years	20 Years	30 Years
Legacy Fund	\$6,999,783,268	4.23%	4.98%	7.57%	12.03%	1.06%	5.58%	5.91%	*	*	*
Policy Benchmark		4.38%	6.12%	6.50%	9.90%	1.03%	5.66%	5.55%			
Retiree Health Insurance Credit Fund	144,237,322	4.98%	6.51%	7.15%	11.81%	0.72%	6.21%	6.18%	8.59%	5.01%	7.24%
Policy Benchmark		5.25%	6.89%	7.18%	11.32%	1.60%	6.44%	6.40%	8.59%	5.54%	7.54%
Job Service of North Dakota Pension Fund	95,338,533	2.82%	6.86%	3.15%	5.63%	5.45%	4.26%	4.77%	7.10%	5.33%	*
Policy Benchmark		5.04%	6.74%	4.16%	7.85%	2.20%	5.31%	5.18%	6.75%	4.88%	
Tobacco Prevention and Control Trust Fund	7,589,354	3.69%	4.47%	1.63%	1.66%	*	3.26%	*	*	*	*
Policy Benchmark		3.74%	4.38%	1.68%	1.67%		3.26%				

INVESTMENT PERFORMANCE SUMMARY JUNE 30, 2020

		0/ C				Rates	of Retur	rn (net of	fees)			
	Fair Value	% of Pool		For Fisca	l Year E	nded 6/30			Α	nnualize	ed	
INSURANCE POOL PARTICIPANTS			2020	2019	2018	2017	2016				20 Years	30 Years
Workforce Safety & Insurance Fund	\$2,125,881,223	71.1%	6.00%	6.87%	5.34%	8.29%	3.58%	6.07%	6.00%	7.23%	5.57%	7.35%
Policy Benchmark			6.62%	7.05%	3.77%	5.20%	3.41%	5.81%	5.20%	5.95%	5.31%	*
State Fire and Tornado Fund	22,825,556	0.8%	4.97%	6.41%	5.32%	9.30%	2.67%	5.56%	5.71%	7.40%	5.55%	6.71%
Policy Benchmark			5.96%	6.76%	4.35%	6.48%	2.58%	5.69%	5.22%	6.18%	5.09%	*
State Bonding Fund	3,787,526	0.1%	4.95%	5.83%	1.07%	2.40%	3.48%	3.93%	3.53%	3.62%	3.16%	5.13%
Policy Benchmark			5.50%	5.35%	0.41%	0.07%	3.35%	3.73%	2.91%	2.39%	2.48%	*
Petroleum Tank Release Compensation Fund	6,165,425	0.2%	4.55%	5.47%	1.13%	2.23%	3.17%	3.70%	3.30%	3.35%	2.85%	*
Policy Benchmark	-,, -		5.15%	5.07%	0.50%	0.09%	3.07%	3.55%	2.75%	2.23%	2.40%	
Insurance Regulatory Trust Fund	5,714,620	0.2%	6.11%	5.03%	4.53%	7.40%	1.46%	5.22%	4.89%	5.88%	4.74%	5.82%
Policy Benchmark	3,711,020	0.270	4.38%	5.37%	4.05%	5.69%	1.39%	4.60%	4.16%	4.88%	4.12%	*
State Risk Management Fund	4,561,174	0.2%	5.88%	7.67%	5.14%	8.27%	4.46%	6.22%	6.27%	7.95%	5.75%	*
Policy Benchmark	4,501,174	0.270	7.55%	7.67%	4.27%	5.47%	4.25%	6.48%	5.83%	6.65%	5.31%	·
-	5.116.210	0.20/									*	*
State Risk Management Workers Comp Policy Benchmark	5,116,218	0.2%	5.73% 7.42%	7.56% 7.75%	6.03% 5.32%	9.41% 6.83%	4.21% 4.01%	6.44% 6.82%	6.57% 6.26%	8.57% 7.38%	*	ጥ
•												
Cultural Endowment Fund	493,401	0.0%	3.91%	6.02%	8.27%	12.71%	2.18%	6.05%	6.56%	9.51%	*	*
Policy Benchmark			5.28%	6.91%	7.75%	10.79%	2.13%	6.64%	6.53%	8.59%		
Budget Stabilization Fund	727,275,064	24.3%	2.35%	4.51%	0.32%	0.80%	1.82%	2.38%	1.95%	2.12%	*	*
Policy Benchmark			4.17%	4.23%	0.24%	0.37%	1.51%	2.86%	2.09%	1.25%		
ND Assoc. of Counties (NDACo) Fund	6,693,192	0.2%	5.67%	7.12%	4.48%	8.30%	2.76%	5.75%	5.65%	7.06%	4.87%	*
Policy Benchmark			6.63%	7.32%	3.71%	5.51%	2.68%	5.87%	5.15%	5.86%	4.53%	
City of Bismarck Deferred Sick Leave	770,793	0.0%	5.43%	6.90%	4.66%	8.85%	3.26%	5.66%	5.80%	7.32%	5.77%	*
Policy Benchmark			6.50%	7.06%	3.50%	5.45%	3.14%	5.68%	5.12%	5.86%	5.20%	
PERS Group Insurance	31,495,987	1.1%	2.35%	4.20%	0.41%	0.08%	1.49%	2.31%	1.70%	0.93%	1.87%	*
Policy Benchmark			4.02%	3.97%	0.33%	0.37%	1.56%	2.76%	2.04%	*	*	
State Board of Medicine	2,470,789	0.1%	5.54%	4.98%	3.12%	5.29%	1.63%	4.54%	4.10%	*	*	*
Policy Benchmark	2,170,709	0.170	5.64%	5.22%	2.80%	4.05%	1.33%	4.54%	3.79%			
City of Fargo FargoDome Permanent Fund	43,550,868	1.5%	3.78%	5.13%	7.64%	12.25%	1.19%	5.51%	5.93%	8.39%	*	*
Policy Benchmark	45,550,608	1.570	4.74%	6.07%	6.55%	9.73%	1.04%	5.78%	5.59%	7.45%		·
	702.000	0.00/			*	*	*	*	*	*	*	*
Lewis & Clark Interpretive Center Endowment Policy Benchmark	793,808	0.0%	5.70% 6.36%	6.99% 7.15%	**	-10	2,	4	*	4	*	7,5
Attorney General Settlement Fund	1,057,148	0.0%	*	*	*	*	*	*	*	*	*	*
Policy Benchmark												
Veterans' Cemetery Trust Fund	312,782	0.0%	*	*	*	*	*	*	*	*	*	*
Policy Benchmark												
Subtotal Insurance Pool Participants	\$2,988,965,574	100.0%										

^{*}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.

^{**} Callan median returns are gross of fees due to lack of reporting to the database on a net of fee basis. Please note that all actual fund returns are net of fees.

SCHEDULE OF INVESTMENT CONSULTANTS AND RESULTS FOR PERIODS ENDED JUNE 30, 2020 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			\$6,049,193,674	3.42%	6.01%	6.18%
Policy Target (1)				3.23%	5.81%	5.90%
TOTAL GLOBAL EQUITY			3,467,377,011	1.28%	5.93%	6.30%
Composite Benchmark (1)				1.73%	6.11%	6.41%
TOTAL PUBLIC EQUITY			3,177,016,975	1.23%	*	*
Composite Benchmark (1)				1.19%	*	*
TOTAL WORLD EQUITY			880,741,008	-7.16%	1.88%	3.40%
MSCI World Index				2.84%	6.70%	6.90%
Epoch Investment Partners, Inc.	Core	01/2012	435,815,791	-3.92%	5.41%	5.07%
LSV Asset Management	Core Value	03/2013	444,925,217	-10.13%	-1.04%	1.95%
TOTAL DOMESTIC EQUITY			1,409,632,592	8.72%	11.08%	10.33%
Composite Benchmark (1)				4.13%	8.64%	9.08%
TOTAL DOMESTIC LARGE CAP EQUITY			1,115,486,035	12.90%	12.97%	11.86%
Russell 1000 Index				7.48%	10.64%	10.47%
Parametric Portfolio Associates	Enhanced S&P 500	06/2011	244,570,657	7.67%	10.49%	10.68%
Los Angeles Capital Management	Structured Growth	08/2003	467,547,673	22.23%	17.80%	14.69%
Los Angeles Capital Management	Enhanced Russell 1000	08/2000	207,524,148	8.20%	10.46%	10.51%
Northern Trust Asset Management	Enhanced S&P 500	08/2000	195,843,557	3.12%	7.91%	8.30%
TOTAL DOMESTIC SMALL CAP EQUITY			294,146,557	-4.57%	4.98%	5.25%
Russell 2000 Index				-6.63%	2.01%	4.29%
Atlanta Capital Investment Managers	High Quality	04/2016	144,383,507	-3.25%	7.74%	*
Parametric Portfolio Associates	Enhanced Russell 2000	11/2009	149,763,050	-5.93%	2.09%	4.51%
TOTAL INTERNATIONAL EQUITY			886,643,375	-0.20%	3.02%	4.05%
Composite Benchmark (1)				-4.91%	1.12%	2.21%
TOTAL DEVELOPED INTERNATIONAL EQUITY			688,332,380	-0.64%	2.81%	3.90%
Benchmark (2)			, ,	-5.42%	0.84%	1.94%
William Blair Investment Management	Growth-oriented	06/2016	217,602,223	8.28%	9.55%	*
Dimensional Fund Advisors	Small Cap Value	11/2007	62,992,993	-11.98%	-6.38%	-0.84%
Northern Trust Asset Management	Core	12/2013	337,303,083	-4.97%	1.20%	2.37%
Wellington Trust Company, NA	Small Cap Growth	03/2002	70,434,081	-4.08%	-1.34%	3.03%
TOTAL EMERGING MARKETS EQUITY			198,310,995	1.41%	3.67%	4.21%
MSCI Emerging Markets Index				-3.39%	1.90%	2.86%
Axiom International Investors	Core	07/2014	149,376,771	5.45%	5.65%	*
Dimensional Fund Advisors	Small Cap	10/2005	48,934,224	-9.26%	-1.88%	1.27%

SCHEDULE OF INVESTMENT CONSULTANTS AND RESULTS FOR PERIODS ENDED JUNE 30, 2020 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			290,360,036	3.05%	5.61%	3.97%
Adams St. Partners (1998 Fund)	Diversified Private Equity	01/1998	13,780	1.93%	3.44%	2.85%
Adams St. Partners (1999 Fund)	Diversified Private Equity	01/1999	125,843	5.34%	-0.20%	2.12%
Adams St. Partners (2000 Fund)	Diversified Private Equity	10/1999	341,344	-3.14%	6.31%	3.98%
Adams St. Partners (2001 Fund)	Diversified Private Equity	12/2000	524,840	-6.33%	0.64%	-0.28%
Adams St. Partners (2002 Fund)	Diversified Private Equity	03/2002	140,200	1.24%	-2.44%	3.97%
Adams St. Partners (2003 Fund)	Diversified Private Equity	04/2003	153,971	-5.59%	4.49%	4.38%
Adams St. Partners (1999 Non-U.S. Fund)	Diversified Private Equity	01/1999	73,046	1.39%	1.61%	3.87%
Adams St. Partners (2000 Non-U.S. Fund)	Diversified Private Equity	01/2000	373,005	4.28%	7.59%	5.39%
Adams St. Partners (2001 Non-U.S. Fund)	Diversified Private Equity	02/2001	97,263	3.48%	8.20%	8.36%
Adams St. Partners (2002 Non-U.S. Fund)	Diversified Private Equity	05/2002	89,932	-0.06%	1.07%	4.83%
Adams St. Partners (2003 Non-U.S. Fund)	Diversified Private Equity	04/2003	163,673	-7.80%	-6.25%	4.25%
Adams St. Partners (2004 Non-U.S. Fund)	Diversified Private Equity	04/2004	179,804	-2.73%	4.13%	2.54%
Adams St. Partners (2008 Non-U.S. Fund)	Diversified Private Equity	01/2008	6,267,946	7.45%	13.85%	13.80%
Adams St. Partners (2010 Direct Fund)	Direct Private Equity	04/2010	749,550	-0.97%	10.85%	10.40%
Adams St. Partners (2010 Non-U.S. Developed)	Diversified Private Equity	04/2010	2,554,295	11.49%	16.79%	16.26%
Adams St. Partners (2010 Partnership Fund)	Diversified Private Equity	04/2010	5,480,119	10.85%	15.51%	13.51%
Adams St. Partners (2010 Emerging Mkts Fund)	Diversified Private Equity	01/2011	1,810,806	8.03%	13.32%	12.11%
Adams St. Partners (2015 Global Fund)	Diversified Private Equity	10/2015	28,794,433	16.99%	17.37%	*
Adams St. Partners (2016 Global Fund)	Diversified Private Equity	12/2016	21,664,628	11.93%	12.05%	*
Adams St. Partners (2017 Global Fund)	Diversified Private Equity	10/2017	39,202,809	11.40%	*	*
Adams St. Partners (2018 Global Fund)	Diversified Private Equity	10/2018	22,960,544	18.93%	*	*
Adams St. Partners (2019 Global Fund)	Diversified Private Equity	10/2019	6,280,758	*	*	*
Adams St. Partners (B.V.C.F. IV)	Diversified Private Equity	05/1999	3,813	-99.89%	-89.63%	-74.02%
Adams St. Partners (Direct Co-Investment)	Direct Private Equity	09/2006	258,712	-43.85%	-31.42%	-19.69%
Blackrock Private Equity Partners	Diversified Private Equity	01/2017	96,840,342	1.34%	4.47%	*
Capital International (Fund V)	EM Private Equity	08/2007	635,957	-22.49%	-36.79%	-37.54%
Capital International (Fund VI)	EM Private Equity	12/2011	27,734,534	17.60%	10.40%	8.29%
EIG Energy Partners	Mezz Debt - Energy	07/2007	2,296,133	-47.54%	-21.88%	-29.58%
Corsair Capital (Fund III)	Pvt Eq - Financial Svcs	02/2006	10,283,835	-22.33%	-2.44%	5.90%
Invest America (Lewis and Clark Fund)	Direct Venture Capital	02/2002	1,407,750	23.67%	11.30%	-3.86%
Invest America (L&C Fund II)	Direct Venture Capital	06/2009	5,296,368	18.49%	10.26%	8.64%
Matlin Patterson Global Opportunities Fund II	Distressed Debt	10/2004	1,311,598	10.26%	4.27%	-2.85%
Matlin Patterson Global Opportunities Fund III	Distressed Debt	06/2007	5,113,405	-46.37%	-16.16%	-9.89%
Quantum Energy Partners	Pvt Equity - Energy	01/2007	1,044,161	-24.76%	-43.45%	-25.10%
Quantum Energy Fartners	1 vt Equity - Elicigy	01/2007	1,044,101	-24.7070	-43.4370	-23.1070
TOTAL GLOBAL FIXED INCOME			1,417,572,177	7.22%	6.17%	5.59%
Composite Benchmark (1)				6.23%	4.76%	4.42%
TOTAL INVESTMENT GRADE FIXED INCOME			995,750,226	9.68%	6.41%	5.57%
Bloomberg Aggregate Index				8.74%	5.32%	4.30%
Manulife Asset Management	Securitized	04/2012	123,598,970	3.19%	4.32%	4.11%
PIMCO	Distressed Sr. Debt	10/2012	107,101,267	2.93%	6.24%	7.95%
PIMCO	Core Constrained	03/2012	332,401,855	9.07%	6.20%	5.32%
Prudential Global Investment Management	Core	03/2018	333,892,944	8.49%	*	*
State Street Global Advisors	Passive Blm Long Treasury	06/2013	98,755,190	25.50%	12.05%	9.24%

SCHEDULE OF INVESTMENT CONSULTANTS AND RESULTS FOR PERIODS ENDED JUNE 30, 2020 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		421,821,951	0.98%	4.35%	5.17%
Bloomberg High Yield Corp 2% Issuer Cap				0.00%	3.32%	4.79%
Ares Management	Private Credit	07/2017	117,100,737	1.72%	*	*
Cerberus Capital Management	Private Credit	11/2017	121,605,406	8.93%	*	*
Goldman Sachs	Mezzanine Debt-2006	04/2006	65,384	6.28%	8.65%	16.12%
Goldman Sachs	Mezzanine Debt-Fund V	11/2007	163,777	25.90%	25.98%	10.47%
Loomis Sayles & Company	High Yield Bonds	04/2004	164,970,415	-1.28%	2.62%	3.91%
PIMCO	Res. & Comm. Debt	10/2013	17,916,232	-18.00%	-3.59%	1.69%
TOTAL GLOBAL REAL ASSETS			1,120,133,388	3.35%	5.01%	5.77%
Composite Benchmark (1)				2.07%	4.27%	4.77%
TOTAL GLOBAL REAL ESTATE			659,447,088	2.20%	5.28%	7.22%
NCREIF Total Index			009,117,000	2.69%	5.44%	6.77%
INVESCO Realty Advisors	Core Commingled	08/1997	326,681,421	0.98%	5.15%	6.81%
INVESCO Realty Advisors	Core Plus LP (Fund III)	05/2012	3,006,465	27.02%	1.59%	5.98%
INVESCO Realty Advisors	Core Plus LP (Fund IV)	04/2015	34,026,957	5.79%	9.94%	8.49%
INVESCO Realty Advisors	Core Plus LP (Fund V)	02/2019	29,764,070	2.95%	y.y - 70	*
INVESCO Realty Advisors	Asian LP (Fund III)	11/2015	19,583,762	16.93%	35.49%	*
J.P. Morgan Investment Management, Inc.	Core Commingled	10/1987	245,771,588	2.40%	5.11%	6.65%
J.P. Morgan Investment Management, Inc.	European LP	09/2009	612,825	-29.62%	-25.41%	-12.47%
TOTAL OTHER REAL ASSETS			460,686,300	5.03%	*	*
Composite Benchmark (1)				1.28%	*	*
TOTAL TIMBER			125,129,978	6.29%	2.55%	0.38%
NCREIF Timber Index			,,	0.34%	2.28%	2.71%
Timberland Investment Resources - Teredo	Timberland	06/2001	27,726,922	0.16%	1.13%	1.00%
Timberland Investment Resources - Springbank	Timberland	09/2004	97,403,056	8.35%	3.00%	0.22%
TOTAL INFRASTRUCTURE			335,556,322	4.46%	5.65%	5.79%
Benchmark (4)				1.62%	2.87%	2.15%
Grosvenor CIS Fund I	Infrastructure	12/2011	20,559,066	3.38%	4.68%	6.21%
Grosvenor CIS Fund II	Infrastructure	03/2015	18,339,842	5.23%	9.76%	*
The Rohatyn Group (3)	Asian Infrastructure	07/2008	15,420,000	-18.03%	-14.26%	-5.06%
I Squared Capital	Infrastructure	06/2018	43,204,927	6.15%	*	*
J.P. Morgan Investment Management, Inc.	Infrastructure	05/2007	176,109,128	4.62%	7.11%	6.31%
Macquarie Infrastructure Partners Inc.	Infrastructure	11/2019	61,923,359	9.14%	*	*
TOTAL CASH EQUIVALENTS			44,111,098	1.46%	1.73%	1.24%
90 Day T-Bills				1.63%	1.77%	1.19%
Bank of North Dakota	Money Market	09/2016	10,583,282	1.49%	1.72%	*
Northern Trust Asset Management	STIF	07/1994	33,527,816	1.46%	1.71%	1.23%

SCHEDULE OF INVESTMENT CONSULTANTS AND RESULTS FOR PERIODS ENDED JUNE 30, 2020 INSURANCE INVESTMENT POOL

		Date			Annualized Rates of Return Net of Fees		
	Style	Initiated	Fair Value	1 Year	3 Years	5 Years	
TOTAL INSURANCE INVESTMENT POOL			\$ 2,988,965,574	5.00%	5.54%	5.50%	
Policy Target (1)				6.12%	5.47%	4.78%	
TOTAL GLOBAL EQUITY			502,973,949	1.13%	*	*	
Composite Benchmark (1)				0.79%	*	*	
TOTAL DOMESTIC EQUITY Composite Benchmark (1)			323,310,824	3.15% 4.30%	7.57% *	8.30%	
TOTAL DOMESTIC LARGE CAP EQUITY Russell 1000 Index			251,975,203	6.58% 7.48%	9.51% 10.64%	9.67% 10.47%	
Parametric Portfolio Associates	Enhanced S&P 500	11/2008	59,339,650	7.47%	10.49%	10.81%	
Los Angeles Capital Management	Structured Growth	08/2003	82,731,901	22.50%	17.75%	14.60%	
Los Angeles Capital Management	Enhanced Russell 1000	04/2004	51,436,191	8.54%	10.54%	10.55%	
LSV Asset Management	Structured Value	06/1998	58,467,461	-13.20%	-1.35%	2.42%	
TOTAL DOMESTIC SMALL CAP EQUITY Russell 2000 Index			71,335,621	-8.00% -6.63%	0.68% 2.01%	3.49% 4.29%	
Atlanta Capital Investment Managers	High Quality	12/2019	30,716,020	*	*	*	
Parametric Portfolio Associates	Enhanced Russell 2000	11/2008	40,619,601	-5.50%	2.16%	4.55%	
TOTAL INTERNATIONAL EQUITY			179,663,125	-2.50%	1.50%	3.01%	
Benchmark (2)				-5.42%	0.84%	1.94%	
William Blair Investment Management	Growth-oriented	06/2016	87,200,282	8.16%	9.48%	*	
Dimensional Fund Advisors	Small Cap Value	11/2007	17,713,017	-11.98%	-6.38%	-0.84%	
LSV Asset Management	Core	11/2004	58,847,743	-11.98%	-4.24%	-0.33%	
The Vanguard Group	Small Cap Growth	06/2003	15,902,083	-3.97%	-1.87%	2.10%	
TOTAL GLOBAL FIXED INCOME			1,334,281,420	7.90%	6.00%	5.80%	
Bloomberg Aggregate Index				8.74%	5.32%	4.30%	
Manulife Asset Management	Securitized	12/2013	94,660,256	3.19%	4.32%	4.11%	
PIMCO	Distressed Sr. Debt	10/2012	44,416,146	2.93%	6.24%	7.95%	
PIMCO	Res. & Comm. Debt	10/2013	9,153,359	-18.00%	-3.59%	1.69%	
PIMCO	Core Constrained	05/2019	180,688,607	9.23%	*	*	
Prudential Global Investment Management	Core-Plus	08/2006	350,368,246	8.26%	5.93%	5.42%	
State Street Global Advisors	Passive Blmbg Gov't/Credit		191,048,805	10.20%	5.93%	4.77%	
Wells Capital Management	Baa Average Bonds	04/2002	110,665,831	8.70%	6.61%	6.41%	
Western Asset Management Co.	Core Bonds	07/1990	353,280,170	8.34%	5.85%	5.35%	

SCHEDULE OF INVESTMENT CONSULTANTS AND RESULTS FOR PERIODS ENDED JUNE 30, 2020 INSURANCE INVESTMENT POOL (CONTINUED)

		Date	_	Annualized Rates of Ret Net of Fees		Return
	Style	Initiated	Fair Value	1 Year	3 Years	5 Years
TOTAL GLOBAL REAL ASSETS			354,309,612	4.04%	*	*
Composite Benchmark (1)				4.63%	*	*
TOTAL DIVERSIFIED REAL ASSETS			255,745,824	5.29%	5.52%	4.60%
Composite Benchmark (1)				5.42%	4.46%	3.41%
Grosvenor CIS Fund I	Infrastructure	12/2011	10,279,534	3.38%	4.67%	6.21%
J.P. Morgan Investment Management, Inc.	Infrastructure	11/2008	41,585,042	4.63%	7.13%	6.33%
Timberland Investment Resources	Timberland	10/2008	53,071,696	-1.57%	3.75%	3.05%
Western Asset Management Co.	TIPS	05/2004	150,809,552	8.36%	4.77%	3.53%
TOTAL REAL ESTATE			98,563,788	0.93%	4.43%	6.20%
NCREIF Total Index				2.69%	5.44%	6.77%
INVESCO Realty Advisors	Core Commingled	10/2012	51,435,881	1.00%	5.16%	6.82%
J.P. Morgan Investment Management, Inc.	Core Commingled	11/2005	47,127,907	0.87%	3.65%	5.57%
TOTAL CASH EQUIVALENTS			48,294,175	1.37%	1.57%	1.05%
90 Day T-Bills				1.63%	1.77%	1.19%
Bank of North Dakota	Money Market	09/2016	20,259,774	1.49%	1.72%	*
Northern Trust Asset Management	STIF	07/2013	28,034,401	1.26%	1.48%	0.97%
TOTAL SHORT-TERM FIXED INCOME			749,106,418	2.36%	2.39%	1.89%
Benchmark (5)				4.20%	2.87%	1.99%
Barings	Active Short Duration	08/2019	365,982,520	*	*	*
J.P. Morgan Investment Management, Inc.	Short Term Bonds	09/2011	383,123,898	4.97%	3.25%	2.29%

SCHEDULE OF INVESTMENT CONSULTANTS AND RESULTS FOR PERIODS ENDED JUNE 30, 2020 LEGACY FUND

	Date				zed Rates of Net of Fees	Return
	Style	Initiated	Fair Value	1 Year	3 Years	5 Years
TOTAL LEGACY FUND			\$6,999,783,268	4.23%	5.58%	5.91%
Policy Target (1)				4.38%	5.67%	5.55%
TOTAL GLOBAL EQUITY			3,484,502,454	0.70%	*	*
Composite Benchmark (1)				-0.01%	*	*
TOTAL DOMESTIC EQUITY			2,092,662,041	2.55%	7.21%	8.07%
Composite Benchmark (1)				3.65%	*	*
TOTAL DOMESTIC LARGE CAP EQUITY			1,533,532,572	6.36%	9.49%	9.60%
Russell 1000 Index				7.48%	10.64%	10.47%
Parametric Portfolio Associates	Enhanced S&P 500	08/2013	319,593,899	7.10%	10.48%	10.63%
Los Angeles Capital Management	Structured Growth	08/2013	508,714,926	21.73%	17.37%	14.30%
Los Angeles Capital Management	Enhanced Russell 1000	08/2013	347,782,203	8.12%	10.38%	10.29%
LSV Asset Management	Structured Value	08/2013	357,441,544	-12.66%	-0.72%	2.89%
TOTAL DOMESTIC SMALL CAP EQUITY Russell 2000 Index			559,129,469	-7.36% -6.63%	1.07% 2.01%	3.80% 4.29%
Atlanta Capital Investment Managers	High Quality	12/2019	218,667,458	*	*	*
Parametric Portfolio Associates	Enhanced Russell 2000	08/2013	340,462,011	-4.91%	2.70%	4.88%
TOTAL INTERNATIONAL EQUITY			1,391,840,413	-2.09%	1.74%	3.10%
Benchmark (2)				-5.42%	0.84%	1.94%
William Blair Investment Management	Core	08/2013	687,533,032	8.33%	9.57%	*
Dimensional Fund Advisors	Small Cap Value	08/2013	138,300,887	-11.98%	-6.38%	-0.84%
LSV Asset Management	Core	08/2013	426,911,340	-11.92%	-4.12%	-0.24%
The Vanguard Group	Small Cap Growth	08/2013	139,095,154	-3.97%	-1.87%	2.10%
TOTAL GLOBAL FIXED INCOME			2,435,034,594	7.74%	5.89%	5.52%
Bloomberg Aggregate Index				8.74%	5.32%	4.30%
Ares Management	Private Credit	07/2017	78,067,158	1.72%	*	*
Bank of North Dakota - Match Loan CD Program	In-State Investment Prgm	various	88,815,807	2.82%	3.07%	*
Cerberus Capital Management	Private Credit	11/2017	97,001,312	9.05%	*	*
Manulife Asset Management	Securitized	12/2013	195,922,136	3.18%	4.32%	4.10%
PIMCO	Distressed Sr. Debt	12/2013	58,095,457	2.89%	6.23%	6.38%
PIMCO	Res. & Comm. Debt	12/2013	8,762,874	-18.00%	-3.59%	4.68%
Prudential Global Investment Management	Core-Plus	12/2013	694,182,820	8.79%	6.22%	5.74%
State Street Global Advisors	Passive Blmbg Gov't/Credit	12/2013	330,670,203	10.22%	5.94%	4.77%
Wells Capital Management	Baa Average Bonds	12/2013	190,746,412	8.87%	6.60%	6.36%
Western Asset Management Co.	Core Bonds	12/2013	692,770,415	8.77%	5.99%	5.36%

SCHEDULE OF INVESTMENT CONSULTANTS AND RESULTS FOR PERIODS ENDED JUNE 30, 2020 LEGACY FUND (CONTINUED)

		Date		Annualized Rates of Retu Net of Fees		Return
	Style	Initiated	Fair Value	1 Year	3 Years	5 Years
TOTAL GLOBAL REAL ASSETS			1,005,851,529	5.52%	*	*
Composite Benchmark (1)				4.86%	*	*
TOTAL DIVERSIFIED REAL ASSETS			706,045,327	7.64%	5.71%	4.46%
Composite Benchmark (1)				5.93%	4.50%	3.30%
Grosvenor CIS Fund II	Infrastructure	03/2015	45,849,593	5.23%	9.76%	7.70%
I Squared Capital	Infrastructure	06/2018	49,851,839	6.15%	*	*
J.P. Morgan Investment Management, Inc.	Infrastructure	03/2015	111,346,576	4.60%	7.10%	6.30%
Macquarie Infrastructure Partners Inc.	Infrastructure	11/2019	71,450,029	9.14%	*	*
Western Asset Management Co.	TIPS	02/2014	427,547,290	8.36%	4.79%	3.54%
TOTAL REAL ESTATE			299,806,202	0.92%	4.37%	6.18%
NCREIF Total Index				2.69%	5.44%	6.77%
INVESCO Realty Advisors	Core Commingled	08/2013	147,684,309	0.98%	5.15%	6.81%
J.P. Morgan Investment Management, Inc.	Core Commingled	08/2013	152,121,893	0.86%	3.65%	5.57%
TOTAL CASH EQUIVALENTS			74,394,691	1.34%	1.57%	1.05%
90 Day T-Bills				1.63%	1.77%	1.19%
Bank of North Dakota	Money Market	09/2016	23,923,536	1.49%	1.73%	*
Northern Trust Asset Management	STIF	07/2013	50,471,155	1.24%	1.47%	0.97%

OTHER INDIVIDUAL INVESTMENT ACCOUNTS

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	Date _			Annualized Rates of Return Net of Fees		
	Style	Initiated	Fair Value	1 Year	3 Years	5 Years
NDPERS RETIREE HEALTH INSURANCE CRED	OIT FUND					
SEI Investments Management	Balanced Account	07/2009	\$ 144,237,322	4.98%	6.21%	6.18%
Policy Target (1)				5.25%	6.44%	6.40%
JOB SERVICE ND PENSION FUND						
SEI Investments Management	Balanced Account	12/2015	95,338,533	2.82%	4.26%	*
TOTAL JOB SERVICE ND PENSION FUND			\$ 95,338,533	2.82%	4.26%	4.77%
Policy Target (1)				5.04%	5.31%	5.18%
TOBACCO PREVENTION AND CONTROL TRU	JST FUND					
State Street Global Advisors	Short Term Bonds	10/2015	6,477,228	4.02%	1.26%	*
Northern Trust Asset Management	STIF	10/2015	1,112,126	2.15%	1.26%	*
TOTAL TOBACCO PREVENTION AND CONTR	ROL TRUST FUND		\$ 7,589,354	3.69%	3.26%	*
Policy Target (1)				3.74%	3.26%	

^{*} 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 fair 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, 2020

PENSION INVESTMENT POOL

Shares	Stocks]	Fair Value
418,991	Microsoft Corporation	\$	85,268,858
26,478	Amazon Company Incorporated		73,048,036
179,502	Apple Incorporated		65,482,330
136,187	Facebook Incorporated (Class A)		30,923,982
113,701	Amgen Incorporated		26,817,518
18,717	Alphabet Incorporated (Class C)		26,458,538
330,181	Merck & Company Incorporated		25,532,897
116,346	Visa Incorporated (Class A)		22,474,557
61,822	Broadcom Incorporated		19,511,641
162,194	Walmart Incorporated		19,427,597
Par	Bonds	1	Fair Value
23,700,000	FNM A Single Family Mortgages 3% 30 Years Settles September	\$	24,885,939
22,200,000	FNM A Pool 2% Due 07-01-2035		22,977,916
18,000,000	FHLMC 1.5% Due 07-01-2035		18,336,537
17,400,000	FNMA Single Family Mortgages 2.5% 30 Years Settles September		18,073,157
14,000,000	US Treasury Notes 1.875% Due 08-31-2024		14,954,297
12,000,000	US Treasury Bonds 2.5% Due 05-15-2046		14,883,281
13,300,000	GNM A II Jumbos 4.5% 30 Years Settles July		14,205,023
11,700,000	US Treasury Bonds 2.25% Due 08-15-2027		13,141,020
7,000,000	FNMA Single Family Mortgages 2% 30 Years Settles September		7,133,546
8,210,000	US Treasury Security Stripped Interest Payment 05-15-2041		6,142,641

INSURANCE INVESTMENT POOL

Shares	Stocks	F	air Value
26,710	Apple Incorporated	\$	9,743,808
47,070	Microsoft Corporation		9,579,216
2,463	Amazon Company Incorporated		6,794,974
14,419	Facebook Incorporated (Class A)		3,274,122
49,300	Tencent Holdings Limited		3,171,555
114,332	Alibaba Group Holdings LTD		3,091,948
5,774	LVMH Moet Hennessy Louis Vuitton SE		2,532,419
1,784	Alphabet Incorporated (Class C)		2,521,880
1,750	Alphabet Incorporated (Class A)		2,481,588
5,700	Keyence Corporation		2,379,117
Par	Bonds	F	air Value
32,800,000	US Treasury Notes Inflation Indexed 0.125% Due 04-15-2022	\$	35,081,951
21,840,000	US Treasury Bonds 1.375% Due 02-15-2044		32,754,584
12,500,000	US Treasury Notes Inflation Indexed 0.625% Due 01-15-2026		14,603,014
12,600,000	GNM A II Jumbos 4.5% 30 Years Settles July		13,457,391
12,985,000	US Treasury 1.25% Due 10-31-2021		13,171,152
12,750,000	US Treasury Notes 1.625% Due 08-31-2022		13,150,430
12,825,000	US Treasury 1.125% Due 08-31-2021		12,965,273
7,100,000	US Treasury Bonds 2.125% Due 2-15-2041		12,402,522
11,675,000	US Treasury 2.125% Due 09-30-2021		11,957,754
5,200,000	US Treasury Bonds Inflation Indexed 3.875% Due 04-15-2029		11,462,500

LARGEST HOLDINGS (By Fair Value) AT JUNE 30, 2020

LEGACY FUND

Shares	Stocks	I	Fair Value
172,299	Apple Incorporated	\$	62,854,675
302,325	Microsoft Corporation		61,526,161
16,093	Amazon Company Incorporated		44,397,690
388,700	Tencent Holdings Limited		25,005,751
901,088	Alibaba Group Holdings LTD		24,368,655
95,162	Facebook Incorporated (Class A)		21,608,435
45,506	LVMH Moet Hennessy Louis Vuitton SE		19,958,481
44,900	Keyence Corporation		18,740,761
310,368	Taiwan Semiconductor Manufacturing Company		17,619,591
30,491	Lonza Group		16,095,824
Par	Bonds	I	Fair Value
87,900,000	US Treasury Notes Inflation Indexed 0.125% Due 04-15-2022	\$	94,015,351
61,440,000	US Treasury Bonds 1.375% Due 02-15-2044		92,144,764
39,700,000	US Treasury Notes Inflation Indexed 0.625% Due 01-15-2026		46,379,174
20,000,000	US Treasury Bonds 2.125% Due 2-15-2041		34,936,682
15,000,000	US Treasury Bonds Inflation Indexed 3.875% Due 04-15-2029		33,064,904
26,300,000	FHLMC 1.5% Due 07-01-2035		26,791,718
24,000,000	US Treasury Notes 1.875% Due 08-31-2024		25,635,937
22,800,000	US Treasury Notes 0.5% Due 04-15-2024		24,359,527
15,810,000	US Treasury Bonds 3.125% Due 02-15-2043		21,436,137
18,000,000	US Treasury Inflation Indexed Notes 0.125% Due 01-15-2023		20,480,454

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, 2020 INVESTMENT POOLS

	Pension Investment Pool			Insurance Investment Pool						
	Assets under			Assets under						
		management			Basis	r	nanagement			Basis
		(Average)		Fees	points		(Average)		Fees	points
Investment manager fees:										
Global equity managers	\$	907,110,683	\$	3,221,751	36					
Domestic large cap equity managers		1,007,920,263		1,630,682	16	\$	238,881,769	\$	491,391	21
Domestic small cap equity managers		290,206,669		1,421,298	49		66,367,268		208,860	31
Developed international equity managers		678,125,915		1,921,892	28		170,638,679		693,484	41
Emerging markets equity managers		202,022,333		2,059,697	102					
Private equity managers		266,296,296		5,597,263	210					
Investment grade fixed income managers		994,668,429		2,542,662	26		1,313,649,654		2,211,858	17
Diversified real asset managers							252,138,158		1,004,622	40
Below investment grade fixed income managers		413,381,940		5,064,392	123					
Real estate managers		667,488,098		4,986,799	75		100,215,311		470,889	47
Timber managers		126,940,051		793,715	63					
Infrastructure managers		326,381,318		4,267,173	131					
Cash & equivalents managers		41,117,755		41,047	10		43,731,260		45,255	10
Short term fixed income managers		, ,,,,,,		,-			713,412,660		742,262	10
Total investment manager fees	\$	5,921,659,750		33,548,371	57	\$	2,899,034,759		5,868,621	20
Custodian fees				532,836	1				283,844	1
Investment consultant fees				248,084	0				101,988	0
SIB Service Fees				28,215	0				14,381	0
Total investment expenses			\$	34,357,506	58			\$	6,268,834	22
Reconciliation of Investment Expenses to Financial										
Investment expenses as reflected in the financial stat	emen	ts	\$	15,345,446				\$	4,839,486	
Plus investment management fees included in invest	ment	income (net incom	ne)							
Domestic large cap equity managers				594,265					154,661	
Developed international equity managers				459,172					180,148	
Emerging markets equity managers				1,118,811						
Private equity managers				5,597,262						
Investment grade fixed income managers				1,584,682					471,663	
Diversified real assets managers									577,621	
Below investment grade fixed income managers				4,225,595					, .	
Real estate managers				1,461,114						
Timber managers				793,715						
Infrastructure managers				3,177,444						
Cash & equivalents managers				J,177, 111					45,255	
			Φ.	24.255.50				_		
Investment expenses per schedule			\$	34,357,506]		\$	6,268,834	

Total basis points of individual plans participating in the pools vary depending upon their asset allocation.

Columns may not foot due to rounding.

SCHEDULE OF INVESTMENT FEES FOR THE FISCAL YEAR ENDED JUNE 30, 2020 INDIVIDUAL INVESTMENT ACCOUNTS

	Legacy Fund			PERS Retiree Health Credit Fund Job Service of ND Pension Fund			Tobacco Prevention and Control Fund		
	Assets under	5		Assets under			Assets under		
	management		Basis	management		Basis	management		Basis
	(Average)	Fees	points	(Average)	Fees	points	(Average)	Fees	points
Investment manager fees:		_							
Domestic large cap equity managers	\$1,413,507,594	\$ 2,673,659	19						
Domestic small cap equity managers	499,707,561	2,064,044	41						
Developed international equity managers	1,277,334,864	5,160,352	40						
Investment grade fixed income managers	2,357,182,137	7,071,409	30						
Diversified real asset managers	684,910,595	4,408,614	64						
Real estate managers	300,775,136	1,435,742	48						
Cash & equivalents managers	62,093,357	71,072	11				\$ 1,222,570	\$3,056	25
Short term fixed income managers							7,253,173	1,056	1
Balanced account manager - PERS Retiree	Health			\$ 137,866,352	\$ 591,530	43			
Balanced account manager - Job Service Pe	ension			95,650,702	430,832	45			•
Total investment manager fees	\$6,595,511,244	22,884,892	35	\$ 233,517,054	1,022,362	44	\$ 8,475,743	4,112	5
Custodian fees		596,179	1		18,815	1		2,200	3
Investment consultant fees		246,200	0		-	0		-	0
SIB Service Fees			0		29,674	1		1,191	. 1
Total investment expenses		\$ 23,727,271	36		\$1,070,851	46		\$7,503	. 9
Reconciliation of Investment Expenses to Fir	nancial Statements	ı							
Investment expenses as reflected in the financial statements		\$ 14,033,044			\$ 738,533			\$4,447	
Plus investment management fees included in	n investment incon	ne (net income)							
Domestic large cap equity managers		652,279							
Developed international equity managers		1,344,825							
Investment grade fixed income managers		4,390,193							
Diversified real assets managers		3,235,858							
Cash & equivalents managers		71,072						3,056	
Balanced account managers		•			332,318			•	
Investment expenses per schedule		\$ 23,727,271			\$1,070,851			\$7,503	:

Columns may not foot due to rounding.

SCHEDULE OF COMMISSIONS FOR THE FISCAL YEAR ENDED JUNE 30, 2020

Brokers	Number of shares traded	Total commissions	Commissions per share	
Credit Suisse	10,987,542	\$ 80,785	\$ 0.007	
Investment Technology Group	9,260,086	85,018	0.009	
Jefferies	8,173,820	76,461	0.009	
UBS	7,674,655	48,559	0.006	
Citigroup	7,165,071	27,379	0.004	
Loop Capital Markets	7,067,654	48,359	0.007	
Piper Jaffray	7,046,231	47,219	0.007	
Morgan Stanley	5,875,312	64,482	0.011	
Liquidnet	5,685,818	50,230	0.009	
Instinet	5,162,494	37,472	0.007	
Other 55 Brokers *	37,939,211	512,767	0.014	
Total commissions	112,037,894	\$ 1,078,731	\$ 0.010	

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

^{*} A complete listing of investment brokers utilized is available upon request.

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 (the Fund) 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 7.25% from 7.75% as of July 1, 2020, after being reduced 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:

- 1) Improve the Plan's funding status to protect and sustain current and future benefits.
- 2) Minimize the employee and employer contributions needed to fund the Plan over the long term.
- 3) 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's/School Districts' 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's/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 long-run 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.

- 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 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.
- A list of investments at market value, compared to previous reporting period, of each fund managed by each advisory service.
- 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.
- All material legal or legislative proceedings affecting the SIB.
- Compliance with this investment policy statement.

Actual Asset Allocation – June 30, 2020

	Fair	Percent	One Year
Asset Allocation	Value	of Total	Return (net)
Global Equity	\$ 1,503,564,155	57.5%	1.45%
Public Equity	1,368,921,755	52.4%	1.41%
World Equity	378,588,023	14.5%	-7.14%
Domestic Equity	603,162,446	23.1%	8.96%
Domestic Large Cap Equity	477,208,311	18.3%	13.01%
Domestic Small Cap Equity	125,954,135	4.8%	-4.50%
International Equity	387,171,286	14.8%	-0.20%
Developed International Equity	313,070,973	12.0%	-0.59%
Emerging Markets Equity	74,100,313	2.8%	1.44%
Private Equity	134,642,400	5.2%	3.04%
Global Fixed Income	614,035,049	23.5%	7.14%
Investment Grade Fixed Income	432,861,749	16.6%	9.69%
Non-Investment Grade Fixed Income	181,173,300	6.9%	0.91%
Global Real Assets	471,434,283	18.0%	3.40%
Global Real Estate	269,594,422	10.3%	2.20%
Other	201,839,861	7.7%	5.04%
Timber	56,482,904	2.2%	0.34%
Infrastructure	145,356,957	5.6%	4.47%
Cash Equivalents	23,683,024	0.9%	1.49%
Total Fund	\$ 2,612,716,511		3.45%
Policy Benchmark			3.19%
-			
Columns may not foot due to rounding.			

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 and Public Safety 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 upon 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 State Law Enforcement (BCI) employee contribution is 6.0% and employer contribution is 9.81%, for the Public Safety Plan with prior service the employee contribution is 5.5% and the employer contribution is 9.81% and for the Public Safety 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 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 employee's 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).
- 2. 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:
 - a. 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.
- 3. Guidelines for 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 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.

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.

Asset Allocation	Fair Value	Percent of Total	One Year Return (net)
Global Equity	\$ 1,848,738,326	57.6%	1.32%
Public Equity	1,703,221,361	53.0%	1.27%
World Equity	466,460,056	14.5%	-7.14%
Domestic Equity	762,117,977	23.7%	8.79%
Domestic Large Cap Equity	608,426,652	18.9%	12.98%
Domestic Small Cap Equity	153,691,325	4.8%	-4.48%
International Equity	474,643,328	14.8%	-0.09%
Developed International Equity	358,392,300	11.2%	-0.57%
Emerging Markets Equity	116,251,028	3.6%	1.44%
Private Equity	145,516,965	4.5%	3.05%
Global Fixed Income	736,207,997	22.9%	7.27%
Investment Grade Fixed Income	511,444,246	15.9%	9.68%
Non-Investment Grade Fixed Income	224,763,751	7.0%	1.10%
Global Real Assets	608,406,952	18.9%	3.30%
Global Real Estate	367,790,954	11.5%	2.20%
Other	240,615,998	7.5%	5.01%
Timber	63,277,045	2.0%	0.34%
Infrastructure	177,338,953	5.5%	4.47%
Cash Equivalents	18,760,223	0.6%	1.50%
Total Fund	\$ 3,212,113,498		3.41%
Policy Benchmark			3.21%
Columns may not foot due to rounding.			

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 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 BCEPP 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 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 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 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.
- 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 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.

Asset Allocation	Fair Value	Percent of Total	One Year Return (net)
Global Equity	\$ 49,046,531	45.9%	-0.05%
Public Equity	44,819,457	41.9%	-0.72%
World Equity	17,018,080	15.9%	-7.16%
Domestic Equity	16,476,746	15.4%	5.66%
Domestic Large Cap Equity	9,945,166	9.3%	12.90%
Domestic Small Cap Equity	6,531,580	6.1%	-4.57%
International Equity	11,324,631	10.6%	-0.01%
Developed International Equity	7,968,601	7.5%	-0.64%
Emerging Markets Equity	3,356,030	3.1%	1.41%
Private Equity	4,227,074	4.0%	3.05%
Global Fixed Income	36,676,383	34.3%	7.88%
Investment Grade Fixed Income	29,114,981	27.2%	9.68%
Non-Investment Grade Fixed Income	7,561,402	7.1%	-0.16%
Global Real Assets	20,639,409	19.3%	3.35%
Global Real Estate	12,053,056	11.3%	2.20%
Other	8,586,353	8.0%	5.07%
Timber	2,422,850	2.3%	0.34%
Infrastructure	6,163,503	5.8%	4.46%
Cash Equivalents	584,544	0.5%	1.46%
Total Fund	\$ 106,946,867		3.75%
Policy Benchmark			3.73%
Columns may not foot due to rounding.			

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.

- 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 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
Global Fixed Income	29
Investment Grade	22
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 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:

- (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 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.

	Fair	Percent	One Year
Asset Allocation	 Value	of Total	Return (net)
Global Equity	\$ 21,643,442	50.9%	0.21%
Public Equity	19,543,270	45.9%	-0.44%
World Equity	6,773,788	15.9%	-7.16%
Domestic Equity	7,461,098	17.5%	5.54%
Domestic Large Cap Equity	4,448,469	10.5%	12.90%
Domestic Small Cap Equity	3,012,629	7.1%	-4.57%
International Equity	5,308,384	12.5%	0.03%
Developed International Equity	3,619,560	8.5%	-0.64%
Emerging Markets Equity	1,688,824	4.0%	1.41%
Private Equity	2,100,172	4.9%	3.05%
Global Fixed Income	12,454,688	29.3%	7.60%
Investment Grade Fixed Income	9,444,663	22.2%	9.68%
Non-Investment Grade Fixed Income	3,010,025	7.1%	-0.06%
Global Real Assets	8,205,538	19.3%	3.36%
Global Real Estate	4,788,295	11.3%	2.20%
Other	3,417,243	8.0%	5.14%
Timber	1,082,530	2.5%	0.34%
Infrastructure	2,334,713	5.5%	4.46%
Cash Equivalents	 248,336	0.6%	1.46%
Total Fund	\$ 42,552,004		3.41%
Policy Benchmark			3.28%
Columns may not foot due to rounding.			

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.

Responsibilities and Discretion of the State Investment Board (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 underperformance 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 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 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.
- 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 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.
- 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 statement.

Asset Allocation	Fair Value	Percent of Total	One Year Return (net)
Global Equity	\$ 40,359,179	59.8%	2.36%
Public Equity	37,033,705	54.9%	2.10%
World Equity	10,723,632	15.9%	-7.16%
Domestic Equity	19,098,775	28.3%	8.36%
Domestic Large Cap Equity	14,382,677	21.3%	12.90%
Domestic Small Cap Equity	4,716,098	7.0%	-4.57%
International Equity	7,211,298	10.7%	0.07%
Developed International Equity	4,791,167	7.1%	-0.64%
Emerging Markets Equity	2,420,131	3.6%	1.41%
Private Equity	3,325,474	4.9%	3.05%
Global Fixed Income	16,308,362	24.2%	6.91%
Investment Grade Fixed Income	11,551,046	17.1%	9.68%
Non-Investment Grade Fixed Income	4,757,316	7.1%	-0.96%
Global Real Assets	10,006,266	14.8%	3.77%
Global Real Estate	4,519,769	6.7%	2.20%
Other	5,486,497	8.1%	5.14%
Timber	1,721,218	2.6%	0.34%
Infrastructure	3,765,279	5.6%	4.46%
Cash Equivalents	784,773	1.2%	1.46%
Total Fund	\$ 67,458,580		4.02%
Policy Benchmark			3.61%
Columns may not foot due to rounding.			

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 %
Global Equity	54.5
Public Equity	47
Domestic Equity	27
Large	22
Small	5
International Equity	20
Developed	10
Emerging	10
Private Equity	7.5
Global Fixed Income	25.5
Investment Grade	18
Non-Investment Grade	7.5
Global Real Assets	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.
- c. 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.
- 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 statement.

Asset Allocation		Fair Value	Percent of Total	One Year Return (net)
	Φ.			
Global Equity	\$	4,025,378	54.4%	2.20%
Public Equity		3,477,427	47.0%	1.18%
World Equity		1,177,429	15.9%	-7.16%
Domestic Equity		1,315,550	17.8%	9.43%
Domestic Large Cap Equity		1,074,760	14.5%	12.90%
Domestic Small Cap Equity		240,790	3.3%	-4.57%
International Equity		984,448	13.3%	0.42%
Developed International Equity		489,779	6.6%	-0.64%
Emerging Markets Equity		494,669	6.7%	1.41%
Private Equity		547,951	7.4%	3.05%
Global Fixed Income		1,889,698	25.5%	5.83%
Investment Grade Fixed Income		1,333,541	18.0%	9.68%
Non-Investment Grade Fixed Income		556,157	7.5%	-3.08%
Global Real Assets		1,440,940	19.5%	3.56%
Global Real Estate		700,592	9.5%	2.20%
Other		740,348	10.0%	4.91%
Timber		143,431	1.9%	0.34%
Infrastructure		596,917	8.1%	4.46%
Cash Equivalents		50,198	0.7%	1.46%
Total Fund	\$	7,406,214		3.78%
Policy Benchmark				3.56%
Columns may not foot due to rounding.				

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:

- 1. 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
- 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 2018, 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	Allocation
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. In-state meetings will be held with the money managers at least annually.

Asset Allocation	Fair Value	Percent of Total	One Year Return (net)
Asset Allocation	value	of Total	Return (net)
Global Equity	\$ 464,425,536	21.8%	1.19%
Domestic Large Cap Equity	232,275,542	10.9%	6.60%
Domestic Small Cap Equity	63,132,136	3.0%	-8.34%
International Equity	169,017,858	8.0%	-2.48%
Global Fixed Income	1,284,237,065	60.4%	7.91%
Global Real Assets	349,757,342	16.5%	4.02%
Diversified Real Assets	251,371,180	11.8%	5.28%
Real Estate	98,386,162	4.6%	0.93%
Cash Equivalents	27,461,280	1.3%	1.37%
Total Fund	\$ 2,125,881,223		6.00%
Policy Benchmark			6.62%
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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.
- 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.
- 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.
- All material legal or legislative proceedings affecting the SIB.
- Compliance with this investment policy statement.

Asset Allocation		Fair Value	Percent of Total	One Year Return (net)
Global Equity	\$	7,957,528	34.9%	1.32%
Domestic Large Cap Equity		4,271,248	18.7%	6.58%
Domestic Small Cap Equity		1,400,968	6.1%	-8.00%
International Equity		2,285,312	10.0%	-2.50%
Global Fixed Income		12,597,739	55.2%	7.70%
Cash Equivalents		2,270,289	9.9%	1.37%
Total Fund	\$	22,825,556		4.97%
Policy Benchmark				5.96%
Columns may not foot due to rounding.				

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 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:

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 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.
- 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.
- 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.
- All material legal or legislative proceedings affecting the SIB.
- Compliance with this investment policy statement.

Asset Allocation		Fair Value	Percent of Total	One Year Return (net)	
Global Fixed Income Cash Equivalents	\$	2,091,078 1,696,448	55.2% 44.8%	7.88% 1.37%	
Total Fund Policy Benchmark	\$	3,787,526		4.95% 5.50%	
Columns may not foot due to rounding.					

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 NDCC 23.1-12. 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 aboveground 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. Operating expenses are paid from the Fund as incurred.

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 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 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:

- 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.
- 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.
- All material legal or legislative proceedings affecting the SIB.
- Compliance with this investment policy statement.

Asset Allocation		Fair Value	Percent of Total	One Year Return (net)	
Global Fixed Income Cash Equivalents	\$	3,096,925 3,068,500	50.2% 49.8%	7.73% 1.37%	
Total Fund Policy Benchmark	\$	6,165,425		4.55% 5.15%	
Columns may not foot due to rounding.					

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 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 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.
- 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.
- 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.
- 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.
- All material legal or legislative proceedings affecting the SIB.
- Compliance with this investment policy statement.

Asset Allocation	1	Fair Value	Percent of Total	One Year Return (net)
Global Equity	\$	1,711,872	30.0%	1.00%
Domestic Large Cap Equity		857,311	15.0%	6.58%
Domestic Small Cap Equity		281,073	4.9%	-8.00%
International Equity		573,488	10.0%	-2.50%
Global Fixed Income		2,010,118	35.2%	8.14%
Cash Equivalents		1,992,630	34.9%	1.37%
Total Fund	\$	5,714,620		6.11%
Policy Benchmark	:			4.38%
Columns may not foot due to rounding.				

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:

- 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 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 five-year 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.
- 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:

- (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.
- A list of investments at market value, compared to previous reporting period, of each fund managed by each advisory service.
- 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.
- All material legal or legislative proceedings affecting the SIB.
- Compliance with this investment policy statement.

Asset Allocation		Fair Value	Percent of Total	One Year Return (net)
Global Equity	\$	1,359,672	29.8%	2.87%
Domestic Large Cap Equity		1,023,907	22.4%	6.58%
Domestic Small Cap Equity		335,765	7.4%	-8.00%
Global Fixed Income		2,974,603	65.2%	7.51%
Cash Equivalents		226,899	5.0%	1.37%
Total Fund	\$	4,561,174		5.88%
Policy Benchmark				7.55%
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STATE RISK MANAGEMENT WORKERS COMPENSATION 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:

- 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 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 five-year 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:

- 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.
- 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.
- All material legal or legislative proceedings affecting the SIB.
- Compliance with this investment policy statement.

Asset Allocation		Fair Value	Percent of Total	One Year Return (net)
Global Equity	\$	1,882,374	36.8%	2.86%
Domestic Large Cap Equity		1,417,590	27.7%	6.58%
Domestic Small Cap Equity		464,784	9.1%	-8.00%
Global Fixed Income		3,080,897	60.2%	7.66%
Cash Equivalents		152,947	3.0%	1.37%
Total Fund	\$	5,116,218		5.73%
Policy Benchmark				7.42%
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NORTH DAKOTA 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:

- 1. 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% 90-day Treasury bills.
- b. 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. In-state meetings will be held with the money managers at least annually.

		Fair	Percent	One Year
Asset Allocation		Value	of Total	Return (net)
Global Equity	\$	271,059	54.9%	1.88%
Domestic Large Cap Equity		166,842	33.8%	6.58%
Domestic Small Cap Equity		54,657	11.1%	-8.00%
International Equity		49,560	10.0%	-2.50%
Global Fixed Income		183,750	37.2%	7.91%
Global Real Assets		23,509	4.8%	0.93%
Real Estate		23,509	4.8%	0.93%
Cash Equivalents		15,083	3.1%	1.37%
Total Fund	\$	493,401		3.91%
Policy Benchmark				5.28%
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NORTH DAKOTA 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. The statutory cap for the 2019-21 biennium is \$726,534,475. 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 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 Minimum of 90%
Bank Loans w/floating yield Maximum of 5%
Absolute Return Strategies 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:

- 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. In-state meetings will be held with the money managers at least annually.

Asset Allocation		Fair Value	Percent of Total	One Year Return (net)
Short-term Fixed Income Cash Equivalents	\$	719,272,277 8,002,787	98.9% 1.1%	2.36% 1.37%
Total Fund Policy Benchmark	\$	727,275,064		2.35% 4.17%
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NORTH DAKOTA ASSOCIATION OF COUNTIES

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.

- 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.

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.
- 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 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.
- 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.
- All material legal or legislative proceedings affecting the SIB.
- Compliance with this investment policy statement.

Asset Allocation		Fair Value	Percent of Total	One Year Return (net)
Global Equity	\$	2,333,595	34.9%	1.85%
Domestic Large Cap Equity		1,335,234	19.9%	6.58%
Domestic Small Cap Equity		328,348	4.9%	-8.00%
International Equity		670,013	10.0%	-2.50%
Global Fixed Income		4,160,293	62.2%	8.08%
Cash Equivalents		199,304	3.0%	1.37%
Total Fund	\$	6,693,192		5.67%
Policy Benchmark				6.63%
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CITY OF BISMARCK DEFERRED SICK LEAVE ACCOUNT

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."

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. In-state meetings will be held with the money managers at least annually.

		Fair	Percent	One Year
Asset Allocation		Value	of Total	Return (net)
Global Equity	\$	230,306	29.9%	1.06%
Domestic Large Cap Equity		115,345	15.0%	6.58%
Domestic Small Cap Equity		37,802	4.9%	-8.00%
International Equity		77,159	10.0%	-2.50%
Global Fixed Income		502,376	65.2%	7.71%
Cash Equivalents		38,111	4.9%	1.37%
Total Fund	\$	770,793		5.43%
Policy Benchmark				6.50%
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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 1st and 15th of each month. The premiums transferred into the investment account will be transferred back to PERS on approximately the 22nd 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:

- a. The Fund should produce a rate of return that meets or exceeds the portfolio policy index defined as the 90-day 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. In-state meetings will be held with the money managers at least annually.

Asset Allocation		Fair Value	Percent of Total	One Year Return (net)
Short Term Fixed Income Cash Equivalents	\$	28,787,801 2,708,186	91.4% 8.6%	2.36% 1.37%
Total Fund Policy Benchmark	\$	31,495,987		2.35% 4.02%
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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.
- 2. 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 Equity23%Small Cap Domestic Equity12%International Equity15%Fixed Income39%Inflation Protected Assets10%Cash Equivalents1%

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.

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. In-state meetings will be held with the money managers at least annually.

		Fair	Percent	One Year
Asset Allocation		Value	of Total	Return (net)
Global Equity	\$	21,702,820	49.8%	0.29%
Domestic Large Cap Equity		10,012,345	23.0%	6.58%
Domestic Small Cap Equity		5,139,397	11.8%	-8.00%
International Equity		6,551,078	15.0%	-2.50%
Global Fixed Income		17,068,800	39.2%	7.82%
Global Real Assets		4,344,483	10.0%	5.63%
Diversified Real Assets		4,344,483	10.0%	5.63%
Cash Equivalents		434,765	1.0%	1.37%
Total Fund	\$	43,550,868		3.78%
Policy Benchmark				4.74%
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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.
- 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

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.

US Equity	16%
Global ex US Equity	11%
Fixed Income	67%
Real Estate	6%

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.
- 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:

- 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.
- 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 statement.

	Fair	Percent	One Year
	Value	of Total	Return (net)
\$	665,992	27.0%	1.05%
	296,283	12.0%	6.58%
	97,128	3.9%	-8.00%
	272,581	11.0%	-2.50%
	1,658,334	67.1%	8.28%
	139,724	5.7%	0.93%
	139,724	5.7%	0.93%
	6,739	0.3%	1.37%
\$	2,470,789		5.54%
-			5.64%
	\$	Value \$ 665,992 296,283 97,128 272,581 1,658,334 139,724 139,724 6,739	Value of Total \$ 665,992 27.0% 296,283 12.0% 97,128 3.9% 272,581 11.0% 1,658,334 67.1% 139,724 5.7% 6,739 0.3%

LEWIS & CLARK INTERPRETIVE CENTER ENDOWMENT FUND

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 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.

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.
- 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 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.
- 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.
- 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.
- All material legal or legislative proceedings affecting the SIB.
- Compliance with this investment policy statement.

Asset Allocation		Fair Value	Percent of Total	One Year Return (net)
Global Equity	\$	276,847	34.9%	1.07%
Domestic Large Cap Equity		134,603	17.0%	4.14%
Domestic Small Cap Equity		38,914	4.9%	-8.00%
International Equity		103,330	13.0%	-2.50%
Global Fixed Income		509,332	64.2%	8.35%
Cash Equivalents		7,629	1.0%	1.37%
Total Fund	\$	793,808		5.70%
Policy Benchmark				6.36%
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ATTORNEY GENERAL SETTLEMENT FUND

Investment Objectives and Policy Guidelines

Fund Characteristics and Constraints

The ND Office of the Attorney General (Trustee) has established the AG Settlement Fund to support attorney related compensation needs and educational initiatives.

The AG Settlement Fund (Fund) was established with an initial investment contribution on September 30, 2019, and expects to make semi-annual withdrawals that will likely result in the entire balance being depleted by approximately June 30, 2025. Additional contributions may occur in future years which could extend the expected investment horizon of the Fund and/or potentially alter its investment risk, return and liquidity profile.

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, short-term fixed income and cash.
- Objective #2: The need for growth of capital to preserve the real purchasing power of Fund assets is minimal as the investment term is not expected to be more than a few years.
- Objective #3: Sufficient liquidity must be maintained as the Fund will be liquidated in semi-annual distributions over the next few years. Short-term fixed income and cash equivalent investments shall be used to achieve this objective.

Responsibilities and Discretion of the State Investment Board (SIB)

The ND Office of the Attorney General (Trustee) has entered into a contract with the SIB for investment services as allowed under NDCC 21-10-06. The Trustee 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 Trustee's risk tolerance with respect to the management of the Fund's asset is low. The Trustee is unwilling to undertake investment strategies that might jeopardize the ability of the Fund to maintain principal value over time.

Investment Objectives

The Trustee'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 the investment period of approximately three years.
- 2. The Fund's risk, measured by the standard deviation of net returns, should not exceed 1% of the policy benchmark over a minimum evaluation period of three 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 three 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 Trustee 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 Trustee approves the appropriate policy asset mix for the Fund.

Short-Term Fixed Income & Cash 100%

While the Trustee recognizes fluctuations in market values will lead to short-term deviations from policy targets, the Trustee 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.
- 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. Emphasis will be placed on three (or five) year results, if applicable. 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 Trustee 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 Fund.
- 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.
- 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.
- All material legal or legislative proceedings affecting the SIB.
- Compliance with this investment policy statement.

Asset Allocation		Fair Value	Percent of Total	One Year Return (net)
Short Term Fixed Income Cash Equivalents	\$	1,046,340 10,808	99.0% 1.0%	*
Total Fund Policy Benchmark	\$	1,057,148		*
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ND VETERANS' CEMETERY TRUST FUND

Investment Objectives and Policy Guidelines

Fund Characteristics and Constraints

The ND Veterans' Cemetery Trust Fund (Fund) was established in 1997 as a permanent fund to be used to support the veterans' cemetery. As spelled out in NDCC 39-04-10.10, the Fund receives a portion of the annual surcharge assessed on the issuance of North Dakota veterans' number plates. The North Dakota State Treasurer has full authority to invest the fund in the same manner as the State Investment Board is authorized to make investments. Upon request of the Adjutant General, the interest in the Fund must be deposited into the Veterans' Cemetery Maintenance Fund for the purpose of funding salaries and maintenance of the veterans' cemetery.

Responsibilities and Discretion of the State Investment Board (SIB)

The ND State Treasurer (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 the manner provided in Section 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 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. The 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.

Policy Asset Mix

After consideration of all the liquidity needs, spending policy and time horizon of the Fund and a discussion of its risk tolerance, the Client approves the following policy asset mix for the Fund:

Global Equities 50%
Global Fixed Income 35%
Global Real Assets 15%

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

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, 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 Fund, net of fees and expenses, should at least match that of the policy benchmark over a minimum evaluation period of five years.

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 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 Client 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 Fund, including:

- A list of advisory services managing investments for the Fund.
- 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.
- 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.
- All material legal or legislative proceedings affecting the SIB.
- Compliance with this investment policy statement.

		Fair	Percent	One Year
Asset Allocation		Value	of Total	Return (net)
Global Equity	\$	156,348	50.0%	*
Domestic Large Cap Equity		68,953	22.0%	*
Domestic Small Cap Equity		24,649	7.9%	*
International Equity		62,746	20.1%	*
Global Fixed Income		110,110	35.2%	*
Global Real Assets		44,554	14.2%	*
Diversified Real Assets		30,161	9.6%	*
Real Estate		14,393	4.6%	*
Cash Equivalents		1,770	0.6%	*
Total Fund	\$	312,782		*
Policy Benchmark				
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NORTH DAKOTA 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 two-thirds 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:

- 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 Legacy 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 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.

	Fair	Percent	One Year
Asset Allocation	Value	of Total	Return (net)
Global Equity	\$ 3,484,502,454	49.8%	0.70%
Broad US Equity	2,092,662,041	29.9%	2.55%
Domestic Large Cap Equity	1,533,532,572	21.9%	6.36%
Domestic Small Cap Equity	559,129,469	8.0%	-7.36%
Broad International Equity	1,391,840,413	19.9%	-2.09%
Global Fixed Income	2,435,034,594	34.8%	7.74%
Global Real Assets	1,005,851,529	14.4%	5.52%
Real Estate	299,806,202	4.3%	0.92%
Diversified Real Assets	706,045,327	10.1%	7.64%
Cash Equivalents	74,394,691	1.1%	1.34%
Total Fund	\$ 6,999,783,268		4.23%
Policy Benchmark			4.38%
-			
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RETIREMENT PLAN FOR EMPLOYEES OF JOB SERVICE NORTH DAKOTA

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).
- 2. 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:

- a. 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.
- 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 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 4.75% 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.

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 exceed that of the policy portfolio by more than 15%.
- 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 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	5%
Short Term Corporate Fixed Income	17%

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.
- 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. 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.

Actual Asset Allocation – June 30, 2020

	Fair	Percent	One Year
Asset Allocation	 Value	of Total	Return (net)
Domestic Equity	\$ 5,434,126	5.7%	-6.28%
Global Equity	12,719,122	13.3%	-5.90%
U.S. High Yield Bonds	2,698,926	2.8%	-4.22%
Emerging Markets Debt	2,841,780	3.0%	-1.94%
Core Fixed Income	25,393,260	26.6%	9.57%
Limited Duration Fixed Income	24,863,283	26.1%	3.99%
Diversified Short Term Fixed Income	4,774,380	5.0%	0.39%
Short Term Corporate Fixed Income	16,195,174	17.0%	2.25%
Cash Equivalents	418,482	0.4%	1.46%
Total Fund	\$ 95,338,533		2.82%
Policy Benchmark			5.04%
Columns may not foot due to rounding.			

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).

- 2. 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:
 - a. 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.
- 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

- A. 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:

- (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

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.

Actual Asset Allocation – June 30, 2020

Asset Allocation		Fair Value	Percent of Total	One Year Return (net)
Domestic Large Cap Equity	\$	48,366,435	33.5%	7.07%
Domestic Small Cap Equity		9,222,529	6.4%	-9.65%
International Equity		31,179,507	21.6%	-1.91%
Core Plus Fixed Income		54,676,415	37.9%	7.27%
Cash Equivalents		792,436	0.5%	1.26%
Total Fund	\$	144,237,322		4.98%
Policy Benchmark		_		5.25%
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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 tobacco-free investment restriction may impair the Fund's ability to maximize investment returns when compared to investments that are not made in conjunction with a tobacco-free 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>	<u>Range</u>
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:

- 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 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. 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 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 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:

- A list of the advisory services managing investments for the Executive Committee.
- A list of investments at market value, compared to previous reporting period, of each fund managed by each advisory service.
- 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.
- Compliance with this investment policy statement.

Actual Asset Allocation – June 30, 2020

		Fair	Percent	One Year
Asset Allocation		Value	of Total	Return (net)
Short-Term Fixed Income	\$	6,477,228	85.3%	4.18%
Cash Equivalents		1,112,126	14.7%	1.26%
Total Fund	\$	7,589,354		3.69%
Policy Benchmark				3.74%
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ACTUARIAL SECTION



101 North Wacker Drive, Suite 500 Chicago, IL 60606-1724 segalco.com T 312.984.8500

Via Email

October 29, 2020

Board of Trustees North Dakota Teachers' Fund for Retirement 3442 East Century Avenue Bismarck, ND 58507-7100

Re: Actuarial Valuation as of July 1, 2020

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, 2020.

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 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 liability (UAAL) over a period of 24 years beginning July 1, 2020, although at any given time, the statutory rates may be insufficient.

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 (23 years remaining as of July 1, 2020). For this calculation, payroll is assumed to increase 3.25% per year. As of July 1, 2020, the ADC is 13.19%

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Board of Trustees North Dakota Teachers' Fund for Retirement October 26, 2020 Page 2

compared to 12.84% last year. This is greater than the 12.75% rate currently required by law. The increase in ADC is driven by unfavorable investment experience and the change in the investment return assumption from 7.75% to 7.25%, partially offset by the changes in various demographic assumptions.

The funded ratio (the ratio of the actuarial value of assets to the actuarial accrued liability) decreased from last year. The funded ratio as of July 1, 2020 is 65.7%, compared to 66.0% as of July 1, 2019. Based on the market value of assets rather than the actuarial value of assets, the funded ratio decreased to 63.4% compared to 65.5% last year.

The Plan has a net investment loss of \$94.5 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 2019 and FY 2020 offset by market gains in FY 2017 and FY 2018. As these losses are recognized over the next four years, the funded ratio is expected to slightly decrease, assuming the plan earns 7.25% in the future.

REPORTING CONSEQUENCES

TFFR is required to disclose certain annual 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. In March 2020, the Board adopted new assumptions, effective for the July 1, 2020, 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.

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.

Segal valuation results are based on proprietary actuarial modeling software. The actuarial valuation models generate a comprehensive set of liability and cost calculations that are presented to meet regulatory, legislative and client requirements. Deterministic cost projections are based on a



Board of Trustees North Dakota Teachers' Fund for Retirement October 26, 2020 Page 3

proprietary forecasting model. Our Actuarial Technology and Systems unit, comprised of both actuaries and programmers, is responsible for the initial development and maintenance of these models. The models have a modular structure that allows for a high degree of accuracy, flexibility and user control. The client team programs the assumptions and the plan provisions, validates the models, and reviews test lives and results, under the supervision of the responsible actuary.

DATA

Member data for retired, active, and inactive participants was supplied as of July 1, 2020, 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

By:

Kim Nicholl, FSA, MAAA, EA, FCA Senior Vice President and Actuary

Kim nedoll

Tatsiana Dybal, FSA, MAAA, EA

Senior Actuary

Matthew A. Strom, FSA, MAAA, EA Senior Vice President and Actuary

★Segal

SUMMARY OF ACTUARIAL VALUATION RESULTS

	2020	2019
Demographic Data for Plan Year Beginning July 1:		
Number of		
- Retirees and Beneficiaries	9,036	8,918
- Inactive, Vested	1,715	1,657
- Inactive, Nonvested (due a refund of employee contributions)	1,132	1,035
- Active Members	11,347	11,175
Payroll (annualized)	\$711.0 million	\$680.5 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	13.19%	12.84%
Margin/(Deficit)	-0.44%	-0.09%
Assets:		
Fair value	\$2,650.5 million	\$2,616.2 million
Actuarial value	2,745.0 million	2,635.6 million
Return on market value (per actuary)	3.3%	5.4%
Return on actuarial value	6.2%	6.4%
Ratio - actuarial value to market value	103.6%	100.7%
Net cash flow % relative to market value	-2.0%	-1.9%
Actuarial Information:		
Normal cost %	12.28%	11.89%
Normal cost	\$92.3 million	\$86.0 million
Actuarial accrued liability	\$4,181.0 million	\$3,993.4 million
Unfunded actuarial accrued liability (UAAL)	\$1,436.0 million	\$1,357.9 million
Funded ratio	65.7%	66.0%
Effective amortization period	24 years	24 years
GASB Information:		
Discount rate	7.25%	7.75%
Total pension liability	\$4,181.0 million	\$3,993.4 million
Plan fiduciary net position	\$2,650.5 million	\$2,616.2 million
Net pension liability	\$1,530.5 million	\$1,377.3 million
Plan fiduciary net position as % of total pension liability	63.4%	65.5%
Gains/(Losses):		
Asset experience	\$ (40.9) million	\$ (34.8) million
Liability experience	21.4 million	24.1 million
Administrative Expenses	0.2 million	0.0 million
<u> -</u>	0.0 '11'	0.0 million
Benefit changes	0.0 million	0.0 111111011
Benefit changesAssumption/method changes	(51.8) million	0.0 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 March 19, 2020, effective for the July 1, 2020 valuation.

ACTUARIAL ASSUMPTIONS

<u>Investment Return Rate</u> 7.25% per annum, compounded annually, equal to an assumed 2.30% inflation

rate plus a 5.18% real rate of return, less 0.23% for adverse deviation. (Adopted

effective July 1, 2020.)

Mortality Rates The mortality rates were based on historical and current demographic data, as

used in the experience study dated March 19, 2020. The underlying tables reasonably reflect the mortality experience of the Fund as of the measurement

date.

Post-Retirement Non-Disabled: 104% of the Pub T-2010 Retiree Table and 95% of the Pub T-2010

Contingent Survivor Table with generational mortality improvement using Scale MP-2019. (Adopted effective July 1, 2020.) Sample 2010 rates are as

follows:

	Retiree	Retiree Rates		r Rates
Age	Male	Female	Male	Female
55	0.23%	0.20%	0.78%	0.42%
60	0.37%	0.30%	0.96%	0.59%
65	0.62%	0.46%	1.31%	0.85%
70	1.11%	0.80%	2.02%	1.29%
75	2.11%	1.52%	3.21%	2.04%
80	4.00%	2.93%	5.09%	3.39%
85	7.53%	5.60%	8.31%	6.00%
90	13.79%	10.49%	13.70%	10.76%
95	23.21%	18.75%	21.66%	17.66%
100	33.91%	29.29%	30.98%	26.75%

The mortality tables are adjusted forward from 2010 using a generational projection to reflect future mortality improvement.

Post-Retirement Disabled: PubNS-2010 Non-Safety Disabled Mortality Table with generational

mortality improvement using Scale MP-2019. (Adopted effective July 1,

2020.)

Pre-Retirement Non-Disabled: Pub T-2010 Employee Table with generational mortality improvement using

Scale MP-2019. (Adopted effective July 1, 2020.)

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, 2020.)

	Unreduced Retirement*		Reduced Retirement
Age	Male	Female	Unisex
50-54	15.0%	15.0%	2.0%
55-56	15.0%	15.0%	2.0%
57	15.0%	15.0%	3.0%
58	15.0%	15.0%	3.5%
59	15.0%	15.0%	4.0%
60	15.0%	15.0%	5.0%
61	30.0%	25.0%	9.0%
62	30.0%	30.0%	10.0%
63	25.0%	30.0%	11.0%
64	35.0%	40.0%	12.0%
65	30.0%	35.0%	
66	25.0%	30.0%	
67	25.0%	20.0%	
68-74	20.0%	20.0%	
75	100.0%	100.0%	

^{*} 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), 12.5% 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, 2020.)

Age	Unisex
20	0.0088%
25	0.0088%
30	0.0088%
35	0.0088%
40	0.0264%
45	0.0440%
50	0.0704%
55	0.1232%
60	0.2376%

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, 2020.)

Years from Hire	Male	Female	Years from Hire	Male	Female
0	15.00%	15.00%	10	2.50%	2.75%
1	13.00%	11.00%	11-12	2.00%	2.50%
2	11.00%	9.50%	13	2.00%	2.25%
3	8.00%	7.50%	14	1.50%	2.25%
4	6.00%	6.00%	15-16	1.50%	1.75%
5	5.25%	5.50%	17-18	1.50%	1.50%
6	4.00%	4.50%	19-22	0.75%	1.25%
7	3.75%	4.00%	23-24	0.75%	1.00%
8	3.00%	2.75%	24+	0.75%	0.75%
9	2.50%	2.75%			

 $Termination\ rates\ eliminated\ at\ first\ retirement\ eligibility.$

Salary Increase Rates

Inflation rate of 2.30% plus productivity increase rate of 1.50%, plus step-rate/promotional increase as shown below. (Adopted effective July 1, 2020.)

	Annual							
	Step-Rate	Annual Total						
Years from	Promotional	Salary						
Hire	Component	Increase						
0	11.00%	14.80%						
1	3.00%	6.80%						
2	2.75%	6.55%						
3-4	2.50%	6.30%						
5-6	2.00%	5.80%						
7-8	1.75%	5.55%						
9-11	1.50%	5.30%						
12-13	1.25%	5.05%						
14-15	1.00%	4.80%						
16-18	0.75%	4.55%						
19-22	0.50%	4.30%						
23-29	0.25%	4.05%						
30+	0.00%	3.80%						

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, 2020, to reflect that their benefits are not finalized as of the valuation

date.

Annual Administrative

<u>Expenses</u> Administrative expenses of \$2,143,599 (actual expenses for the previous year,

increased with inflation) are expected to be paid for the year beginning July 1,

2020.

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 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.

Amortization Period

<u>and Method</u> 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.

Justification for Change

<u>in Actuarial Assumptions</u> Changes made to the actuarial assumptions were based on the March 19, 2020,

experience study.

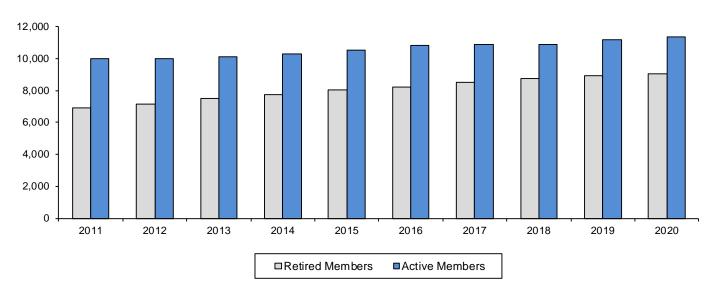
SCHEDULE OF ACTIVE MEMBERS

	Active Me	embers	Covered Payroll (annualized)		Average	Average Salary		
Valuation Year	Number	Percent Increase	Amount in \$ Millions	Percent Increase	\$ Amount	Percent Increase	Average Age	Average Service
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
2020	11,347	1.5	711.0	4.5	62,663	2.9	41.8	11.7

SCHEDULE OF RETIREES AND BENEFICIARIES

Valuation Year	Number Added During Year	Annual Benefits Added (in mils)	Number Removed During Year	Removed Removed		Average Annual Benefit	Annual Pension Benefits (in mils)	Percent Increase In Annual Benefits
		(=======)		(=======)	End of Year		(=======)	
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
2020	362	11.8	244	4.2	9,036	25,392	224.4	4.2

ACTIVE MEMBERS VS RETIRED MEMBERS 10-YEAR SUMMARY



ANALYSIS OF CHANGE IN ACTUARIALLY DETERMINED CONTRIBUTION (ADC)

	7/1/2020	7/1/2019
Prior valuation	12.84 %	12.94 %
Increases/(decreases) due to:		
Change in remaining amortization period	0.00 %	0.00 %
Change in covered payroll and normal cost	(0.20)%	(0.20)%
Employer contributions received at 12.75% rather than 12.84%		
for FY2020 and rather than 12.94% for FY2019	(0.03)%	(0.02)%
Gains and losses on accrued liability and administrative expenses	(0.20)%	(0.21)%
Investment experience	0.38 %	0.33 %
Legislative changes	0.00 %	0.00 %
Change in actuarial assumptions	0.40 %	0.00 %
Total	0.35 %	(0.10)%
Current valuation	13.19 %	12.84 %
Statutory employer contribution rate	12.75 %	12.75 %
Margin available [contribution sufficiency/(deficiency)]	(0.44)%	(0.09)%

DEVELOPMENT OF UNFUNDED ACTUARIAL ACCRUED LIABILITY (UAAL)

		(\$ in millions)			
	7.	/1/2020	7	/1/2019	
UAAL at beginning of year	\$	1,357.9	\$	1,337.5	
CAAL at beginning of year	Ψ	1,337.9	φ	1,337.3	
Normal cost		82.8		79.9	
Total contributions		(181.1)		(173.9)	
Interest on:					
UAAL and normal cost		111.6		109.8	
Total contributions		(6.3)		(6.1)	
Expected UAAL	\$	1,364.9	\$	1,347.2	
Changes due to (gain)/loss from:					
Investments	\$	40.9	\$	34.8	
Demographics		(21.6)		(24.1)	
Change in actuarial assumptions		51.8			
UAAL at end of year	\$	1,436.0	\$	1,357.9	

SOLVENCY TEST

	Actuarial Accr	ued Liability (A	AL) (in millions)		Portion of AA	L Covered by Va	aluation Assets
			Active/Inactive	Actuarial			Active/Inactive
	Active		Members	Value of	Active		Members
Valuation	Member	Retirees and	(Employer	Assets	Member	Retirees and	(Employer
Year	Contributions	Beneficiaries	Financed)	(\$ in millions)	Contributions	Beneficiaries	Financed)
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
2020	1,010.5	2,397.6	772.9	2,745.0	100.0	72.3	0.0

SCHEDULE OF FUNDING PROGRESS

	Actuarial	Actuarial				
Actuarial	Value of	Accrued	Unfunded/			UAAL
Valuation Date	Assets	Liability	Accrued	Funded	Total Payroll	as a % of
July 1	(AVA)	(AAL)	Liability (UAAL)	Ratio	(annualized)	Compensation
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
2020	2,745.0	4,181.0	1,436.0	65.7	711.0	202.0

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

Administration: 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.

<u>Contents</u> <u>Page</u>

Financial Trends 204

These schedules contain trend information to help the reader understand how RIO's financial performance and well-being have changed over time.

Demographic Information

206

These schedules offer demographic indicators to help the reader understand the environment within which RIO's financial activities take place.

Operating Information

210

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 as a Percentage	Investment	Purchased		
Fiscal	Member	Employer	of Annual	and Other	Service	Total	
Year	Contributions	Contributions	Covered Payroll	Income	Credit	Additions	
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	
2020	85,735,134	93,032,453	12.75	86,364,800	2,175,497	267,307,884	

DEDUCTIONS

Fiscal Year	Benefits Paid to Participants	Refunds	A	dministrative Charges	Total Deductions	Change in Net Position
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
2020	224,361,530	6,489,704		2,095,405	232,946,639	34,361,245

BENEFIT AND REFUND DEDUCTIONS BY TYPE

	Annuity Payments									Refunds						
Fiscal	Service		PLSO	Ι	Disability		Total Annuity									Total Benefit
Year	Retirements	Dis	tributions	Re	tirements	Be	neficiaries		Payments	S	eparation	Death		Total Refunds		Expenses
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
2020	209,416,623		425,297		2,040,107		12,479,503		224,361,530		5,533,401		956,303		6,489,704	230,851,234

SCHEDULE OF CONTRIBUTION RATES LAST 10 FISCAL YEARS

Fiscal	Member	Employer
Year	Rate	Rate
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%
2020	11.75%	12.75%

PRINCIPAL PARTICIPATING EMPLOYERS CURRENT YEAR AND NINE YEARS AGO

2020 2011

Participating Employer	Covered Employees	Rank	% of Total System	Covered Employees	Rank	% of Total System
Bismarck Public Schools	1,229	1	10.09%	1,087	1	9.91%
Fargo Public Schools	1,173	2	9.63%	1,055	2	9.62%
West Fargo Schools	1,090	3	8.95%	636	5	5.80%
Grand Forks Schools	824	4	6.76%	785	3	7.16%
Minot Schools	705	5	5.79%	669	4	6.10%
Mandan Public Schools	357	6	2.93%	307	6	2.80%
Dickinson Schools	333	7	2.73%	244	7	2.23%
Williston Schools	323	8	2.65%	199	9	1.82%
Jamestown Schools	218	9	1.79%	223	8	2.03%
Devils Lake Schools	175	10	1.44%	174	10	1.59%
All Other ¹	5,758		47.25%	5,585		50.94%
Total (213 & 226 employers) ²	12,185		100.00%	10,964		100.00%

¹ In 2020 "all other" consisted of:			¹ In 2011 "all other" consisted of:
Туре	Number	Employees	Number Employees
School Districts	164	5,145	171 5,076
County Superintendents	6	6	9 9
Special Education Units	20	385	21 363
Vocational Centers	4	59	5 50
State Agencies/Institutions	5	101	6 81
Other	4	62	6
Total	203	5,758	216 5,585

² 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.

SCHEDULE OF PARTICIPATING EMPLOYERS AT JUNE 30, 2020

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 Hazen Nedrose
Belfield Hebron Nesson
Beulah Hettinger New England

Billings County School Hillsboro New Rockford-Sheyenne
Bismarck Hope New Salem-Almont

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 Kulm Oakes

Central Valley Lakota Oberon Elementary

Dakota Prairie LaMoure Page

Devils Lake Langdon Park River Area

Dickinson Larimore Parshall

DivideLeedsPingree – BuchananDrakeLewis and ClarkPowers LakeDraytonLidgerwoodRichardton-Taylor

Dunseith Linton Richland
Earl Elementary Lisbon Rolette
Edgeley Litchville-Marion Roosevelt
Edmore Little Heart Elementary Rugby

Eight MileLone Tree ElementarySargent CentralElgin/New LeipzigMaddockSawyerEllendaleMandanScrantonEmerado ElementaryMandareeSelfridge

Enderlin Area School Manning Elementary Solen-Cannonball Fairmount Manvel Elementary South Heart

Fargo Maple Valley South Prairie Elementary

Fessenden-Bowdon Mapleton Elementary St. John's
Finley-Sharon Marmarth Elementary St. Thomas
Flasher Max Stanley
Fordville Lankin Mayville – Portland CG Starkweather
Fort Ransom Elementary McClusky Sterling

Fort Totten McKenzie County School Strasburg
Fort Yates Medina Surrey

Fort Yates Medina Surrey

Gackle-Streeter Menoken Elementary Sweet Briar Elementary

Gackle-Streeter Menoken Elementary Sweet Bria
Garrison Midkota TGU
Glen Ullin Midway Thompson
Glenburn Milnor Tioga

Goodrich Minnewauken Turtle Lake – Mercer Grafton Minot Twin Buttes Elementary

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 20
Williams County School	
Williston	Vocational Centers
Wilton	North Valley Career & Tech Center
Wing	Roughrider Area Career & Tech
Wishek	SE Region Career & Tech Center
Wyndmere	Sheyenne Valley Area Voc Center
Yellowstone	Total Vocational Centers 4
Zeeland	Total vocational Centers 4
Total School Districts 174	State Agencies & Institutions ND Center for Distance Education
County Superintendents	ND Dept. of Public Instruction
Logan County	ND School for the Blind
McKenzie County	ND School for the Deaf
Morton County	ND Youth Correctional Center
Nelson County	
Slope County	Total State Agencies
Ward County	& Institutions 5
Total County Super. 6	
Total County Super.	Other
Special Education Units	Great NW Cooperative
Burleigh County Special Ed.	ND United
Central Regional Education Assoc.	Roughrider Service Program

E Central Center for Exc. Children

James River Multidistrict Spec. Ed.

GST Educational Services

Lake Region Special Ed.

Lonetree Special Ed. Northern Plains Special Ed. Oliver - Mercer Special Ed. Peace Garden Special Ed.

South East Education Co-Op

Total Other

Total Employers

4

213

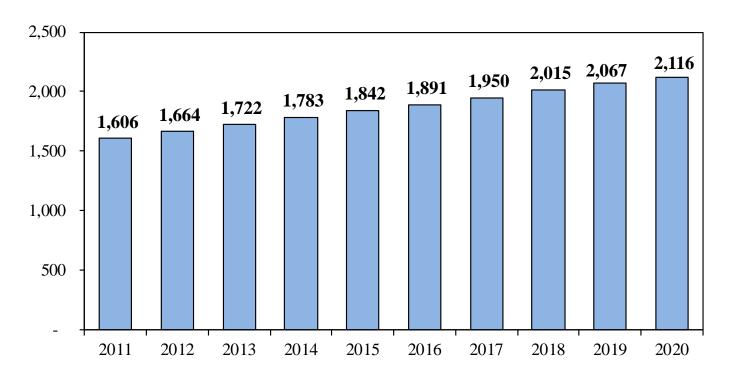
SCHEDULE OF RETIREES RESIDING IN NORTH DAKOTA BY COUNTY AS OF JUNE 30, 2020

		Average			Average			Average
County	Number	Benefit	County	Number	Benefit	County	Number	Benefit
Adams	25	\$ 2,011	Griggs	43	\$ 2,157	Richland	147	\$ 2,377
Barnes	175	2,352	Hettinger	27	1,871	Rolette	102	2,128
Benson	56	2,232	Kidder	42	1,869	Sargent	45	1,819
Billings	5	2,066	LaM oure	64	2,036	Sheridan	16	1,777
Bottineau	135	1,899	Logan	19	1,889	Sioux	10	1,806
Bowman	47	1,906	McHenry	71	2,085	Slope	4	1,945
Burke	41	1,557	McIntosh	38	1,888	Stark	235	2,350
Burleigh	936	2,268	McKenzie	62	2,030	Steele	19	1,983
Cass	1191	2,402	McLean	132	2,073	Stutsman	236	2,163
Cavalier	70	1,819	Mercer	114	2,171	Towner	31	2,083
Dickey	72	2,090	Morton	296	2,201	Traill	118	2,192
Divide	32	1,925	M ountrail	81	1,793	Walsh	169	2,092
Dunn	43	2,261	Nelson	60	1,840	Ward	652	2,277
Eddy	38	2,029	Oliver	18	2,495	Wells	69	2,041
Emmons	44	2,036	Pembina	121	2,230	Williams	198	2,436
Foster	48	2,466	Pierce	73	1,899	Out of State	1,820	1,686
Golden Valley	21	1,983	Ramsey	143	2,111			
Grand Forks	656	2,366	Ransom	57	1,929	GRAND TOTALS:	9,036	\$ 2,116
Grant	31	1,658	Renville	38	1,982			

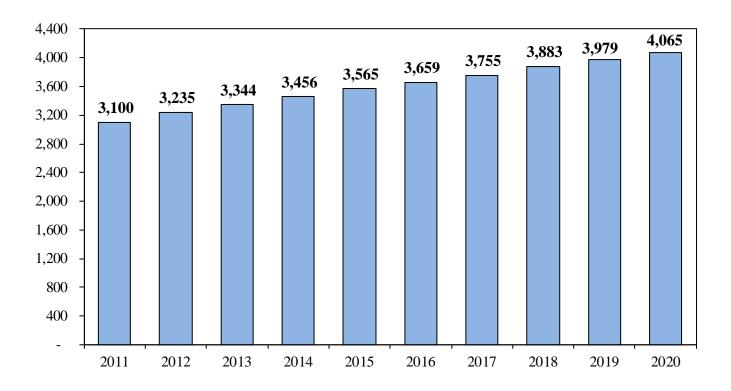
SCHEDULE OF AVERAGE BENEFIT PAYMENTS

					Ye	ars of Serv	vice			
Valuation Year		< 5	5 - 9	10 - 14	15 - 19	20 - 24	25 - 29	30 - 34	> 34	TOTAL
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	3,893	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	4,018	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	2,788	1,842
	Average Final Average Salary	2,112	2,352	2,417	2,895	3,372	3,625	3,862	4,169	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	1,531	8,249
	Average Monthly Benefit	224	344	547	890	1,435	1,871	2,292	2,868	1,891
	Average Final Average Salary	2,096	2,425	2,523	2,998	3,497	3,716	3,958	4,263	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
	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	3,119	2,015
	Average Final Average Salary	2,140	2,600	2,691	3,303	3,773	3,943	4,137	4,566	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
2020	Number of Retirees	133	502	575	608	970	1,838	2,726	1,684	9,036
	Average Monthly Benefit	203	379	619	1,031	1,657	2,087	2,523	3,322	2,116
	Average Final Average Salary	2,201	2,805	2,882	3,459	4,004	4,110	4,306	4,806	4,065
	Average Years of Service	2.8	7.3	12.4	17.3	22.7	27.5	32.1	38.3	27.2

AVERAGE BENEFIT PAYMENTS



AVERAGE FINAL AVERAGE SALARY



SCHEDULE OF RETIREES BY BENEFIT AMOUNT

Monthly Benefit	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011
Under \$200	263	260	253	251	241	231	228	224	215	215
200 to 399	454	463	448	460	461	465	462	464	464	471
400 to 599	409	424	434	435	445	449	443	454	473	489
600 to 799	397	399	403	400	387	392	402	417	418	436
800 to 999	378	387	400	401	398	402	408	410	409	410
1,000 to 1,199	496	498	500	497	506	511	522	533	518	515
1,200 to 1,399	476	490	504	513	528	527	532	535	525	524
1,400 to 1,599	544	550	555	567	583	590	587	591	573	574
1,600 to 1,799	607	608	620	622	619	619	615	607	592	568
1,800 to 1,999	602	608	611	605	608	599	599	586	570	557
2,000 to 2,199	574	573	570	566	557	557	537	522	501	474
2,200 to 2,399	549	542	538	531	514	484	462	435	409	394
2,400 to 2,599	443	440	436	421	406	398	377	349	325	313
2,600 to 2,799	403	402	384	372	356	347	320	303	281	267
2,800 to 2,999	403	387	378	356	336	309	301	261	227	200
3,000 to 3,199	358	341	329	314	292	277	228	206	178	155
3,200 to 3,399	310	301	288	272	239	210	178	147	124	91
3,400 to 3,599	254	239	220	197	175	156	141	114	92	79
3,600 to 3,799	215	197	186	162	144	132	101	83	72	55
3,800 to 3,999	166	154	131	115	105	79	62	58	42	35
4,000 & Over	735	655	555	444	349	291	242	190	143	111
TOTAL	9,036	8,918	8,743	8,501	8,249	8,025	7,747	7,489	7,151	6,933

SCHEDULE OF RETIREES BY BENEFIT TYPE

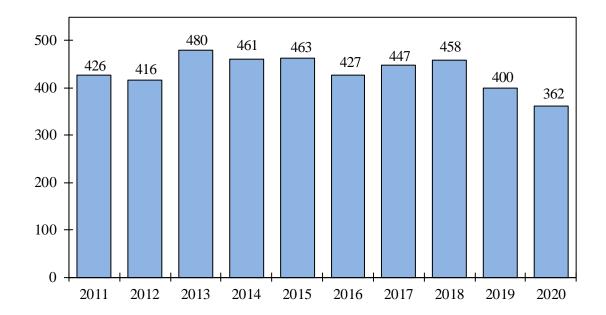
Form of Payment	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011
Service:										
Straight Life	2,983	2,994	2,988	2,960	2,917	3,096	3,014	2,916	2,801	2,739
100% J&S	3,571	3,483	3,358	3,195	3,035	2,733	2,570	2,449	2,279	2,153
50% J&S	700	689	680	666	644	576	552	531	515	501
5 Years C&L	14	17	18	18	19	19	21	22	23	28
10 Years C&L	164	175	173	172	175	171	175	177	178	184
20 Years C&L	151	143	130	113	100	96	91	85	73	63
Level	508	518	530	540	545	559	568	574	579	584
Subtotal	8,091	8,019	7,877	7,664	7,435	7,250	6,991	6,754	6,448	6,252
Disability:										
Straight Life	96	98	97	102	105	105	105	103	96	97
100% J&S	22	21	20	18	14	12	13	12	13	11
50% J&S	6	5	5	6	7	8	7	6	8	8
5 Years C&L	1	1	1	1	1	1	2	2	2	2
10 Years C&L	0	0	0	0	0	0	0	0	-	1
20 Years C&L	2	2	2	1	1	2	2	1	1	1
Subtotal	127	127	125	128	128	128	129	124	120	120
Beneficiaries:										
Straight Life	759	717	698	667	662	631	612	599	571	545
5 Years Certain Only	0	0	0	0	3	2	2	2	2	6
10 Years Certain Only	9	4	4	4	11	9	9	9	9	9
20 Years Certain Only	20	23	12	12	10	5	4	1	1	1
QDRO Alternate Payee*	30	28	27	26						
Subtotal	818	772	741	709	686	647	627	611	583	561
TOTAL	9,036	8,918	8,743	8,501	8,249	8,025	7,747	7,489	7,151	6,933

st 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
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
2020	282	3	77	362

TOTAL NEW RETIREES



PENSION INVESTMENT POOL

		2020		2019		2018		2017		2016
Public Employees Retirement Syst	em									
Net position beginning of year	\$	3,151,659,466	\$	3,023,532,073	\$	2,779,324,311	\$	2,457,275,530	\$	2,418,931,000
Net change in fair value of investments	Ψ	44,741,951	Ψ	103,282,337	Ψ	196,115,456	Ψ.	266,102,905	Ψ	(39,399,793)
Interest, dividends and other income		67,495,427		68,783,166		66,566,132		61,615,229		58,071,997
Expenses		(8,697,618)		(8,255,626)		(6,981,342)		(7,653,510)		(7,314,631)
Net securities lending income		166,401		217,516		227,516		224,157		286,957
Net change in net position		,				,		,		
resulting from unit transactions		(46,150,000)		(35,900,000)		(11,720,000)		1,760,000		26,700,000
Net position end of year	\$	3,209,215,627	\$	3,151,659,466	\$	3,023,532,073	\$	2,779,324,311	\$	2,457,275,530
City of Bismarck Employees Pensi			_		_		_		_	
Net position beginning of year	\$	104,464,584	\$	99,136,094	\$	91,886,553	\$	82,369,575	\$	81,619,071
Net change in fair value of investments		1,826,538		3,701,861		5,176,598		7,655,028		(962,485)
Interest, dividends and other income		2,335,114		2,384,963		2,310,859		2,110,479		1,944,554
Expenses		(286,083)		(265,103)		(245,148)		(255,656)		(240,726)
Net securities lending income		5,431		6,769		7,232		7,127		9,161
Net change in net position										
resulting from unit transactions		(1,500,000)		(500,000)						
Net position end of year	\$	106,845,584	\$	104,464,584	\$	99,136,094	\$	91,886,553	\$	82,369,575
City of Bismarck Police Pension Pl	an									
Net position beginning of year	\$	41,841,987	\$	40,089,884	\$	38,108,450	\$	33,953,131	\$	35,834,028
Net change in fair value of investments	Ψ	637,666	Ψ	1,426,526	Ψ	2,356,809	Ψ.	3,396,504	Ψ	(604,855)
Interest, dividends and other income		893,700		929,699		921,416		862,083		821,724
Expenses		(116,264)		(106,866)		(99,784)		(106,294)		(101,614
Net securities lending income		2,169		2,744		2,993		3,026		3,848
Net change in net position		2,109		-, ,		2,>>0		2,020		5,6.6
resulting from unit transactions		(750,000)		(500,000)		(1,200,000)		_		(2,000,000)
Net position end of year	\$	42,509,258	\$	41,841,987	\$	40,089,884	\$	38,108,450	\$	33,953,131
City of Grand Forks Pension Plan	Φ.	<0.200.000	ф	<i>(2, (22, (40)</i>	ф	<2.245.014	ф	55.022.050	Ф	50 145 301
Net position beginning of year	\$	68,399,889	\$	63,623,648	\$	63,347,814	\$	57,923,958	\$	59,147,291
Net change in fair value of investments		1,027,301		2,413,739		4,557,454		5,945,750		(1,154,709)
Interest, dividends and other income		1,368,354		1,463,331		1,398,714		1,342,535		1,271,401
Expenses		(169,943)		(160,844)		(137,236)		(160,995)		(158,797)
Net securities lending income		3,815		4,958		4,991		5,157		6,461
Net change in net position										
resulting from unit transactions		(3,228,306)		1,055,057		(5,548,089)		(1,708,591)		(1,187,689)
Net position end of year	\$	67,401,110	\$	68,399,889	\$	63,623,648	\$	63,347,814	\$	57,923,958
Grand Forks Park District Pension	Plan									
Net position beginning of year	\$	7,173,670	\$	6,773,249	\$	6,156,995	\$	5,715,936	\$	6,027,469
Net change in fair value of investments	Ψ	107,635	4	258,536	4	461,549	4	611,751	Ψ	(86,854)
Interest, dividends and other income		178,522		167,316		123,586		119,884		120,995
Expenses		(22,064)		(20,402)		(10,205)		(13,430)		(13,850)
Net securities lending income		428		508		368		447		645
Net change in net position		720		500		300		 /		043
resulting from unit transactions		(39,298)		(5,537)		40,956		(277,593)		(332,469)
Net position end of year	\$	7,398,893	\$	7,173,670	\$	6,773,249	\$	6,156,995	\$	5,715,936
reciposition end or year	Ψ	1,370,073	Ψ	7,173,070	Ψ	0,773,47	Ψ	0,130,773	Ψ	5,715,750

INSURANCE INVESTMENT POOL

Net securities lending income 1,450 1,714 2,342 2,364 Net change in net position resulting from unit transactions (972,813) (1,675,000) (100,000) (4,125,000) Net position end of year \$ 22,812,681 \$ 22,755,052 \$ 23,063,239 \$ 21,996,785 State Bonding Fund Net position beginning of year \$ 3,609,859 \$ 3,411,247 \$ 3,374,454 \$ 3,296,466 Net change in fair value of investments 114,953 121,242 (25,066) 30,591 Interest, dividends and other income 66,240 80,844 65,328 50,948 Expenses (4,023) (3,563) (3,577) (3,615) Net securities lending income 75 89 108 64 Net change in net position - - - - - resulting from unit transactions - - - - - - Net position beginning of year \$ 5,993,299 \$ 6,166,588 \$ 6,395,816 \$ 7,148,653 Net change in fair value of investments 170,176<			2020		2019		2018		2017		2016
Net position beginning of year \$2,064,717,584 \$1,222,758,322 \$1,893,847,576 \$1,056,093,277 Interest, dividends and other income 47,479,431 50,611,227 47,422,961 46,203,031 Expenses 102,663 116,000 16,000,141 (4,348,175) Net securities lending income 102,623 116,000 71,000,000 (85,000,000) Net obasing in net position 102,623 106,000 71,000,000 71,000,000 71,000,000 Net position end of year \$2,124,783,107 \$2,064,717,584 \$1,922,758,322 \$1,893,847,576 \$2,124,783,107 \$2,064,717,584 \$1,922,758,322 \$1,893,847,576 \$3,847,876 \$3,847,876 \$4,848,940 \$4,848	Workforce Safety & Insurance Fund										
Net change in fiair value of investments 77,621,108 86,250,882 56,336,18 10,5093,277 Interest, dividends and other income 47,479,431 50,611,227 47,422,961 46,210,318 Expenses (4,137,639) (4,018,848) (4,009,14) (4,348,175) Net securities lending income 102,623 116,001 160,745 148,030 Net change in net position resulting from unit transactions (61,000,000) 9,000,000 (71,000,000) (85,000,000) Net position end of year \$2,124,783,107 \$2,064,717,584 \$1,922,758,322 \$1,893,847,576 State Fire & Tornado Fund Net position beginning of year \$2,2755,052 \$23,063,239 \$21,996,785 \$24,074,271 Net position beginning of year \$22,755,052 \$23,063,239 \$21,996,785 \$24,074,271 Net change in fair value of investments 624,250 8871,338 706,982 15,993,798 Interest, dividends and other income 444,343 \$531,919 448,840 491,258 Expenses (39,601) (81,55) (31,810) (40,086) Net securities lending income 444,343 531,919 448,940 491,258 Expenses (39,601) (81,55) (31,810) (40,086) Net securities lending income (972,813) (1,575,000) (100,000) (4,125,000) Net position end of year \$3,609,859 \$3,411,247 \$3,374,454 \$3,296,466 Net change in fair value of investments 114,953 121,242 (25,066) 30,591 Interest, dividends and other income 62,40 80,844 65,326 30,591 Expenses (4,023) (3,563) (3,577) (3,615) Net securities lending income 75 89 10,88 64,054 Expenses (4,023) (3,563) (3,577) (3,615) Net securities lending income 5 3,787,104 \$3,609,859 \$3,411,247 \$3,3374,454 Expenses (4,023) (4,023) (4,023) (4,023) (4,023) Expenses (4,023) (4,023) (4,02		\$	2.064.717.584	\$	1.922.758.322	\$	1.893.847.576	\$	1.831.144.126	\$	1,761,372,600
Interest, dividends and other income		_		_		_		-		_	22,777,732
Expenses	2						, ,		, ,		46,504,149
Net securities lending income 102,623 116,001 160,745 148,030 Net change in net position (61,000,000) 9,000,000 (71,000,000) (85,000,000) Net position end of year \$ 2,124,783,107 \$ 2,064,717,584 \$ 1,922,758,322 \$ 1,893,847,576 State Fire & Tornado Fund Net position beginning of year \$ 22,755,052 \$ 23,063,239 \$ 21,996,785 \$ 24,074,271 Net change in fair value of investments 624,250 871,338 706,982 1,593,978 Interest, dividends and other income 444,333 531,919 488,940 491,258 Expenses (39,601) (38,158) (31,810) 40,086) Net escurities lending income 1,450 1,714 2,342 2,364 Net change in net position 972,813 (1,675,000) (100,000) (41,25,000) Net position end of year \$ 3,699,859 \$ 3,411,247 \$ 3,374,454 3,296,466 Net change in fair value of investments 114,953 121,242 (25,066) 30,591 Interest, dividends and other income	,								, ,		(4,681,475)
Net change in net position resulting from unit transactions (61,000,000) 9,000,000 (71,000,000) (85,000,000) Net position end of year \$ 2,124,783,107 \$ 2,064,717,584 \$ 1,922,758,322 \$ 1,893,847,576 State Fire & Tornado Fund Net position beginning of year \$ 22,755,052 \$ 23,063,239 \$ 21,996,785 \$ 24,074,271 Net change in fair value of investments 624,250 871,338 706,982 1,593,978 Interest, dividends and other income 444,343 531,919 488,940 441,258 Expenses (39,601) 1,675,000 3(3,1816) (40,086) Net securities lending income 1,459 1,714 2,324 2,364 Net position end of year \$ 22,812,681 2,2755,052 23,063,239 21,996,785 Net position end of year \$ 3,609,889 \$ 3,411,247 \$ 3,374,454 \$ 3,296,466 Net change in fair value of investments 114,953 21,124 2,250,661 30,591 Interest, dividends and other income 66,240 80,844 65,328 5,044											171,120
Resulting from unit transactions G61,000,000 9,000,000 (71,000,000 (85,000,000) Net position end of year \$ 2,124,783,107 \$ 2,064,717,584 \$ 1,922,758,322 \$ 1,893,847,576 State Fire & Tornado Funt Net position beginning of year \$ 22,755,052 \$ 23,063,239 \$ 21,996,785 \$ 24,074,271 Net change in fair value of investments 624,250 871,338 706,982 1,593,978 Interest, dividends and other income 444,343 531,191 488,940 440,258 Expenses (39,601) (38,158) (31,810) (40,086) Net securities lending income 1,450 1,714 2,342 2,364 Net change in net position 2972,813 1,675,000 (100,000) (4,125,000) Net position end of year \$ 3,609,859 \$ 3,411,247 \$ 3,374,454 \$ 3,296,466 Net change in fair value of investments 114,953 121,242 (25,066) 30,591 Interest, dividends and other income 66,240 80,844 66,328 50,948 Expenses (4,023) (3,563) (3,577) (3,615) Net securities lending income 66,240 80,844 66,328 50,948 Expenses (4,023) (3,563) (3,577) (3,615) Net securities lending income 5 3,787,104 \$ 3,609,859 \$ 3,411,247 \$ 3,374,454 \$ 3,374,454 Petroleum Tank Release Compensation Fund 19,339 (3,937) (3,615) Net position end of year \$ 5,993,299 \$ 6,166,588 \$ 6,395,816 \$ 7,148,653 \$ 8			,		,		,		- 10,000		
Net position end of year	-		(61.000.000)		9.000.000		(71.000.000)		(85,000,000)		5,000,000
Net position beginning of year \$ 22,755,052 \$ 23,063,239 \$ 21,996,785 \$ 24,074,271 Net change in fair value of investments 624,250 871,338 706,982 1,593,978 Interest, dividends and other income 444,343 531,919 488,940 491,258 Expenses (39,601) (38,158) (31,810) (40,086) Net securities lending income 1,450 1,714 2,342 2,364 Net change in net position resulting from unit transactions (972,813) (1,675,000) (100,000) (4,125,000) Net position end of year \$ 22,812,681 \$ 22,755,052 \$ 23,063,239 \$ 21,996,785 State Bonding Fund Net position beginning of year \$ 3,609,859 \$ 3,411,247 \$ 3,374,454 \$ 3,296,466 Net change in fair value of investments 114,953 121,242 (25,066) 30,591 Interest, dividends and other income 66,240 80,844 65,328 50,948 Expenses (4,023) (3,563) (3,577) (3,615) Net securities lending income 75 89 108 64 Net change in net position resulting from unit transactions Net position end of year \$ 3,787,104 \$ 3,609,859 \$ 3,411,247 \$ 3,374,454 Net position beginning of year \$ 5,993,299 \$ 6,166,588 \$ 6,395,816 \$ 7,148,653 Net change in fair value of investments 170,176 191,339 (39,367) 53,887 Interest, dividends and other income 106,406 140,430 115,418 99,013 Expenses (5,680) (5,201) (5,463) (5,859) Net securities lending income 114 1443 184 122 Net change in net position resulting from unit transactions (100,000) (500,000) (300,000) (900,000) Net position beginning of year \$ 6,164,315 \$ 5,993,299 \$ 6,166,588 \$ 6,395,816 Interest, dividends and other income 106,406 140,430 115,418 99,013 Expenses (5,680) (5,201) (5,663) (5,859) Net change in net position resulting from unit transactions (100,000) (500,000) (500,000) (500,000) (500,000) (500,000) (500,000) (500,000) (500,000) (500,000) (500,000) (500,000)	-	\$		\$		\$		\$		\$	1,831,144,126
Net position beginning of year \$ 22,755,052 \$ 23,063,239 \$ 21,996,785 \$ 24,074,271 Net change in fair value of investments 624,250 871,338 706,982 1,593,978 Interest, dividends and other income 444,343 531,919 488,940 491,258 Expenses (39,601) (38,158) (31,810) (40,086) Net securities lending income 1,450 1,714 2,342 2,364 Net change in net position resulting from unit transactions (972,813) (1,675,000) (100,000) (4,125,000) Net position end of year \$ 22,812,681 \$ 22,755,052 \$ 23,063,239 \$ 21,996,785 State Bonding Fund Net position beginning of year \$ 3,609,859 \$ 3,411,247 \$ 3,374,454 \$ 3,296,466 Net change in fair value of investments 114,953 121,242 (25,066) 30,591 Interest, dividends and other income 66,240 80,844 65,328 50,948 Expenses (4,023) (3,563) (3,577) (3,615) Net securities lending income 75 89 108 64 Net change in net position resulting from unit transactions Net position end of year \$ 3,787,104 \$ 3,609,859 \$ 3,411,247 \$ 3,374,454 Net position beginning of year \$ 5,993,299 \$ 6,166,588 \$ 6,395,816 \$ 7,148,653 Net change in fair value of investments 170,176 191,339 (39,367) 53,887 Interest, dividends and other income 106,406 140,430 115,418 99,013 Expenses (5,680) (5,201) (5,463) (5,859) Net securities lending income 114 1443 184 122 Net change in net position resulting from unit transactions (100,000) (500,000) (300,000) (900,000) Net position beginning of year \$ 6,164,315 \$ 5,993,299 \$ 6,166,588 \$ 6,395,816 Interest, dividends and other income 106,406 140,430 115,418 99,013 Expenses (5,680) (5,201) (5,663) (5,859) Net change in net position resulting from unit transactions (100,000) (500,000) (500,000) (500,000) (500,000) (500,000) (500,000) (500,000) (500,000) (500,000) (500,000) (500,000)											
Net change in fair value of investments 624,250 871,338 706,982 1,593,978 Interest, dividends and other income											
Interest, dividends and other income 444,343 531,919 488,940 491,258 Expenses (39,601) (38,158) (31,810) (40,086) Net securities lending income 1,450 1,714 2,342 2,364 Net change in net position resulting fromunit transactions 972,813 (1,675,000) (100,000) (4,125,000) Net position end of year \$ 22,812,681 \$ 22,755,052 \$ 23,063,239 \$ 21,996,785 State Bonding Fund		\$	22,755,052	\$	23,063,239	\$	21,996,785	\$	24,074,271	\$	23,400,586
Expenses (39,601) (38,158) (31,810) (40,086) Net securities lending income 1,450 1,714 2,342 2,364 Net change in net position resulting from unit transactions (972,813) (1,675,000) (100,000) (4,125,000) Net position end of year (22,812,681) (22,755,052) (23,063,239) (21,996,785) State Bonding Fund	2		<i>'</i>								150,447
Net securities lending income 1,450 1,714 2,342 2,364 Net change in net position resulting from unit transactions (972,813) (1,675,000) (100,000) (4,125,000) Net position end of year \$ 22,812,681 \$ 22,755,052 \$ 23,063,239 \$ 21,996,785 State Bonding Fund Net position beginning of year \$ 3,609,859 \$ 3,411,247 \$ 3,374,454 \$ 3,296,466 Net change in fair value of investments 114,953 121,242 (25,066) 30,591 Interest, dividends and other income 66,240 80,844 65,328 50,948 Expenses (4,023) (3,563) (3,577) (3,615) Net securities lending income 75 89 108 64 Net change in net position resulting from unit transactions - - - - - Net position beginning of year \$ 5,993,299 \$ 6,166,588 \$ 6,395,816 \$ 7,148,653 Net change in fair value of investments 170,776 191,339 (39,367) 53,887 Interest, dividends and other income <td>Interest, dividends and other income</td> <td></td> <td>444,343</td> <td></td> <td></td> <td></td> <td>488,940</td> <td></td> <td>491,258</td> <td></td> <td>567,145</td>	Interest, dividends and other income		444,343				488,940		491,258		567,145
Net change in net position resulting from unit transactions (972,813) (1,675,000) (100,000) (4,125,000) Net position end of year \$ 22,812,681 \$ 22,755,052 \$ 23,063,239 \$ 21,996,785 State Bonding Fund	-		(39,601)		(38,158)		(31,810)		(40,086)		(46,813)
Resulting from unit transactions (972,813) (1,675,000) (100,000) (4,125,000) Net position end of year \$ 22,812,681 \$ 22,755,052 \$ 23,063,239 \$ 21,996,785	<u> </u>		1,450		1,714		2,342		2,364		2,906
State Bonding Fund \$ 22,812,681 \$ 22,755,052 \$ 23,063,239 \$ 21,996,785	-										
Net position beginning of year \$ 3,609,859 \$ 3,411,247 \$ 3,374,454 \$ 3,296,466 Net change in fair value of investments 114,953 121,242 (25,066) 30,591 Interest, dividends and other income 66,240 80,844 65,328 50,948 Expenses (4,023) (3,563) (3,577) (3,615) Net securities lending income 75 89 108 64 Net change in net position					(1,675,000)		(100,000)				-
Net position beginning of year \$ 3,609,859 \$ 3,411,247 \$ 3,374,454 \$ 3,296,466 Net change in fair value of investments 114,953 121,242 (25,066) 30,591 Interest, dividends and other income 66,240 80,844 65,328 50,948 Expenses (4,023) (3,563) (3,577) (3,615) Net securities lending income 75 89 108 64 Net change in net position - - - - - resulting from unit transactions - - - - - - Net position end of year \$ 3,787,104 \$ 3,609,859 \$ 3,411,247 \$ 3,374,454 Petroleum Tank Release Compensation Fund Net position beginning of year \$ 5,993,299 \$ 6,166,588 \$ 6,395,816 \$ 7,148,653 Net change in fair value of investments 170,176 191,339 (39,367) 53,887 Interest, dividends and other income 106,406 140,430 115,418 99,013 Expenses (5,680) (5,201) (5,463)	Net position end of year	\$	22,812,681	\$	22,755,052	\$	23,063,239	\$	21,996,785	\$	24,074,271
Net position beginning of year \$ 3,609,859 \$ 3,411,247 \$ 3,374,454 \$ 3,296,466 Net change in fair value of investments 114,953 121,242 (25,066) 30,591 Interest, dividends and other income 66,240 80,844 65,328 50,948 Expenses (4,023) (3,563) (3,577) (3,615) Net securities lending income 75 89 108 64 Net change in net position - - - - - resulting from unit transactions - - - - - - Net position end of year \$ 3,787,104 \$ 3,609,859 \$ 3,411,247 \$ 3,374,454 Petroleum Tank Release Compensation Fund Net position beginning of year \$ 5,993,299 \$ 6,166,588 \$ 6,395,816 \$ 7,148,653 Net change in fair value of investments 170,176 191,339 (39,367) 53,887 Interest, dividends and other income 106,406 140,430 115,418 99,013 Expenses (5,680) (5,201) (5,463)	State Bonding Fund										
Net change in fair value of investments 114,953 121,242 (25,066) 30,591 Interest, dividends and other income 66,240 80,844 65,328 50,948 Expenses (4,023) (3,563) (3,577) (3,615) Net securities lending income 75 89 108 64 Net change in net position resulting from unit transactions - <t< td=""><td>_</td><td>\$</td><td>3.609.859</td><td>\$</td><td>3.411.247</td><td>\$</td><td>3,374,454</td><td>\$</td><td>3.296.466</td><td>\$</td><td>3,180,146</td></t<>	_	\$	3.609.859	\$	3.411.247	\$	3,374,454	\$	3.296.466	\$	3,180,146
Interest, dividends and other income 66,240 80,844 65,328 50,948 Expenses (4,023) (3,563) (3,577) (3,615) Net securities lending income 75 89 108 64 Net change in net position resulting from unit transactions - - - - Net position end of year \$ 3,787,104 \$ 3,609,859 \$ 3,411,247 \$ 3,374,454 Petroleum Tank Release Compensation Fund Net position beginning of year \$ 5,993,299 \$ 6,166,588 \$ 6,395,816 \$ 7,148,653 Net change in fair value of investments 170,176 191,339 (39,367) 53,887 Interest, dividends and other income 106,406 140,430 115,418 99,013 Expenses (5,680) (5,201) (5,463) (5,859) Net securities lending income 114 143 184 122 Net change in net position resulting from unit transactions (100,000) (500,000) (300,000) (900,000) Net position end of year \$ 6,164,315 \$ 5,993,299 \$ 6,166,588 \$ 6,395,816 Insurance Regulatory Trust Fund Net position beginning of year \$ 6,219,113 \$ 5,638,435 \$ 5,288,341 \$ 1,085,848 Net change in fair value of investments 225,107 174,407 114,512 109,740 Interest, dividends and other income 60,326 81,816 61,910 41,650		·		·							68,582
Expenses (4,023) (3,563) (3,577) (3,515) Net securities lending income 75 89 108 64 Net change in net position resulting from unit transactions - - - - - Net position end of year \$ 3,787,104 \$ 3,609,859 \$ 3,411,247 \$ 3,374,454 Petroleum Tank Release Compensation Fund Net position beginning of year \$ 5,993,299 \$ 6,166,588 \$ 6,395,816 \$ 7,148,653 Net change in fair value of investments 170,176 191,339 (39,367) 53,887 Interest, dividends and other income 106,406 140,430 115,418 99,013 Expenses (5,680) (5,201) (5,463) (5,859) Net securities lending income 114 143 184 122 Net change in net position resulting from unit transactions (100,000) (500,000) (300,000) (900,000) Net position end of year \$ 6,164,315 \$ 5,993,299 \$ 6,166,588 \$ 6,395,816 Insurance Regulatory Trust Fund Net position beginning of year \$ 6,219,113 \$ 5,638,435 \$ 5,288,341 \$ 1,085,848 Net change in fair value of investments 225,107 174,407 114,512 109,740 Interest, dividends and other income 60,326 81,816 61,910 41,650	•										51,284
Net securities lending income 75 89 108 64 Net change in net position resulting from unit transactions -											(3,614)
Net change in net position resulting from unit transactions -			, , ,								68
Tesulting from unit transactions											
Net position end of year \$ 3,787,104 \$ 3,609,859 \$ 3,411,247 \$ 3,374,454 Petroleum Tank Release Compensation Fund Net position beginning of year \$ 5,993,299 \$ 6,166,588 \$ 6,395,816 \$ 7,148,653 Net change in fair value of investments 170,176 191,339 (39,367) 53,887 Interest, dividends and other income 106,406 140,430 115,418 99,013 Expenses (5,680) (5,201) (5,463) (5,859) Net securities lending income 114 143 184 122 Net change in net position (100,000) (500,000) (300,000) (900,000) Net position end of year \$ 6,164,315 \$ 5,993,299 \$ 6,166,588 \$ 6,395,816 Insurance Regulatory Trust Fund Net position beginning of year \$ 6,219,113 \$ 5,638,435 \$ 5,288,341 \$ 1,085,848 Net change in fair value of investments 225,107 174,407 114,512 109,740 Interest, dividends and other income 60,326 81,816 61,910 41,650 </td <td></td> <td></td> <td>-</td> <td></td> <td>-</td> <td></td> <td>-</td> <td></td> <td>-</td> <td></td> <td>-</td>			-		-		-		-		-
Net position beginning of year \$ 5,993,299 \$ 6,166,588 \$ 6,395,816 \$ 7,148,653 Net change in fair value of investments 170,176 191,339 (39,367) 53,887 Interest, dividends and other income 106,406 140,430 115,418 99,013 Expenses (5,680) (5,201) (5,463) (5,859) Net securities lending income 114 143 184 122 Net change in net position resulting from unit transactions (100,000) (500,000) (300,000) (900,000) Net position end of year \$ 6,164,315 \$ 5,993,299 \$ 6,166,588 \$ 6,395,816 Insurance Regulatory Trust Fund Net position beginning of year \$ 6,219,113 \$ 5,638,435 \$ 5,288,341 \$ 1,085,848 Net change in fair value of investments 225,107 174,407 114,512 109,740 Interest, dividends and other income 60,326 81,816 61,910 41,650	-	\$	3,787,104	\$	3,609,859	\$	3,411,247	\$	3,374,454	\$	3,296,466
Net position beginning of year \$ 5,993,299 \$ 6,166,588 \$ 6,395,816 \$ 7,148,653 Net change in fair value of investments 170,176 191,339 (39,367) 53,887 Interest, dividends and other income 106,406 140,430 115,418 99,013 Expenses (5,680) (5,201) (5,463) (5,859) Net securities lending income 114 143 184 122 Net change in net position resulting from unit transactions (100,000) (500,000) (300,000) (900,000) Net position end of year \$ 6,164,315 \$ 5,993,299 \$ 6,166,588 \$ 6,395,816 Insurance Regulatory Trust Fund Net change in fair value of investments 225,107 174,407 114,512 109,740 Interest, dividends and other income 60,326 81,816 61,910 41,650	Potroloum Tonk Pologo Component	ion	Fund								
Net change in fair value of investments 170,176 191,339 (39,367) 53,887 Interest, dividends and other income 106,406 140,430 115,418 99,013 Expenses (5,680) (5,201) (5,463) (5,859) Net securities lending income 114 143 184 122 Net change in net position resulting from unit transactions (100,000) (500,000) (300,000) (900,000) Net position end of year \$ 6,164,315 \$ 5,993,299 \$ 6,166,588 \$ 6,395,816 Insurance Regulatory Trust Fund Net position beginning of year \$ 6,219,113 \$ 5,638,435 \$ 5,288,341 \$ 1,085,848 Net change in fair value of investments 225,107 174,407 114,512 109,740 Interest, dividends and other income 60,326 81,816 61,910 41,650	_			Ф	6 166 599	•	6 305 816	¢	7 1/12 653	\$	7,161,986
Interest, dividends and other income 106,406 140,430 115,418 99,013 Expenses (5,680) (5,201) (5,463) (5,859) Net securities lending income 114 143 184 122 Net change in net position resulting from unit transactions (100,000) (500,000) (300,000) (900,000) Net position end of year \$ 6,164,315 \$ 5,993,299 \$ 6,166,588 \$ 6,395,816 Insurance Regulatory Trust Fund Net position beginning of year \$ 6,219,113 \$ 5,638,435 \$ 5,288,341 \$ 1,085,848 Net change in fair value of investments 225,107 174,407 114,512 109,740 Interest, dividends and other income 60,326 81,816 61,910 41,650		φ		φ		Ф		φ		φ	133,864
Expenses (5,680) (5,201) (5,463) (5,859) Net securities lending income 114 143 184 122 Net change in net position resulting from unit transactions (100,000) (500,000) (300,000) (900,000) Net position end of year \$ 6,164,315 \$ 5,993,299 \$ 6,166,588 \$ 6,395,816 Insurance Regulatory Trust Fund Net position beginning of year \$ 6,219,113 \$ 5,638,435 \$ 5,288,341 \$ 1,085,848 Net change in fair value of investments 225,107 174,407 114,512 109,740 Interest, dividends and other income 60,326 81,816 61,910 41,650	2						. , ,				108,926
Net securities lending income 114 143 184 122 Net change in net position resulting from unit transactions (100,000) (500,000) (300,000) (900,000) Net position end of year \$ 6,164,315 \$ 5,993,299 \$ 6,166,588 \$ 6,395,816 Insurance Regulatory Trust Fund Net position beginning of year \$ 6,219,113 \$ 5,638,435 \$ 5,288,341 \$ 1,085,848 Net change in fair value of investments 225,107 174,407 114,512 109,740 Interest, dividends and other income 60,326 81,816 61,910 41,650			,								
Net change in net position resulting from unit transactions (100,000) (500,000) (300,000) (900,000) Net position end of year \$ 6,164,315 \$ 5,993,299 \$ 6,166,588 \$ 6,395,816 Insurance Regulatory Trust Fund Net position beginning of year \$ 6,219,113 \$ 5,638,435 \$ 5,288,341 \$ 1,085,848 Net change in fair value of investments 225,107 174,407 114,512 109,740 Interest, dividends and other income 60,326 81,816 61,910 41,650											(6,259) 136
resulting from unit transactions (100,000) (500,000) (300,000) (900,000) Net position end of year \$ 6,164,315 \$ 5,993,299 \$ 6,166,588 \$ 6,395,816 Insurance Regulatory Trust Fund Net position beginning of year \$ 6,219,113 \$ 5,638,435 \$ 5,288,341 \$ 1,085,848 Net change in fair value of investments 225,107 174,407 114,512 109,740 Interest, dividends and other income 60,326 81,816 61,910 41,650			114		143		104		122		130
Insurance Regulatory Trust Fund \$ 6,164,315 \$ 5,993,299 \$ 6,166,588 \$ 6,395,816 Net position beginning of year \$ 6,219,113 \$ 5,638,435 \$ 5,288,341 \$ 1,085,848 Net change in fair value of investments 225,107 174,407 114,512 109,740 Interest, dividends and other income 60,326 81,816 61,910 41,650	-		(100,000)		(500,000)		(200,000)		(000,000)		(250,000)
Insurance Regulatory Trust Fund Net position beginning of year \$ 6,219,113 \$ 5,638,435 \$ 5,288,341 \$ 1,085,848 Net change in fair value of investments 225,107 174,407 114,512 109,740 Interest, dividends and other income 60,326 81,816 61,910 41,650		\$		\$		\$		\$		\$	7,148,653
Net position beginning of year \$ 6,219,113 \$ 5,638,435 \$ 5,288,341 \$ 1,085,848 Net change in fair value of investments 225,107 174,407 114,512 109,740 Interest, dividends and other income 60,326 81,816 61,910 41,650	ter position and or year	Ψ	0,101,616	Ψ	0,,,0,2,,		0,100,000	Ψ	0,000,010	Ψ	7,110,000
Net position beginning of year \$ 6,219,113 \$ 5,638,435 \$ 5,288,341 \$ 1,085,848 Net change in fair value of investments 225,107 174,407 114,512 109,740 Interest, dividends and other income 60,326 81,816 61,910 41,650	Insurance Regulatory Trust Fund										
Net change in fair value of investments 225,107 174,407 114,512 109,740 Interest, dividends and other income 60,326 81,816 61,910 41,650	· •	\$	6,219,113	\$	5,638,435	\$	5,288,341	\$	1,085,848	\$	2,635,975
Interest, dividends and other income 60,326 81,816 61,910 41,650				•		•	, ,				(14,307)
							,				26,821
Expenses $(4,573)$ $(4,869)$ $(3,107)$ (4.697)	Expenses		(4,573)		(4,869)		(3,107)		(4,697)		(2,768)
Net securities lending income 189 224 279 200											127
Net change in net position											
resulting from unit transactions (786,362) 329,100 176,500 4,055,600			(786,362)		329,100		176,500		4,055,600		(1,560,000)
Net position end of year \$ 5,713,800 \$ 6,219,113 \$ 5,638,435 \$ 5,288,341		\$		\$		\$		\$		\$	1,085,848

INSURANCE INVESTMENT POOL (Continued)

		2020		2019		2018		2017		2016
Cultural Endowment Fund										
Net position beginning of year	\$	475,438	\$	449,190	\$	431,225	\$	386,356	\$	383,024
Net change in fair value of investments	Ψ	9,624	Ψ	16,907	Ψ	26,754	Ψ	40,393	Ψ	59
Interest, dividends and other income		9,929		10,871		9,983		9,403		9,737
Expenses		(1,666)		(1,570)		(1,331)		(1,481)		(1,525)
Net securities lending income		42		40		59		54		61
Net change in net position										
resulting from unit transactions		_		_		(17,500)		(3,500)		(5,000)
Net position end of year	\$	493,367	\$	475,438	\$	449,190	\$	431,225	\$	386,356
				, , , , , , , , , , , , , , , , , , ,		<u> </u>				<u>, , , , , , , , , , , , , , , , , , , </u>
Risk Management Fund										
Net position beginning of year	\$	4,909,610	\$	4,956,766	\$	5,779,115	\$	6,531,063	\$	6,845,712
Net change in fair value of investments		172,210		253,740		169,318		371,439		142,283
Interest, dividends and other income		85,016		106,435		114,213		135,891		154,478
Expenses		(7,478)		(7,629)		(6,357)		(9,781)		(12,010)
Net securities lending income		311		298		477		503		600
Net change in net position										
resulting from unit transactions		(600,000)		(400,000)		(1,100,000)		(1,250,000)		(600,000)
Net position end of year	\$	4,559,669	\$	4,909,610	\$	4,956,766	\$	5,779,115	\$	6,531,063
Risk Management Workers Comp	Fund									
Net position beginning of year	\$ \$	5,188,120	\$	5,357,456	\$	5,532,694	\$	5,512,685	\$	6,221,021
Net change in fair value of investments	Ψ	190,845	Ψ	285,789	Ψ	215,550	Ψ	401,369	Ψ	110,474
Interest, dividends and other income		93,400		102,266		115,169		128,181		142,278
Expenses		(8,332)		(7,707)		(6,488)		(10,079)		(11,724)
Net securities lending income		386		316		531		538		636
Net change in net position		360		310		331		336		030
resulting from unit transactions		(350,000)		(550,000)		(500,000)		(500,000)		(950,000)
Net position end of year	\$	5,114,419	\$	5,188,120	\$	5,357,456	\$	5,532,694	\$	5,512,685
ND Veterans' Cemetery Trust Fun			_		_		_		_	
Net position beginning of year	\$	-	\$	-	\$	-	\$	-	\$	-
Net change in fair value of investments		31,431		-		-		-		-
Interest, dividends and other income		1,484		-		-		-		-
Expenses		(383)		-		-		-		-
Net securities lending income		5		-		-		-		-
Net change in net position										
resulting from unit transactions		280,000						<u> </u>	_	-
Net position end of year	\$	312,537	\$	-	\$	-	\$	-	\$	-
ND Association of Counties Fund										
Net position beginning of year	\$	6,331,288	\$	5,909,536	\$	4,381,695	\$	4,046,185	\$	3,831,089
Net change in fair value of investments	+*	235,639	~	286,310	7	109,928	7	254,411	-	32,045
Interest, dividends and other income		134,353		145,905		126,224		88,365		90,580
Expenses		(12,175)		(10,924)		(8,864)		(7,656)		(7,974)
Net securities lending income		436		461		553		390		445
Net change in net position		.20		.01		223		2,3		
resulting from unit transactions		_		_		1,300,000		_		100,000
Net position end of year	\$	6,689,541	\$	6,331,288	\$	5,909,536	\$	4,381,695	\$	4,046,185
r		0,007,5 11	Ψ'	0,221,200	Ψ'	2,707,330	Ψ	.,501,073	Ψ	.,010,103

INSURANCE INVESTMENT POOL (Continued)

		2020		2019		2018		2017		2016
PERS Group Insurance Fund										
Net position beginning of year	\$	31,053,242	\$	31,600,069	\$	37,481,530	\$	37,700,792	\$	39,652,179
Net change in fair value of investments	Ψ	(218,883)	Ψ	603,923	Ψ	(534,557)	Ψ	(673,576)	Ψ	208,951
Interest, dividends and other income		946,534		917,321		856,706		809,996		389,887
Expenses		(30,879)		(43,655)		(40,622)		(106,491)		(42,532)
Net securities lending income		698		1,584		1,252		809		185
Net change in net position		0,0		1,50+		1,232		007		103
resulting from unit transactions		(271,100)		(2,026,000)		(6,164,240)		(250,000)		(2,507,878)
Net position end of year	\$	31,479,612	\$	31,053,242	\$	31,600,069	\$		\$	37,700,792
Budget Stabilization Fund										
Net position beginning of year *	\$	118,647,704	\$	113,551,329	\$	6,105,913	\$	575,715,191	\$	573,636,701
Net change in fair value of investments		(4,511,372)		2,511,852		(694,082)		(2,161,212)		(2,598,566)
Interest, dividends and other income		17,188,196		2,762,013		1,024,321		5,327,628		14,079,730
Expenses		(874,191)		(183,828)		(89,583)		(293,371)		(806,390)
Net securities lending income		11,162		6,338		2,005		3,131		9,885
Net change in net position										
resulting from unit transactions		596,442,112		-		107,202,755		(572,485,454)		(8,606,169)
Net position end of year	\$	726,903,611	\$	118,647,704	\$	113,551,329	\$	6,105,913	\$	575,715,191
City of Bismarck Deferred Sick Le	ave Fi	und								
Net position beginning of year	**************************************	779,146	\$	729,656	\$	697,552	\$	641,629	\$	871,405
Net change in fair value of investments	φ	27,520	φ	33,901	φ	17,889	φ	43,207	φ	4,725
Interest, dividends and other income		15,694		17,687		16,101		14,747		17,577
Expenses		(2,258)		(2,152)		(1,960)		(2,097)		(2,153)
Net securities lending income		46		54		74		(2,057)		(2,133)
Net change in net position		40		34		74		00		75
resulting from unit transactions		(50,000)								(250,000)
Net position end of year	\$	770,148	\$	779,146	\$	729,656	\$	697,552	\$	641,629
		·								
City of Fargo FargoDome Permane										
Net position beginning of year	\$	44,828,578	\$	44,624,198	\$	41,608,846	\$	38,746,191	\$	40,968,808
Net change in fair value of investments		673,479		1,219,139		2,364,132		3,624,439		(402,921)
Interest, dividends and other income		908,396		1,034,503		937,419		814,008		970,497
Expenses		(90,931)		(88,641)		(72,390)		(81,422)		(97,132)
Net securities lending income		3,601		4,379		6,191		5,630		6,939
Net change in net position										
resulting from unit transactions		(2,800,000)		(1,965,000)		(220,000)		(1,500,000)		(2,700,000)
Net position end of year	\$	43,523,123	\$	44,828,578	\$	44,624,198	\$	41,608,846	\$	38,746,191
ND State Board of Medicine										
Net position beginning of year	\$	2,361,353	\$	2,250,449	\$	2,178,536	\$	2,207,217	\$	2,172,692
Net change in fair value of investments	ψ	57,481	Ψ	60,744	Ψ	23,597	Ψ	69,279	Ψ	(13,650)
Interest, dividends and other income		55,665		54,930		50,861		51,834		53,273
Expenses		(5,331)		(4,935)		(4,025)		(7,288)		(5,270)
Net securities lending income		124		165		1,480		148		172
Net change in net position		124		103		1,400		140		1/2
resulting from unit transactions		_		_		_		(142,654)		_
Net position end of year	\$	2,469,292	\$	2,361,353	\$	2,250,449	\$	2,178,536	\$	2,207,217
The position end of year	φ	4,707,494	ψ	4,301,333	ψ	2,230,449	ψ	2,170,330	Ψ	4,401,411

INSURANCE INVESTMENT POOL (Continued)

		2020		2019		2018		2017		2016		
Lewis & Clark Interpretive Center Endowment												
Net position beginning of year	\$	751,297	\$	702,897	\$	-	\$	-	\$	-		
Net change in fair value of investments		27,707		32,619		(1,265)		-		-		
Interest, dividends and other income		16,467		17,960		4,667		-		-		
Expenses		(2,398)		(2,240)		(666)		-		-		
Net securities lending income		51		61		22		-		-		
Net change in net position												
resulting from unit transactions		-		-		700,139		-		-		
Net position end of year	\$	793,124	\$	751,297	\$	702,897	\$	-	\$	-		
		_								_		
Attorney General Settlement Fund												
Net position beginning of year	\$	-	\$	-	\$	-	\$	-	\$	-		
Net change in fair value of investments		(10,306)		-		-		-		-		
Interest, dividends and other income		23,305		-		-		-		-		
Expenses		(1,952)		-		-		-		-		
Net securities lending income		16		-		-		-		-		
Net change in net position												
resulting from unit transactions		1,045,325		-		-		-		-		
Net position end of year	\$	1,056,388	\$	-	\$	-	\$	-	\$	-		

INDIVIDUAL INVESTMENT ACCOUNTS

		2020		2019		2018		2017		2016
I a com Franci										
Legacy Fund	\$	c 100 007 971	ф	E E77 004 010	¢	4 (95 (27 721	ф	2 906 541 241	¢.	2 225 925 711
Net position beginning of year Net change in fair value of investments	Э	6,122,227,871 150,636,769	\$	5,576,084,018 174,927,813	\$	4,685,637,731	\$	3,806,541,341 389,970,910	\$	3,325,835,711
Interest, dividends and other income		140,318,920		147,634,462		253,324,655 117,456,240		99,597,760		(31,454,851) 86,798,282
Expenses		(14,954,726)		(14,340,987)		(10,853,698)		(10,575,051)		(10,160,008)
Net securities lending income		491,195		616,838		648,335		601,637		(10,160,008)
Net change in net position		491,193		010,838		046,333		001,037		008,237
resulting from unit transactions		596,589,041		237,305,727		529,870,755		399,501,134		434,853,950
Net position end of year	\$	6,995,309,070	\$	6,122,227,871	\$	5,576,084,018	\$	4,685,637,731	\$	3,806,541,341
Net position end of year	Φ	0,993,309,070	Ψ_	0,122,227,871	Ψ	3,370,084,018	Ψ	4,003,037,731	φ	3,000,341,341
Job Service North Dakota										
Net position beginning of year	\$	97,195,676	\$	95,611,108	\$	97,256,634	\$	96,528,021	\$	96,270,523
Net change in fair value of investments		149,250		3,497,989		483,223		3,337,293	·	2,352,098
Interest, dividends and other income		2,792,754		3,043,292		2,739,029		2,187,163		2,650,945
Expenses		(320,937)		(311,651)		(303,667)		(285,579)		(166,226)
Net securities lending income		-		-		-		-		3,516
Net change in net position										•
resulting from unit transactions		(4,567,644)		(4,645,062)		(4,564,111)		(4,510,264)		(4,582,835)
Net position end of year	\$	95,249,099	\$	97,195,676	\$	95,611,108	\$	97,256,634	\$	96,528,021
		· · · · · · · · · · · · · · · · · · ·						<u> </u>		· · · · · ·
Tobacco Prevention and Control Fo	und									
Net position beginning of year	\$	9,291,844	\$	54,357,675	\$	57,453,579	\$	54,359,321	\$	-
Net change in fair value of investments		282,644		1,117,230		828,375		839,579		840,505
Interest, dividends and other income		16,454		113,765		102,409		33,094		8,255
Expenses		(4,447)		(16,826)		(26,688)		(28,415)		(20,328)
Net securities lending income		-		-		-		-		-
Net change in net position										
resulting from unit transactions		(2,000,000)		(46,280,000)		(4,000,000)		2,250,000		53,530,889
Net position end of year	\$	7,586,495	\$	9,291,844	\$	54,357,675	\$	57,453,579	\$	54,359,321
PERS Retiree Health Insurance Co	e dit									
Net position beginning of year	\$	135,852,378	\$	126,505,792	\$	116,059,215	\$	101,546,422	\$	97,598,008
Net change in fair value of investments		3,791,934		5,197,140		5,447,995		10,061,109		(1,185,174)
Interest, dividends and other income		3,527,296		3,371,362		3,138,168		2,342,444		2,271,408
Expenses		(417,596)		(391,416)		(379,586)		(335,760)		(292,820)
Net securities lending income		-		-		-		-		-
Net change in net position										
resulting from unit transactions		1,372,200		1,169,500		2,240,000		2,445,000		3,155,000
Net position end of year	\$	144,126,212	\$	135,852,378	\$	126,505,792	\$	116,059,215	\$	101,546,422

Job Service North Dakota was part of the Pension Investment Pool until mid-FY2016.