

MONTANA



PUBLIC EMPLOYEES' RETIREMENT BOARD
A COMPONENT UNIT OF THE STATE OF MONTANA
COMPREHENSIVE ANNUAL FINANCIAL REPORT
FOR THE FISCAL YEAR ENDED JUNE 30, 2020

STATE OF MONTANA

Public Employees' Retirement Board

Component Unit of the State of Montana

Comprehensive Annual Financial Report

For the Fiscal Year Ended June 30, 2020



Prepared By:
The Fiscal Services Bureau
Public Employee Retirement Administration
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INTRODUCTORY SECTION

Mission Statement of the PERB

The Montana Public Employees' Retirement Board, as fiduciaries, administers its retirement plans and trust funds, acting in the best interest of the members and beneficiaries.

Mission Statement of the MPERA

The Montana Public Employee Retirement Administration efficiently provides quality benefits, education and service to help our plan members and beneficiaries realize a successful retirement.

VISION

To be the best through outstanding communication, education, customer service, and financial stability.

VALUES

Service We strive to provide excellent service that is timely, accurate, thorough, and accessible. Members and employers should receive the best service possible.

Integrity We conduct business in an honest, ethical, and fair environment. We adhere to the highest standards of professional and ethical conduct.

Respect We acknowledge that our dedicated employees are essential to our success. We value the unique contributions of individuals and encourage mutual respect, civility, diversity, and personal development.

Accountability We take ownership and responsibility for our actions and their results. We are fiscally responsible and performance oriented.

Innovation We seek creative solutions to long-range situations and everyday issues. We are willing to embrace change and consider new ideas.

Teamwork We work together to achieve common goals. We are committed to sharing both risks and rewards; we value openness and flexibility.

GOALS

Provide exceptional communication and education to our membership.

Utilize the most current technology effectively and efficiently to manage the MPERA.

Encourage teamwork and training to provide workflow continuity as staffing evolves.

Support the Montana State Legislature regarding laws impacting the MPERA and its members.

INTRODUCTORY SECTION

MONTANA PUBLIC EMPLOYEE RETIREMENT ADMINISTRATION**GREG GIANFORTE**
GOVERNOR**DORE SCHWINDEN**
EXECUTIVE DIRECTOR**STATE OF MONTANA**HELENA (406) 444-3154
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December 23, 2020

The Honorable Greg Gianforte
Governor of Montana
Room 204, State Capitol
PO Box 200801
Helena, MT 59620-0801

Dear Governor Gianforte:

The Public Employees' Retirement Board (PERB) and its staff, the Montana Public Employee Retirement Administration (MPERA), are pleased to submit this Comprehensive Annual Financial Report (CAFR) for the fiscal year ended June 30, 2020, in accordance with § 19-2-407, Montana Code Annotated. The purpose of this letter is to introduce the basic financial statements and provide an analytical overview of the trust funds' financial activities.

MPERA management uses a comprehensive framework of internal controls to ensure the accuracy, completeness, and fairness of all disclosures included in the presentation for which they are responsible. The cost of a control should not exceed the benefits to be derived, the objective is to provide reasonable, rather than absolute assurance, that the financial statements are free of any material misstatements. To the best of our knowledge and belief, the enclosed data is accurate in all material respects and is reported in a manner designed to present fairly the financial position and results of operations of the fiduciary funds administered by MPERA.

For financial reporting purposes, MPERA adheres to accounting principles generally accepted in the United States of America (U.S.). MPERA applies all applicable pronouncements of the Governmental Accounting Standards Board (GASB), including the Management's Discussion and Analysis (MD&A). Defined Benefit, Defined Contribution and Other Employee Benefit transactions are reported on the accrual basis of accounting. Investments are presented at fair value.

The external auditor conducted an independent audit of the basic financial statements in accordance with U.S. generally accepted auditing standards. This audit is described in the Independent Auditor's Report included in the Financial Section on page 15. Management provided the external auditors with full and unrestricted access to MPERA staff to facilitate independent validation of the integrity of the plans' financial reporting.

INTRODUCTORY SECTION

The MD&A immediately follows the independent auditor's report and provides a narrative introduction, overview, and analysis of the financial statements. The MD&A complements this Letter of Transmittal and should be read in conjunction with it.

Profile of the Public Employees' Retirement Board

The PERB is a fiduciary component unit Pension Trust Fund of the State of Montana financial reporting entity. For this reason, the financial statements contained in this report are also included in the State of Montana's CAFR. Fiduciary responsibility for the systems rests with the PERB, which consists of seven members, appointed by the Governor. The members are assigned five-year, staggered terms. They are required to approve a final budget before the beginning of the fiscal year. MPERA management develops the budget for all plans administered and presents it to the PERB. As governed by statute, the defined benefit administrative expenses may not exceed 1.5 percent of the total defined benefit plan retirement benefits paid. The defined contribution plans are also defined in statute and the funding is provided by the fees assessed on account balances.

The PERB oversees ten separate retirement plans and one Other Post Employment Benefit (OPEB) plan:

- Public Employees' Retirement System - Defined Benefit Retirement Plan (PERS-DBRP) in its 75th year of operation
- Judges' Retirement System (JRS)
- Highway Patrol Officers' Retirement System (HPORS)
- Sheriffs' Retirement System (SRS)
- Game Wardens' and Peace Officers' Retirement System (GWPORS)
- Municipal Police Officers' Retirement System (MPORS)
- Firefighters' Unified Retirement System (FURS)
- Volunteer Firefighters' Compensation Act (VFCA)
- Public Employees' Retirement System-Defined Contribution Retirement Plan (PERS-DCRP)
- Deferred Compensation (457(b)) Plan - may defer money into either a pre-tax account or an after-tax (Roth), or both
- Public Employees' Retirement System - DCRP Disability OPEB (PERS-DCRP Disability OPEB is self-insured and provides a defined benefit disability payment for disabled members of the PERS-DCRP.

Economic Condition and Outlook

Investments

The economic condition of the defined benefit plans is based primarily upon investment earnings. The plans are required by law to be maintained on an actuarially sound basis which protects participants' future benefits. A summary of the investment activity can be found in the *Investment Section* of this CAFR beginning on page 137.

Annualized Time-Weighted Rates of Return (Net of Fees) Average of all Defined Benefit Plans			
1 Year	3 Year	5 Year	10 Year
2.72%	5.73%	6.19%	8.83%

The investment portfolio mix at fair value under the CAPP as of June 30, 2020 for the PERS-DBRP:

Domestic Equity	International Equity	Private Investments	Cash Equivalents (short-term)	Core and Non-Core Fixed Income	Real Estate	Natural Resources
31.23%	16.93%	13.09%	2.65%	24.46%	8.57%	3.07%

See MD&A, starting on page 18, and *Investment Section*, page 137, for more detailed analysis and information. The Plan's investment outlook is long term, allowing the portfolio to take advantage of the favorable risk-return characteristics of domestic equities by placing more emphasis on this category.

Funding

The primary funding objectives of the PERB for the pension trust funds are to: 1) ensure that the systems are financially sound and pay all benefits promised using assets accumulated from required employer and member contributions and investment income; and 2) achieve a well-funded status with a range of safety to absorb market volatility without creating an Unfunded Actuarial Liability (UAL). PERB's long-term goal is for all retirement systems to be 100% funded and up to 120% funded to allow a reserve in times of slow markets. The PERB's short-term goal is to obtain actuarial soundness for the plans that do not amortize in 30 years or less.

The information received from the annual actuarial valuation is used by the PERB to recommend funding increases or plan changes or both to the Legislature to address financial sustainability. The contribution rates are statutorily set through the Legislature. The rate of the employer contributions to the plans is composed of the normal cost, amortization of the UAL, and a load for administrative expenses. The administrative expense load is based upon an expense amount expected to occur during the year for each Plan.

In fiscal year 2020, the funded ratios for the MPERA administered retirement systems increased for JRS, MPORS, FURS, and VFCA. However, the funded ratios decreased or remained the same for PERS, HPORS, SRS, and GWPORS. A single year's funded ratio, by itself, does not provide a measure of the funding direction. The status and funding progress of the defined benefit retirement systems is shown in the table on the next page. This information also appears for the defined benefit retirement systems in the *Actuarial Section* of this report on pages 176-177. The PERS-DCRP Disability OPEB schedule of funding progress can be found on page 175.

INTRODUCTORY SECTION

GASB 67 - Accounting

Funds are accumulated to meet future benefit obligations to retirees and beneficiaries. This accumulated balance is referred to as the “net position restricted for pension benefits” in the Statement of Changes in Fiduciary Net Position – Pension Trust Funds in the *Financial Section*, page 38 of this report. The total pension liability is not reported in the basic financial statements; however, it is disclosed in Note 4 to the basic financial statements and in the required supplementary information. The total pension liability is determined by the actuary and is a measure of the present value of actuarial accrued liabilities estimated to be payable in the future to current retirees and beneficiaries. The net pension liability is measured as the total pension liability less the amount of the pension plan’s fiduciary net position. The net pension liability is an accounting measurement for financial statement purposes. The plan fiduciary net position as a percentage of the total pension liability for each plan is shown in the table below. This information also appears in Note 4 to the basic financial statements and in the required supplementary information. The PERS-DBRP Fiduciary Net Position does not include the Education component.

(dollars in thousands)		Valuation (Funding)	GASB 67 (Accounting)
System	Fiduciary Net Position	Funded Status	FNP as % of TPL
PERS-DBRP	\$ 5,845,474,024	74.08 %	68.90 %
JRS	\$ 106,065,672	162.86 %	152.57 %
HPORS	\$ 151,967,709	64.52 %	39.39 %
SRS	\$ 384,294,754	81.24 %	75.92 %
GWPORS	\$ 212,910,191	83.83 %	61.17 %
MPORS	\$ 451,150,482	70.76 %	64.84 %
FURS	\$ 477,936,941	81.53 %	75.34 %
VFCA	\$ 39,908,236	87.15 %	81.42 %
DC Disability OPEB	\$ 5,753,289	110.59 %	N/A

Awards

The Government Finance Officers Association of the United States and Canada (GFOA) awarded a Certificate of Achievement for Excellence in Financial Reporting to the Montana Public Employees’ Retirement Board for its comprehensive annual financial report for the fiscal year ended June 30, 2019. This was the twenty-second consecutive year that the Montana Public Employees’ Retirement Board has achieved this prestigious award. In order to be awarded a Certificate of Achievement, a government entity 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 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.

MPERA also received the Public Pension Coordinating Council (PPCC) Public Pension Standards Award for 2020 in recognition of meeting the professional standards for plan administration set forth in the Public Pension Standards. This is the eighteenth year the PPCC is offering the PPCC Standards Award Program to public retirement systems and the fifteenth time MPERA has received the PPCC award. The Public Pension Standards are intended to reflect minimum expectations for public retirement system management and administration, as well as serve as a benchmark by which all defined benefit public plans should be measured.

Acknowledgments

The compilation of this report reflects the effort of the MPERA Fiscal Services Bureau accounting staff. This report is intended to provide complete and reliable information to facilitate the management decision process, serve as a means of determining compliance with legal provisions, and to serve as a means of determining responsible stewardship of the plans' funds. MPERA received an unmodified opinion from our independent auditors on the financial statements included in this report. This opinion provides assurance that the financial statements can be relied upon.

We would like to take this opportunity to express our gratitude to the staff, the advisors, and the many people who have worked so diligently to assure the successful operation of the plans.

Respectfully submitted,

/s/ Dore Schwinden

Dore Schwinden, Executive Director
Montana Public Employee
Retirement Administration

/s/ Sheena Wilson

Sheena Wilson, President
Montana Public Employees'
Retirement Board



Government Finance Officers Association

Certificate of
Achievement
for Excellence
in Financial
Reporting

Presented to

**Montana Public Employees'
Retirement Board**

For its Comprehensive Annual
Financial Report
For the Fiscal Year Ended

June 30, 2019

Christopher P. Morrell

Executive Director/CEO



Public Pension Coordinating Council

**Recognition Award for Administration
2020**

Presented to

Montana Public Employees' Retirement Administration

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

Alan H. Winkle
Program Administrator

Fiscal Year 2020 Highlights

Membership (Table on Page 69)	DB Plans	DC & 457 Plans*
Active Members	35,830	8,701
Inactive Vested Members	5,270	4,932
Inactive Members	22,024	790
Service Retirement Members	27,657	106
Disability Retirement Members**	212	9
Survivor Benefits	628	1
TOTAL	91,621	14,539

*The Inactive, Service, Disability, and Survivor are DC members, not 457 members, the PERB does not have that information.

**The nine disability retirements in the DC and 457 Plans column are in the PERS-DCRP Disability OPEB Plan, which is a Defined Benefit Plan.

Contributions	DB Plans	DC & 457 Plans
Employer	\$ 153,142,539	\$ 14,516,451
Plan Member (Employee)	\$ 133,450,723	\$ 46,621,589
State	\$ 38,263,368	\$ 95,035
Interest Reserve Buyback (Interest on Service Purchases)	\$ 358,698	
Retirement Incentive Program	\$ 973	
State Appropriation	\$ 33,951,150	
Nonvested Member Forfeitures (PERS-DCRP)		\$ 775,195
Miscellaneous Revenue	\$ 62,524	\$ 681,364
TOTAL	\$ 359,229,975	\$ 62,689,634

Distributions	DB Plans	DC & 457 Plans
Benefits Paid (Includes \$101,436 DCRP Disability OPEB Plan)	\$ 553,924,379	
Refunds Paid (DB Plans) / Distributions Paid (DC & 457 Plans)	\$ 17,408,960	\$ 45,449,075

Investments	DB Plans	DC & 457 Plans
Net Investment and Securities Lending Income	\$ 205,862,212	\$ 47,798,884
Investment Rate of Return (12-month period) ¹	2.72 %	

¹Actuarial investment rate of return is 7.65%

Financial (Note A4. Net Pension Liability of Employers, page 44)	PERS-DBRP	All DB Plans
Total Pension Liability	\$ 8,483,685,413	\$ 11,172,421,768
Fiduciary Net Position	\$ 5,845,474,024	\$ 7,669,708,009
Net Pension Liability	\$ 2,638,211,389	\$ 3,502,713,759
Ratio of Fiduciary Net Position to Total Pension Liability	68.90 %	68.65 %

Funding (Schedule of Funding Progress, pages 176 & 177)	PERS-DBRP	All DB Plans
Actuarial Value of Assets	\$ 6,099,398,162	\$ 8,003,588,862
Actuarial Accrued Liability (AAL)	\$ 8,234,002,983	\$ 10,632,099,848
Unfunded AAL (UAAL)	\$ 2,134,604,821	\$ 2,628,510,986
Ratio of Actuarial Assets to Actuarial Liabilities	74.08 %	75.28 %

INTRODUCTORY SECTION

2020 Operational Highlights

• Processed 1,601 new retirement applications
• Processed 1,660 refund applications
• Member Call Center answered a total of 35,124 calls
• Employer Call Center answered a total of 10,653 calls
• Performed 154 education seminars to 2,215 members

History of Actuarial Investment Rate of Return

July 1, 1964 through June 30, 1966	4.00 %
July 1, 1967 through June 30, 1968	4.50 %
July 1, 1969 through June 30, 1976	5.50 %
July 1, 1976 through June 30, 1982	7.00 %
July 1, 1982 through June 30, 1988	8.00 %
July 1, 1988 through June 30, 1993 Experience Study (1994)	8.00 %
July 1, 1993 through June 30, 1999 Experience Study (2000 valuations)	8.00 %
July 1, 1999 through June 30, 2003 Experience Study (2003)	8.00 %
July 1, 2003 through June 30, 2009 Experience Study (2010 valuations)	7.75 %
July 1, 2009 through June 30, 2016 Experience Study (2017 valuations)	7.65 %

History of Funded Ratios

Actuarial Valuation Date	PERS-DBRP	JRS	HPORS	SRS	GWPORS	MPORS	FURS	VFCA	DC Disability OPEB
6/30/2020	74.08 %	162.86 %	64.52 %	81.24 %	83.83 %	70.76 %	81.53 %	87.15 %	110.59 %
6/30/2019	74.19 %	161.23 %	64.55 %	81.56 %	84.24 %	69.23 %	79.97 %	84.76 %	104.93 %
6/30/2018	73.81 %	161.29 %	64.03 %	81.04 %	82.95 %	67.69 %	78.27 %	82.76 %	102.32 %
6/30/2017	72.76 %	167.06 %	64.35 %	80.74 %	81.01 %	68.66 %	76.13 %	80.56 %	87.14 %
6/30/2016	77.31 %	166.48 %	65.84 %	83.21 %	84.06 %	68.79 %	78.27 %	80.21 %	86.83 %
6/30/2015	76.14 %	163.65 %	65.12 %	82.62 %	84.41 %	65.98 %	75.51 %	75.38 %	85.97 %
6/30/2014	74.40 %	155.07 %	63.92 %	81.25 %	83.72 %	62.98 %	71.82 %	82.37 %	
6/30/2013	80.22 %	142.82 %	60.22 %	77.36 %	80.08 %	58.37 %	66.41 %	74.79 %	80.44 %
6/30/2012	67.42 %	136.81 %	57.59 %	74.34 %	75.77 %	54.77 %	61.80 %	73.40 %	
6/30/2011	70.25 %	141.13 %	61.17 %	76.43 %	75.44 %	55.23 %	61.93 %	74.39 %	
6/30/2010	74.21 %	144.13 %	64.30 %	81.36 %	74.79 %	57.19 %	63.72 %	77.01 %	
6/30/2009	83.50 %	147.98 %	72.31 %	89.64 %	88.09 %	62.08 %	68.50 %	81.16 %	
6/30/2008	90.25 %	157.32 %	75.36 %	97.51 %	92.88 %	64.82 %	71.77 %	84.14 %	
6/30/2007	91.05 %	156.74 %	74.63 %	97.28 %	94.20 %	63.88 %	69.99 %	81.84 %	
6/30/2006	88.26 %	139.42 %	77.85 %	94.86 %	91.63 %	60.43 %	65.49 %	72.89 %	
6/30/2005	85.46 %	137.73 %	72.65 %	93.17 %	90.33 %	57.68 %	63.57 %	69.25 %	
6/30/2004	86.72 %	129.98 %	76.01 %	94.90 %	89.86 %	57.48 %	62.44 %	69.94 %	
6/30/2002	99.97 %	145.60 %	86.17 %	113.95 %	99.03 %	63.27 %	68.90 %	71.82 %	

Public Employees' Retirement Board

*A Component Unit of the State of Montana
as of June 30, 2020*

Sheena Wilson, President

Helena
Retired Public Employee
Term Expires April 2023
Email: sheena.wilson@mt.gov

Maggie Peterson, Vice President

Anaconda, Experience in Investment Management
PERS Board Representative - BOI since 5/31/2017
Term Expires April 2024
Email: maggie.peterson@mt.gov

Robyn Driscoll

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Member at Large
Term Expires April 2023
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David Severson

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Member at Large
Term Expires April 2021
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Terri Hogan

Helena
Active DC Plan Member
Term Expires April 2024
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Aaron Pratt

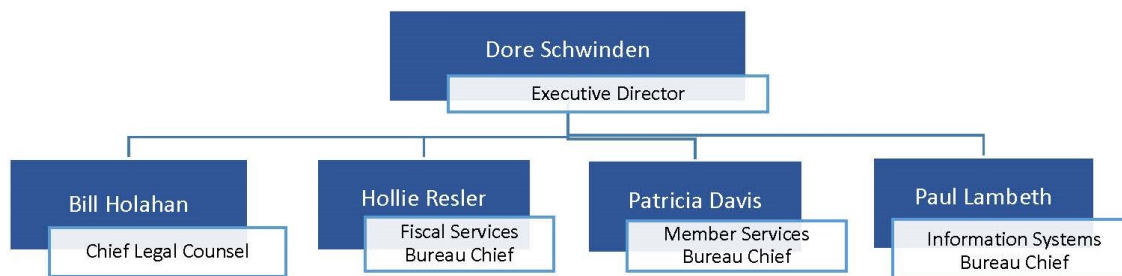
Helena
Active Public Employee
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Dustin LeRette

Helena
Active Public Employee
Term Expires April 2025
Email: Dustin.LeRette@mt.gov

INTRODUCTORY SECTION

MPERA Management Staff as of June 30, 2020



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Sagitec Solutions, LLC

Pension Systems Design
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Saint Paul, MN 55117

State of Montana

Legislative Audit Division

Auditors
Room 160, State Capitol Building
Helena, MT 59620-1705

IceMiller

Legal Tax Consultants
One American Square, Ste 2900
Indianapolis, IN 46282-0200

Pension Benefit Information, LLC

Death Validation Services
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Minneapolis, MN 55402

Faure Holden Attorney's at Law, P.C.

Legal Services
1314 Central Avenue, PO Box 2466
Great Falls, MT 59403-2466

Montana Board of Investments

Defined Benefit Plan and Defined Contribution
Disability OPEB Plan Investment Management
(Page
2401 Colonial Drive, 3rd Floor
Helena, MT 59620-0126

Third Party Administrators (Defined Contribution and 457 Plans)

Pacific Investment Management Company, LLC (PIMCO)

Newport Beach, CA

State Street Bank and Trust Company

Kansas City, MO

Transamerica Premier Life Insurance Company

(Guaranteed Interest Contract (GIC) provider)
Baltimore, Maryland

Prudential Insurance Company of America

(Guaranteed Interest Contract (GIC) provider)
Newark, NJ

Voya Retirement Insurance & Annuity Company

(Guaranteed Interest Contract (GIC) provider)
Windsor, CT

Empower Retirement

Defined Contribution & Deferred Compensation
Recordkeeper
Greenwood Village, CO

FINANCIAL SECTION

LEGISLATIVE AUDIT DIVISION

Angus Maciver, Legislative Auditor
Deborah F. Butler, Legal Counsel



Deputy Legislative Auditors:
Cindy Jorgenson
William Soller

INDEPENDENT AUDITOR'S REPORT

The Legislative Audit Committee
of the Montana State Legislature:

Introduction

We have audited the accompanying Statement of Fiduciary Net Position—Pension (And Other Employee Benefit) Trust Funds of the Public Employees' Retirement Board, a component unit of the state of Montana, as of June 30, 2020, and the related Statement of Changes in Fiduciary Net Position—Pension (And Other Employee Benefit) Trust Funds for the fiscal year then ended, and the related notes to the financial statements.

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 responsibility includes designing, implementing, and maintaining internal controls relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

Auditor's Responsibility

Our responsibility is to express an opinion on these financial statements based on our audit. 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 auditor's 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 controls relevant to the board'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 board's internal control, and 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 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 opinion.

Opinion

In our opinion, the financial statements referred to above present fairly, in all material respects, the fiduciary net position of the Public Employees' Retirement Board as of June 30, 2020, and the changes in fiduciary net position for the fiscal year then ended in conformity with accounting principles generally accepted in the United States of America.

Other Matters

Required Supplementary Information

Accounting principles generally accepted in the United States of America require that the Management's Discussion & Analysis, Schedule of Changes in Multiple-Employer Plans Net Pension Liability/(Asset), Schedule of Changes in Single Employer Plans Net Pension Liability/(Asset), Schedule of Net Pension Liability/(Asset) for Multiple-Employer Plans, Schedule of Net Pension Liability/(Asset) for Single-Employer Plans, Schedule of Employer and Non-Employer (State) Contributions for Cost-Sharing Multiple-Employer Plans, Schedule of Employer Contributions for Single-Employer Plans, Schedule of Investment Returns for Multiple-Employer Plans, Schedule of Investment Returns for Single-Employer Plans, and the Schedule of Total OPEB (Healthcare) Liability and Related Ratios, Last Ten Fiscal Years, and related notes 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.

Supplementary Information

Our audit was conducted for the purpose of forming an opinion on the financial statements as a whole. The following schedules are supplementary information presented for purposes of additional analysis and are not a required part of the financial statements: Schedule of Administrative Expenses, Schedule of Investment Expenses, Schedule of Professional/Consultant Fees; Detail of Fiduciary Net Position (PERS-DBRP and PERS-DBED); the Detail of Changes in Fiduciary Net Position (PERS-DBRP and

PERS-DBEd); Detail of Fiduciary Net Position (PERS-DCRP, PERS-DCEd); and Detail of Changes in Fiduciary Net Position (PERS-DCRP, PERS-DCEd) for the fiscal year ended June 30, 2020. Such information is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the financial statements. The information has been subjected to the auditing procedures applied in the audit of the financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the financial statements or to the 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 financial statements as a whole.

Other Information

Our audit was conducted for the purpose of forming an opinion on the basic financial statements as a whole. The Introductory, Investment, Actuarial, and Statistical sections were presented for purposes of additional analysis and are not a required part of the basic financial statements. Such information has 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 it.

Other Reporting Required by Government Auditing Standards

In accordance with *Government Auditing Standards*, we have also issued our report dated December 23, 2020, on our consideration of the board'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 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 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 the board's internal control over financial reporting and compliance. It is included in the Legislative Auditor's separately issued report (20-08A).

Respectfully submitted,

/s/ Cindy Jorgenson

Cindy Jorgenson, CPA
Deputy Legislative Auditor
Helena, MT

December 23, 2020

Public Employees' Retirement Board

A Component Unit of the State of Montana

Management's Discussion and Analysis

This section presents management's discussion and analysis of the Montana Public Employees' Retirement Board's (PERB) financial presentation and performance of the plans administered by the PERB for the fiscal year ending June 30, 2020. It is presented as a narrative overview and analysis and should be read in conjunction with the Letter of Transmittal included in the Introductory Section, the financial statements and other information presented in the Financial Section of this Component Unit Financial Report. Throughout this discussion and analysis the units of measure (i.e., billions, millions, thousands) are approximate, being rounded up or down to the nearest tenth of the respective unit value.

Financial Highlights

Summary Statement of Fiduciary Net Position - All PERB Plans

(in thousands)	Defined Benefit Total		Change		Defined Contribution & 457 Total		Change	
	2020	2019	Amount	Percent	2020	2019	Amount	Percent
Total Assets	\$ 7,719,731	\$ 7,730,149	\$ (10,418)	(0.1)%	\$ 859,494	\$ 797,227	\$ 62,267	7.8 %
Deferred Outflow of Resources	63	11	52	472.7 %	8	1	7	700.0 %
Total Liabilities	42,410	37,315	5,095	13.7 %	585	1,022	(437)	(42.8)%
Deferred Inflow of Resources	53	59	(6)	(10.2)%	7	9	(2)	(22.2)%
Total Fiduciary Net Position Restricted	\$ 7,677,331	\$ 7,692,786	\$ (15,455)	(0.2)%	\$ 858,910	\$ 796,197	\$ 62,713	7.9 %

The PERB's defined benefit plans combined total fiduciary net position decrease of \$15.5 million, or 0.2%, in fiscal year 2020 was attributed to a combination of a decrease in cash and receivables of \$148.3 million and an increase in total investments of \$133.4 million.

The PERB's defined contribution plans combined total fiduciary net position increase of \$62.7 million, or 7.9%, in fiscal year 2020 was primarily attributed to the total investments of \$855.4 million. Investments in members' defined contribution assets are self-directed, as participants direct their investment allocation to the various investment options. Therefore, the impact to net investment income is a result of the members' investment choices with varying degrees of risk and return potential.

Summary Statement of Changes in Fiduciary Net Position - All PERB Plans

(in thousands)	Defined Benefit Total		Change		Defined Contribution & 457 Total		Change	
	2020	2019	Amount	Percent	2020	2019	Amount	Percent
Total Additions	\$ 565,093	\$ 758,437	\$ (193,344)	(25.5)%	\$ 110,488	\$ 106,278	\$ 4,210	4.0 %
Total Deductions	580,659	547,950	32,709	6.0 %	47,790	40,168	7,622	19.0 %
Net Increase / (Decrease) in Fiduciary Net Position	\$ (15,566)	\$ 210,487	\$ (226,053)	(107.4)%	\$ 62,698	\$ 66,110	\$ (3,412)	(5.2)%
Prior Period Adjustment	\$ 112	\$ 55	\$ 57	51.0 %	\$ 14		\$ 14	100.0 %

Below is a breakdown of the Additions and Deductions in the above *Summary Statement of Changes in Fiduciary Net Positions - All PERB Plans*.

(in thousands)	Defined Benefit Total		Change		Defined Contribution & 457 Total		Change	
	2020	2019	Amount	Percent	2020	2019	Amount	Percent
Additions (Major Source)								
Contributions	\$ 359,230	\$ 343,278	\$ 15,952	4.6 %	\$ 62,689	\$ 51,657	\$ 11,032	21.4 %
Net Investment Income (Loss)	205,863	415,159	(209,296)	(50.4)%	47,799	54,621	(6,822)	(12.5)%
Deductions by Type								
Benefits and Refunds	571,630	539,733	31,897	5.9 %	45,449	37,948	7,501	19.8 %
Administrative Expenses and Net Other Addition/ Deductions	9,029	8,217	812	9.9 %	2,341	2,220	121	5.5 %
Net Increase / (Decrease) in Fiduciary Net Position	\$ (15,566)	\$ 210,487	\$ (226,053)	(107.4)%	\$ 62,698	\$ 66,110	\$ (3,412)	(5.2)%

Defined benefit plan revenues (additions to plan net position) and expenses (deductions to plan net position) for the PERB's fiscal year 2020.

- The Total contributions increased from the prior year by \$16.0 million primarily due to:
 - increases in state contributions;
 - increases in member contributions as a result of a slight increase in the active membership in most defined benefit plans; and,
 - increases in employer contributions as a result of the temporary increase of 0.1% yearly in the PERS-DBRP. The JRS employer contributions moratorium ended on June 30, 2019 (last full pay period of June 2019).
- The Total net investment income decreased from the prior year by \$209.3 million, or 50.4%. The decrease is a result of the money-weighted rate of return for fiscal year 2020 being 2.71% compared to 5.64% in fiscal year 2019. The 2.71% was below the actuarial assumed rate of return of 7.65% for fiscal year 2020.
- Total benefits and refunds increased by \$31.9 million, or 5.9%, primarily due to an increase in retirees. There were less refunds processed this year.

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- The total net other additions and deductions, which includes administrative expenses, increased by \$812 thousand, or 9.9%, primarily due to an increase in expenses to administer the plans especially in increased consulting/professional services.

Defined contribution plan revenues (additions to plan net position) and expenses (deductions to plan net position) for the PERB's fiscal year 2020.

- Total contributions increased by \$11.0 million primarily due to:
 - an increase in PERS-DCRP member contributions as a result of an increase in active members, and
 - an increase in the employer contributions as a result of the temporary increase of 0.1% yearly in the PERS-DCRP.
- The total net investment income decreased from the prior year by \$6.8 million as a result of a decrease in investment returns.
- Total distributions increased by \$7.5 million due to an increase in members taking distributions.
- The total net other additions and deductions, which includes administrative expenses, increased by \$121 thousand due to an increase of expenses to administer the plans especially in increased consulting/professional services.

Actuarial Funding Valuations

The PERB's defined benefit plans' funding objective is to meet long-term benefit obligations. As of June 30, 2020, the date of the latest actuarial valuation, four of the plans amortize the Unfunded Actuarial Liability (UAL) in 30 years or less:

- Sheriffs' Retirement System (SRS),
- Municipal Police Officers' Retirement System (MPORS),
- Firefighters' Unified Retirement System (FURS), and
- Volunteer Firefighters' Compensation Act (VFCA).

The plans that do not amortize the Unfunded Actuarial Liability in 30 years or less are:

- Public Employees' Retirement System (PERS),
- Highway Patrol Officers' Retirement System (HPORS), and
- Game Wardens' and Peace Officers' Retirement System (GWPORS).

The Judges' Retirement System (JRS) has an actuarial surplus. This means there are more assets than liabilities in the plan.

It is important to understand that this measure reflects the Actuarial Value of Assets for each defined benefit plan, which is currently greater than the actual fair value published in the financial statements. Investment earnings are critical to the defined benefit plans. The actuary uses a four-year smoothing method to determine the Actuarial Value of Assets. This method is used to reduce the impact of market volatility. Due to smoothing gains in 2017, and smoothing losses in 2018, 2019 and 2020, return on actuarial value ranged from 6.79% to 7.11% for all systems. These

ranges were less than the 7.65% actuarial assumed rate of return on investments, thus creating actuarial experience losses.

Overview of the Financial Statements

This discussion and analysis is intended to serve as an introduction to the PERB's financial reporting which is comprised of the following components:

- (1) Basic Financial Statements
- (2) Notes to the Basic Financial Statements
- (3) Required Supplementary Information
- (4) Other Supplementary Schedules

Collectively, this information presents the combined net position restricted for pension benefits for each of the plans administered by the PERB as of June 30, 2020. This financial information also summarizes the combined changes in net position restricted for pension benefits for the year then ended. The information in each of these components is briefly summarized as follows:

(1) Basic Financial Statements

For the fiscal year ended June 30, 2020, basic financial statements are presented for the fiduciary funds administered by MPERA, staff of the PERB. Fiduciary funds are used to pay for pension benefits and expenses. The fiduciary funds are comprised of 11 trust funds that consist of ten pension and one other post-employment benefit (OPEB).

- The Statement of Fiduciary Net Position is a point-in-time snapshot of the assets and liabilities and the resulting restricted fiduciary net position. This financial statement reflects the resources available to pay benefits to retirees and beneficiaries at the end of the fiscal year reported.
- The Statement of Changes in Fiduciary Net Position presents the changes in the restricted fiduciary net position during the fiscal year. Additions are primarily contributions from employers, members, and a nonemployer contributing entity, which includes state appropriations, as well as net investment income. Deductions include pension, disability, survivor and death benefit disbursements, distributions of contributions and interest, and administrative expenses.

(2) Notes to the Basic Financial Statements

The Notes to the Basic Financial Statements are an integral part of the financial statements and provide additional information that is essential for a comprehensive understanding of the data provided in the financial statements. The information in the Notes to the Financial Statements is described as follows:

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- **Note A** provides a summary of significant accounting policies including:
 - A1. Basis of Presentation and Basis of Accounting;
 - A2. Capital Assets and Equipment Used in Operations;
 - A3. Operating Lease;
 - A4. Net Pension Liability of Employers;
 - A5. Other Post-Employment Benefits (OPEB for Healthcare);
 - A6. Method used to Value Investments.
- **Note B** provides information about litigation.
- **Note C** describes the membership and descriptions of each of the plans administered by the PERB. Summaries of benefit and contribution information are also provided.

(3) Required Supplementary Information

The required supplementary information (RSI) consists of:

- Schedule of Changes in the Multiple-Employer and Single-Employer Plans Net Pension Liability / (Asset);
- Schedule of Net Pension Liability / (Asset) for Multiple-Employer and Single-Employer Plans;
- Schedule of Employer Contributions for Multiple-Employer and Single-Employer Plans;
- Schedule of Investment Returns.

These schedules are intended to show information for the most recent 10 years. However, for all the schedules only the information for current year and the past six years is presented. Additional yearly data will be displayed as it becomes available.

The RSI also contains related notes concerning actuarial information of the defined benefit pension plans; Other Post-Employment Benefits (OPEB) for the State Healthcare Benefits and related notes to the OPEB plan.

(4) Other Supplementary Schedules

- Schedule of Administrative Expenses;
- Schedule of Investment Expenses; and
- Schedule of Professional / Consultant Fees.

Financial Analysis of the Systems – Defined Benefit Plans

Investments

The State of Montana Board of Investments (BOI), as authorized by state law, invests the defined benefit plans' assets in the *Consolidated Asset Pension Pool (CAPP)* and the *Montana Short Term*

Investment Pool (STIP). Each plan owns an equity position in the pools and receives proportionate investment income from the pools in accordance with respective ownership. Each plan's allocated share of the investment in the pool is shown in the *Statement of Fiduciary Net Position* of the plan. Investment gains and losses are reported in the *Statement of Changes in Fiduciary Net Position*.

Economic Conditions

The Board of Investments' Chief Investment Officer, Jon Putnam, had the following remarks on fiscal year 2020 economic conditions:

"The 2020 fiscal year net return of 2.71% marks the eleventh consecutive year of positive returns for the Public Employees' Retirement System (PERS). Net return performance for PERS since inception was 7.47% annualized. Returns over the five, seven and ten-year time frames ranked in the top quartile versus a public fund, peer universe. Similar returns were realized for all other Montana Public Employee Retirement Administration (MPERA) retirement systems."

"The asset allocation approved by the Montana Board of Investments (MBOI) is designed to reach the pension funds strategic objective while minimizing risk. It provides a framework to capture gains over the long-term while protecting against unmanageable losses during periodic economic declines."

"Returns across asset classes were volatile in fiscal year 2020 as the COVID-19 pandemic and subsequent economic disruption rippled across markets. Core Fixed Income (6.7%), Domestic Equity (5.2%), Private Investments (3.23%), Cash (1.65%), Real Estate (0.74%) and Non-Core Fixed Income (0.43%) all posted positive returns as investors generally sought safety in more conservative asset classes and U.S. dollar denominated investments. Natural Resources (-18.6%) and International Equity (-3.7%) posted negative returns as energy prices collapsed and global economies struggled."

"Going forward, some of the challenges facing the markets include: the ongoing pandemic, domestic and geopolitical tensions, historically low interest rates, and long-term shifts in the supply and demand of goods and services."

"Despite the challenges, MBOI continues to pursue attractive opportunities in the market that are additive to the portfolio over an extended time frame. We expect periods of extreme market volatility and continually mitigate risks in order to meet the liquidity of the pension plans. MBOI believes that disciplined execution of our investment process will help us achieve the long-term objectives of the pension plans." (From Investment Letter written September 10, 2020)

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Fiduciary Net Position - Defined Benefit Plans

As of June 30, 2020 - and comparative totals for June 30, 2019

(dollars in thousands)

	PERS		PERS-DCRP DISABILITY OPEB		JRS		HPORS		SRS	
	2020	2019	2020	2019	2020	2019	2020	2019	2020	2019
Assets:										
Cash and Receivables	\$ 72,267	188,920	482	403	1,224	3,197	2,324	5,682	4,868	12,100
Securities Lending Collateral	30,813	27,174			558	482	797	699	2,024	1,735
Investments	5,775,148	5,716,675	5,271	4,734	104,563	101,339	149,444	147,047	379,310	364,915
Property and Equipment ¹	11	16								
Intangible Assets	1,030	1,214			303	356	257	303	303	357
Total Assets	5,879,269	5,933,999	5,753	5,137	106,648	105,374	152,822	153,731	386,505	379,107
Deferred Outflow of Resources	63	11								
Liabilities:										
Securities Lending Liability ²	30,813	27,174			558	482	797	699	2,024	1,735
Other Payables ³	1,122	1,193			24	7	57	255	186	149
Total Liabilities	31,935	28,367			582	489	854	954	2,210	1,884
Deferred Inflow of Resources	\$ 53	59								
Total Net Position - restricted for pension benefits	\$ 5,847,344	5,905,584	5,753	5,137	106,066	104,885	151,968	152,777	384,295	377,223

¹Due to rounding to thousands instead of hundreds on this Comparative Statement, the Property and Equipment amounts for all systems, but PERS, will not show the 2020 figures. Therefore, the Total Net Position for 2020 will not tie to the Net Position - Restricted for Pension Benefits on the Statement of Fiduciary Net Position on page 36.

Changes In Fiduciary Net Position - Defined Benefit Plans

For the year ended June 30, 2020 - and comparative totals for June 30, 2019

(dollars in thousands)

	PERS		PERS-DCRP DISABILITY OPEB		JRS		HPORS		SRS	
	2020	2019	2020	2019	2020	2019	2020	2019	2020	2019
Additions:										
Contributions	\$ 252,518	244,106	511	465	2,548	517	8,399	8,080	20,290	19,188
Investment Income (Loss)	158,013	320,938	206	314	2,827	5,687	4,101	8,269	10,182	20,397
Total Additions	410,531	565,044	717	779	5,375	6,204	12,500	16,349	30,472	39,585
Deductions:										
Benefits	449,602	422,445	101	97	4,038	3,846	12,684	12,063	21,481	19,512
Refunds	12,097	12,769					361	582	1,631	1,484
OPEB Expenses	10	8								
Administrative Expenses	5,021	4,640			157	123	163	127	295	247
Miscellaneous Expenses ¹	2,252	2,201								
Total Deductions	468,982	442,063	101	97	4,195	3,969	13,208	12,772	23,407	21,243
Incr/(Decr) in Net Position	\$ (58,451)	122,981	616	682	1,180	2,235	(708)	3,577	7,065	18,342
Prior Period ²	211	44					(102)	2	7	

¹Miscellaneous Expenses includes transfers to all other plans.

²Due to the rounding to thousands instead of hundreds, the Prior Period adjustments for some of the systems may not show the 2020 figures.

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GWPORS		MPORS		FURS		VFCA		TOTAL		Total Change	Total % of Change
2020	2019	2020	2019	2020	2019	2020	2019	2020	2019		
\$ 2,659	6,627	21,789	29,160	23,040	30,317	869	1,437	129,522	277,843	(148,321)	(53.4)%
1,121	948	2,291	1,951	2,426	2,047	209	182	40,239	35,218	5,021	14.3 %
210,059	199,466	429,318	410,397	454,769	430,646	39,098	38,342	7,546,980	7,413,561	133,419	1.8 %
								11	16	(5)	(31.3)%
302	357	271	319	267	315	246	290	2,979	3,511	(532)	(15.2)%
214,141	207,398	453,669	441,827	480,502	463,325	40,422	40,251	7,719,731	7,730,149	(10,418)	(0.1)%
								63	11	52	472.7 %
1,121	948	2,291	1,951	2,426	2,047	209	182	40,239	35,218	5,021	14.3 %
110	103	228	98	139	89	305	203	2,171	2,097	74	3.5 %
1,231	1,051	2,519	2,049	2,565	2,136	514	385	42,410	37,315	5,095	13.7 %
								53	59	(6)	(10.2)%
\$ 212,910	206,347	451,150	439,778	477,937	461,189	39,908	39,866	7,677,331	7,692,786	(15,455)	(0.2)%

GWPORS		MPORS		FURS		VFCA		TOTAL		Total Change	Total % of Change
2020	2019	2020	2019	2020	2019	2020	2019	2020	2019		
\$ 10,672	10,252	30,172	28,882	31,633	29,418	2,487	2,370	359,230	343,278	15,952	4.6 %
5,583	11,125	11,658	22,636	12,247	23,722	1,046	2,071	205,863	415,159	(209,296)	(50.4)%
16,255	21,377	41,830	51,518	43,880	53,140	3,533	4,441	565,093	758,437	(193,344)	(25.5)%
8,247	7,350	27,866	26,221	26,839	25,626	3,065	2,997	553,923	520,157	33,766	6.5 %
1,205	1,000	2,351	3,651	62	90			17,707	19,576	(1,869)	(9.5)%
								10	8	2	25.0 %
240	202	241	190	224	171	414	297	6,755	5,997	758	12.6 %
						12	11	2,264	2,212	52	2.4 %
9,692	8,552	30,458	30,062	27,125	25,887	3,491	3,305	580,659	547,950	32,709	6.0 %
\$ 6,563	12,825	11,372	21,456	16,755	27,253	42	1,136	(15,566)	210,487	(226,053)	(107.4)%
1		1	8	(7)	1	1		112	55	57	51.0 %

Analysis of the Individual Defined Benefit Plans

The schedules of *Fiduciary Net Position* and *Changes in Fiduciary Net Position* for the defined benefit plans, including comparative totals from fiscal year 2019, are shown on the previous pages 24 and 25.

PERS-DBRP and Education

The PERS-DBRP fiduciary net position restricted for pension benefits, the largest PERB defined benefit retirement fund, decreased to \$5.8 billion at June 30, 2020, a decrease of \$58.2 million, or 1.0%, from the prior fiscal year.

Additions to the PERS-DBRP net position restricted for pension benefits include contributions from employer, member, and the state; a statutorily-appropriated contribution from the general fund; and investment income. For the fiscal year ended at June 30, 2020:

- Contributions increased from the prior fiscal year by \$8.4 million, or 3.5%. Contributions increased due to an increased employer contribution rate.
- The plan's total net investment income decreased from the prior fiscal year by \$162.9 million, or 50.8%. The decrease is a result of a 2.71% market rate of return for the current fiscal year compared to 5.70% for fiscal year 2019. The 2.71% return is lower than the actuarial assumed rate of return of 7.65%.
- The statutorily-appropriated contribution from the State's general fund received for fiscal year 2020 was \$34.0 million. This is recorded as *State Appropriations* on the financial statements.

Deductions from the PERS-DBRP net position restricted for pension benefits include retirement benefits, refunds, and administrative expenses. For fiscal year 2020:

- Benefits increased from the prior fiscal year by \$27.2 million, or 6.4%. This is due to the increase in benefit recipients and the increase in the average recipient's benefit resulting from the guaranteed annual benefit adjustment (GABA).
- Refunds decreased from the prior fiscal year by \$672.1 thousand, or 5.3%. The decrease is due to the number of members taking a refund decreasing.
- The costs of administering the plan's benefits increased from the prior fiscal year by \$381.3 thousand, or 8.2%. The increase is primarily due to the costs in consulting and professional services pertaining to the computer system project increasing.

PERS-DCRP DISABILITY OPEB

The DCRP Disability OPEB net position restricted for pension benefits at June 30, 2020 amounted to \$5.8 million, an increase of \$616 thousand, or 12.0%, from the prior fiscal year.

Additions to the DCRP Disability OPEB net position restricted for pension benefits include employer contributions and investment income. For fiscal year ended at June 30, 2020:

- Employer contributions increased from the prior fiscal year by \$46.3 thousand or 10.0%. The increase is due to an increase in PERS-DCRP participants.
- The plan's total net investment income decreased from the prior fiscal year by \$108.1 thousand, or 34.4%. The decrease is a result of the subsequent economic disruption across markets due to the COVID-19 pandemic.

Deductions from the DCRP Disability OPEB net position restricted for pension benefits are disability retirement benefits. For fiscal year 2020, benefits had a slight increase of \$4.4 thousand, or 4.5%, from the prior fiscal year. Even though there was a decrease in the number of benefit recipients by one at the end of this fiscal year 2020, the new benefit recipients added during fiscal year 2019 received their benefits for a full fiscal year, resulting in a slight increase in the benefits paid.

JRS

The JRS net position restricted for pensions at June 30, 2020 amounted to \$106.1 million, an increase of \$1.2 million, or 1.1%, from the prior fiscal year.

Additions to the JRS net position restricted for pension benefits include member and employer contributions, and investment income. For the fiscal year ended at June 30, 2020:

- Contributions increased from the prior fiscal year by \$2.0 million, or 392.4%. The increase is due to the end of the moratorium on employer contributions starting January 1, 2018 and ending the last full pay period of June 2019.
- The plan's total net investment income decreased from the prior fiscal year by \$2.9 million, or 50.3%. The decrease is a result of a 2.71% market rate of return for the current fiscal year compared to 5.71% for fiscal year 2019. The 2.71% return is lower than the assumed rate of return of 7.65%.

Deductions from the JRS net position restricted for pension benefits include retirement benefits and administrative expenses. For fiscal year 2020:

- Benefits increased from the prior fiscal year by \$192.2 thousand, or 5.0%. The increase is due to an increase in the average recipient's benefit resulting from the guaranteed annual benefit adjustment (GABA) or the minimum benefit adjustment for non-GABA recipients.
- Administrative expenses increased from the prior fiscal year by \$34.4 thousand, or 28.1%. The increase is primarily due to the costs in consulting and professional services pertaining to the computer system project increasing.

HPORS

The HPORS net position restricted for pensions at June 30, 2020 amounted to \$152.0 million, a decrease of \$808.9 thousand, or 0.5%, from the prior fiscal year.

Additions to the HPORS net position restricted for pension benefits include employer and member contributions, a statutory appropriation from the general fund, and investment income. For the fiscal year ended at June 30, 2020:

- Contributions increased from the prior fiscal year by \$318.7 thousand, or 3.9%. The slight increase is a result of an increase in active members contributing to the plan.
- The plan's total net investment income decreased from the prior fiscal year by \$4.2 million, or 50.4%. The decrease is a result of a 2.72% market rate of return for the current fiscal year compared to 5.72% for fiscal year 2019. The 2.72% return is lower than the assumed rate of return of 7.65%.

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Deductions from the HPORS net position restricted for pension benefits include retirement benefits, refunds, and administrative expenses. For fiscal year 2020:

- Benefits increased from the prior fiscal year by \$621.7 thousand, or 5.2%. The slight increase is due to an increase in benefit recipients and the increase in the average recipient's benefit resulting from the guaranteed annual benefit adjustment (GABA) or the minimum monthly benefit for non-GABA recipients.
- Refunds decreased from the prior fiscal year by \$221.9 thousand, or 38.1%. The decrease was due to refunds being processed for smaller dollar amounts.
- Administrative expenses increased from the prior fiscal year by \$35.9 thousand, or 28.2%. The increase is primarily due to the costs in consulting and professional services pertaining to the computer system project increasing.

SRS

The SRS net position restricted for pension benefits at June 30, 2020 amounted to \$384.3 million, an increase of \$7.1 million, or 1.9%, from the prior fiscal year.

Additions to the SRS net position restricted for pension benefits include member and employer contributions, and investment income. For fiscal year ended at June 30, 2020:

- Contributions increased from the prior fiscal year by \$1.1 million, or 5.7%. The increase is due to an increase in active members contributing to the plan.
- The plan's total net investment income decreased from the prior fiscal year by \$10.2 million, or 50.1%. The decrease is a result of a 2.70% market rate of return for the current fiscal year compared to 5.71% for fiscal year 2019. The 2.70% return is lower than the assumed rate of return of 7.65%.

Deductions from the SRS net position restricted for pension benefits include retirement benefits, refunds, and administrative expenses. For fiscal year 2020:

- Benefits increased from the prior fiscal year by \$2.0 million, or 10.1%. The increase is due to an increase in benefit recipients and the average recipient's benefit resulting from the guaranteed annual benefit adjustment (GABA).
- Refunds increased from the prior fiscal year by \$147.3 thousand, or 9.9%. The increase is due to an increase in the number of members taking a refund.
- Administrative expenses increased from the prior fiscal year by \$48.5 thousand, or 19.7%. The increase is primarily due to the costs in consulting and professional services pertaining to the computer system project increasing.

GWPORS

The GWPORS net position restricted for pension benefits at June 30, 2020, amounted to \$212.9 million, an increase of \$6.6 million, or 3.2%, from the prior fiscal year.

Additions to the GWPORS net position restricted for pension benefits include member and employer contributions, and investment income. For the fiscal year ended at June 30, 2020:

- Contributions increased from the prior fiscal year by \$419.8 thousand, or 4.1%. The increase is due to an increase in active members contributing to the plan.
- The plan's total net investment income decreased from the prior fiscal year by \$5.5 million, or 49.8%. The decrease is a result of a 2.69% market rate of return for the current fiscal

year compared to 5.72% for fiscal year 2019. The 2.69% return is lower than the assumed rate of return of 7.65%.

Deductions from the GWPORS net position restricted for pensions include retirement benefits, refunds, and administrative expenses. For fiscal year 2020:

- Benefits increased from the prior fiscal year by \$897.3 thousand, 12.2%. The increase is due to the increase in benefit recipients and the increase in the average recipient's benefit due to the guaranteed annual benefit adjustment (GABA).
- Refunds increased from the prior fiscal year by \$205.0 thousand, or 20.5%. The increase is due to an increase in refund requests from members.
- Administrative expenses increased from the prior fiscal year by \$38.2 thousand, or 18.9%. The increase is primarily due to the costs in consulting and professional services pertaining to the computer system project increasing.

MPORS

The MPORS net position restricted for pension benefits at June 30, 2020 amounted to \$451.2 million, an increase of \$11.4 million, or 2.6%, from the prior fiscal year.

Additions to the MPORS net position restricted for pension benefits include employer, member, and state contributions, and investment income. For the fiscal year ended June 30, 2020:

- Contributions increased from the prior fiscal year by \$1.3 million, or 4.5%. Contributions increased due to an increase in active members contributing to the plan.
- The plan's total net investment income decreased from the prior fiscal year by \$11.0 million, or 48.5%. The decrease is a result of a 2.74% market rate of return for current fiscal year compared to 5.72% for fiscal year 2019. The 2.74% return is lower than the assumed rate of return of 7.65%.

Deductions from the MPORS net position restricted for pension benefits include retirement benefits, refunds, and administrative expenses. For fiscal year 2020:

- Benefits increased from the prior fiscal year by \$1.6 million, or 6.3%. The increase is due to the increase in benefit recipients and the increase in the average recipient's benefit resulting from the guaranteed annual benefit adjustment (GABA) or the minimum benefit adjustment for non-GABA recipients.
- Refunds decreased from the prior fiscal year by \$1.3 million, or 35.6%. The decrease is due to a decrease of refund requests from members.
- Administrative expenses increased from the prior fiscal year by \$51.0 thousand, or 26.8%. The increase is primarily due to the costs in consulting and professional services pertaining to the computer system project increasing.

FURS

The FURS net position restricted for pension benefits at June 30, 2020, amounted to \$477.9 million, an increase of \$16.7 million, or 3.6% from the prior fiscal year.

Additions to the FURS net position restricted for pension benefits include employer, member, and state contributions, and investment income. For the fiscal year ended June 30, 2020:

FINANCIAL SECTION

- Contributions increased from the prior fiscal year by \$2.2 million, or 7.5%. Contributions increased due to an increase of active members contributing to the plan.
- The plan's total net investment income decreased from the prior fiscal year by \$11.5 million, or 48.4%. The decrease is a result of a 2.73% market rate of return for current fiscal year compared to 5.72% for fiscal year 2019. The 2.73% return is lower than the assumed rate of return of 7.65%.

Deductions from the FURS net position restricted for pension benefits include retirement benefits, refunds, and administrative expenses. For fiscal year 2020:

- Benefits increased from the prior fiscal year by \$1.2 million, or 4.7%. The increase is due to the increase in benefit recipients and the increase in the average recipient's benefit resulting from the guaranteed annual benefit adjustment (GABA) or the minimum benefit adjustment for non-GABA recipients.
- Refunds decreased from the prior fiscal year by \$28.0 thousand, or 31.2%. The decrease is due to a decrease in refund requests from members and smaller refund amounts.
- Administrative expenses increased from the prior fiscal year by \$53.2 thousand, or 31.2%. The increase is primarily due to the costs in consulting and professional services pertaining to the computer system project increasing.

VFCA

The VFCA net position restricted for pension benefits at June 30, 2020 amounted to \$39.9 million, an increase of \$42.2 thousand, or 0.1%, from the prior fiscal year.

Additions to the VFCA net position restricted for pension benefits include state contributions and investment income. For the fiscal year ended June 30, 2020:

- Contributions increased from the prior fiscal year by \$116.3 thousand, or 4.9%. The increase is due to increased fire insurance premium taxes distributed to the VFCA from the general fund.
- The plan's total net investment income decreased from the prior year by \$1.0 million, or 49.5%. The decrease is a result of a 2.73% market rate of return for current fiscal year compared to 5.70% for fiscal year 2019. The 2.73% return is lower than the assumed rate of return of 7.65%.

Deductions from the VFCA net position restricted for pension benefits include retirement benefits, administrative expenses, and supplemental insurance payments. For fiscal year 2020:

- Benefits increased from the prior fiscal year by \$68.2 thousand, or 2.3%. The increase is due to the increase in benefit recipients.
- Administrative expenses increased from the prior fiscal year by \$117.2 thousand, or 39.5%. The increase is primarily due to the costs in consulting and professional services pertaining to the computer system project increasing.
- Supplemental insurance payments increased from the prior fiscal year by \$1.3 thousand. The increase is due to an increase of supplemental insurance claims by VFCA companies.

Fiduciary Net Position - Defined Contribution Plans**As of June 30, 2020 - and comparative totals for June 30, 2019**

(dollars in thousands)

	PERS-DCRP		457-PLAN		TOTAL		Total Change	Total % of Change
	2020	2019	2020	2019	2020	2019		
Assets:								
Cash and Receivables	\$ 2,675	2,671	924	740	3,599	3,411	188	5.5 %
Securities Lending Collateral								
Investments	294,649	260,973	560,706	532,205	855,355	793,178	62,177	7.8 %
Property and Equipment	1	2	1	2	2	4	(2)	(50.0)%
Intangible Assets	246	290	292	344	538	634	(96)	(15.1)%
Total Assets	297,571	263,936	561,923	533,291	859,494	797,227	62,267	7.8 %
Deferred Outflow of Resources*	6	1	2		8	1	7	449.4 %
Liabilities:								
Other Payables	280	723	305	299	585	1,022	(437)	(42.8)%
Total Liabilities	280	723	305	299	585	1,022	(437)	(42.8)%
Deferred Inflow of Resources	\$ 5	6	2	3	7	9	(2)	(22.2)%
Total Net Position - restricted for pension benefits	\$ 297,292	263,208	561,618	532,989	858,910	796,197	62,713	7.9 %

* Deferred Outflow of Resources less than \$1,000 will not appear on this statement

Changes in Fiduciary Net Position - Defined Contribution Plans**For the year ended June 30, 2020 - and comparative totals for June 30, 2019**

(dollars in thousands)

	PERS-DCRP		457-PLAN		TOTAL		Total Change	Total % of Change
	2020	2019	2020	2019	2020	2019		
Additions:								
Contributions	\$ 29,571	27,403	33,118	24,254	62,689	51,657	11,032	21.4 %
Investment Income (Loss)	15,374	17,962	32,425	36,659	47,799	54,621	(6,822)	(12.5)%
Total Additions	44,945	45,365	65,543	60,913	110,488	106,278	4,210	4.0 %
Deductions:								
Benefits								
Distributions	9,859	9,022	35,590	28,926	45,449	37,948	7,501	19.8 %
OPEB Expenses	1	1			1	1		
Administrative Expenses	678	633	457	427	1,135	1,060	75	7.1 %
Miscellaneous Expenses	330	284	875	875	1,205	1,159	46	4.0 %
Total Deductions	10,868	9,940	36,922	30,228	47,790	40,168	7,622	19.0 %
Incr/(Decr) in Net Position ¹	\$ 34,077	35,425	28,621	30,685	62,698	66,110	(3,412)	(5.2)%
Prior Period	\$ 7		7		14		14	

¹ Due to rounding to thousands instead of hundreds on this Comparative Statement, the Incr/(Decr) in Net Position for the 457 Plan will not tie to the Net Increase (Decrease) on the Statement of Changes in Fiduciary Net Position on page 38.**Analysis of the Defined Contribution Plans**

The PERB administers two defined contribution plans: *The Public Employees' Retirement System-Defined Contribution Retirement Plan (PERS-DCRP)* and the *Deferred Compensation (457) Plan*. The schedules of *Fiduciary Net Position* and *Changes in Fiduciary Net Position* for the two defined contribution plans, including comparative totals from fiscal year 2019, are presented above.

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PERS-DCRP

The PERS-DCRP net position restricted for pension benefits at June 30, 2020, amounted to \$297.3 million, an increase of \$34.1 million, or 12.9%, from the prior fiscal year.

Additions to the PERS-DCRP net position restricted for pension benefits include contributions and investment income. For the fiscal year ended June 30, 2020:

- Contributions increased from the prior fiscal year by \$2.2 million, or 7.9%. Total compensation increased as a result of an increase in active participants and an increase in employer contribution rates.
- The plan's net investment income decreased from the prior fiscal year by \$2.6 million, or 14.4%. The decrease is a result of the COVID-19 pandemic and subsequent economic disruption across markets.

Deductions from the PERS-DCRP net position restricted for pension benefits include member and beneficiary distributions, administrative expenses, and miscellaneous expenses. For fiscal year 2020:

- Distributions increased from the prior fiscal year by \$837 thousand, or 9.3%. The increase in distributions was due to an increase in defined contribution members taking IRS permitted rollovers and periodic or lump sum distributions.
- The costs of administering the plan increased from the prior fiscal year by \$44 thousand, or 7.0%. The increase is primarily due to the costs in consulting and professional services pertaining to the computer system project increasing.

Miscellaneous expenses are the PERB's administrative fees assessed by the vendors based on account balances. Miscellaneous expenses increased from the prior fiscal year by \$46 thousand, or 16.3%. The increase is due to the increased number of members investing in the plan.

Deferred Compensation (457(b)) Plan

The Deferred Compensation net position restricted for pension benefits at June 30, 2020 amounted to \$561.6 million, an increase of \$28.6 million, or 5.4%, from the prior fiscal year.

Additions to the Deferred Compensation Plan net position restricted for pension benefits include contributions and investment income. For fiscal year ended June 30, 2020:

- Contributions increased from the prior fiscal year by \$8.9 million, or 36.6%. The increase is due to an increase in participants contributing to the plan and larger deferral amounts.
- The plan's net investment income decreased from prior fiscal year by \$4.2 million, or 11.6%. The decrease is a result of the COVID-19 pandemic and subsequent economic disruption across markets.

Deductions from the Deferred Compensation Plan net position restricted for pension benefits include member and beneficiary distributions, administrative expenses, and miscellaneous expenses. For fiscal year 2020:

- Distributions increased from the prior fiscal year by \$6.7 million, or 23.0%. The increase is due to more deferred compensation participants taking distributions.

- The administrative expenses increased from the prior fiscal year by \$30 thousand, or 7.1%. The increase is primarily due to the costs in consulting and professional services pertaining to the computer system project increasing.

Miscellaneous expenses are the PERB's administrative fees assessed by the vendors based on account balances. Miscellaneous expenses increased slightly from the prior fiscal year by \$1 thousand, or 0.08%. The increase is due to a slight increase in participant account balances.

Actuarial Valuations and Funding Progress

The PERB's consulting actuary conducts two actuarial valuations on an annual basis for each PERB defined benefit retirement plans and the DC Disability OPEB plan: one for GASB-compliant "financial reporting" purposes, and the other for "traditional funding" purposes. Results of each are highlighted in the following paragraphs.

GASB Statements No. 67 and No. 68 Actuarial Valuations

This is the seventh year since the PERB implemented pension accounting and financial reporting standards authorized by the Governmental Accounting Standards Board (GASB). To comply with GASB Statement No. 67, *Financial Reporting for Pensions, an amendment of GASB Statement No. 25*, the PERB relied upon its consulting actuary to compute the total pension liability, net pension liability, pension income or expense, and deferred outflows and deferred inflows of resources for each of its defined benefit retirement funds as of June 30, 2020. The PERB's participating governmental employers are required to report their respective shares of these amounts in their financial statements in compliance with GASB Statement No. 68, *Accounting and Financial Reporting for Pensions, an amendment of GASB Statement No. 27*.

For PERB's largest cost-sharing, multiple-employer defined benefit plan, the Public Employees Retirement System (PERS), the June 30, 2020, GASB-compliant actuarial valuation report revealed a net pension liability of \$2.6 billion. This is an increase from the fiscal year 2019 net pension liability of \$2.1 billion. As a result of this June 30, 2020 actuarial valuation, the plan's fiduciary net position as a percentage of the total pension liability was 68.90%, decreasing 4.95% from the ratio of 73.85% reported as of June 30, 2019.

Additional information on the GASB-compliant actuarial valuation results for PERB's defined benefit retirement plans may be found in the *Financial Section* of this report in: *Note 4 Net Pension Liability of Employers* beginning on page 43; on page 88; and in the *Required Supplementary Information (RSI)* beginning on page 98.

Funding Actuarial Valuations

A traditional funding actuarial valuation of each of the defined benefit plans and the DCRP Disability OPEB plan is performed annually. The purpose of the traditional funding actuarial valuation is to measure funding progress, and to determine the actuarial determined contribution, contribution sufficiency or deficiency, and other actuarial information necessary for monitoring funding position. The most recent actuarial valuation was performed for fiscal year ending June 30, 2020.

FINANCIAL SECTION

The experience study performed during fiscal year 2017 for the six-year period of July 1, 2010 to June 30, 2016 resulted in changes to the demographic and economic actuarial assumptions and implementation of new actuarial factors. These were used in the June 30, 2020 actuarial valuation.

The PERB's funding objective is to meet long-term benefit obligations through investment income and contributions. Employer and member contributions and other contributions for some systems, and the income from investments provide the cash flow needed to finance future retirement benefits. The Actuarial Determined Contribution (ADC) is a critical component of funding for defined benefit plans. The ADC, as defined by GASB, is a target or recommended contribution to a defined benefit pension plan for the reporting period.

Investment earnings are also critical to the defined benefit plans' funding; investment losses deteriorate the plans' funding. The asset smoothing methods utilized by the plans limits the impacts to four years. The funding status in the latest valuation, decreased slightly for PERS, HPORS, SRS, and GWPORS. The funding status in the latest valuation, increased slightly for JRS, MPORS, FURS, and VFCA.

As required by Article VIII, section 15, of the Montana Constitution and section 19-2-409, MCA, the public retirement plans are to be funded on an actuarially sound basis. Public pension plans are considered actuarially sound if the unfunded actuarial accrued liability amortization period is 30 years or less. According to the PERB's June 30, 2020 actuarial valuations, the unfunded liability of PERS-DBRP, HPORS and GWPORS does not amortize within 30 years.

Overall, funding ratios range from a high of 162.86% (JRS) to a low of 64.52% (HPORS). The *Schedule of Funding Progress*, in the *Actuarial Section* of this report, shows the funding for the last ten fiscal years. The table also shows the amount by which actuarial assets exceeded or fell short of actuarial liabilities. The actuary performs a smoothing of investment gains or losses over a period of four years. At June 30, 2020, the actuarial value of assets of all plans was more than the market value of assets by \$333.9 million due to an average positive 2.68% market return in fiscal year 2020.

The changes in the unfunded actuarial accrued liability is shown in the table on the top of the following page. Additional information about the actuarial valuation funding results for each defined benefit fund can be found in the *Actuarial Section* of this report.

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Changes in the Unfunded Actuarial Accrued Liability (UAAL)

System	June 30, 2019 Valuation UAAL	June 30, 2020 Expected UAAL	Total UAAL (Gain)/Loss ¹	June 30, 2020 Valuation UAAL
PERS-DBRP	\$ 2,053,846,849	\$ 2,076,770,816	\$ 57,834,005	\$ 2,134,604,821
PERS-OPEB²	(241,268)	(343,207)	(207,499)	(550,706)
JRS	(39,842,524)	(43,618,881)	914,038	(42,704,843)
HPORS	83,954,141	85,168,932	2,088,164	87,257,096
SRS	85,310,852	83,596,563	8,925,234	92,521,797
GWORS	38,625,906	38,789,027	4,007,072	42,796,099
MPORS	196,300,383	192,960,576	1,809,769	194,770,345
FURS	116,018,199	105,378,710	7,735,305	113,114,015
VFCA	7,191,183	5,715,165	436,491	6,151,656

¹Asset gains decrease the UAAL and losses increase the UAAL.
²PERS-DCRP Disability OPEB.

An analysis of actuarial gains or losses is performed by the PERB's consulting actuary in conjunction with all regularly scheduled valuations. Each gain or loss represents the actuary's estimate of how much the given type of experience caused the Unfunded Actuarial Liability (UAL) or Funding Reserve to change in the period since the previous actuarial valuation. Demographic sources are approximate and the demographic experience is analyzed in greater detail in the actuary's periodic experience studies, with the last one performed during fiscal year 2017. Non-recurring gains and losses result from changes in the actuarial assumptions and benefit improvements. Asset gains decrease the expected UAL and asset losses increase the expected UAL. Refer to the *Summary of Actuarial (Gain)/Loss by Source* schedule in the Actuarial Section for a breakdown of the liabilities.

Additional information about the funding actuarial valuation results for each defined benefit fund may be found in the *Actuarial Section* of this report.

Request for Information

This financial report is intended to provide a general overview of the PERB's financial position as of June 30, 2020, and the results of the financial activities for fiscal year 2020. If you have any questions or comments concerning the contents of this report, please contact Montana Public Employee Retirement Administration:

- By mail at 100 N. Park, Suite 200, PO Box 200131, Helena, Montana 59620-0131,
- By telephone 1-406-444-3154 or toll-free 1-877-275-7372, or
- Via e-mail at mpera@mt.gov.

Public Employees' Retirement Board

A Component Unit of the State of Montana

Statement of Fiduciary Net Position - Pension (And Other Employee Benefit) Trust Funds as of June 30, 2020

	PERS-DBRP	PERS-DCRP DISABILITY OPEB	JRS	HPORS	SRS	GWPORS
Assets						
Cash and Short-term Investments	\$ 68,162,583	475,448	1,216,217	2,319,622	4,478,166	2,613,315
Securities Lending Collateral (Note A6)	30,812,956		557,891	797,350	2,023,785	1,120,758
Receivables						
Interest	30,492	201	513	802	2,001	1,150
Accounts Receivable	3,283,678	6,257	6,795	3,630	387,914	43,755
Due from Other Funds	779,959	287				
Due from Primary Government						
Notes Receivable	9,210					
<i>Total Receivables</i>	4,103,339	6,745	7,308	4,432	389,915	44,905
Investments, at fair value (Note A6)						
Commingled Equity Securities		5,271,096				
CAPP Investment Pool	5,775,148,023		104,563,180	149,444,094	379,309,902	210,059,084
Defined Contributions Fixed Investments						
Defined Contributions Variable Investments						
Deferred Compensation Life Insurance						
<i>Total Investments</i>	5,775,148,023	5,271,096	104,563,180	149,444,094	379,309,902	210,059,084
Capital Assets						
Property and Equipment, at cost,						
net of Accumulated Depreciation (Note A2)	11,410		366	311	366	366
Intangible Assets at cost,						
net of amortization expense	1,030,401		302,439	256,721	302,439	302,439
<i>Total Capital Assets</i>	1,041,811		302,805	257,032	302,805	302,805
Total Assets	5,879,268,712	5,753,289	106,647,401	152,822,530	386,504,573	214,140,867
Deferred Outflow of Resources - OPEB	63,331					
Liabilities						
Securities Lending Liability	30,812,956		557,891	797,350	2,023,785	1,120,758
Accounts Payable	402,737		14,430	16,861	37,302	14,242
Unearned Revenue	223,918		588	3,110	1,964	3,643
Due to Other Funds	16,980		8,820	37,500	146,768	92,033
Compensated Absences	370,735					
OPEB Implicit Rate Subsidy LT	108,221					
Total Liabilities	31,935,547		581,729	854,821	2,209,819	1,230,676
Deferred Inflow of Resources - OPEB	52,833					
<i>Net Position - Restricted for Pension Benefits</i>	\$ 5,847,343,663	5,753,289	106,065,672	151,967,709	384,294,754	212,910,191

The notes to the financial statements are an integral part of this statement.

FINANCIAL SECTION

Defined Benefit Pension Plans				Defined Contribution Plans			Total Pension Trust Funds
MPORS	FURS	VFCA	Total Defined Benefit Pension Plans	PERS-DCRP	457 Plan	Total Defined Contribution Plans	
4,727,491	4,979,189	865,237	89,837,268	2,409,690	522,700	2,932,390	92,769,658
2,290,598	2,426,392	208,607	40,238,337				40,238,337
2,070	2,237	231	39,697	857	215	1,072	40,769
423,187	336,853	3,485	4,495,554	247,704	400,954	648,658	5,144,212
			780,246	16,694		16,694	796,940
16,636,173	17,721,053		34,357,226				34,357,226
			9,210				9,210
17,061,430	18,060,143	3,716	39,681,933	265,255	401,169	666,424	40,348,357
			5,271,096				5,271,096
429,317,602	454,768,867	39,098,340	7,541,709,092				7,541,709,092
				20,409,924	251,031,535	271,441,459	271,441,459
				274,238,478	309,662,157	583,900,635	583,900,635
					12,316	12,316	12,316
429,317,602	454,768,867	39,098,340	7,546,980,188	294,648,402	560,706,008	855,354,410	8,402,334,598
328	324	298	13,769	1,468	1,278	2,746	16,515
270,788	267,271	246,171	2,978,669	246,171	291,888	538,059	3,516,728
271,116	267,595	246,469	2,992,438	247,639	293,166	540,805	3,533,243
453,668,237	480,502,186	40,422,369	7,719,730,164	297,570,986	561,923,043	859,494,029	8,579,224,193
			63,331	5,964	2,524	8,488	71,819
2,290,598	2,426,392	208,607	40,238,337				40,238,337
16,001	13,714	11,742	527,029	225,019	277,306	502,325	1,029,354
102,898	32,029	315	368,465	23	425	448	368,913
108,258	93,110	293,469	796,938				796,938
			370,735	44,693	23,365	68,058	438,793
			108,221	10,191	4,314	14,505	122,726
2,517,755	2,565,245	514,133	42,409,725	279,926	305,410	585,336	42,995,061
			52,833	4,975	2,106	7,081	59,914
451,150,482	477,936,941	39,908,236	7,677,330,937	297,292,049	561,618,051	858,910,100	8,536,241,037

Public Employees' Retirement Board

A Component Unit of the State of Montana

Statement of Changes in Fiduciary Net Position - Pension (And Other Employee Benefit) Trust Funds

for the year ended June 30, 2020

	PERS-DBRP	PERS-DCRP DISABILITY OPEB	JRS	HPORS	SRS	GWPORS
Additions						
Contributions (Note C)						
Employer	\$ 112,448,942	510,981	1,988,166	6,001,646	11,165,645	4,867,879
Plan Member	104,673,083		560,108	2,169,375	9,102,116	5,797,479
Interest Reserve Buyback	335,934			580	12,499	5,640
Retirement Incentive Program	973					
Miscellaneous Revenue	50,442			1,251	9,536	659
State Contributions	1,057,709			226,239		
State Appropriations	33,951,150					
Nonvested Member Forfeitures						
Total Contributions	252,518,233	510,981	2,548,274	8,399,091	20,289,796	10,671,657
Investments (Note A6)						
Net Appreciation (Depreciation)						
in Fair Value of Investments	187,097,260	211,807	3,349,403	4,850,772	12,064,624	6,620,065
Interest	1,942,185	7,676	33,330	51,199	127,337	69,333
Dividends						
Investment Expense	(31,339,257)	(13,333)	(561,187)	(809,306)	(2,030,317)	(1,117,480)
Net Investment Income	157,700,188	206,150	2,821,546	4,092,665	10,161,644	5,571,918
Securities Lending Income						
Securities Lending Income	669,753		11,994	17,293	43,385	23,880
Securities Lending Rebate and Fees	(356,954)		(6,392)	(9,217)	(23,123)	(12,727)
Net Securities Lending Income	312,799		5,602	8,076	20,262	11,153
Total Net Investment Income	158,012,987	206,150	2,827,148	4,100,741	10,181,906	5,583,071
Total Additions	410,531,220	717,131	5,375,422	12,499,832	30,471,702	16,254,728
Deductions (Note C)						
Benefits	449,601,997	101,436	4,038,362	12,684,315	21,481,264	8,247,117
Refunds/Distributions	11,922,673			331,169	1,565,536	1,200,125
Refunds to Other Plans	173,928			29,350	65,353	5,148
Transfers to MUS-RP	268,057					
Transfers to DCRP	1,983,881					
Supplemental Insurance Payments						
OPEB Expenses	10,416					
Administrative Expenses	5,021,348		157,040	163,315	294,988	240,254
Miscellaneous Expenses						
Total Deductions	468,982,300	101,436	4,195,402	13,208,149	23,407,141	9,692,644
Net Increase (Decrease)	(58,451,080)	615,695	1,180,020	(708,317)	7,064,561	6,562,084
Net Position Restricted for Pension Benefits						
Beginning of Year	5,905,584,176	5,137,296	104,885,637	152,777,627	377,222,848	206,346,965
Prior Period Adjustments (Note A1)	210,567	298	15	(101,601)	7,345	1,142
End of Year	\$ 5,847,343,663	5,753,289	106,065,672	151,967,709	384,294,754	212,910,191

The notes to the financial statements are an integral part of this statement.

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Defined Benefit Pension Plans				Defined Contribution Plans			Total Pension Trust Funds 2020
MPORS	FURS	VFCA	Total Defined Benefit Pension Plans	PERS-DCRP	457 Plan	Total Defined Contribution Plans	
8,274,633	7,884,647		153,142,539	14,415,615	100,836	14,516,451	167,658,990
5,210,744	5,937,818		133,450,723	14,207,961	32,413,628	46,621,589	180,072,312
3,518	527		358,698				358,698
			973				973
(1,957)	2,590	3	62,524	77,497	603,867	681,364	743,888
16,685,125	17,807,526	2,486,769	38,263,368	95,035		95,035	38,358,403
			33,951,150				33,951,150
				775,195		775,195	775,195
30,172,063	31,633,108	2,486,772	359,229,975	29,571,303	33,118,331	62,689,634	421,919,609
13,809,753	14,514,223	1,237,999	243,755,906	8,434,392	19,415,534	27,849,926	271,605,832
140,825	151,042	12,278	2,535,205	7,011,479	13,890,535	20,902,014	23,437,219
(2,315,913)	(2,443,114)	(206,444)	(40,836,351)	(72,272)	(880,784)	(953,056)	(41,789,407)
11,634,665	12,222,151	1,043,833	205,454,760	15,373,599	32,425,285	47,798,884	253,253,644
49,493	52,209	4,413	872,420				872,420
(26,378)	(27,825)	(2,352)	(464,968)				(464,968)
23,115	24,384	2,061	407,452				407,452
11,657,780	12,246,535	1,045,894	205,862,212	15,373,599	32,425,285	47,798,884	253,661,096
41,829,843	43,879,643	3,532,666	565,092,187	44,944,902	65,543,616	110,488,518	675,580,705
27,866,365	26,838,506	3,065,017	553,924,379				553,924,379
2,327,658	61,799		17,408,960	9,859,130	35,589,945	45,449,075	62,858,035
23,062			296,841				296,841
			268,057				268,057
			1,983,881				1,983,881
		12,150	12,150				12,150
			10,416	993	418	1,411	11,827
240,967	224,096	414,114	6,756,122	677,649	456,873	1,134,522	7,890,644
				330,467	874,334	1,204,801	1,204,801
30,458,052	27,124,401	3,491,281	580,660,806	10,868,239	36,921,570	47,789,809	628,450,615
11,371,791	16,755,242	41,385	(15,568,619)	34,076,663	28,622,046	62,698,709	47,130,090
439,777,930	461,189,143	39,866,038	7,692,787,660	263,208,093	532,989,426	796,197,519	8,488,985,179
761	(7,444)	813	111,896	7,293	6,579	13,872	125,768
451,150,482	477,936,941	39,908,236	7,677,330,937	297,292,049	561,618,051	858,910,100	8,536,241,037

Public Employees' Retirement Board

A Component Unit of the State of Montana

Notes to the Financial Statements

for the Fiscal Year Ended June 30, 2020

The Public Employees' Retirement Board (PERB) is an independent, seven-member board, appointed by the Governor. The members are assigned five-year, staggered terms. The PERB consists of:

- two members at large,
- two active defined benefit public employees,
- one active defined contribution public employee,
- one member experienced in investments, and
- one retired public employee.

The PERB approves the annual operating budget, developed by the Montana Public Employee Retirement Administration (MPERA) management, before the beginning of the fiscal year. As governed by statute, the PERB's defined benefit administrative expenses may not exceed 1.5 percent of total defined benefit plan retirement benefits paid. In addition, the PERB decides its legislative priorities, hires the executive director, establishes the policies and procedures that govern operations at MPERA, and hears and rules on appeal matters of disabilities, retirees, and members. Board members do not receive compensation for their service to MPERA, but are reimbursed for necessary expenses incurred while serving.

The PERB oversees ten retirement plans, an OPEB, and the related member education funds. The Public Employees' Retirement System Defined Contribution Disability Other Post-Employment Benefit (PERS-DCRP Disability OPEB) is a trust fund providing a defined benefit for disabled members of the PERS-DCRP. The retirement plans are eight defined benefit plans and two defined contribution plans. The defined benefit retirement plans are:

- Public Employees' Retirement System (PERS-DBRP),
- Judges' Retirement System (JRS),
- Highway Patrol Officers' Retirement System (HPORS),
- Sheriffs' Retirement System (SRS),
- Game Wardens' and Peace Officers' Retirement System (GWPORS),
- Municipal Police Officers' Retirement System (MPORS),
- Firefighters' Unified Retirement System (FURS), and
- Volunteer Firefighters' Compensation Act (VFCA).

The defined contribution retirement plans are:

- Public Employees' Retirement System (PERS- DCRP), and
- Deferred Compensation (457(b)) Plan, governed by IRC § 457.

The PERS-DCRP was implemented July 1, 2002. All new PERS members have a 12-month window to file an irrevocable plan choice election. PERS members are provided education

regarding their decision to participate in the Defined Benefit Retirement Plan (PERS-DBRP) or the Defined Contribution Retirement Plan (PERS-DCRP). If members are employees of the university system they have a third choice, the Montana University System Retirement Program (MUS-RP). Further education is provided for the members who choose the PERS-DCRP, including information on investment choices.

The PERB began oversight of the Deferred Compensation (457(b)) Plan on July 1, 1999. The Deferred Compensation Plan is available to all employees of the State, the Montana University System and contracting political subdivisions.

The MPERA, as a state agency, participates as an employer in the PERS-DBRP, PERS-DCRP and the Deferred Compensation Plan.

The assets of each plan are maintained separately, including member education funds. The assets may be used only for the payment of benefits to the members and administrative expenses of the appropriate plan, in accordance with the terms of each plan as prescribed in Title 19 of the Montana Code Annotated (MCA). The financial statements are presented by combining the PERS-DBRP and the DBRP Education Fund and by combining the PERS-DCRP and the DCRP Education Fund. A presentation of the individual funds is shown at the end of the financial section on pages 132 to 135.

NOTE A. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

A1. BASIS OF PRESENTATION AND BASIS OF ACCOUNTING

Basis of Presentation

The PERB is a fiduciary component unit Pension Trust Fund of the State of Montana financial reporting entity. The accompanying financial statements were prepared by MPERA, staff of the PERB, in accordance with generally accepted accounting principles (GAAP). In doing so, MPERA adheres to accounting and financial reporting standards established by the Governmental Accounting Standards Board (GASB). GASB is the independent, not-for-profit, standards-setting organization and the official source of GAAP for state and local governmental entities in the United States of America.

PERB's accounts are organized and presented on the basis of funds. All of the funds presented in the financial statements are fiduciary funds. These funds are classified as pension trust funds, and are maintained for the exclusive benefit of the members and their beneficiaries.

Basis of Accounting

The basis of accounting indicates the timing of transactions or events for recognition in the financial statements. The PERB's financial statements are reported using fund accounting principles and the accrual basis of accounting. Plan member contributions, employer contributions, and related receivables are recognized as revenues in the accounting period in which they are earned and become measurable, pursuant to formal commitments and statutory requirements. Benefit payments and refunds/distributions are recognized in the accounting period in which they

FINANCIAL SECTION

are due and payable in accordance with the terms of each plan. Administrative and other expenses, and the associated liabilities, are recognized in the period the liability is incurred. Administrative expenses are financed through investment earnings on the pension trust fund for the defined benefit plans. Interfund receivables and payables exist at year-end for defined benefit administrative expenses that are accounted for within PERS-DBRP and allocated to the other defined benefit funds at year-end. Costs specifically related to the computer system upgrades are charged directly to the individual plans.

On a quarterly basis, participants of the PERS-DCRP are charged a basis point fee based on their individual account balances. On a quarterly basis, the participants of the Deferred Compensation Plan are charged a basis point fee on a sliding scale based on their individual account balances. The recordkeeper, EmpowerTM Retirement, withholds the basis point fees from participant accounts. The PERB incurs administrative expenses for the cost of EmpowerTM services and agency expenses. Fees collected from participant accounts are used to offset the costs of Empower'sTM fees. Any remaining fees are remitted to the PERB to cover each plan's administrative expenses. The excess basis point fees remitted to the PERB are recorded as *Miscellaneous Revenue* on the financial statements.

Prior Period Adjustments

Prior period adjustments relate to corrections of errors and changes in accounting policy from prior periods. The prior period adjustments for fiscal year 2020 were adjustments as a result of reconciliations of credit memos, benefit receivables, and corrections to Internal Revenue and Department of Revenue receivables.

Significant Accounting Changes

Significant accounting policies are specific accounting principles and methods used and considered to be the most appropriate to use in current circumstances in order to fairly present the financial statements. There were no significant accounting changes during fiscal year 2020.

A2. CAPITAL ASSETS AND EQUIPMENT USED IN OPERATIONS

Assets under \$5,000 are expensed in the year purchased. Assets (equipment) valued at \$5,000 or more are recorded at cost less straight-line depreciation over the estimated useful life of five to ten years. Assets (other intangibles) valued at \$100,000 or more are recorded at cost less straight-line depreciation over the estimated useful life of five to ten years. Equipment consists of a ScanPro 3000 fiche film reader. Property consists of a remodel to the office space.

The \$3,516,728 *Intangible Assets at Cost* on the Statement of Fiduciary Net Position consists of the PERIS computer system. This is an intangible asset and the intangible asset is amortized over 10 years.

A3. OPERATING LEASE

Operating leases are rental agreements where the payments are chargeable as rent and recorded as administrative expenses. MPERA negotiated a 10-year lease for office space in June 2020,

effective July 1, 2020, at the location of 100 North Park Avenue, Helena, MT. The lease is payable monthly and includes inflationary adjustments over the period of the lease.

A4. NET PENSION LIABILITY OF EMPLOYERS

The net pension liability (the retirement systems' total pension liability determined in accordance with GASB Statement No. 67 less the fiduciary net position at fair value) as of June 30, 2020, is shown below in the *Schedule of Employers' Net Pension Liability (NPL)*.

Actuarial valuations of the ongoing systems involve estimates of the reported amounts and assumptions about probability of occurrence of events far into the future. The information used includes, but is not limited to, the plan provisions, employee data, and financial information provided by the PERB. Amounts determined regarding the NPL are subject to revision with each valuation as actual results are compared with past expectations and new estimates are made about the future. The last experience study was performed in 2017 using June 30, 2016 valuation data.

The reporting date for the retirement systems is June 30, 2020. Measurements as of the reporting date are based on the fair value of assets as of June 30, 2020 and the Total Pension Liability (TPL) is based on the results of an actuarial valuation date of June 30, 2019, and rolled forward to June 30, 2020 using generally accepted actuarial procedures.

The *Schedule of Employers' Net Pension Liability*, presented as Required Supplementary Information (RSI) following the Notes to the statements, displays multi-year trend information about whether the plan fiduciary net positions are increasing or decreasing over time relative to the TPL.

Employers' Net Pension Liability / (Asset) as of June 30, 2020 (dollar amounts are in thousands)						
System	Total Pension Liability (a)	Plan Fiduciary Net Position ¹ (b)	Employers' Net Pension Liability / (Asset) (a-b)	Plan Fiduciary Net Position as a % of the Total Pension Liability (b/a)	Covered Payroll (c)	Net Pension Liability / (Asset) as a % of Covered Payroll ((a-b)/c)
PERS-DBRP	\$ 8,483,685	\$ 5,845,474	\$ 2,638,211	68.90 %	\$ 1,280,557	206.02 %
JRS	69,521	106,066	(36,545)	152.57 %	8,001	(456.72)%
HPORS	385,799	151,968	233,831	39.39 %	15,608	1498.17 %
SRS	506,181	384,295	121,886	75.92 %	84,943	143.49 %
GWPORS	348,070	212,910	135,160	61.17 %	53,825	251.11 %
MPORS	695,737	451,150	244,586	64.84 %	56,784	430.73 %
FURS	634,414	477,937	156,477	75.34 %	53,859	290.53 %
VFCA	49,014	39,908	9,106	81.42 %	N/A ²	N/A ²
¹ The PERS-DB Education Fund balance is not included in the GASB 67 reporting for fiscal year ending June 30, 2020. ² Covered payroll is not applicable to VFCA because members are unpaid volunteers.						

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Below are the changes to the actuarial assumptions used in the measurement of the Total Pension Liability (TPL) for June 30, 2020.

1. The discount rate was lowered from 7.65% to 7.34% for all systems except HPORS and GWPORS. The discount rates were lowered from the 7.65% to 4.43% for HPORS and 7.65% to 5.65% for GWPORS.
2. The investment rate of return was lowered from 7.65% to 7.34%.
3. The inflation rate was reduced from 2.75% to 2.40%.

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A summary of the actuarial assumptions for the retirement plan's GASB No. 67 reporting as of the latest actuarial valuation on June 30, 2020 is shown in the table below and is shown in the Notes to the RSI on page 118.

Summary of Key Actuarial Methods and Assumptions								
	PERS	JRS	HPORS	SRS	GWPORS	MPORS	FURS	VFCA¹
Valuation date	6/30/2020	6/30/2020	6/30/2020	6/30/2020	6/30/2020	6/30/2020	6/30/2020	6/30/2020
Actuarial Cost Method	Entry Age	Entry Age	Entry Age	Entry Age	Entry Age	Entry Age	Entry Age	Entry Age
Amortization method	Level percentage of payroll, open	Level percentage of payroll, open	Level percentage of payroll, open	Level percentage of payroll, open	Level percentage of payroll, open	Level percentage of payroll, open	Level percentage of payroll, open	Level dollar, open
Amortization period for Actuarial Contribution	30	30	30	30	30	30	30	20
Asset valuation method	4-year smoothed, market	4-year smoothed, market	4-year smoothed, market	4-year smoothed, market	4-year smoothed, market	4-year smoothed, market	4-year smoothed, market	4-year smoothed, market
Actuarial assumptions:²								
Investment rate of return compounded annually (net of investment expenses)	7.34%	7.34%	7.34%	7.34%	7.34%	7.34%	7.34%	7.34%
Projected salary increases:								
General Wage Growth*	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	3.50%	N/A
Merit	0% - 4.8%	None	0% - 6.3%	0% - 6.3%	0% - 6.3%	0% - 6.6%	0% - 6.3%	N/A
*Includes inflation at	2.40%	2.40%	2.40%	2.40%	2.40%	2.40%	2.40%	2.40%
Administrative Expenses as a Percentage of Payroll	0.30%	0.08%	0.18%	0.16%	0.16%	0.15%	0.13%	\$201,971
Mortality (healthy): RP-2000 Combined Mortality projected to 2020 using Scale BB and Mortality (disabled): RP-2000 Combined Mortality with no projections.								
Benefit Adjustments								
GABA	3% for pre-July 1, 2007 hires, 1.5% for post July 2007 and pre-June 30, 2013; and 1.5% to 0% for new hires on or after July 1, 2013; all after 1 year	3% after 1 year	3% for pre-July 1, 1997 hires after 1 yr or 1.5% after 3 years if hired on or after July 1, 2013	3% for pre-July 1, 2007 hires or 1.5% for new hires on or after July 1, 2007, after 1 year	3% for pre-July 1, 2007 hires or 1.5% for new hires on or after July 1, 2007, after 1 year	3% after 1 year	3% after 1 year	N/A
Non-GABA	N/A	Biennial increase to salary of active member in like position	2% per yr service, not to exceed 60% of probationary officer's base pay; and increase not to exceed 5% of previous benefit.	N/A	N/A	Benefit may not be less than one-half of the compensation paid to a newly confirmed police officer	Benefit may not be less than one-half of the compensation paid to a newly confirmed firefighter	N/A
¹ Covered payroll for VFCA is not applicable, members are unpaid volunteers and do not contribute to the fund. ² Most of the Actuarial Assumptions are based on 2017 Experience Study, except for the changes in investment rate of return from 7.65% to 7.34% and inflation rate from 2.75% to 2.40% used in this years' reports for the measurement of the Total Pension Liability.								

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Long-Term Expected Rate of Return on Investments

The average long-term capital market assumptions published in the *Survey of Capital Assumptions 2020 Edition* by Horizon Actuarial Service, LLC, yield a median real return of 4.94%. Assumed inflation is based on the intermediate inflation assumption of 2.4% in the *2020 OASDI Trustees Report* used by the Chief Actuary for Social Security to produce 75 year cost projections. Combining these two results yields a nominal return of 7.34%.

Best estimates of arithmetic real rates of return for each major asset class included in the Plans target asset allocation as of June 30, 2020, are summarized in the following Target Allocations table.

Target Allocations as of June 30, 2020		
Asset Class	Target Asset Allocation	Long-Term Expected Real Rate of Return Arithmetic Basis
Cash	2.0 %	0.11 %
Domestic equities	30.0 %	6.19 %
International equities	16.0 %	6.92 %
Private investments	14.0 %	10.37 %
Natural resources	4.0 %	3.43 %
Core fixed income	20.0 %	1.57 %
Non-core fixed income	5.0 %	3.97 %
Real estate	9.0 %	5.74 %
Totals	100.0 %	

Single Discount Rate

The discount rate used to measure the TPL for all Plans, except HPORS and GWPORS, was 7.34% which is the assumed long-term expected rate of return on investments. The projection of cash flows used to determine the discount rate assumed that member, employer, and state contributions will be made at the contribution rates specified in the applicable Montana statutes, which can only be changed by the Legislature. Based on those assumptions, the fiduciary net position of all the Plans, except HPORS and GWPORS, was projected to be available to make all the projected future benefit payments of the current plan members. Therefore, the long-term expected rate of return on pension plan investments was applied to all periods of projected benefit payments to determine the TPL.

If, however, the fiduciary net position is projected to be depleted, such as with HPORS and GWPORS, the Discount Rate is determined as the single rate that will generate a present value of benefit payments equal to the sum of the present value determined by discounting all projected benefit payments through the date of depletion by the long term expected rate of return, and the present value determined by discounting those benefits after the date of depletion by a 20-year tax-exempt municipal bond (rating AA/Aa or higher) rate. The rate used, if necessary, for this purpose is the monthly average of the Bond Buyer's General Obligation 20-year Municipal Bond Index Rate published weekly by the Bond Buyer (www.bondbuyer.com).

For HPORS, the pension plan's fiduciary net position was projected to be available to make all projected future benefit payments of current plan members until the plan year ending June 30, 2057. Therefore, the long-term expected rate of return on pension plan investments of 7.34% was applied to all periods of projected benefit payments through June 30, 2057 and the applicable municipal bond index rate of 2.19%, was applied to all periods of projected benefit payments after June 30, 2057. The Single Equivalent Interest Rate (SEIR) of 4.43% that discounts the entire projected benefit stream to the same amount as the sum of the present values of the two separate benefit payments streams was used to determine the total pension liability for HPORS as of June 30, 2020.

For GWPORS, the pension plan's fiduciary net position was projected to be available to make all projected future benefit payments of current plan members until the plan year ending June 30, 2063. Therefore, the long-term expected rate of return on pension plan investments of 7.34% was applied to all periods of projected benefit payments through June 30, 2063 and the applicable municipal bond index rate of 2.19%, was applied to all periods of projected benefit payments as of June 30, 2063. The Single Equivalent Interest Rate (SEIR) of 5.65% that discounts the entire projected benefit stream to the same amount as the sum of the present values of the two separate benefit payments streams was used to determine the total pension liability for GWPORS as of June 30, 2020.

Sensitivity Analysis

In accordance with GASB No. 67 regarding the disclosure of the sensitivity of the NPL to changes in the discount rate, the NPL of the participating employers is presented as using the discount rate of 7.34%, as well as what the employers' NPL would be if it were calculated using a discount rate that is 1.00% lower (6.34%) or 1.00% higher (8.34%) than the current rate. However, because of the blending of the long-term rate of return of 7.34% and the municipal bond index rate of 2.19%, HPORS current discount rate is 4.43% and the GWPORS current discount rate is 5.65%. The table that follows presents the sensitivity disclosures for each plan.

Sensitivity of NPL / (Asset) based on Changes in Discount Rate as of June 30, 2020 (dollar amounts are in thousands)			
System	1% Decrease 6.34%, 3.43%* and 4.65%**	Current Discount Rate 7.34%, 4.43%* and 5.65%**	1% Increase 8.34%, 5.43%* and 6.65%**
PERS-DBRP	\$ 3,631,342	\$ 2,638,211	\$ 1,803,989
JRS	(29,733)	(36,545)	(42,413)
HPORS*	306,955	233,831	177,819
SRS	193,872	121,886	63,001
GWPORS**	194,348	135,160	87,670
MPORS	348,673	244,586	161,549
FURS	253,076	156,477	78,859
VFCA	13,962	9,106	5,002

As can be seen from the table, changes in the discount rate affect the measurement of the TPL. Lower discount rates produce a higher TPL and higher discount rates produce a lower TPL.

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Because the discount rate does not affect the measurement of assets, the percentage change in the NPL can be very significant for a relatively small change in the discount rate.

Annual Money-Weighted Rate of Return

The annual money-weighted rate of return on plan investments shows investment performance, net of pension plan investment expense, adjusted for the changing amounts actually invested. A schedule of the annual money-weighted rate of return for all Plans is presented below and in the RSI on pages 122 and 123.

Annual Money-Weighted Rate of Return as of June 30, 2020			
PERS-DBRP	2.71 %	GWPORS	2.69 %
JRS	2.72 %	MPORS	2.72 %
HPORS	2.73 %	FURS	2.71 %
SRS	2.70 %	VFCA	2.73 %

A5. OTHER POST-EMPLOYMENT BENEFITS (OPEB FOR HEALTHCARE)

General Information

In accordance with Section 2-18-704, MCA, the State of Montana provides optional post-employment medical, vision, and dental health care benefits to the following employees and dependents electing to continue coverage and pay administratively established contributions: (1) employees and dependents who retire under applicable retirement provisions and (2) surviving dependents of deceased employees. Plan coverage is on a calendar year basis. The State of Montana offers an OPEB plan that is not administered through a trust; as such, there are no plan assets accumulated to offset the total OPEB liability.

The State of Montana pays for post-employment healthcare benefits on a pay-as-you-go basis. Section 2-18-8, MCA gives the Department of Administration authority to establish and amend the funding policy for the State group health insurance plan.

Plan Description

The State of Montana Employee Group Benefits Plan, administered by the Montana Department of Administration, is considered a single-employer plan and MPERA is considered to be a participating employer in the plan. In accordance with GASB Statement No. 75, MPERA is required to recognize and report certain amounts associated with their employees and dependents that are eligible to receive health care through the State of Montana Employee Group Benefits Plan. This includes requirements to record and report each employers' proportionate share of the collective Total OPEB Liability, OPEB Expense, and Deferred Outflows and Deferred Inflows of Resources associated to OPEB.

In addition to the employee benefits, the following post-employment benefits are provided. The Montana Department of Administration established retiree medical premiums varying between \$457 and \$1,944 per month for calendar year 2020 depending on the medical plan selected, family coverage, and Medicare eligibility. Retirees pay 100% of the premiums for medical, dental, and

vision. Depending on the coverage selected, administratively-established monthly dental and vision premiums vary between \$41.10 and \$70.00 and \$7.64 and \$22.26, respectively. Basic life insurance in the amount of \$14,000 is provided until age 65 or Medicare eligible at a cost of \$1.90 per month. The State Benefit Plans reimburse all validated medical claims net of member obligations (annual deductibles and coinsurance of the members' selected medical plan). Dental claims are reimbursed at 50% to 100% of the allowable charges, depending on the services provided. The State acts as secondary payer for retired Medicare-eligible claimants.

Employees covered by benefit terms

At December 31, 2019, MPERA had 48 active employees and one retired employee/spouse/surviving spouse covered by the benefit terms for a total of 49 covered employees.

The estimates were prepared based on an actuarial valuation as of the year ending December 31, 2019, rolled forward to the measurement date of March 31, 2020, for the Department of Administration. The resulting State of Montana Actuarial Valuation of Other Post-Employment Benefits (OPEB) contains the MPERA data and is available through the following address.

Montana Department of Administration
State Accounting Division
Room 255, Mitchell Bldg
125 N Roberts Street
PO Box 200102
Helena, MT 59620-0102

Schedule of Changes in Total OPEB Liability

At June 30, 2020, MPERA reported a liability of \$122,726 for its 0.25924% proportionate share of the total OPEB Liability. At June 30, 2019, MPERA reported a liability of \$100,402 for its 0.18026% proportionate share of the total OPEB Liability. MPERA's proportion of the total OPEB liability measurement is based upon MPERA's actuarially determined OPEB liability in comparison to the collective OPEB liability for the State's healthcare plan. MPERA's change in proportion is 0.07898%.

The following table presents the Other Items Related to and Changes in the Total OPEB Liability.

Schedule of Changes in Total OPEB Liability	
Balances at 6/30/2019	\$ 100,402
Changes for the year:	
Service Cost	4,763
Interest	2,892
Difference between Expected and Actual Experience	22,201
Changes of assumptions or other inputs	(5,706)
Benefit Payments (Contributions)	(1,826)
Net Changes	22,324
Balances as of 6/30/2020	\$ 122,726

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Actuarial assumptions and other inputs

The total OPEB liability in the December 31, 2019 actuarial valuation, rolled forward to March 31, 2020, was determined using the following actuarial assumptions and other inputs, applied to all periods included in the measurement, unless otherwise specified.

Contributions:	\$ (1,826)
Actuarial valuation date	December 31, 2019
Experience study period	January 1, 2017 through December 31, 2019
Actuarial measurement date ⁽¹⁾	March 31, 2020
Actuarial cost method	Entry age normal funding method
Amortization method	Open basis
Asset valuation method	Not applicable since no assets meet the definition of plan assets under GASB 75
Actuarial Assumptions:	
Discount rate	2.75%
Projected payroll increases	2.50%
Participation:	
Future retirees	40.00%
Future eligible spouses	70.00%
Marital status at retirement	70.00%
⁽¹⁾ Update procedures were used to roll forward the total OPEB liability to the measurement date.	

Mortality - Healthy: Healthy mortality is assumed to follow the RP2000 Combined Mortality Table with improvements projected by Scale BB to 2020, set back one year for males.

Mortality - Disabled: Disabled mortality is assumed to follow the RP2000 Combined Mortality Table with no projections.

Changes in actuarial assumptions and methods since last measurement date

- Participation rate reduction from 55% to 40% based on recent experience study.
- Revised rates per the Retirement System pension valuations as of July 1, 2019.
- Interest/discount rate based on the average of multiple March 31, 2020 municipal bond rate sources.

Changes in benefit terms since last measurement date

- There were no changes in benefit terms since the last measurement date.

Sensitivity Analysis
Sensitivity of the total OPEB liability to changes in the discount rate:

The following presents the total OPEB liability of MPERA, as well as MPERA's total OPEB liability calculated using a discount rate that is 1.00% lower (1.75%) or 1.00% higher (3.75%) than the current discount rate:

Discount Rate 3/31/2020	1% Decrease (1.75%)	Discount Rate (2.75%)	1% Increase (3.75%)
Total OPEB Liability	\$ 171,089	\$ 122,726	\$ 87,016

Sensitivity of the total OPEB liability to changes in the healthcare cost trend rates:

The following presents the total OPEB liability of MPERA, as well as MPERA's total OPEB liability calculated using healthcare cost trend rates that are 1.00% lower (5.0%) or 1.00% higher (7.0%) than the current healthcare cost trend rates:

Healthcare Rate 3/31/2020	1% Decrease (5.0%)	Current Rate (6.0%)	1% Increase (7.0%)
Total OPEB Liability	\$ 86,932	\$ 122,726	\$ 172,909

OPEB Expense

For the year ended June 30, 2020, MPERA recognized OPEB expense of \$11,827.

Deferred Outflows and Deferred Inflows of Resources Related to OPEB

At June 30, 2020, MPERA recorded deferred outflows and deferred inflows of resources related to OPEB from the following sources:

	Deferred Outflows of Resources	Deferred Inflow of Resources
Differences between expected and actual experience	20,438	\$ 10,803
Changes of assumptions or other inputs	50,447	49,111
*Benefit Payments associated with transactions subsequent to the measurement date of the total OPEB liability	934	
Total	71,819	\$ 59,914
*Amounts reported as deferred outflows of resources related to OPEB resulting from MPERA's benefit payments in FY2020 (April 1, 2020 through June 30, 2020) subsequent to the measurement date.		

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Amounts reported as deferred outflows and inflows of resources related to OPEB will be recognized in future years as an increase or (decrease) to OPEB expense as follows:

Year ended June 30, 2020	Amount recognized as an Increase or (Decrease) to OPEB Expense
2021	\$ 820
2022	\$ 820
2023	\$ 820
2024	\$ 820
2025	\$ 820
Thereafter	\$ 6,871

A6. METHOD USED TO VALUE INVESTMENTS

According to Article VIII, section 13 of the Montana Constitution and section 19-2-504, MCA, the Montana Board of Investments (BOI) has a fiduciary responsibility for investing the defined benefit plan assets on behalf of the defined benefit plan members. Investments are determined in accordance with the statutorily and constitutionally mandated “prudent expert principle.” Pursuant to Article VIII, section 15 of the Montana Constitution and sections 19-2-502 and 19-2-503, MCA, the PERB has a fiduciary responsibility for the administration of the pension trust funds. For the defined benefit pools, the PERB relies on the Investment Policy Statements (IPS) that are drafted and approved by the BOI. The BOI utilizes RV Kuhns & Associates, Inc., the investment consultant. Investments administered by the BOI for the PERB are subject to their investment risk policies. The PERB does not have an investment policy of its own to address risks. Information on investment policies, investment activity, investment management fees, investment risks, and a listing of specific investments owned by the pooled asset accounts can be obtained by contacting BOI, the investment manager, at the following address:

Board of Investments
PO Box 200126
2401 Colonial Drive, 3rd Floor
Helena, MT 59620-0126

BOI has separately issued audited financial statements that can be accessed by contacting BOI at the above address or <http://investmentmt.com>.

Defined benefit investments are reported on the PERB's financial statements at fair value as of June 30, 2020.

The PERS-DCRP and deferred compensation plan's Montana Fixed Fund is a stable value investment option administered and monitored by the PERB with input from the Employee Investment Advisory Committee and the investment consultant. The PERB has established an investment policy for the Montana Fixed Fund to identify objectives, investment guidelines, and outline the responsibility of the outside vendors; Pacific Investment Management Company, LLC (PIMCO) the stable value manager, State Street Bank and Trust Company (State Street) the custodial bank, and third party synthetic Guaranteed Interest Contract (GIC) providers,

Transamerica Premier Life Insurance Company (Transamerica), Prudential Insurance Company of America (Prudential), and Voya Retirement Insurance and Annuity Company (Voya). All money invested in the Montana Fixed Fund investment option of the PERS-DCRP and deferred compensation plan money is in a Pooled Trust.

For both the PERS-DCRP and deferred compensation plan, the third party recordkeeper, Empower™ Retirement, tracks and reports the daily trading and valuations of all investment options including the assets held by the individual mutual fund companies.

In addition to the laws cited previously, the PERS-DCRP investments are also governed by section 19-3-2122, MCA and the deferred compensation plan investments are governed by section 19-50-102, MCA.

The PERB has separate investment policy statements for the PERS-DCRP and deferred compensation plans. The investment policies are reviewed and revised, if necessary, by the PERB annually. The investment options are reviewed quarterly for compliance with the established investment policy statement. DCRP and deferred compensation plan investments are reported at fair value as of June 30, 2020.

The following are the summaries of: a) BOI's fiscal year-end statements; b) the Stable Value Group Trust contracts; and c) a statement about the variable investments.

BOI Pooled Investments

As of June 30, 2020, BOI managed two major diversified pools for the retirement funds, Montana Short Term Investment Pool (STIP) and Montana Consolidated Asset Pension Pool (CAPP). The BOI also manages the PERS-DCRP Disability OPEB trust fund, which consists of a portfolio of commingled funds that are recorded under *Commingled Equity Securities* in the financial statements.

Short-Term Investment Pool (STIP)

The Montana Public Retirement Plans investment in the Short-Term Investment Pool (STIP) will provide the Plans with exposure to Cash related investments. STIP will be managed internally by BOI utilizing an active investment strategy. STIP invests primarily in short-term, high quality, fixed income securities with a maximum maturity of 397 days or less. Variable securities shall have a maximum maturity of 2 years. STIP shall maintain a dollar-weighted average portfolio maturity of 60 days or less. This Pool is managed to preserve principal while providing 24-hour liquidity for state agency and local government participants.

Consolidated Asset Pension Pool (CAPP) – The Consolidated Asset Pension Pool (CAPP) invests directly in the underlying Pension Asset Classes (PAC) on behalf of the Montana Public Retirement Plans within the BOI-approved asset allocation ranges. Each PAC has an underlying set of investment objectives and investment guidelines. For liquidity purposes, each PAC and external manager has a limited amount of cash/cash equivalents. With the PAC, it is invested in a custodial cash vehicle, which invests in high quality short-term securities. For external managers, it is invested per BOI established guidelines.

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CAPP's Underlying Asset Classes

Domestic Equities	Real Estate
International Equities	Core Fixed Income
Private Investments	Non-Core Fixed Income
Natural Resources	Cash

As part of the asset allocation approved by BOI in November 2019, the Private Equity PAC is now referred to as the Private Investments PAC and the High Yield PAC is referred to as the Non-Core Fixed Income PAC. The assets with the U.S. Treasury Inflation Protected Securities (TIPS) PAC, Investment Grade PAC, Agency Mortgage Backed Securities PAC, U.S. Treasury and Agency PAC, Diversifying Strategies PAC, and Broad Fixed Income PAC were combined into the Core Fixed Income PAC. These changes were effective in December 2019. These changes did not have an impact on the underlying value of securities with the impacted PACs.

Domestic Equities PAC – Invests primarily in U.S. traded equity securities such as common stock. The type of portfolio structures include separately managed accounts, commingled accounts, limited partnerships, or limited liability companies, and exchange traded funds.

International Equities PAC – Invests primarily in international equity securities that trade on foreign exchanges in developed and emerging markets. The type of portfolio structures include separately managed accounts, commingled accounts, limited partnerships, or limited liability companies, and exchange traded funds.

Private Investments PAC – Invests in the entire capital structure of private companies. The type of portfolio structures include private partnership interests, separate accounts, commingled funds and exchange traded funds. The investments typically have well-defined strategies such as buyout, venture, or distressed debt. Private Investments generally require a long, time horizon to realize the value of the asset.

Natural Resource PAC – Invests in energy, timber investments or other commodity related assets. The type of portfolio structures include private partnership interests, separate accounts, commingled funds and exchange traded funds. Natural Resources investments generally require a long, time horizon to realize the value of the asset.

Real Estate PAC – Invests primarily in real estate properties. The type of portfolio structures include private partnership interests, real estate investment trusts (REITs), separate accounts, commingled funds and exchange traded funds. The funds typically have well-defined strategies such as core, value-add, or opportunistic. Real Estate investments generally require long, time horizon to realize the value of the assets.

Core Fixed Income PAC - Invests primarily in marketable, publicly traded, investment grade fixed income securities denominated in U.S. dollars. The type of portfolio structures include internally managed portfolios or externally managed separate accounts, commingled funds and limited partnerships.

Non-Core Fixed Income PAC – Invests primarily in marketable, publicly traded, high yield corporate debt, emerging market debt, convertible debt and preferred securities. The type of portfolio structures include separately managed accounts, commingled accounts, and limited partnerships.

Cash PAC – Invests primarily in highly liquid, money-market type securities. The type of portfolio structures include the internally managed Short Term Investment Pool (STIP) or cash vehicles managed through BOI's custodian or other Security Exchange Commission registered U.S. government money market funds.

PERB Cash Equivalent and Investment Portfolio			
June 30, 2020			
<u>Investment Pools</u>		<u>Fair Value</u>	<u>Net Asset Value (NAV)</u>
Short-term Investment Pool	\$	82,954,837	\$ 82,954,837
CAPP Investment Pool		7,541,709,092	7,541,709,092
Commingled Equity Securities ¹		5,271,096	
Total	\$	7,629,935,025	\$ 7,624,663,929

¹ DC Disability OPEB is invested by the manager Blackrock in commingled equity index funds.

Investments that are measured at fair value using the net asset value per share (or its equivalent) as a practical method are not classified in the fair value hierarchy. This is the case of the Consolidated Asset Pension Pool (CAPP) and the Short-Term Investment Pool (STIP).

The Consolidated Asset Pension Pool, CAPP, is a commingled internal investment pool managed and administered under the direction of BOI as statutorily authorized by the Unified Investment Program. Only the retirement systems can participate in CAPP. On a monthly basis, redemptions are processed by BOI in order to maintain required asset allocations and to provide liquidity for retirement benefits. The fair values of the investments in this category have been determined using the Net Asset Value (NAV) per share (or its equivalent) of the investment.

STIP is an external investment pool managed and administered under the direction of BOI as statutorily authorized by the Unified Investment Program. It is a commingled pool for investment purposes and participant requested redemptions from the pool are redeemed the next business day. The fair values of the investments in this category have been determined using the NAV per share (or its equivalent) of the investment.

At June 30, 2020, the PERB's portion of the defined benefit investment pools is presented in the table below.

PERB Portions of BOI Pools at June 30, 2020		
<u>Investment</u>	<u>Fair Value</u> <u>June 30, 2020</u>	<u>PERB Portion</u> <u>June 30, 2020</u>
STIP	\$ 82,954,837	0.68%
CAPP	\$ 7,541,709,092	64.13%

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Fair Value Measurement

The BOI categorizes their 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: Quoted prices for identical assets or liabilities in active markets that BOI can access as of June 30.

Level 2: Prices determined using inputs, other than quoted prices included within Level 1, which are observable for an asset or liability, either directly or indirectly. These inputs can include quoted prices for similar assets or liabilities in active or inactive markets, or market-corroborated inputs.

Level 3: Prices determined using unobservable inputs, which generally results in BOI using the best information available and may include the BOI's own data.

BOI has cash and cash equivalents measured at cost. Other investments are measured at cost or net asset value (NAV) by BOI.

The *PERS-DCRP Disability OPEB* trust fund invests in commingled equity index funds through the manager Blackrock Institutional Trust Co., N.A (Blackrock), recorded under *Commingled Equity Securities* in the financial statements. During the fiscal year, the BOI determined it to be more appropriate to report the investments in commingled equity index funds with the level 1 category due to there being a sufficient level of observable activity with this type of fund investments being valued using a daily published price. Fixed income and equity investments classified in Level 1 of the fair value hierarchy are valued using prices quoted in active markets for those securities. These investments were disclosed at NAV in years prior to 2019.

The **Investment Risks** for the pooled investments in which the PERB participates in are described in the following paragraphs. Investments are administered by BOI, for the PERB, as part of the State of Montana's Unified Investment Program. The BOI Board approves all Investment Policy Statements (IPS) and is responsible for setting investment risk policies. BOI's stand-alone financial statements detail the investment risks associated with the securities held by the pools.

The CAPP as an internal investment pool, and STIP as an external investment pool, are subject to an element of risk in all risk categories, with the exception of CAPP having the only risk in foreign currency.

Custodial Credit Risk - Custodial credit risk is the risk that, in the event of the failure of the counter-party to a transaction, the BOI will not be able to recover the value of the investment or collateral securities that are in the possession of an outside party. Per policy, the Board's custodial bank must have bank ratings from at least two Nationally Recognized Rating Organization (NRSROs) on an annual basis. As of June 30, 2020, all investments were recorded under the BOI's name at their custodial bank.

Concentration of Credit Risk - Concentration of credit risk is the risk of loss attributable to the magnitude of any single investment per issuer name. Investments explicitly guaranteed by the U.S. Government are excluded from the concentration of credit risk requirement. Concentration of credit risk is addressed within all IPS's as set by the BOI.

The STIP IPS limits concentration to credit risk exposure by limiting portfolio investment types to 3% in an issuer except for U.S. Treasury and U.S. Agency securities as well as any repurchase agreements with a financial institution.

Credit Risk - Credit risk is defined as the risk that an issuer or other counter-party to an investment will not fulfill its obligation. With the exception of U.S. Government securities, the fixed income instruments in the investment pools have credit risk as measured by major credit rating services.

Foreign Currency Risk - Foreign currency risk is the risk that changes in the exchange rates will adversely affect the fair value of an investment. Per BOI policy, there are maximum restrictions that can be held on non-U.S. securities in a foreign currency and only CAPP is allowed to have foreign currency exposure.

Interest Rate Risk - Interest rate risk is the risk that changes in interest rates will adversely affect the fair value of an investment. In accordance with GASB Statement No. 40, the BOI uses for CAPP the effective duration as a measure of interest rate risk for all fixed income portfolios and STIP uses the weighted average maturity (WAM).

According to the STIP investment policy “the STIP portfolio will minimize interest rate risk by:

- structuring the investment portfolio so securities mature to meet cash requirements for ongoing operations thereby normally avoiding the need to sell securities on the open market prior to maturity;
- maintaining a dollar-weighted average portfolio maturity (WAM) of 60 days or less (for this purpose, the date to the next coupon reset date will be used for all floating or variable rate securities), and
- STIP will maintain a reserve account.”

The PERB’s investments subject to credit and interest rate risk at June 30, 2020 are categorized in the table below. Credit risk is disclosed using the weighted credit quality rating by investment type. Interest rate risk is disclosed using weighted effective duration.

Investment	Fair Value 6/30/2020	Credit Quality Rating¹ 6/30/2020	Effective Duration 6/30/2020
CAPP	\$ 7,541,709,092	N/R	N/A
STIP	\$ 82,954,837	N/R	46 days WAM ²
¹ CAPP has eight security investment types that are rated for credit and interest rate risk as of June 30, 2020, refer to BOI's UIP Financial Statements and IPSs for the investment types that are involved.			
² Weighted Average Maturity (WAM).			

Although CAPP and STIP investments have been rated by investment security type, CAPP, as an internal investment pool, and STIP, as an external investment pool, have not been rated.

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Securities Lending Collateral, governed under the provisions of state statutes, BOI authorized the custodial bank, State Street Bank, to lend BOI's securities to broker-dealers and other entities with a simultaneous agreement to return the collateral for the same securities in the future. The custodial bank is required to maintain collateral equal to 102% of the fair value of domestic securities and 105% of the fair value of international securities while the securities are on loan. On any day, including June 30th, the markets may move in a positive or negative direction resulting in under or over collateralization. The custodial bank compensates for market movement by recalculating on the following business day to meet the collateralization requirements. BOI and the custodial bank split the earnings, 80% and 20% respectively, on security lending activities. BOI retains all rights and risks of ownership during the loan period. The custodial bank indemnifies the BOI's credit risk exposures to the borrowers. For PERB, only CAPP participates in the security lending. There were no failures by any borrowers to return or pay distributions thereon during the period that resulted in a declaration and notice of default of the borrower. As of June 30, 2020, no securities were recalled and not yet returned.

Stable Value - Montana Fixed Fund

The Montana Fixed Fund is a stable value investment option of the PERS-DCRP and the deferred compensation plan. It is administered through outside vendors, the stable value manager Pacific Investment Management Company LLC (PIMCO); the custodial bank, State Street Bank and Trust Company (State Street); and third-party synthetic Guaranteed Interest Contract (GIC) providers - Transamerica Premier Life Insurance Company (Transamerica), Prudential Insurance Company of America (Prudential) and Voya Retirement Insurance and Annuity Company (Voya). The Montana Fixed Fund employs a synthetic stable value strategy in which the stable value manager, PIMCO, manages a diversified bond portfolio and third party insurers, Transamerica, Prudential, and Voya promise to repay participants' principal investments, plus earnings in accordance with terms of the respective synthetic GIC contracts issued to the Fund. Transamerica, Prudential, and Voya calculate a rate of interest to be applied to the contract value of the synthetic GIC for each calendar quarter called the "crediting rate", which helps smooth participants' earnings over time. The crediting rates are based on the investment manager's portfolio market value, yield, and duration in accordance with the terms of the respective contracts with the GIC providers. The Montana Fixed Fund's structure incorporates a money market-like liquidity strategy and the custodial bank calculates a blended return of the individual crediting rates and liquidity strategy for member investments. The custodial bank also calculates a Net Asset Value (NAV) that is based on the value invested in the GIC contracts, plus earning, and the liquidity strategy.

The PERS-DCRP and deferred compensation plans' stable value investments are synthetic guaranteed investment contracts (GIC) that are fully benefit responsive, measured at contract value, and do not participate in fair value changes.

All money invested in the Montana Fixed Fund of the PERS-DCRP and deferred compensation plan are held in a Pooled Trust. The Pooled Trust qualifies as a group trust under sections 401(a), including section 401(a)(24) and 501(a), of the Internal Revenue Code (IRC) of 1986, as amended. The Pooled Trust assets are invested by PIMCO and are held under a custodial agreement with State Street. The Pooled Trust assets are invested by PIMCO based on an investment guideline schedule described in the Montana Fixed Fund investment policy established by the PERB. Additional investment constraints are contained in the investment management agreement between

PERB and PIMCO, and within the respective contracts issued by each GIC provider to the Pooled Trust.

The Montana Fixed Fund is subject to investment risks associated with synthetic GIC contracts and with the bond portfolio managed by PIMCO. These risks may include, but are not limited to, the following:

Credit Risk: Credit risk is the chance that bond issuer will fail to pay interest and principal in a timely manner or that negative perceptions of the issuer's ability to make such payments will cause the price of the bond to decline. With the exception of the U.S. Government securities, fixed income instruments have credit risk as measured by major credit rating services. Obligations of the U.S. Government or obligations explicitly guaranteed by the U.S. Government are not considered to have credit risk and do not require disclosure of credit quality. The total investments credit quality rating for Montana Fixed Fund is AA.

Interest Rate Risk: Interest rate risk is the chance that bond prices overall will decline because of rising interest rates. The bond account has low to moderate interest rate risk as it invests primarily in short-term and intermediate-term bonds, whose prices are less sensitive to interest rate changes than are the prices of long-term bonds. As of June 30, 2020, in accordance with GASB Statement No. 40, PIMCO has selected the effective duration method to disclose interest rate risk. The total effective duration for Montana Fixed Funds fixed income investments, as of June 30, 2020, is 3.98 years.

Foreign Currency Risk: Currency risk is the chance that the value of a foreign investment, measured in U.S. dollars, will decrease because of unfavorable changes in currency exchange rates. The Montana Fixed Fund may include securities subject to foreign currency risk.

Default Risk: Default risk is the chance that companies or individuals will be unable to make the required payments on their debt obligations.

Derivative Risk: Derivative risk arises when the underlying fund invests in derivatives, which may involve risks different from, and possibly greater than, those of investments directly in the underlying securities or assets.

GIC Contract Risk: GICs are issued by insurance companies, banks, and other financial institutions and are intended to help reduce the volatility of any associated fixed income investments. These investment contracts include terms and conditions that can cause withdrawals or transfers from the investment contracts to occur at the lower of the contract's value or the value of the associated fixed income investments. Examples of these terms include, but are not limited to: (1) a withdrawal from the contract or plan not in accordance with its stated withdrawal provisions; (2) the plan fails to be administered in accordance with the plan documents; (3) an event or condition such as the plan's change of control, termination, insolvency, loss of its tax-exempt status, change in laws or accounting rules applicable to plan; or (4) other events resulting in a material and adverse financial impact on the contract issuer as may be set out in the specific contract, such as changes in the tax code or applicable laws or regulations. Also, the contract counter-party could default, become insolvent, file for bankruptcy protection, or otherwise be deemed by the plan's

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auditor to no longer be financially responsible. There are a limited number of investment contract providers and, due to market conditions or other factors, enough contracts may not be available to obtain the desired amount of coverage.

Variable Investments for the PERS-DCRP and deferred compensation plan are held and managed in a selection of retail and institutional mutual funds, which cover all standard asset classes and categories. The selection of offered mutual funds is designed to provide participants with the ability to diversify investments and meet their individual investment goals and strategies. With advice from an independent investment analyst and assistance from the statutorily-created Employee Investment Advisory Council (EIAC), the PERB conducts annual reviews of the offered mutual funds. The goal of the reviews is to ensure that the offered mutual funds meet standards established in the Investment Policy Statements adopted by the PERB. Each investment alternative is compared to its peers and an appropriate benchmark. *Concentration of Credit Risk* is not addressed in the investment policy statements and investments in mutual funds are not required to be disclosed.

Life Insurance Investment Option

Deferred compensation plan participants previously had the option to direct a portion of their deferrals to a term life insurance policy provided through Allianz Life Insurance. The ability to invest in life insurance is allowed under the IRC and was offered to plan participants prior to life insurance being offered as a standard component of health insurance benefit packages. This investment option has been discontinued; however, plan participants who had previously elected this option may continue.

Available investment options in the PERS-DCRP and deferred compensation plan are listed on page 94. A current listing may also be obtained by contacting MPERA.

The valuation method for investments measured at the net asset value (NAV) per share (or its equivalent) is presented in the following table for the defined benefit investments and on page 62 for the defined contribution investments.

PERB Defined Benefit Investments Measured at Fair Value

	Fair Value Measurements Using			
	June 30, 2020	Quoted Prices in Active Markets for Identical Assets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable (Level 3)
Investments by fair value level				
Commingled Equity Securities ¹	\$ 5,271,096	\$ 5,271,096		
Total Investments by fair value level	<u>\$ 5,271,096</u>	<u>\$ 5,271,096</u>		
Investments measured at the net asset value (NAV)				
CAPP Investment Pool ²	\$ 7,541,709,092			
Short Term Investment Pool (STIP)	82,954,837			
Total investments measured at the NAV	<u>7,624,663,929</u>			
Total investments measured at fair value	<u>\$ 7,629,935,025</u>			

¹ The DC Disability OPEB trust fund is invested by the manager Blackrock in commingled equity index funds measured at the Level 1 category in the fair value hierarchy.

² CAPP Investment Pool replaces five investment pools that have been previously reported prior to fiscal year 2017.

PERB Defined Benefit Investments Measured at Net Asset Value (NAV)

	June 30, 2020			
	Fair Value	Unfunded Commitments	Redemption Frequency (If Currently Eligible)	Redemption Notice Period
CAPP Investment Pool ¹	\$ 7,541,709,092		Monthly, quarterly	45-90 days
Short Term Investment Pool (STIP)	82,954,837		Daily	1 - 3 days
Total investments measured at the NAV	<u>\$ 7,624,663,929</u>			

¹ CAPP Investment Pool replaces five investment pools that have been previously reported prior to fiscal year 2017.

PERB Defined Contribution and Deferred Compensation Investments

	Fair Value Measurements Using			
		Quoted Prices in Active Markets for Identical Assets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable (Level 3)
	June 30, 2020			
Investments by fair value level				
Total Investments by fair value level ¹				
Investments measured at the net asset value (NAV)				
Montana Fixed Fund (Stable Value Pool) ²	\$ 271,441,459			
Variable Pooled Investments ³	583,900,635			
Short Term Investment Pool ⁴	2,266,944			
Allianz Life Insurance Investment ⁵	12,316			
Total investments measured at the NAV	\$ 857,621,354			
Total investments measured at fair value	\$ 857,621,354			

¹ All investments are pooled and measured at net asset value (NAV) and not within the fair value level hierarchy.

² The Montana Fixed Fund is a stable value option that invests in cash, other liquid investments, and synthetic Guaranteed Investment Contract (GICs) that are fully benefit-responsive and is reported at contract value.

³ The Variable Pooled Investments are all mutual funds measured at Net Asset Value (NAV).

⁴ Short Term Investment Pool (STIP) is an external investment pool managed and administered through Montana Board of Investments (BOI) and fair values are determined using the Net Asset Value (NAV) per share for the investment.

⁵ Term life insurance policy investment option provided through Allianz Life Insurance. This option was offered to deferred compensation plan participants prior to life insurance being offered as a standard component of health insurance benefit packages. This investment option has been discontinued; however plan participants who had previously elected this option may continue.

PERB Defined Contribution and Deferred Compensation Investments Measured at Net Asset Value

June 30, 2020				
	Fair Value	Unfunded Commitments	Redemption Frequency (If Currently Eligible)	Redemption Notice Period
Montana Fixed Fund (Stable Value Pool) ¹	\$ 271,441,459		Daily	None
Variable Pooled Investments ²	583,900,635		Daily	None
Short Term Investment Pool ³	2,266,944		Daily	1 - 3 days
Allianz Life Insurance Investment ⁴	12,316		Daily	None
Total investments measured at the NAV	\$ 857,621,354			

¹ The Montana Fixed Fund is a stable value option that invests in cash, other liquid investments, and synthetic Guaranteed Investment Contract (GICs) that are fully benefit-responsive and are reported at contract value.

² The Variable Pooled Investments are all mutual funds measured at Net Asset Value (NAV).

³ Short Term Investment Pool (STIP) is an external investment pool managed and administered through Montana Board of Investments (BOI).

⁴ Term life insurance policy investment option provided through Allianz Life Insurance. This option was offered to deferred compensation plan participants prior to life insurance being offered as a standard component of health insurance benefit packages. This investment option has been discontinued; however plan participants who had previously elected this option may continue.

The fair values are determined using the Net Asset Value (NAV) per share for the investment.

NOTE B. LITIGATION

Each of the plans administered by the PERB may be involved in various claims and legal actions arising in the ordinary course of business. In the opinion of management and legal counsel, the disposition of the Tadman matter below will have a material, adverse effect on the plans implicated in the litigation. In the opinion of management and legal counsel, the disposition of unfunded actuarial accrued liabilities owed to PERS in the Lewis and Clark County case and the Montana Association of Counties case, will have a material, adverse effect on the PERS plan's financial position as a whole should the Court rule against MPERA and the MPERB. In the opinion of management and legal counsel, the disposition of the Murnion matter below could have a material, adverse effect, in the aggregate, on the PERS plan's financial position as a whole. An estimate of the potential liability for the Lewis and Clark County and Montana Association of Counties (MACo) cases cannot be made.

Tadman, et al. v. State of Montana. A retired member of the Sheriffs' Retirement System filed a class action in the 8th Judicial District of Montana against the State of Montana on October 6, 2015, alleging the inappropriate advising, reporting, and withholding of state and federal income taxes on certain line-of-duty disability benefits before conversion to a normal retirement benefit. The State was served with the Complaint on November 25, 2015, and is represented by Jean Faure and Jason Holden of the Faure Holden law firm in Great Falls, Montana. On June 11, 2019 the Court issued an Order granting Plaintiff's Motion to Certify Class. The Court has defined the prospective class of plaintiffs in this matter and the parties were instructed by the Court to meet and confer to agree on the class form of notice and notice plan concerning the matter. Counsel representing the class are Lawrence A. Anderson from Great Falls, Montana and Tom and Sean Morrison from Helena, Montana.

Murnion v. MPERA and MPERB. A retired member of the Public Employee Retirement System appealed a Final Order of the Montana Public Employees' Retirement Board upholding the Hearing Examiner's Proposed Findings of Fact and Conclusions of Law determining that the retired member was not entitled to full-time PERS service credit for his part-time years of employment. On March 15, 2019, the retired member filed a "Petition for Appeal of Agency Action and Complaint" in the First Judicial District of Montana in order to appeal the Board's Final Order under the provisions of the Montana Administrative Procedure Act (MAPA). On June 26, 2019 MPERA filed a motion to 1) vacate any forthcoming Scheduling Order, 2) set a briefing schedule to control the judicial review of this matter, and 3) dismiss the retired member's Count II and III for failure to state a claim within the Court's jurisdiction, or, in the alternative, confine any review of each claim to the administrative record. On July 12, 2019 a Scheduling Order was issued by the Court calling for additional periods for discovery and setting a date for a two-day non-jury bench trial beginning on July 8, 2020. On July 15, Petitioner filed a response to MPERA's motion, and MPERA filed a reply on July 19, 2019. A notice of submittal was filed by MPERA on July 22, 2019. On August 21, 2020, an amended Scheduling Order was issued by the Court extending deadlines for periods of discovery as well as all pre-trial dates. This matter was settled between the parties on October 8, 2020.

MPERB v. Lewis and Clark County. On May 1, 2020, the MPERB filed a Complaint for Declaratory Relief in the First Judicial District against Lewis and Clark County. This complaint

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asks the District Court to rule that Article VIII, § 15 of the Montana Constitution vests the Montana Public Employees' Retirement Board with the authority to: 1) actuarially determine the amount of the unfunded pension liabilities attributable to a component unit of the Lewis and Clark County that has terminated its participation in a MPERB administered defined benefit plan; and 2) compel the payment of and collect this unfunded pension liability upon this component unit's termination. On May 13, 2020, Lewis and Clark County filed a motion to dismiss the Complaint. This motion has been fully briefed by both parties and the MPERB awaits a ruling from the District Court. On June 1, the MPERB filed its First Amended Complaint amending its original pleading to add a claim for breach of contract against Lewis and Clark County. On June 18, 2020, Lewis and Clark County filed a motion to dismiss MPERB's 1st Amended Complaint. This motion has been fully briefed and the MPERB awaits a ruling from the District Court.

Montana Association of Counties (MACo), Lewis and Clark County, and Cascade County v. MPERB and MPERA. On May 1, 2020, the Montana Association of Counties (MACo) filed a Complaint for Declaratory Judgment, Injunctive Relief, and a Writ of Prohibition against the MPERB and MPERA in the First Judicial District Court of Lewis and Clark County. This Complaint asked the District Court to rule that: 1) Article VIII, § 15 of the Montana Constitution does not vest the MPERB with the authority to determine and collect unfunded pension liabilities owed to the PERS trust as a result of partial withdrawals of employees or reductions in force; 2) the 1947 Contract between the MPERB and Lewis and Clark County and Cascade County, as well as other similar agreements between the MPERB and all other Montana counties, does not vest the MPERB with the authority to determine and collect unfunded pension liabilities owed to the PERS trust as a result of partial withdrawals of employees or reductions in force; 3) MACo is entitled to a preliminary and permanent injunction enjoining the MPERB from assessing withdrawal penalties against Montana counties; and 4) MACo is entitled to a Writ of Prohibition arresting the MPERB from assessing withdrawal penalties against Montana counties. On May 15, 2020, MACo amended its original pleading by filing its First Amended Complaint. This amendment added the additional parties of Lewis and Clark County and Cascade County to this action as plaintiffs as well as additional claims for breach of express and implied contract. On June 25, 2020, the MPERB filed a Motion to Dismiss, or in the Alternative, Partial Summary Judgment with regard to the Plaintiffs' Count II, IV, V, and VI. This motion has been fully briefed by all parties and the MPERB awaits a ruling from the District Court.

NOTE C. PLAN DESCRIPTIONS, MEMBERSHIP CONTRIBUTION INFORMATION

The plans are established and amended statutorily by the Legislature. In all defined benefit plans (except VFCA), if a member leaves covered employment before retirement, the member contributions plus accrued interest (accumulated contributions) may be refunded to the member. If a member returns to service and repays the withdrawn accumulated contributions plus the interest the accumulated contributions would have earned had they remained on deposit, service credit is restored.

DEFINED BENEFIT RETIREMENT PLANS

PLAN DESCRIPTIONS

Public Employees' Retirement System-DBRP (PERS-DBRP)

The PERS-Defined Benefit Retirement Plan (DBRP) is a multiple-employer, cost-sharing plan established July 1, 1945, and governed by Title 19, chapters 2 & 3, Montana Code Annotated (MCA). This plan covers the State, local governments, certain employees of the Montana University System and school districts.

All new members are initially members of the PERS-DBRP and have a 12-month window during which they may choose to remain in the PERS-DBRP or join the PERS-DCRP by filing an irrevocable election. Members may not be members of both the defined benefit and defined contribution retirement plans. All new members from the universities also have a third option to join the university system's Montana University System Retirement Program (MUS-RP).

The PERS-DBRP provides retirement, disability, and death benefits to plan members and their beneficiaries. Benefits are established by state law and can only be amended by the Legislature. Benefits are based on eligibility, years of service, and highest average compensation. Member rights are vested after five years of service.

Public Employees' Retirement System-DBRP Education Fund: Education is provided to all members of the PERS regardless of plan choice as governed by section 19-3-112, MCA. The education must be presented with impartial and balanced information about plan choices, investments and retirement planning.

The education program consists of ongoing transfer education for new members and investment/retirement planning education for all active members.

Plan Membership Elections: MPERA has included in the financial statements \$1,983,881 in *Transfers to DCRP* and \$268,057 in *Transfers to MUS-RP*. These transfers reflect the DCRP and MUS-RP contributions of participants that filed elections at or near the June 30 cutoff date. The contributions were transferred in early fiscal year 2021.

Public Employees' Retirement System - DCRP Disability OPEB (DCRP Disability OPEB)

The DCRP Disability OPEB is considered a cost-sharing multiple-employer plan that provides an other post-employment defined benefit for the PERS-DCRP members.

All new PERS members are initially members of the PERS-DBRP and have a 12-month window during which they may choose to remain in the PERS-DBRP or join the PERS-DCRP by filing an irrevocable election. Members may not be members of both the defined benefit and defined

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contribution retirement plans. The PERS-DCRP provides disability benefits to eligible members who elect the PERS-DCRP.

The DCRP Disability OPEB Trust Fund was established on July 1, 2002, and is governed by section 19-3-2141, MCA. Benefits of this long-term disability plan are established by state law and can only be amended by the Legislature. This benefit is based on eligibility, years of service, and compensation. Member rights are vested after five years of service.

As of June 30, 2020, there are nine members receiving a benefit from the disability plan, one less than as of June 30, 2019.

GASB Statement No. 74, Financial Reporting for Postemployment Benefit Plans Other Than Pension Plans will not be implemented at this time due to the liability being immaterial to the plan as a whole.

Judges' Retirement System (JRS)

The JRS is a single-employer defined benefit plan established in 1967, and governed by Title 19, chapters 2 & 5 of the MCA. This plan provides benefits for all Montana judges of the district courts, justices of the Supreme Court, the Chief Water Judge and the Associate Water Judge. Benefits are established by state law and can only be amended by the Legislature. The JRS provides retirement, disability, and death benefits to plan members and their beneficiaries. Benefits are based on eligibility, years of service, and compensation. Member rights are vested after five years of service.

Highway Patrol Officers' Retirement System (HPORS)

The HPORS is a single-employer, defined benefit plan established July 1, 1945, and governed by Title 19, chapters 2 & 6 of the MCA. This plan provides retirement benefits to all members of the Montana Highway Patrol, including supervisory personnel. Benefits are established by state law and can only be amended by the Legislature. The HPORS provides retirement, disability, and death benefits to plan members and their statutory beneficiaries. Benefits are based on eligibility, years of service, and highest average compensation. Member rights for death and disability are vested immediately. All other rights are vested after five or ten years of service.

Deferred Retirement Option Program (DROP): Eligible members of HPORS can participate in the DROP by filing a one-time irrevocable election with the PERB. The DROP is governed by Title 19, chapter 6, part 10. A member must have completed at least twenty years of membership service to be eligible. The member may elect to participate in the DROP for a minimum of one month and a maximum of 60 months and may participate in the DROP only once. A participant remains a member of the HPORS, but will not receive membership service or service credit in the system for the duration of the member's DROP period. During participation in the DROP, all mandatory contributions continue to the retirement system, except the member contribution which goes to the member's DROP account. A monthly benefit is calculated based on salary and years of service to date as of the beginning of the DROP period. The monthly benefit is paid into the member's DROP account until the end of the DROP period. At the end of the DROP period, the participant may receive the balance of the DROP account in a lump-sum payment or in

a direct rollover to another eligible plan, as allowed by the IRS. If the participant continues employment after the DROP period ends, they will again accrue membership service and service credit. The DROP account cannot be distributed until the employment is formally terminated. As of June 30, 2020, there were 22 DROP participants. Since program inception, a total of 29 members have participated in the DROP. The balance of the DROP accounts is \$3.8 million.

Sheriffs' Retirement System (SRS)

The SRS is a multiple-employer, cost-sharing defined benefit plan established July 1, 1974, and governed by Title 19, chapters 2 & 7, MCA. This plan provides retirement benefits to all Department of Justice criminal and gambling investigators hired after July 1, 1993, all detention officers hired after July 1, 2005, and to all Montana sheriffs. Benefits are established by state law and can only be amended by the Legislature. The SRS provides retirement, disability, and death benefits to plan members and their beneficiaries. Benefits are based on eligibility, years of service, and highest average compensation. Member rights are vested after five years of service.

Game Wardens' and Peace Officers' Retirement System (GWPORS)

The GWPORS is a multiple-employer, cost-sharing defined benefit plan established in 1963 and governed by Title 19, chapters 2 & 8, MCA. This plan provides retirement benefits to all persons employed as a game warden, warden supervisory personnel, or state peace officer. Benefits are established by state law and can only be amended by the Legislature. The GWPORS provides retirement, disability, and death benefits to plan members and their beneficiaries. Benefits are based on eligibility, years of service, and highest average compensation. Member rights are vested after five years of service.

Municipal Police Officers' Retirement System (MPORS)

The MPORS is a multiple-employer, cost-sharing defined benefit plan established in 1974 and is governed by Title 19, chapters 2 & 9 of the MCA. This plan covers all municipal police officers employed by first- and second-class cities and other cities that adopt the plan. Benefits are established by state law and can only be amended by the Legislature. The MPORS provides retirement, disability, and death benefits to plan members and their statutory beneficiaries. Benefits are based on eligibility, years of service, and compensation. Member rights for death and disability are vested immediately. All other rights are vested after five years of service.

Deferred Retirement Option Plan (DROP): Eligible members of MPORS can participate in the DROP by filing a one-time irrevocable election with the PERB. The DROP is governed by Title 19, chapter 9, part 12, MCA. A member must have completed at least twenty years of membership service to be eligible. They may elect to participate in the DROP for a minimum of one month up to a maximum of 60 months and may participate in the DROP only once. A participant remains a member of the MPORS, but will not receive membership service or service credit in the system for the duration of the member's DROP period. During participation in the DROP, all mandatory contributions continue to the retirement system. A monthly benefit is calculated based on salary and years of service as of the beginning of the DROP period. The monthly benefit is paid into the member's DROP account until the end of the DROP period. At the

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end of the DROP period, the participant may receive the balance of the DROP account in a lump-sum payment or in a direct rollover to another eligible plan, as allowed by the IRS. If the participant continues employment after the DROP period ends, they will again accrue membership service and service credit. The DROP account cannot be distributed until employment is formally terminated. As of June 30, 2020, there were 66 DROP participants. Since program inception, a total of 191 members have participated in the DROP. The balance of the DROP accounts is \$10.7 million.

Firefighters' Unified Retirement System (FURS)

The FURS is a multiple-employer, cost-sharing defined benefit plan established in 1981, and governed by Title 19, chapters 2 & 13, MCA. This plan provides retirement benefits to firefighters employed by first- and second-class cities or by other cities and rural fire district departments that adopt the plan; and to firefighters hired by the Montana Air National Guard (MANG) on or after October 1, 2001. Benefits are established by state law and can only be amended by the Legislature. The FURS provides retirement, disability, and death benefits to plan members and their beneficiaries. Benefits are based on eligibility, years of service, and compensation. Member rights for death and disability are vested immediately. All other member rights are vested after five years of service.

Volunteer Firefighters' Compensation Act (VFCA)

The VFCA is a multiple-employer, cost-sharing defined benefit plan. This compensation plan was established in 1965 and is governed by Title 19, chapter 17, MCA. All members are unpaid volunteers and the State of Montana is the only contributor to the plan. Benefits are established by state law and can only be amended by the Legislature. The VFCA provides pension, disability, and survivorship benefits for all eligible volunteer firefighters who are members of qualified volunteer fire companies in unincorporated areas, towns or villages and includes volunteer fire departments, fire districts, and fire service areas under the laws of the State of Montana. Benefits are based on eligibility and years of service. Member rights are vested after ten years of credited service. VFCA also provides limited benefits for death or injuries incurred in the line of duty.

A member who chooses to retire and draw a pension benefit may return to service with a volunteer fire department without loss of benefits. However, a returning retired member may not be considered an active member accruing credit for service.

VFCA is a qualified Length of Service Award Plan (LOSAP) under 457(e)(11)(B) of the Internal Revenue Service tax code. This is only for tax reporting purposes. This does not change any requirements of the program.

MEMBERS AND EMPLOYERS

Membership in each plan as of June 30, 2020 is detailed in the following chart.

Plan Membership as of Fiscal Year End June 30, 2020										
Type of Plan for Reporting Purposes as of Fiscal Year End June 30, 2020	Single-Employer Defined Benefit		Multi-Employer Defined Benefit						Multi-Employer Defined Contribution	
Plan Designation	JRS	HPORS ¹	PERS-DBRP ²	SRS	GWPORS	MPORS ¹	FURS	VFCA	PERS-DCRP	457
Classification of Member										
Active	58	233	29,039	1,502	1,033	829	735	2,401	3,100	5,601
Inactive: entitled to, but not yet receiving benefits or a refund:										
Vested	2	17	4,070	146	135	95	39	766	639	4,293
Non-Vested	1	31	20,548	696	495	181	72		790	
Inactive members and beneficiaries currently receiving benefits:										
Service Retirements	67	335	23,195	711	371	811	648	1,519	106	
Disability Retirements		4	138	28	2	27	12	1	9	
Survivor benefits	5	11	523	24	11	32	18	4	1	
Total Membership	133	631	77,513	3,107	2,047	1,975	1,524	4,691	4,645	9,894

¹ Includes DROP in the Active count.

² The PERS-DBRP Inactive Non-Vested count includes dormant accounts that were previously not counted.

Active Defined Benefit Membership by Employer Type ¹						
Employer Type	PERS-DBRP		SRS		GWPORS	
As of Fiscal Year End June 30,	2020	2019	2020	2019	2020	2019
State Agencies ²	10,240	10,141				
Department of Justice			59	62		
Department of Corrections					761	736
Department Fish, Wildlife & Parks					107	112
Department of Livestock					40	46
Department of Transportation					84	86
Counties	5,525	5,537	1,443	1,392		
Cities and Towns	3,527	3,553				
Colleges and Universities	2,743	2,723			41	41
School Districts	5,705	5,664				
High Schools	70	67				
Other Agencies	1,229	1,223				
Total	29,039	28,908	1,502	1,454	1,033	1,021

¹ Defined benefit plans that have more than one employer and do not have a minimum benefit adjustment for their retirees, only a Guaranteed Annual Benefit Adjustment (GABA) at retirement.

² For the purposes of this schedule, "State Agencies" for PERS-DBRP includes all 33 agencies for the State of Montana.

Active Defined Benefit Membership by Employee Type ¹								
Employee Type	JRS		HPORS ²		MPORS ²		FURS	
As of Fiscal Year End June 30,	2020	2019	2020	2019	2020	2019	2020	2019
GABA	56	56	233	232	825	802	733	720
Non-GABA	2	2	0	0	4	4	2	2
Total	58	58	233	232	829	806	735	722
¹ Retirees are eligible for a Guaranteed Annual Benefit Adjustment (GABA) or a minimum benefit adjustment depending on their election of GABA or Non-GABA at time of hire. ² Includes DROP in the count.								

¹ Retirees are eligible for a Guaranteed Annual Benefit Adjustment (GABA) or a minimum benefit adjustment depending on their election of GABA or Non-GABA at time of hire.

² Includes DROP in the count.

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Participating Defined Benefit Employers										
Employer Type	PERS-DBRP		SRS ¹		GWPORS ²		MPORS		FURS ³	
As of Fiscal Year End June 30,	2020	2019	2020	2019	2020	2019	2020	2019	2020	2019
State Agencies	33	33	1	1	4	4			1	1
Counties	55	55	56	56						
Cities and Towns	97	98					33	33	15	15
Colleges and Universities	5	5			3	3				
School Districts	241	238								
High Schools	5	5								
Other Agencies	112	112								
Rural Fire Districts									11	11
Total	548	546	57	57	7	7	33	33	27	27

¹ The State Agency for SRS is the Department of Justice.

² The State Agencies for GWPORS are Department of Corrections, Department of Fish, Wildlife & Parks, Department of Livestock, and Department of Transportation.

³ The State Agency for FURS is the Department of Military Affairs.

Not listed are JRS and HPORS, both with one employer each. JRS has the State Agency - Supreme Court and HPORS has the State Agency - Department of Justice.

HPORS DROP Participation		
As of June 30	2020	2019
Participants Beginning of Year	18	13
Participants Added	7	7
Completed DROP	3	2
Participants End of Year	22	18
DROP Distributions	\$364,778	\$248,628

MPORS DROP Participation		
As of June 30	2020	2019
Participants Beginning of Year	64	62
Participants Added	12	19
Completed DROP	9	17
Participants End of Year	67	64
DROP Distributions	\$1,876,643	\$3,379,901

The active membership and participating employers for **PERS-DCRP Disability OPEB** are represented in the following tables:

PERS-DCRP PARTICIPATING EMPLOYERS		
Employers	June 30, 2020	June 30, 2019
State Agencies	32	31
Counties	53	51
Cities and Towns	60	57
Universities	5	5
School Districts	125	122
High Schools	4	5
Other Agencies	50	49
Total	329	320

PERS-DCRP Active Membership by Employer Type		
Employer Type	June 30, 2020	June 30, 2019
State Agencies	1,526	1,397
Counties	479	439
Cities	354	334
Universities	152	156
High Schools	5	5
School Districts	363	332
Other Agencies	221	208
Total	3,100	2,871

FY 2020 Schedule of Contribution Rates

System	Member	Employer	State
PERS-DBRP¹	7.9% [19-3-315(1)(a), MCA]	8.77% State & University 8.67% Local Governments 8.4% School Districts (K-12) [19-3-316, MCA]	0.1% of Local Government payroll – paid from the General Fund 0.37% School Districts (K-12) payroll – paid from the General Fund [19-3-319, MCA]
PERS-DCRP¹	7.9% [19-3-315(1)(a), MCA]	8.77% State & University 8.67% Local Governments 8.4% School Districts (K-12) [19-3-316, MCA]	0.1% of Local government payroll – paid from the General Fund 0.37% School Districts (K-12) payroll – paid from the General Fund [19-3-319, MCA]
PERS-DCRP Disability OPEB		0.3% - an allocation of the DCRP employer contribution [19-3-2117, MCA]	
JRS	7.0% [19-5-402, MCA]	25.81% [19-5-404, MCA]	
HPORS	13.0% - hired prior to 7/01/97 & not electing GABA 13.05% - hired after 6/30/97 & members electing GABA [19-6-402, MCA]	28.15% [19-6-404(1), MCA]	10.18% of salaries – paid from the General Fund [19-6-404(2), MCA]
SRS	10.495% [19-7-403, MCA]	13.115% [19-7-404, MCA]	
GWPORS	10.56% [19-8-502, MCA]	9.0% [19-8-504, MCA]	
MPORS	7.0% - hired after 6/30/75 & prior to 7/1/79 & not electing GABA [19-9-710(1)(a), MCA] 8.5% - hired after 6/30/79 & prior to 7/1/97 & not electing GABA [19-9-710(1)(b), MCA] 9.0% - hired after 6/30/97 & members electing GABA [19-9-710(1)(c), MCA & 19-9-710(2), MCA]	14.41% [19-9-703, MCA]	29.37% of salaries – paid from the General Fund [19-9-702, MCA]
FURS	9.5% - hired prior to 7/1/97 & not electing GABA [19-13-601(2)(a), MCA] 10.7% - hired after 06/30/97 & members electing GABA [19-13-601(2)(b), MCA]	14.36% [19-13-605, MCA]	32.61% of salaries – paid from the General Fund [19-13-604, MCA]
VFCA			5.0% of fire insurance premium tax, paid from the General Fund [19-17-301, MCA]

¹ The employer and/or member contribution rates increase on July 1, 2020 for PERS-DBRP and PERS-DCRP.

CONTRIBUTIONS

Member and employer contribution rates are established by state law and may be amended only by the Legislature.

Member contributions are deducted from each member's salary and remitted by participating employers. An individual account is established for each member's contributions and interest allocations until a request for retirement or refund is processed.

- For **PERS-DBRP**, the 7.9% member contributions will be decreased to 6.9% on January 1 following actuary valuation results that show the amortization period has dropped below 25 years and would remain below 25 years following the reduction of both the additional employer and additional member contribution rates. There will be no reduction to the member contributions on January 1, 2021 due to the amortization period being 35 years at June 30, 2020.
- The **PERS-DBRP** employee education program is funded by 0.04% of the employer's contributions.
- For **MPORS**, member contribution rates are dependent upon date of hire as a police officer.

Employer contributions for **PERS-DBRP** temporarily increased 1.0%, effective July 1, 2013. Further, employer contributions increase an additional 0.1% a year over 10 years beginning July 1, 2014, through 2024. The employer additional contributions, including the 0.27% added in 2007 and 2009, terminate on January 1 following actuary valuation results that show the amortization period has dropped below 25 years and would remain below 25 years following the reduction of both the additional employer and member contribution rates. Based on the June 30, 2020 actuarial valuation, the additional contributions will not be terminated on January 1, 2021.

- For **PERS-DBRP** (§19-3-1106, MCA), **SRS** (§19-7-1101, MCA), and **FURS** (§19-13-1101, MCA), employer contributions are required to be paid on working retiree compensation. Member contributions are not required for working retirees.
- Under section 19-3-2117, MCA the employers are the only contributors to the **DCRP Disability OPEB**. The employer contribution rate is 0.30% of a DCRP member's compensation, which is allocated to the long-term disability plan trust fund to provide disability benefits to eligible DCRP members.
- For the **SRS**, during the 2017 Legislative Session, House Bill 383 was passed temporarily increasing both the employee and employer contributions. Effective July 1, 2017, the employee contributions increased from 9.245% to 10.495%. The employer had an additional contribution increase of 3%, from 0.58% to 3.58%, for a total employer contribution rate of 13.115%. The employee contributions will return to 9.245% and the employer contributions will return to 9.535% when reducing the employee contribution and

terminating the additional employer contributions will not cause the amortization period to exceed 25 years.

State contributions and appropriations

- **PERS-DBRP** receives a supplemental state appropriation from the general fund of the State of Montana. The total amount received for fiscal year 2020 was \$34.0 million. These are recorded as *State Appropriations* on the financial statements.
- The State contributions for **MPORS** and **FURS**, are requested at the beginning of the fiscal year based on the previous fiscal year compensation and are due no later than November 1.
- The State is the only contributor to the **VFCA**. Contributions are 5% of fire insurance premium taxes collected on certain fire risks. The State Auditor makes annual payments from the general fund to the Volunteer Firefighters' Compensation Act fund.

ADDITIONAL SERVICE PURCHASE DUE TO A REDUCTION IN FORCE

Section 19-2-706, MCA allows state and university system active employees of **PERS-DBRP**, **HPORS**, **SRS**, **GWPORS**, and **FURS** who are eligible for a service retirement and whose positions have been eliminated due to a reduction in force, to have their employer pay a portion of the total cost of purchasing up to three years of "1-for-5" additional service. The employer has up to ten years to complete payment for the service purchases and is charged the actuarially required rate of return as established by the PERB on the unpaid balance.

- The **PERS-DBRP** employees participating under section 19-2-706, MCA increased from 260 in fiscal year 2019 to 261 in fiscal year 2020. The contributions received (including interest) during fiscal year 2020 totaled \$17,924. These are recorded in the *Accounts Receivable* on the financial statements. The outstanding balance at June 30, 2020, totaled \$9,210. This is recorded as *Notes Receivable* on the financial statements.
- Three **SRS** employees have taken advantage of this provision to date. All purchases are paid in full.
- No **HPORS**, **GWPORS**, or **FURS** employees have taken advantage of this provision to date.

SUPPLEMENTAL PAYMENTS

- *Supplemental Benefit for Retirees:* Section 19-6-709, MCA provides eligible **Montana highway patrol officers** retired prior to July 1, 1991, or their survivors, an annual supplemental lump-sum payment distributed each September. This lump-sum payment is funded by a statutory appropriation requested by the PERB from the general fund. Factors impacting eligibility include the number of years the recipient has received a service

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retirement benefit or disability benefit, the recipient's age, and whether the recipient is employed in a position covered by a retirement system under Title 19.

- *VFCA Group Insurance Payments:* Supplemental payments are available to qualified volunteer fire companies that provide additional group medical insurance for their members in case of death or injury incurred while in the line of duty. The payment is made to the volunteer fire companies and is equal to \$75 per year for each mobile firefighting unit owned by the volunteer fire company, up to a maximum of two units.

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DEFINED BENEFIT PLAN PROVISIONS

System	Common provisions and terms			
	Compensation period for benefit calculation	Vesting	Eligibility	Benefit Multiplier
PERS-DBRP	Member's highest average compensation (HAC): * Pre-7/01/2011 - consecutive 36 months; * 7/01/2011 - consecutive 60 months; * 7/01/2013 - 110% annual cap on HAC compensation.	5 years	Pre-7/01/2011 * 30 years service, any age or * 5 years, age 60 or * any years, age 65 7/01/2011 * 5 years, age 65, or * any years, age 70	Pre-7/01/2011 * < 25 years: 1.78571% * 25 years or more: 2% 7/01/11 * < 10 years: 1.5% * 10-29 years: 1.78571% * 30 years or more: 2%
JRS	Member's current salary or highest average compensation (HAC): * Pre-7/01/1997 and non-GABA - monthly compensation at retirement; * 7/01/1997 or electing GABA - consecutive 36 months; * 7/01/2013 - 110% annual cap on HAC compensation.	5 years	5 years, age 60	* Up to 15 years: 3.33% * 15 years or more: 1.785% for each year > 15 years
HPORS	Member's highest average compensation (HAC): * Consecutive 36 months; * 7/01/2013 - 110% annual cap on HAC compensation.	Pre-7/01/2013 5 years 7/01/2013 10 years	20 years, any age	2.6% per year
SRS	Member's highest average compensation (HAC): * Pre-7/01/2011 - consecutive 36 months; * 7/01/2011 - consecutive 60 months; * 7/01/2013 - 110% annual cap on HAC compensation.	5 years	20 years, any age	2.5% per year
GWPORS	Member's highest average compensation (HAC): * Pre-7/01/2011 - consecutive 36 months; * 7/01/2011 - consecutive 60 months; * 7/01/2013 - 110% annual cap on HAC compensation.	5 years	* 20 years, age 50 or * 5 years, age 55	2.5% per year

FINANCIAL SECTION

System	Compensation period for benefit calculation	Vesting	Eligibility	Benefit Multiplier
MPORS	Member's final average compensation (FAC): * Pre-7/01/1977 - average monthly compensation at retirement. * 7/01/1977 - FAC last consecutive 36 months. * 7/1/2013 - 110% annual cap on FAC compensation.	5 years	* 20 years, any age or * 5 years, age 50	2.5% per year
FURS	Member's compensation: * Pre-7/01/1981 and no GABA - highest monthly compensation (HMC); * 7/01/1981 and GABA - HAC instead of HMC consecutive 36 months. * 7/1/2013 - 110% annual cap on HAC compensation.	5 years	* 20 years, any age or * 5 years, age 50	* Pre-7/1/1981 and no GABA: 2% per year if less than 20 years, and * 50% + 2% per year if greater or equal to 20 years * Post 7/1/1981 and GABA: 2.5% per year
VFCA	No compensation	10 years	* 20 years, age 55 or * 10 years, age 60	* 10 - 20 years: \$8.75 per credited year * 20 years or more: \$7.50 per credited year * Post 7/01/2011, actuarially sound, and 30 years or more: \$7.50 per credited year

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System	Common provisions and terms	
	Working Retiree Limitations	Retirement Benefits - Form of Payment
PERS-DBRP	<p>(1) Pre-7/1/2011 and < 65 years of age * \$1 reduced for \$1 earned over 960 hours</p> <p>(2) > 65 years of age and less than 70 1/2 retiree \$1 reduced for \$1 earned in excess of: * 960 hour limit above; or * sum of benefit + PERS earnings that exceeds HAC adjusted for inflation.</p>	<ul style="list-style-type: none"> • Option 1, single life annuity, balance to beneficiary • Option 2, 100% joint and survivor benefit • Option 3, 50% joint and survivor benefit • Option 4, a life annuity with period certain. <p>Within 18 months of the death of or divorce from the contingent annuitant (CA), retiree can choose Option 1 or select new CA and/or a different option.</p> <p>* Trusts, estates, and charitable organizations as beneficiaries can only receive a lump-sum payment.</p>
JRS	N/A	
HPORS		* Life annuity, 100% continuation to surviving spouse or dependent children.
GWPORS	<p>Return on or after 7/1/2017:</p> <p>(1) < 480 hours in a calendar year:</p> <ul style="list-style-type: none"> • \$1 reduced for each \$3 > \$5 thousand in year. 	<ul style="list-style-type: none"> • Option 1, single life annuity, balance to beneficiary • Option 2, 100% joint and survivor benefit • Option 3, 50% joint and survivor benefit • Option 4, a life annuity with period certain.
SRS	<p>(2) 480 or more hours in a calendar year:</p> <ul style="list-style-type: none"> • become active member of the system; • retirement benefit stops. <p>* Employer and state contributions are paid on working retirees.</p>	<p>Within 18 months of the death of or divorce from the contingent annuitant (CA), retiree can choose Option 1 or select new CA and/or a different option.</p> <p>* Trusts, estates, and charitable organizations as beneficiaries can only receive a lump-sum payment.</p>
MPORS		* Life annuity, 100% continuation to surviving spouse or dependent children.
FURS		* Life annuity, 100% continuation to surviving spouse or dependent children.
VFCA	N/A	N/A

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System	Working Retiree Limitations	Retirement Benefits - Form of Payment
HPORS DROP	N/A	<p>During DROP employment:</p> <ul style="list-style-type: none"> * Monthly DROP accruals, including GABA for MPORS only; plus * interest at assumed rate of return. <p>Post DROP employment:</p> <ul style="list-style-type: none"> * no retirement or DROP payment; * DROP account accrues interest.
MPORS DROP	N/A	<p>Termination of Post DROP employment:</p> <ul style="list-style-type: none"> * retirement benefit; * Additional benefit based on member's service credit and HAC after DROP; * DROP benefit.

System	Common provisions and terms	
	Service Credit	Membership Service
PERS-DBRP	<ul style="list-style-type: none"> * Service credit determines benefit. * 1 month of service credit = 160 compensated hours. This includes certain transferred and purchased service. * Eligible active members may purchase 1 for 5 service credit. 	<ul style="list-style-type: none"> * Membership service determines vesting and benefits. * 1 month of membership service = any month member contributions are reported. * Eligible member may purchase membership service.
JRS		
HPORS		
SRS		
GWPORS		
MPORS		
FURS		
VFCA	<p>1 year of credit for service:</p> <ul style="list-style-type: none"> • serve with same fire company entire fiscal year, and • minimum 30 hours training. <p>* Fractional years are not credited.</p>	N/A

System	Common provisions and terms	
	Compensation	Withdrawal of member contributions
PERS-DBRP	Compensation generally means: * all remuneration paid; * excluding certain allowances, benefits, and lump sum payments; * specifically defined in law and differs amongst the systems. * 7/1/2013 - Bonuses paid are not compensation or pensionable.	Upon termination, a member is eligible to: * forfeit right to monthly benefit. * withdraw member contributions + interest. * rollover >\$200 refunds within 90 days.
JRS		
HPORS		
SRS		
GWPORS		
MPORS		
FURS		
VFCA	N/A	N/A

System	Common provisions and terms	
	Contributions	Member contributions interest credited
PERS-DBRP	* Member contributions are made through an "employer pickup" pretax arrangement.	* Interest is credited to member accounts at the rates determined by the Board. * The fiscal year 2020 interest rate credited to member accounts was 2.39%.
JRS		
HPORS		
SRS		
GWPORS		
MPORS		
FURS		
PERS-DCRP Disability OPEB	* Member contributions: None * Employer contributions: 0.30% of member compensation	
VFCA	N/A	N/A

FINANCIAL SECTION

System	Early Retirement Benefit	Second Retirement Benefit
PERS-DBRP	<p>Actuarially reduced:</p> <ul style="list-style-type: none"> * Pre-7/01/2011: <ul style="list-style-type: none"> • 5 years membership service, age 50 or • 25 years membership service, any age * 7/01/2011: <ul style="list-style-type: none"> • 5 years membership service, age 55 	<p><u>Requires returning to PERS-covered employment:</u></p> <p>Retire before 1/01/2016</p> <p>< 2 years additional service credit:</p> <ul style="list-style-type: none"> * refunded member contributions plus interest; * no service credit; * same benefit previously paid to the member; and * GABA immediately in January. <p>At least 2 years additional service credit:</p> <ul style="list-style-type: none"> * recalculated retirement benefit based on provisions in effect at second retirement; and * GABA on the recalculated benefit in January after receipt of new benefit for 12 months. <p>Retire on or after 1/01/2016:</p> <p>< 5 years additional service credit</p> <ul style="list-style-type: none"> * refunded member contributions plus interest; * no service credit; * same benefit previously paid to the member; and * GABA immediately in January. <p>At least 5 years of additional service credit:</p> <ul style="list-style-type: none"> * same retirement benefit prior to the return; * second retirement benefit for post return to based on rehired date laws in effect; and * GABA starts on both benefits in January after receipt for 12 months.
JRS	N/A	N/A
MPORS	<ul style="list-style-type: none"> * 5 years membership service, age 50 	<p>MPORS Initial Second Retirement: Age 50, re-employed in a MPORS position.</p> <p>Return prior to 7/01/2017:</p> <ul style="list-style-type: none"> * < 20 years of membership service: <ul style="list-style-type: none"> • repay benefits; and • new benefit based on total service. * > 20 years of membership service: <ul style="list-style-type: none"> • receives initial benefit; and • new retirement benefit based on new service credit and FAC.

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System	Early Retirement Benefit	Second Retirement Benefit
HPORS	Actuarially reduced from age 60: * Pre-7/01/2013 - 5 years of membership service * 7/01/2013 - 10 years of membership service	Return on or after July 1, 2017: * > 480 hours in a calendar year and < 5 years service credit: <ul style="list-style-type: none"> • no service credit; • refunded member contributions; • same retirement benefit previously paid, and • GABA immediately in January. * > 480 hours in a calendar year and at least 5 years of service credit: <ul style="list-style-type: none"> • is awarded service credit for period of reemployment; • same retirement benefit previously paid; • a second retirement benefit for post return calculated based on rehired date laws in effect; • GABA starts on the initial benefit in January and second one 12 months later. * No eligibility for a disability benefit.
SRS	Actuarially reduced from age 60 or 20 years of membership service: * 5 years membership service, age 50	
GWPORS	* 5 years of membership service, age 55	
MPORS	* 5 years membership service, age 50	
FURS	* 5 years of membership service, age 50	
VFCA	N/A	N/A

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FINANCIAL SECTION

System	Post Retirement Benefit Increases		
	Guaranteed Annual Benefit Adjustment (GABA)	GABA Waiting Period	Minimum Benefit Adjustment
PERS-DBRP	<ul style="list-style-type: none"> • Pre-7/01/2007 - 3.0% • 7/01/2007 through 6/30/2013 - 1.5% • 7/01/2013 - <ul style="list-style-type: none"> (a) 1.5% for each year if PERS is funded at or above 90%; (b) 1.5% is reduced by 0.1% for each 2% PERS is funded below 90%; and, (c) 0% whenever the amortization period for PERS is 40 years or more. 	1 year	N/A
JRS	7/01/1997 or elected GABA - 3%	1 year	Pre-7/01/1997 and did not elect GABA: Benefits increase same as salary of sitting judge.
HPORS	7/01/1997 or elected GABA - 3.0% 7/01/2013 - 1.5%	Pre-7/01/2013 - 1 year 7/01/2013 - 3 years	Pre-7/01/1997 and did not elect GABA: 2% x service credits x base salary of probationary officer. Limited to 5.0% over current benefit and may not exceed 60% of base salary of probationary officer.
SRS	Pre-7/01/2007 - 3% 7/01/2007 - 1.5%	1 year	N/A
GWPORS	Pre-7/01/2007 - 3.0% 7/01/2007 - 1.5%	1 year	N/A
MPORS	7/01/1997 or elected GABA - 3.0%	1 year	Pre-7/01/1997 and did not elect GABA - 1/2 of monthly salary of new officer
FURS	7/01/1997 or elected GABA - 3.0%	1 year	Pre-7/01/1997 and did not elect GABA - 1/2 of monthly salary of new firefighter
VFCA	N/A	N/A	N/A

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FINANCIAL SECTION

System	Disability	Survivor
	Eligibility & Benefit Formula	Eligibility & Benefit Formula
PERS-DBRP	<p>* 5 years of membership service</p> <p>Pre-2/24/1991 and did not make a contrary election - Greater of:</p> <ul style="list-style-type: none"> • (90% of 1.785% of HAC) x service credit, or • 25% of HAC <p>2/24/1991 to 7/01/2011 -</p> <ul style="list-style-type: none"> • < 25 years membership service: 1.758% of HAC x service credit, or • At least 25 years membership service: 2% of HAC x service credit <p>7/01/2011 -</p> <ul style="list-style-type: none"> • < 10 years membership service: 1.5% of HAC x years of service credit • Between 10 and 30 years membership service: 1.785% of HAC x service credit • > 30 years membership service: 2% of HAC x service credit 	<p>Vested member's status at time of death:</p> <ul style="list-style-type: none"> • active; • receiving disability benefit for less than six months; • continuously disabled without receiving a disability benefit; or • inactive. <p>Hired prior to 7/01/2011 -</p> <p>Age 50 or 25 years membership service</p> <ul style="list-style-type: none"> • actuarial equivalent of accrued benefit at death; or, <p>< Age 50 and < 25 years membership service</p> <ul style="list-style-type: none"> • actuarial equivalent of the accrued early benefit paid at age 50. <p>Hired on or after 7/01/2011 -</p> <p>Age 55</p> <ul style="list-style-type: none"> • actuarial equivalent of accrued benefit at death; or <p>< Age 55</p> <ul style="list-style-type: none"> • actuarial equivalent of accrued early benefit paid at age 55.
PERS-DCRP Disability OPEB	<p>* Any age 5 years of membership service</p> <p>Hired prior to 7/1/2011, or hired prior to 2/24/1991 -</p> <ul style="list-style-type: none"> • < 25 years membership service: 1.785% of HAC x service credit, or • Least 25 years of membership service: 2% of HAC x service credit; and • Benefit payable to later of age 65 or for five years. <p>Hired on or after July 1, 2011 -</p> <ul style="list-style-type: none"> • Between 5 and 10 years membership service: 1.5% of HAC x years of service credit; • Between 10 and 30 years membership service: 1.785% of HAC x years service credit; • 30 or more years membership service: 2% of HAC x years of service credit; <ul style="list-style-type: none"> • Benefit payable to age 70 for disabilities occurring prior to age 65, or < five years for disabilities occurring after age 65. • No distributions from individual defined contribution account while being paid from the PERS-DCRP Disability OPEB. • Participants may choose to receive a distribution from their individual account instead of applying for and receiving a disability benefit. 	<p>Survivor's benefit: Disability benefits cease after death of a member, and their beneficiary is entitled to the member's vested defined contribution account balance.</p> <p>Form of payment:</p> <ul style="list-style-type: none"> • Normal form of payment is an annuity. • No other forms of payment are available

	Disability	Survivor
System	Eligibility & Benefit Formula	Eligibility & Benefit Formula
JRS	<p>Duty-related disability:</p> <ul style="list-style-type: none"> Any amount of membership service Greater of 50% of salary or 50% of HAC <p>Non-duty-related disability:</p> <ul style="list-style-type: none"> 5 years membership service Actuarial equivalent of normal retirement at disability 	<p>Duty-related death:</p> <ul style="list-style-type: none"> service retirement benefit on date of death. <p>Non-duty-related death:</p> <ul style="list-style-type: none"> vested member; refund of member's contributions, or actuarial equivalent of service retirement at death. <ul style="list-style-type: none"> Retired members without contingent annuitant, payment made to member's designated beneficiary = accumulated contributions reduced by any retirement benefits already paid.
HPORS	<p>Duty-related disability:</p> <ul style="list-style-type: none"> Any active member < 20 years membership service: 50% of HAC, or > 20 years membership service: 2.6% of HAC x years of service credit <p>Regular disability:</p> <ul style="list-style-type: none"> Any vested member Actuarial equivalent of service retirement benefit at age 60. 	<p>Duty-related deaths:</p> <ul style="list-style-type: none"> active member; 50% HAC to spouse or dependent child. <p>Non-duty-related death:</p> <ul style="list-style-type: none"> active or inactive member; actuarial equivalent of early retirement benefit to spouse or dependent child. <p>* Retired members without spouse or dependent child, payment made to member's designated beneficiary will be = accumulated contributions reduced by any retirement benefits already paid.</p>
HPORS DROP	N/A	<p>Death Before the End of DROP Period:</p> <ul style="list-style-type: none"> * DROP and regular benefit to spouse or dependent child. * If no surviving spouse or dependent children, member's designated beneficiary receives balance of member's retirement account and a lump-sum payment of the member's DROP Benefit.

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System	Disability	Survivor
	Eligibility & Benefit Formula	Eligibility & Benefit Formula
SRS	<p>Duty-related disability:</p> <ul style="list-style-type: none"> Any active member with any membership service < 20 years membership service: 50% of HAC, or > 20 years membership service: 2.5% of HAC x years of service credit <p>Non-duty-related disability:</p> <ul style="list-style-type: none"> Any vested member with 5 years membership service Actuarial equivalent of the normal retirement benefit at disability. 	<p>Duty-related death:</p> <ul style="list-style-type: none"> any active member lump-sum payment of member contributions; or benefit to the designated beneficiary that is greater of: <ul style="list-style-type: none"> 50% of HAC; or > 20 years = 2.5% x HAC x service credit <p>Non-duty-related death:</p> <ul style="list-style-type: none"> any member lump-sum refund of member contributions; or benefit = 2.5% of HAC x service credit; actuarially reduced from age 60 or 20 years membership service, whichever provides the greater benefit. Retired members without contingent annuitant, payment made to designated beneficiary = accumulated contributions reduced by any retirement benefits already paid.
GWPORS	<p>Duty-related disability:</p> <ul style="list-style-type: none"> Vested active member < 20 years of membership service 50% of HAC; or > 20 years of membership service: 2.5% of HAC x years of service credit <p>Regular disability:</p> <ul style="list-style-type: none"> vested member actuarial equivalent of normal retirement benefit disability. 	<p>Duty-related death:</p> <ul style="list-style-type: none"> * active member * benefit to designated beneficiary < 25 years membership service: 50% of HAC, or > 25 years membership service: 2.5% x HAC x service credit <p>Non-duty-related death:</p> <ul style="list-style-type: none"> any member lump-sum refund of member contributions; or actuarial equivalent of service benefit at death. Effective July 1, 2017, beneficiaries of GWPORS members who die prior to retirement are eligible for either a lump-sum benefit or a monthly survivor benefit. The monthly survivor benefit may be paid out as an option 1, 2, 3, or 4, at the survivor's discretion. Previously, statute provided for lump-sum payments only.

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System	Disability	Survivor
	Eligibility & Benefit Formula	Eligibility & Benefit Formula
MPORS	<ul style="list-style-type: none"> Any active member < 20 years of membership service: 50 % of FAC > 20 years of membership service: 2.5% of FAC x years of service credit 	<ul style="list-style-type: none"> Any active member; benefit to spouse of dependent child: <ul style="list-style-type: none"> < 20 years of membership service: 50 % of FAC > 20 years of membership service: 2.5% of member's FAC x years of service credit In absence of a spouse or child, accumulated contributions minus any benefits already paid will be paid to member's designated beneficiary.
MPORS DROP	<ul style="list-style-type: none"> If a member becomes disabled during DROP Period, member will not be eligible for MPORS disability benefits. 	<p>Death Before the End of DROP Period:</p> <ul style="list-style-type: none"> DROP and regular benefit to spouse or dependent child. In absence of surviving spouse or dependent children, then member's designated beneficiary receives balance of member's retirement account and a lump-sum payment of the member's DROP Benefit.
FURS	<ul style="list-style-type: none"> Any active member The greater of: <ul style="list-style-type: none"> 50% of HAC, or 2.5% of HAC x years of service credit 	<ul style="list-style-type: none"> Any active or inactive member; benefit to spouse or dependent child: <ul style="list-style-type: none"> < 20 years of membership service 50% of HAC. > 20 years of membership service retirement benefit at date of death.
VFCA	<p>Duty-related disability:</p> <ul style="list-style-type: none"> Any current member on a fire company's roster Monthly benefit greater of: <ul style="list-style-type: none"> \$87.50 per month, or (\$8.75 per month x years of credited service up to 20 years) + (\$7.50 per month x years of credit service from 21 years up to 30 years) Post 7/01/2011, actuarially sound, and 30 years or more: <ul style="list-style-type: none"> Additional \$7.50 per month per year 	<ul style="list-style-type: none"> 10 years credited service or a retired member Benefit to surviving spouse or dependent child for total of 40 months includes payments to retired member prior to death.

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FINANCIAL SECTION

GASB STATEMENT No. 67 REPORTING

The membership data, method and assumptions used in calculations of the actuarially determined contributions, and plan provisions are the same as were described in the June 30, 2019 Actuarial Valuation Report for all defined benefit plans.

Projections of the fiduciary net position have indicated that it is expected to be sufficient to make projected benefit payments for current plan members. Therefore, the discount rate used to measure the Total Pension Liability as of June 30, 2020 is 7.34% from 7.65% for all plans except HPORS (4.43%) and GWPORS (5.65%). The 7.34% is the assumed long-term expected rate of return on the PERB's investments.

Changes in the discount rate affect the measurement of the TPL. At June 30, 2020, the sensitivity of the NPL to the changes in discount rate in all defined benefit plans are as follows.

PERS-DBRP As of June 30, 2020	1% Decrease 6.34%	Discount Rate 7.34%	1% Increase 8.34%
Total Pension Liability	\$ 9,476,815,827	\$ 8,483,685,413	\$ 7,649,462,651
Fiduciary Net Position	5,845,474,024	5,845,474,024	5,845,474,024
Net Pension Liability	\$ 3,631,341,803	\$ 2,638,211,389	\$ 1,803,988,627
Fiduciary Net Position as a % of the TPL	61.68%	68.90%	76.42%

GWPORS As of June 30, 2020	1% Decrease 4.65%	Discount Rate 5.65%	1% Increase 6.65%
Total Pension Liability	\$ 407,258,420	\$ 348,070,173	\$ 300,580,126
Fiduciary Net Position	212,910,191	212,910,191	212,910,191
Net Pension Liability	\$ 194,348,229	\$ 135,159,982	\$ 87,669,935
Fiduciary Net Position as a % of the TPL	52.28 %	61.17 %	70.83 %

JRS As of June 30, 2020	1% Decrease 6.34%	Discount Rate 7.34%	1% Increase 8.34%
Total Pension Liability	\$ 76,332,639	\$ 69,521,114	\$ 63,652,756
Fiduciary Net Position	106,065,672	106,065,672	106,065,672
Net Pension Asset	\$ (29,733,033)	\$ (36,544,558)	\$ (42,412,916)
Fiduciary Net Position as a % of the TPL	138.95%	152.57%	166.63%

MPORS As of June 30, 2020	1% Decrease 6.34%	Discount Rate 7.34%	1% Increase 8.34%
Total Pension Liability	\$ 799,823,808	\$ 695,736,884	\$ 612,699,315
Fiduciary Net Position	451,150,482	451,150,482	451,150,482
Net Pension Liability	\$ 348,673,326	\$ 244,586,402	\$ 161,548,833
Fiduciary Net Position as a % of the TPL	56.41%	64.84%	73.63%

HPORS As of June 30, 2020	1% Decrease 3.43%	Discount Rate 4.43%	1% Increase 5.43%
Total Pension Liability	\$ 458,923,163	\$ 385,799,083	\$ 329,786,976
Fiduciary Net Position	151,967,709	151,967,709	151,967,709
Net Pension Liability	\$ 306,955,454	\$ 233,831,374	\$ 177,819,267
Fiduciary Net Position as a % of the TPL	33.11%	39.39%	46.08%

FURS As of June 30, 2020	1% Decrease 6.34%	Discount Rate 7.34%	1% Increase 8.34%
Total Pension Liability	\$ 731,013,134	\$ 634,414,092	\$ 556,796,178
Fiduciary Net Position	477,936,941	477,936,941	477,936,941
Net Pension Liability	\$ 253,076,193	\$ 156,477,151	\$ 78,859,237
Fiduciary Net Position as a % of the TPL	65.38%	75.34%	85.84%

SRS As of June 30, 2020	1% Decrease 6.34%	Discount Rate 7.34%	1% Increase 8.34%
Total Pension Liability	\$ 578,166,300	\$ 506,180,744	\$ 447,296,153
Fiduciary Net Position	384,294,754	384,294,754	384,294,754
Net Pension Liability	\$ 193,871,546	\$ 121,885,990	\$ 63,001,399
Fiduciary Net Position as a % of the TPL	66.47%	75.92%	85.92 %

VFCA At June 30, 2020	1% Decrease 6.34%	Discount Rate 7.34%	1% Increase 8.34%
Total Pension Liability	\$ 53,870,586	\$ 49,014,265	\$ 44,910,454
Fiduciary Net Position	39,908,236	39,908,236	39,908,236
Net Pension Liability	\$ 13,962,350	\$ 9,106,029	\$ 5,002,218
Fiduciary Net Position as a % of the TPL	74.08 %	81.42 %	88.86 %

During the measurement year there were changes to the actuarial assumptions for all plans.

- The discount rate was lowered from 7.65% to 7.34% for PERS, JRS, SRS, MPORS, FURS and VFCA. The discount rate was lowered from 7.65% to 4.43% for HPORS and 5.65% for GWPORS.
- The investment rate of return was lowered from 7.65% to 7.34%.
- The inflation rate was reduced from 2.75% to 2.40%.

ACTUARIAL STATUS OF THE PLANS

The Montana Constitution, Article VIII, Section 15, states that public retirement systems shall be funded on an actuarially sound basis. To maintain a fund on an actuarially sound basis, the statutory funding rate is tested in the valuation to determine if it is sufficient to cover the Normal Cost Rate plus an amortization payment of the Unfunded Actuarial Liability, if any, over no more than 30 years. As of June 30, 2020 and June 30, 2019:

Fiscal Year	Amortization in years		Funded Ratio	
	2020	2019	2020	2019
PERS-DBRP	35	36	74.08 %	74.19 %
JRS	0	0	162.86 %	161.23 %
HPORS	39	42	64.52 %	64.55 %
SRS	21	21	81.24 %	81.56 %
GWPORS	40	53	83.83 %	84.24 %
MPORS	16	18	70.76 %	69.23 %
FURS	8	9	81.53 %	79.97 %
VFCA	4	5	87.15 %	84.76 %

- As of June 30, 2020, the statutory contribution rates for the **PERS-DBRP**, **HPORS**, and **GWPORS** are not sufficient to amortize the unfunded actuarial liability within 30 years.
- As of June 30, 2020, the **JRS** amortizes in 0 years, meaning it is fully funded.
- As of June 30, 2020, the most recent actuarial valuation, the statutory contribution rates are sufficient to amortize the unfunded actuarial liability for the **DCRP Disability OPEB**. The **DCRP Disability OPEB** assets gained 3.86% on an annualized market value basis during the year ended June 30, 2020. This return was above the assumed rate of return of 3.50%, resulting in an investment gain of about \$19,476. The actuarial value of assets is set equal to the market value of assets. The **DCRP Disability OPEB** unfunded actuarial liability was a gain of \$0.55 million and the funded ratio was 110.59%. Compared to the June 30, 2019 actuarial valuation, the Plan's unfunded actuarial liability was a gain of \$0.24 million, and the funded ratio was 104.93%.
- The actuarial contribution increased to \$913,824 at the June 30, 2020 **VFCA** valuation from \$899,555 at the June 30, 2019 valuation. The actuarial contribution is determined as the normal cost, administrative expense, and a 20-year open amortization of the unfunded actuarial liability.

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DEFINED CONTRIBUTION RETIREMENT PLANS

PLAN DESCRIPTIONS

Public Employees' Retirement System-DCRP (PERS-DCRP)

The PERS-Defined Contribution Retirement Plan (DCRP) is a multiple-employer plan established July 1, 2002 and governed by Title 19, chapters 2 & 3, MCA. This plan is available to eligible employees of the State, Montana University System, local governments, and school districts. All new PERS members are initially members of the PERS-DBRP and have a 12-month window during which they may choose to transfer to the PERS-DCRP or remain in the PERS-DBRP by filing an irrevocable election. If an election is not filed, the member remains in the PERS-DBRP. Members may not be members of both the defined contribution and defined benefit retirement plans. The PERS-DCRP provides retirement, disability, and death benefits to plan members and their beneficiaries.

DCRP Education Fund: The DCRP Education Fund (DCEd), as governed by section 19-3-112, MCA, was established to provide funding for the required education programs for members who have joined the PERS-DCRP. The DCEd was funded by 0.04% of the employers' contributions in fiscal year 2020.

DCRP Disability Fund: The DCRP Disability Fund (DC Disability), as governed by section 19-3-2141, MCA, provides disability benefits to eligible members who elect the PERS-DCRP. The DCRP Disability Fund received 0.3% of the employers' contribution in fiscal year 2020. The DC Disability OPEB is reported on the financial statements under the column heading *PERS-DCRP Disability OPEB*.

Plan Membership Elections: The financial statements reflect employer and employee contribution transfers of DCRP participants that filed elections at or near the June 30 cutoff date. The contributions will not be moved until early fiscal year 2021. At fiscal year end June 30, 2020, there were ongoing transfers of \$157.5 thousand.

Deferred Compensation Plan (457(b))

The Deferred Compensation (457(b)) Plan is a voluntary supplemental retirement savings plan established in 1974. The Deferred Compensation Plan is governed by Title 19, chapter 50, MCA, in accordance with Internal Revenue Code (IRC) §457. This plan is available to all employees of the State, Montana University System, and contracting political subdivisions.

Assets of the Deferred Compensation Plan are required to be held in trusts, custodial accounts or insurance company contracts for the exclusive benefit of participants and their beneficiaries. Empower™ Retirement is the recordkeeper for the plan. Participants elect to defer a portion of their salary, within IRC limits, into the Plan. Distribution of deferred salary is not allowed to employees until separation from service, retirement, or death. Unforeseen hardship distributions may be allowed while a participant is still employed, provided IRS-specified criteria are met.

MEMBERSHIP AND EMPLOYERS

Plan Membership as of Fiscal Year End June 30, 2020		
Type of Plan for Reporting Purposes as of Fiscal Year End June 30, 2020	Multi-Employer Defined Contribution	
Plan Designation	PERS-DCRP	Deferred Compensation (457)
Classification of Member		
Active	3,100	5,601
Inactive: entitled to, but not yet receiving benefits or a refund:		
Vested	639	4,293
Non-Vested	790	
Inactive members and beneficiaries currently receiving benefits:		
Service Retirements	106	
Disability Retirements	9	
Survivor benefits	1	
Total Membership	4,645	9,894

Participating Defined Contribution Employers				
Employer Type	PERS-DCRP		Deferred Compensation (457)	
As of Fiscal Year End June 30,	2020	2019	2020	2019
State Agencies*	32	31	1	1
Counties	53	51	7	6
Cities and Towns	60	57	19	14
Colleges and Universities	5	5	5	5
School Districts	125	122	15	15
High Schools	4	5		
Other Agencies	50	49	14	13
Total	329	320	61	54

* The State Agencies count as one employer for the 457 plan. The State of Montana includes 33 agencies; however, due to the nature of the reporting for the 457 plan we are unable to specifically determine which agencies have participating employees.

PERS-DCRP Active Membership by Employer Type		
Employer Type	June 30, 2020	June 30, 2019
State Agencies	1,526	1,397
Counties	479	439
Cities	354	334
Universities	152	156
High Schools	5	5
School Districts	363	332
Other Agencies	221	208
Total	3,100	2,871

CONTRIBUTIONS

Public Employees' Retirement System-DCRP (PERS-DCRP)

Assets of the PERS-DCRP are required to be held in trusts, custodial accounts or insurance company contracts for the exclusive benefit of participants and their beneficiaries. Empower™ Retirement is the recordkeeper for the plan.

Member and employer contribution rates are established by state law and may be amended only by the Legislature. (Reference Schedule of Contribution Rates on page 71).

Member contributions are deducted from each member's salary and remitted by participating employers. The entire amount of the member's contribution is credited to the individual account and maintained by the recordkeeper.

The 7.9% member contributions will be decreased to 6.9% on January 1 following actuary valuation results for the PERS-DBRP that show the amortization period has dropped below 25 years and would remain below 25 years following the reduction of both the additional employer and additional member contribution rates. There is no reduction to the member contributions on January 1, 2021.

The total **employer contribution** rate of 8.77% is allocated as follows: 8.43% to the member's retirement account, 0.04% to the defined contribution education fund, 0.3% to the long term disability plan.

Employer contributions temporarily increased 1.0%, effective July 1, 2013. Further, employer contributions increase an additional 0.1% a year over 10 years beginning July 1, 2014, through 2024. The employer additional contributions, including the 0.27% added in 2007 and 2009, terminate on January 1 following actuary valuation results that show the amortization period of the PERS-DBRP has dropped below 25 years and would remain below 25 years following the reduction of both the additional employer and member contribution rates. Based on the June 30, 2020 actuarial valuation, the additional contributions will not be terminated on January 1, 2021.

Deferred Compensation (457(b)) Plan

The **Deferred Compensation (457(b)) Plan** is a voluntary retirement plan designed to supplement retirement savings. Participants designate the amount to contribute within IRC limitations; either pre-tax deferral or designated Roth contribution. Most employers do not contribute to this plan on behalf of their employees.

DEFINED CONTRIBUTION AND DEFERRED COMPENSATION

SUMMARY OF BENEFITS

	PERS-DCRP	Deferred Compensation
Eligibility for benefit	<ul style="list-style-type: none"> Termination of Service 	<ul style="list-style-type: none"> Not available to participant until separation from service, retirement, or death. Unforeseen hardship distributions may be allowed while a participant is still employed, provided IRS-specified criteria are met.
Vesting	<ul style="list-style-type: none"> Immediate for participant's contributions and attributable income; 5 years of membership service for the employer's contributions to individual accounts and attributable income. 	<ul style="list-style-type: none"> Participant's are fully vested in their accounts immediately.
Benefit	<ul style="list-style-type: none"> Depends upon eligibility and individual account balance; Various payout options are available, including: <ul style="list-style-type: none"> taxable lump sums, periodic payments per participant direction; and IRS-permitted rollovers. 	<ul style="list-style-type: none"> Lump sum or periodic benefit payment, at the option of the participant. Based on individual account balances and plan provisions. IRS permitted rollovers are also possible.

INVESTMENTS

Among the offered investment options, the participants of the:

- PERS-DCRP** direct their contributions and their portion of employer's contributions.
- Deferred Compensation Plan** direct their deferred salary.

Participants may invest in any or all of the offered options and transfer between options on a daily basis, if desired. The investment options offered are selected by the PERB in compliance with the **PERS-DCRP** or **Deferred Compensation** Investment Policy Statements, the advice of an independent investment consultant, and assistance from the statutorily-created Employee Investment Advisory Council.

The offered investment options fall into two primary types: (1) the variable investment options and (2) the fixed investment option.

Variable investments: The variable investment options include a variety of Large, Mid and Small Cap mutual funds, as well as a fixed income bond fund and Target Date Retirement Funds. Options range from conservative to aggressive. The mutual funds cover all standard asset classes and categories.

FINANCIAL SECTION

PERS-DCRP Investment Options as of June 30, 2020	Deferred Compensation (457) Plan Investment Options as of June 30, 2020
International Stock Funds <ul style="list-style-type: none"> American Funds New Perspective R6 Oakmark International I Vanguard Total International Stock Index Adm Oppenheimer Developing Markets Y 	International Stock Funds <ul style="list-style-type: none"> Vanguard Total Intl Stock Index - Adm Artisan International Inv Franklin Mutual Global Discovery Z Dodge & Cox International Stock American Funds New Perspective R6 Oppenheimer Developing Markets Y
Small Company Stock Funds <ul style="list-style-type: none"> Vanguard Small Cap Growth Index Instl Vanguard Small Cap Index Signal Instl PGIM QMA Small-Cap Value Z 	Small Company Stock Funds <ul style="list-style-type: none"> Vanguard Small Cap Growth Index Instl Vanguard Small Cap Index Instl Neuberger Berman Genesis-Trust
Mid-Sized Company Stock Funds <ul style="list-style-type: none"> Janus Henderson Enterprise - N MFS Mid-Cap Value R6 Vanguard Mid-Cap Index - Adm 	Mid Cap Company Stock Funds <ul style="list-style-type: none"> Janus Henderson Enterprise - N MFS Mid Cap Value R6 Vanguard Mid Cap Index Adm
Large Company Stock Funds <ul style="list-style-type: none"> Alger Capital Appreciation Z Black Rock Equity Index - Collective F Vanguard Equity Income - Adm JP Morgan US Equity R5 	Large Cap Stock Funds <ul style="list-style-type: none"> Vanguard Equity Income Adm Fidelity Contrafund Vanguard Institutional Index I Parnassus Core Equity Inst
Balanced Funds <ul style="list-style-type: none"> Vanguard Balanced Index - I 	Balanced Funds <ul style="list-style-type: none"> Vanguard Balanced Index I
Bond Funds <ul style="list-style-type: none"> PGIM Total Return Bond R6 Neuberger Berman High Income Bond - I Vanguard Total Bond Market Index - Adm 	Bond Funds <ul style="list-style-type: none"> Vanguard Total Bond Market Index - Adm Neuberger Berman High Income Bond Inv PGIM Total Return Bond R6
Target Date Funds <ul style="list-style-type: none"> T. Rowe Price Retirement - Balanced and 2005 through 2060 	Target Date Funds <ul style="list-style-type: none"> T. Rowe Price Retirement - Balanced and 2005 through 2060
Fixed Investment Options <ul style="list-style-type: none"> Montana Fixed Fund 	Fixed Investment Options <ul style="list-style-type: none"> Montana Fixed Fund

In addition to the investments listed, **Deferred Compensation** plan participants previously had the option to direct a portion of their deferrals to a term life insurance policy provided through Allianz Life Insurance. The ability to invest in life insurance is allowed under the IRC and was offered to plan participants prior to life insurance being offered as a standard component of health insurance benefit packages. This investment option has been discontinued; however, plan participants who had previously elected this option may continue.

Fixed Investment: Montana Fixed Fund. The Montana Fixed Fund is a stable value investment option, administered and managed by outside vendors:

- Pacific Investment Management Company LLC (PIMCO), Stable Value Manager;
- State Street Bank and Trust Company (State Street), Custodial Bank; and
- Third-party synthetic Guaranteed Interest Contract (GIC) providers
 - Transamerica Premier Life Insurance Company (Transamerica),
 - The Prudential Insurance Company of America (Prudential), and
 - Voya Retirement Insurance and Annuity Company (Voya).

When participants invest in the Montana Fixed Fund option, they are guaranteed a fixed rate of return, which is adjusted in accordance with the terms of the respective GIC provider contracts. The Montana Fixed Fund employs a synthetic stable value strategy where the stable value manager, PIMCO, manages a diversified bond portfolio and third party insurers, Transamerica, Prudential, and Voya, guarantee the participants' principal investments and earnings in accordance with the respective contracts with the GIC providers. The third party insurers set a fixed quarterly rate of return based on the stable value manager's portfolio yield, duration, market value and the contracts provide assurance that future credited income will not be below zero.

All money invested in the Montana Fixed Fund from the **PERS-DCRP** and **Deferred Compensation Plan** are held in a Pooled Trust. The Pooled Trust qualifies as a group trust under sections 401(a), including section 401(a)(24) and 501(a), of the IRC of 1986, as amended. The Pooled Trust assets are invested by PIMCO and are held under a custodial agreement with State Street. The Pooled Trust assets are invested by PIMCO based on an investment guideline schedule described in the Montana Fixed Fund investment policy established by the PERB. Additional investment constraints are contained in the investment management agreement between PIMCO and the PERB, and in the respective contracts issued by the Pooled Trust by each GIC provider.

Administrative expenses and revenues: Expenses for the **PERS-DCRP** and **Deferred Compensation Plan** can generally be classified as 1) administrative, including miscellaneous or 2) investment management. Following is a summary of revenues and expenses.

Administrative funding: The PERB charges **PERS-DCRP** and **Deferred Compensation** participants an administrative fee on participants' account balances to fund each plans expenses. On a quarterly basis, the recordkeeper withholds the fee from each plan participant's account. Empower™ Retirement withholds a portion of the fee collected from the participant to pay their recordkeeping fee and submits the remainder to the PERB. The PERB records this as *Miscellaneous Revenue* for each plan in the financial statements.

Recordkeeping fees: The recordkeeper, Empower™ Retirement, charges a set fee to the PERB for all **PERS-DCRP** and **Deferred Compensation** plan participants. These amounts are recorded as *Miscellaneous Expense* in the financial statements.

Montana Fixed Fund fees: The Montana Fixed Fund's crediting rate is declared net of expenses. Fees on the fund are charged by each of the five providers, PIMCO, State Street, Transamerica, Prudential, and Voya. The fees are defined under each contract for specific services. The fees charged by PIMCO and State Street for the externally managed fixed investments are classified as *Investment Expense*. The fees charged by Transamerica, Prudential and Voya are classified as *Miscellaneous Expense*.

Mutual funds/variable investments fees: The variable investments have investment management fees and some may have additional administrative fees. These fees are not presented in the financial statements. Mutual fund earnings are declared net of expenses, both investment management and administrative expenses, in accordance with the Securities and Exchange

FINANCIAL SECTION

Commission and other regulatory authorities. Current reporting standards for mutual fund companies do not require costs be made available in the detailed cost reports.

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FINANCIAL SECTION

Public Employees' Retirement Board

A Component Unit of the State of Montana

Required Supplementary Information

Schedule of Changes in Multiple-Employer Plans Net Pension Liability / (Asset)

as of June 30, 2020

Last 10 Fiscal Years¹

Fiscal Year	2020	2019	2018
PERS-DBRP			
Total pension liability			
Service cost (Beginning of year)	\$ 123,083,106	\$ 123,618,712	\$ 132,567,233
Interest (includes interest on service cost)	593,858,382	585,204,569	552,036,737
Changes of benefit terms			
Differences between expected and actual experience	(39,377,503)	(147,536,263)	170,344,495
Changes of assumptions ⁸	274,029,096		
Benefit payments ²	(449,601,997)	(422,444,896)	(395,338,673)
Refunds of Contributions ³	(11,922,673)	(12,360,997)	(12,619,498)
Net change in total pension liability	\$ 490,068,411	\$ 126,481,125	\$ 446,990,294
Total pension liability-beginning	7,993,617,002	7,867,135,877	7,420,145,583
Total pension liability-ending (a)	\$ 8,483,685,413	\$ 7,993,617,002	\$ 7,867,135,877
Plan fiduciary net position			
Contributions - employer ^{4, 9}	\$ 111,991,380	\$ 107,257,974	\$ 106,650,985
Contributions - non-employer	35,008,859	34,641,994	34,659,174
Contributions - member ⁵	105,009,017	101,713,235	102,075,271
Net investment income ⁶	157,977,027	320,879,899	478,690,356
Benefit payments ²	(449,601,997)	(422,444,896)	(395,338,673)
Administrative expense	(4,059,627)	(3,806,945)	(4,168,771)
Refunds of Contributions ³	(11,922,673)	(12,360,997)	(12,619,498)
Other ⁷	(2,234,266)	(2,567,968)	(2,474,018)
Net change in plan fiduciary net position	\$ (57,832,280)	\$ 123,312,296	\$ 307,474,826
Plan fiduciary net position - beginning	5,903,306,304	5,779,994,008	5,472,519,182
Beginning of Year Adjustment			
Plan fiduciary net position - ending (b) ^{6, 9}	\$ 5,845,474,024	\$ 5,903,306,304	\$ 5,779,994,008
Net pension liability / (asset) - ending (a-b)	\$ 2,638,211,389	\$ 2,090,310,698	\$ 2,087,141,869
SRS			
Total pension liability			
Service cost (Beginning of year)	\$ 12,507,758	\$ 12,249,276	\$ 11,484,473
Interest (includes interest on service cost)	34,355,938	32,403,605	30,388,560
Changes of benefit terms			
Differences between expected and actual experience	2,236,018	2,866,788	4,714,268
Changes of assumptions ⁸	19,507,195		
Benefit payments ²	(21,481,264)	(19,512,312)	(18,052,544)
Refunds of Contributions ³	(1,565,536)	(1,438,814)	(1,490,014)
Net change in total pension liability	\$ 45,560,109	\$ 26,568,543	\$ 27,044,743
Total pension liability-beginning	460,620,635	434,052,092	407,007,349
Total pension liability-ending (a)	\$ 506,180,744	\$ 460,620,635	\$ 434,052,092
Plan fiduciary net position			
Contributions - employer ⁴	\$ 11,175,181	\$ 10,572,559	\$ 10,366,141
Contributions - non-employer			
Contributions - member ⁵	9,114,615	8,615,935	8,469,282
Net investment income ⁶	10,181,906	20,396,435	29,157,838
Benefit payments ²	(21,481,264)	(19,512,312)	(18,052,544)
Administrative expense	(294,988)	(246,523)	(432,091)
Refunds of Contributions ³	(1,565,536)	(1,438,814)	(1,490,014)
Other ⁷	(58,008)	(44,792)	(48,421)
Net change in plan fiduciary net position	\$ 7,071,906	\$ 18,342,488	\$ 27,970,191
Plan fiduciary net position - beginning	377,222,848	358,880,360	330,910,169
Plan fiduciary net position - ending (b) ⁶	\$ 384,294,754	\$ 377,222,848	\$ 358,880,360
Net pension liability / (asset) - ending (a-b)	\$ 121,885,990	\$ 83,397,787	\$ 75,171,732

¹ This Schedule is intended to show information for 10 years. Additional years will be displayed as they become available.

² For fiscal year 2016 forward, Benefit Payments are only benefit payments. In fiscal years 2014 and 2015 the benefit payments include refunds of contribution and transfers.

³ For fiscal year 2016 forward, the Refunds of Contributions includes Refunds and Distributions, Refunds to other plans and Transfers.

⁴ The Contributions - employer consists of the Employer, Membership Fees, Reduction in Force Program, and Miscellaneous Revenue.

⁵ The Contributions - member consists of the Plan Member and Interest Reserve Buyback.

⁶ The fiscal year 2017 Net Investment Income and Plan Fiduciary Net Position - ending are different in this schedule from what is presented in the financial statements due to late entries from Board of Investments.

⁷ Other consists of the expense for Other Post Employment Benefits (OPEB). For PERS it also includes Refunds to other plans, and Transfers to DCRP and MUS-RP.

⁸ The Changes of assumptions for PERS and SRS at June 30, 2020 is the change in the discount rate from 7.65% to 7.34%. The Changes of assumption for SRS at June 30, 2015 and at June 30, 2016 is the adjustment in the discount rate from 7.75% to 6.68% and to 5.93%, respectively.

⁹ The PERS-DBRP amounts will not tie to the financial statements due to the exclusion of the PERS-DB Education (DB Ed) amount on this schedule and adjustments for OPEB made after fiscal year end close.

2017	2016	2015	2014
\$ 144,475,909	\$ 132,620,813	\$ 138,049,956	\$ 137,452,701
507,380,846	486,830,869	476,777,225	456,406,491
55,782,342	12,254,313	(11,276,266)	
354,960,213			
(366,354,719)	(344,103,875)	(333,401,463)	(307,741,308)
(12,252,007)	(10,379,388)		
\$ 683,992,584	\$ 277,222,732	\$ 270,149,452	\$ 286,117,884
6,736,152,999	6,458,930,267	6,188,780,815	5,902,662,931
\$ 7,420,145,583	\$ 6,736,152,999	\$ 6,458,930,267	\$ 6,188,780,815
\$ 103,537,059	\$ 102,327,838	\$ 100,175,856	\$ 95,820,397
28,757,463	30,800,371	34,466,719	34,561,721
100,768,139	97,342,719	95,424,031	92,160,048
591,434,954	101,199,856	225,106,692	732,253,062
(366,354,719)	(344,103,875)	(333,401,463)	(307,741,308)
(4,472,084)	(3,858,330)	(3,483,531)	(3,522,346)
(12,252,007)	(10,379,388)		
(1,706,733)	(1,580,302)		
\$ 439,712,072	\$ (28,251,111)	\$ 118,288,304	\$ 643,531,574
5,032,807,110	5,061,058,221	4,942,769,917	4,299,238,343
\$ 5,472,519,182	\$ 5,032,807,110	\$ 5,061,058,221	\$ 4,942,769,917
\$ 1,947,626,401	\$ 1,703,345,889	\$ 1,397,872,046	\$ 1,246,010,898
\$ 19,186,527	\$ 18,802,901	\$ 12,574,185	\$ 15,117,708
27,621,242	22,900,429	25,664,435	23,976,049
(1,494,604)			
(170,781)	749,213	(194,994)	
(94,881,687)	56,788,521	43,058,238	(49,542,278)
(16,700,117)	(15,476,437)	(15,280,070)	(13,943,335)
(1,383,061)	(1,028,890)		
\$ (67,822,481)	\$ 82,735,737	\$ 65,821,794	\$ (24,391,856)
474,829,830	392,094,093	326,272,299	350,664,155
\$ 407,007,349	\$ 474,829,830	\$ 392,094,093	\$ 326,272,299
\$ 7,562,105	\$ 7,316,674	\$ 6,902,448	\$ 6,689,311
7,188,857	6,982,217	6,623,175	6,447,179
35,511,246	6,063,591	13,041,786	41,789,437
(16,700,117)	(15,476,437)	(15,280,070)	(13,943,335)
(387,378)	(322,584)	(247,405)	(203,493)
(1,383,061)	(1,028,890)		
(33,489)	(77,778)		
\$ 31,758,163	\$ 3,456,793	\$ 11,039,934	\$ 40,779,099
299,152,006	295,695,213	284,655,279	243,876,180
\$ 330,910,169	\$ 299,152,006	\$ 295,695,213	\$ 284,655,279
\$ 76,097,180	\$ 175,677,824	\$ 96,398,880	\$ 41,617,020

FINANCIAL SECTION

Public Employees' Retirement Board

A Component Unit of the State of Montana

Required Supplementary Information

Schedule of Changes in Multiple-Employer Plans Net Pension Liability / (Asset)

as of June 30, 2020

Last 10 Fiscal Years¹

Fiscal Year	2020	2019	2018
GWPORS			
Total pension liability			
Service cost (Beginning of year)	8,029,455	\$ 8,004,271	\$ 8,097,630
Interest (includes interest on service cost)	18,535,089	17,617,514	16,018,113
Changes of benefit terms			
Differences between expected and actual experience	(2,026,639)	(4,728,366)	4,780,923
Changes of assumptions ⁸	85,967,147		
Benefit payments ²	(8,247,117)	(7,349,795)	(6,522,921)
Refunds of Contributions ³	(1,200,125)	(1,000,919)	(1,105,281)
Net change in total pension liability	\$ 101,057,810	\$ 12,542,705	\$ 21,268,464
Total pension liability / (asset) - beginning	247,012,363	234,469,658	213,201,194
Total pension liability / (asset) - ending (a)	\$ 348,070,173	\$ 247,012,363	\$ 234,469,658
Plan fiduciary net position			
Contributions - employer ⁴	\$ 4,868,538	\$ 4,686,260	\$ 4,613,066
Contributions - non-employer			
Contributions - member ⁵	5,803,119	5,565,627	5,512,148
Net investment income ⁶	5,583,071	11,124,693	15,573,117
Benefit payments ²	(8,247,117)	(7,349,795)	(6,522,921)
Administrative expense	(240,254)	(202,040)	(369,184)
Refunds of Contributions ³	(1,200,125)	(1,000,919)	(1,105,281)
Other ⁷	(4,006)	611	(19,293)
Net change in plan fiduciary net position	\$ 6,563,226	\$ 12,824,437	\$ 17,681,652
Plan fiduciary net position - beginning	206,346,965	193,522,528	175,840,876
Plan fiduciary net position - ending (b)	\$ 212,910,191	\$ 206,346,965	\$ 193,522,528
Net pension liability / (asset) - ending (a-b)	\$ 135,159,982	\$ 40,665,398	\$ 40,947,130
MPORS			
Total pension liability			
Service cost (Beginning of year)	\$ 12,709,957	\$ 12,020,270	\$ 12,248,910
Interest (includes interest on service cost)	47,714,970	43,960,204	41,949,138
Changes of benefit terms			
Differences between expected and actual experience	(1,029,413)	23,127,175	640,064
Changes of assumptions ⁸	27,713,282		
Benefit payments ²	(27,866,365)	(26,220,684)	(24,566,646)
Refunds of Contributions ³	(2,327,658)	(3,636,764)	(2,675,247)
Net change in total pension liability	\$ 56,914,773	\$ 49,250,201	\$ 27,596,219
Total pension liability / (asset) - beginning	638,822,111	589,571,910	561,975,691
Total pension liability / (asset) - ending (a)	\$ 695,736,884	\$ 638,822,111	\$ 589,571,910
Plan fiduciary net position			
Contributions - employer ⁴	\$ 8,272,676	\$ 7,853,234	\$ 7,757,950
Contributions - non-employer	16,685,125	15,990,599	15,840,158
Contributions - member ⁵	5,214,262	5,037,799	5,046,352
Net investment income ⁶	11,657,780	22,635,730	33,237,702
Benefit payments ²	(27,866,365)	(26,220,684)	(24,566,646)
Administrative expense	(240,967)	(189,981)	(350,328)
Refunds of Contributions ³	(2,327,658)	(3,636,764)	(2,675,247)
Other ⁷	(22,301)	(6,299)	(37,861)
Net change in plan fiduciary net position	\$ 11,372,552	\$ 21,463,634	\$ 34,252,080
Plan fiduciary net position - beginning	439,777,930	418,314,296	384,062,216
Plan fiduciary net position - ending (b) ⁶	\$ 451,150,482	\$ 439,777,930	\$ 418,314,296
Net pension liability / (asset) - ending (a-b)	\$ 244,586,402	\$ 199,044,181	\$ 171,257,614

¹ This Schedule is intended to show information for 10 years. Additional years will be displayed as they become available.

² For fiscal year 2016, Benefit Payments are only benefit payments. In fiscal years 2014 and 2015, the benefit payments include refunds of contributions and transfers.

³ For fiscal year 2016, the Refunds of Contributions includes Refunds and Distributions, Refunds to other plans and transfers.

⁴ The Contributions - employer consists of the Employer, Membership Fees, Reduction in Force Program, and Miscellaneous Revenue.

⁵ The Contributions - member consists of the Plan Member and Interest Reserve Buyback.

⁶ The fiscal year 2017 Net Investment Income and Plan Fiduciary Net Position - ending are different in this schedule from what is presented in the FY17 financial statements due to late entries from Board of Investments.

⁷ Other consists of the expense for Other Post Employment Benefits (OPEB).

⁸ The Changes of assumptions for GWPORS at June 30, 2020 is the adjustment in the discount rate from 7.65% to 5.65%. The Changes of assumptions for MPORS at June 30, 2020 is the change in the discount rate from 7.65% to 7.34%.

2017	2016	2015	2014
\$ 8,624,297	\$ 8,403,076	\$ 8,008,155	\$ 7,849,828
14,268,596	12,910,129	12,398,209	11,258,354
3,742,704	2,705,238	730,818	
5,877,594			
(5,809,910)	(5,068,318)	(5,351,847)	(5,229,489)
(1,035,917)	(1,065,541)		
\$ 25,667,364	\$ 17,884,584	\$ 15,785,335	\$ 13,878,693
187,533,830	169,649,246	153,863,911	139,985,218
\$ 213,201,194	\$ 187,533,830	\$ 169,649,246	\$ 153,863,911
\$ 4,463,631	\$ 4,278,385	\$ 4,088,117	\$ 3,762,217
5,278,141	5,035,648	4,924,265	4,461,889
18,589,670	3,166,704	6,434,871	20,069,398
(5,809,910)	(5,068,318)	(5,351,847)	(5,229,489)
(328,699)	(269,496)	(200,745)	(161,663)
(1,035,917)	(1,065,541)		
(549)	(30,640)		
\$ 21,156,367	\$ 6,046,742	\$ 9,894,661	\$ 22,902,352
154,684,509	148,637,767	138,743,106	115,840,754
\$ 175,840,876	\$ 154,684,509	\$ 148,637,767	\$ 138,743,106
\$ 37,360,318	\$ 32,849,321	\$ 21,011,479	\$ 15,120,805
\$ 12,267,430	\$ 12,022,841	\$ 12,083,166	\$ 11,794,994
39,632,065	37,887,975	36,830,426	35,011,854
(5,057,920)	(3,546,948)	(2,014,310)	
16,011,685			
(23,474,602)	(21,960,690)	(22,743,995)	(20,527,874)
(1,043,487)	(1,240,208)		
\$ 38,335,171	\$ 23,162,970	\$ 24,155,287	\$ 26,278,974
523,640,520	500,477,550	476,322,263	450,043,289
\$ 561,975,691	\$ 523,640,520	\$ 500,477,550	\$ 476,322,263
\$ 7,091,246	\$ 6,927,587	\$ 6,629,915	\$ 6,459,488
13,960,572	13,751,561	13,432,838	13,048,938
4,465,630	4,384,573	4,291,826	4,133,021
39,775,778	7,112,851	14,471,898	45,230,427
(23,474,602)	(21,960,690)	(22,743,995)	(20,527,874)
(339,344)	(273,951)	(212,017)	(166,807)
(1,043,487)	(1,240,208)		
(491)	(131,634)		
\$ 40,435,302	\$ 8,570,089	\$ 15,870,465	\$ 48,177,193
343,626,914	335,056,825	319,186,360	271,009,167
\$ 384,062,216	\$ 343,626,914	\$ 335,056,825	\$ 319,186,360
\$ 177,913,475	\$ 180,013,606	\$ 165,420,725	\$ 157,135,903

FINANCIAL SECTION

Public Employees' Retirement Board

A Component Unit of the State of Montana

Required Supplementary Information

Schedule of Changes in Multiple-Employer Plans Net Pension Liability / (Asset)

as of June 30, 2020

Last 10 Fiscal Years¹

Fiscal Year	2020	2019	2018
FURS			
Total pension liability			
Service cost (Beginning of year)	\$ 13,086,953	\$ 12,421,310	\$ 11,819,193
Interest (includes interest on service cost)	43,027,646	41,022,969	37,983,963
Changes of benefit terms			
Differences between expected and actual experience	3,445,064	(931,198)	14,798,655
Changes of assumptions ⁸	25,851,699		
Benefit payments ²	(26,838,506)	(25,626,191)	(23,863,193)
Refunds of Contributions ³	(61,799)	(89,824)	(173,278)
Net change in total pension liability	\$ 58,511,057	\$ 26,797,066	\$ 40,565,340
Total pension liability / (asset) - beginning	575,903,035	549,105,969	508,540,629
Total pension liability / (asset) - ending (a)	\$ 634,414,092	\$ 575,903,035	\$ 549,105,969
Plan fiduciary net position			
Contributions - employer ⁴	\$ 7,887,237	\$ 7,323,532	\$ 7,053,165
Contributions - non-employer	17,807,526	16,566,861	16,127,433
Contributions - member ⁵	5,938,345	5,527,363	5,314,833
Net investment income ⁶	12,246,535	23,722,343	34,284,721
Benefit payments ²	(26,838,506)	(25,626,191)	(23,863,193)
Administrative expense	(224,096)	(170,851)	(329,234)
Refunds of Contributions ³	(61,799)	(89,824)	(173,278)
Other ⁷	(7,444)	1,405	13,978
Net change in plan fiduciary net position	\$ 16,747,798	\$ 27,254,638	\$ 38,428,425
Plan fiduciary net position - beginning	461,189,143	433,934,505	395,506,080
Plan fiduciary net position - ending (b) ⁶	\$ 477,936,941	\$ 461,189,143	\$ 433,934,505
Net pension liability / (asset) - ending (a-b)	\$ 156,477,151	\$ 114,713,892	\$ 115,171,464
VFCA			
Total pension liability			
Service cost (Beginning of year)	\$ 125,315	\$ 112,527	\$ 92,294
Interest (includes interest on service cost)	3,460,874	3,434,677	3,461,285
Changes of benefit terms			
Differences between expected and actual experience	375,549	(173,854)	(930,963)
Changes of assumptions ⁸	1,344,856		
Benefit payments ²	(3,065,017)	(2,996,808)	(2,944,046)
Refunds of Contributions ³			
Net change in total pension liability	\$ 2,241,577	\$ 376,542	\$ (321,430)
Total pension liability / (asset) - beginning	46,772,688	46,396,146	46,717,576
Total pension liability / (asset) - ending (a)	\$ 49,014,265	\$ 46,772,688	\$ 46,396,146
Plan fiduciary net position			
Contributions - employer ⁴			
Contributions - non-employer	\$ 2,486,772	\$ 2,370,454	\$ 2,212,113
Contributions - member ⁵			
Net investment income ⁶	1,045,894	2,070,508	3,126,746
Benefit payments ²	(3,065,017)	(2,996,808)	(2,944,046)
Administrative expense	(414,114)	(296,866)	(293,142)
Refunds of Contributions ³			
Other ⁷	(11,337)	(10,875)	(2,478)
Net change in plan fiduciary net position	\$ 42,198	\$ 1,136,413	\$ 2,099,193
Plan fiduciary net position - beginning	39,866,038	38,729,625	36,630,432
Plan fiduciary net position - ending (b) ⁶	\$ 39,908,236	\$ 39,866,038	\$ 38,729,625
Net pension liability / (asset) - ending (a-b)	\$ 9,106,029	\$ 6,906,650	\$ 7,666,521

¹ This Schedule is intended to show information for 10 years. Additional years will be displayed as they become available.

² For fiscal year 2016, Benefit Payments are only benefit payments. In fiscal years 2014 and 2015, the benefit payments include refunds of contribution and transfers.

³ For fiscal year 2016, the Refunds of Contributions includes Refunds and Distributions, Refunds to other plans and Transfers. Refunds are not applicable to VFCA.

⁴ The Contributions - employer consists of the Employer, Membership Fees, Reduction in Force Program, and Miscellaneous Revenue.

⁵ The Contributions - member consists of the Plan Member and Interest Reserve Buyback.

⁶ The fiscal year 2017 Net Investment Income and Plan Fiduciary Net Position - ending are different in this schedule from what is presented in the FY17 financial statements due to late entries from Board of Investments.

⁷ Other consists of the expense for Other Post Employment Benefits (OPEB).

⁸ The Changes of assumptions for FURS and VFCA at June 30, 2020 is the change in the discount rate from 7.65% to 7.34%.

2017	2016	2015	2014
\$ 12,162,734	\$ 11,519,465	\$ 11,066,391	\$ 10,608,895
35,230,726	33,514,243	32,580,262	30,847,306
893,628	(1,162,342)	(159,885)	
16,915,553			
(22,335,636)	(20,896,200)	(19,747,008)	(19,052,130)
(168,422)	(46,128)		
\$ 42,698,583	\$ 22,929,038	\$ 23,739,760	\$ 22,404,071
465,842,046	442,913,008	419,173,248	396,769,177
\$ 508,540,629	\$ 465,842,046	\$ 442,913,008	\$ 419,173,248
\$ 6,499,776	\$ 6,163,464	\$ 6,100,252	\$ 6,006,863
14,438,412	13,969,719	13,572,990	12,767,624
4,925,425	4,751,806	4,710,082	4,697,333
40,838,569	7,311,946	14,640,156	45,464,858
(22,335,636)	(20,896,200)	(19,747,008)	(19,052,130)
(320,213)	(259,560)	(197,110)	(153,622)
(168,422)	(46,128)		
(485)	(2,424)		
\$ 43,877,426	\$ 10,992,623	\$ 19,079,362	\$ 49,730,926
351,628,654	340,636,031	321,556,669	271,825,743
\$ 395,506,080	\$ 351,628,654	\$ 340,636,031	\$ 321,556,669
\$ 113,034,549	\$ 114,213,392	\$ 102,276,977	\$ 97,616,579
\$ 267,843	\$ 282,498	\$ 221,969	\$ 237,639
3,336,579	3,355,483	2,851,618	2,843,095
		6,173,245	
(791,792)	(1,141,179)	(618,854)	
2,281,533			
(2,858,443)	(2,623,011)	(2,379,353)	(2,294,676)
\$ 2,235,720	\$ (126,209)	\$ 6,248,625	\$ 786,058
44,481,856	44,608,065	38,359,440	37,573,382
\$ 46,717,576	\$ 44,481,856	\$ 44,608,065	\$ 38,359,440
\$ 2,064,561	\$ 2,036,297	\$ 1,913,482	\$ 1,818,237
3,836,835	622,331	1,479,954	4,815,491
(2,858,443)	(2,623,011)	(2,379,353)	(2,294,676)
(288,897)	(241,726)	(180,466)	(136,079)
(6,897)	(14,436)		
\$ 2,747,159	\$ (220,545)	\$ 833,617	\$ 4,202,973
33,883,273	34,103,818	33,270,201	29,067,228
\$ 36,630,432	\$ 33,883,273	\$ 34,103,818	\$ 33,270,201
\$ 10,087,144	\$ 10,598,583	\$ 10,504,247	\$ 5,089,239

FINANCIAL SECTION

Public Employees' Retirement Board

A Component Unit of the State of Montana

Required Supplementary Information

Schedule of Changes in Single-Employer Plans Net Pension Liability / (Asset)

as of June 30, 2020

Last 10 Fiscal Years¹

Fiscal Year	2020	2019	2018
JRS			
Total pension liability			
Service Cost - Beginning of year	\$ 1,748,288	\$ 1,771,629	\$ 1,664,039
Interest (includes interest on service cost)	4,842,414	4,457,587	4,502,928
Changes of benefit terms			
Differences between expected and actual experience	(261,841)	2,743,465	(2,900,423)
Changes of assumptions ¹⁰	1,911,905		
Benefit payments ²	(4,038,362)	(3,846,157)	(3,872,322)
Net change in total pension liability	\$ 4,202,404	\$ 5,126,524	\$ (605,778)
Total pension liability / (asset) - beginning	65,318,710	60,192,186	60,797,964
Total pension liability / (asset) - ending (a)	\$ 69,521,114	\$ 65,318,710	\$ 60,192,186
Plan fiduciary net position			
Contributions - employer ⁹	\$ 1,988,166	\$ (281)	\$ 1,084,880
Contributions - non-employer			
Contributions - member ⁵	560,108	516,777	575,050
Net investment income ⁸	2,827,148	5,687,228	8,467,204
Benefit payments ²	(4,038,362)	(3,846,157)	(3,872,322)
Administrative expense	(157,040)	(122,618)	(264,496)
Other ³	15		6,737
Net change in plan fiduciary net position	\$ 1,180,035	\$ 2,234,949	\$ 5,997,053
Plan fiduciary net position - beginning	104,885,637	102,650,688	96,653,635
Plan fiduciary net position - ending (b) ⁶	\$ 106,065,672	\$ 104,885,637	\$ 102,650,688
Net pension liability / (asset) - ending (a-b)	\$ (36,544,558)	\$ (39,566,927)	\$ (42,458,502)
HPORS			
Total pension liability			
Service Cost - Beginning of year	\$ 3,336,846	\$ 3,453,066	\$ 3,643,015
Interest (includes interest on service cost)	17,688,311	16,926,240	16,293,615
Changes of benefit terms ⁴			
Differences between expected and actual experience	(993,030)	2,412,675	589,270
Changes of assumptions ¹⁰	141,054,951		
Benefit payments ²	(12,684,315)	(12,062,607)	(11,545,732)
Refund of Contributions ⁵	(331,169)	(582,438)	(321,840)
Net change in total pension liability	\$ 148,071,594	\$ 10,146,936	\$ 8,658,328
Total pension liability / (asset) - beginning	237,727,489	227,580,553	218,922,225
Total pension liability / (asset) - ending (a)	\$ 385,799,083	\$ 237,727,489	\$ 227,580,553
Plan fiduciary net position			
Contributions - employer ⁶	\$ 6,002,897	\$ 5,844,909	\$ 5,858,493
Contributions - non-employer ⁵	226,239	233,139	250,150
Contributions - member ⁷	2,169,955	2,002,319	2,386,526
Net investment income ⁸	4,100,741	8,268,830	12,282,824
Benefit payments ²	(12,684,315)	(12,062,607)	(11,545,732)
Administrative expense	(163,315)	(127,400)	(256,309)
Refund of Contributions ⁵	(331,169)	(582,438)	(321,840)
Other ³	(130,951)	2,007	8,067
Net change in plan fiduciary net position	\$ (809,918)	\$ 3,578,759	\$ 8,662,179
Plan fiduciary net position - beginning	152,777,627	149,198,868	140,536,689
Plan fiduciary net position - ending (b) ⁸	\$ 151,967,709	\$ 152,777,627	\$ 149,198,868
Net pension liability / (asset) - ending (a-b)	\$ 233,831,374	\$ 84,949,862	\$ 78,381,685

¹ This Schedule is intended to show information for 10 years. Additional years will be displayed as they become available.

² For fiscal year 2016, Benefit Payments are only benefit payments. In fiscal years 2014, 2015 and 2018, the benefit payments include refunds of contributions and transfers.

³ Other consists of the expense for Other Post Employment Benefits (OPEB).

⁴ For fiscal year 2015, the HPORS Changes of benefit terms was the addition of the DROP.

⁵ For fiscal year 2016, the Refunds of Contributions includes refunds of member contributions.

⁶ The fiscal year 2014 and 2015, HPORS employer and non-employer contribution differences are due to considering all non-employer contributions as employer.

⁷ The HPORS Contributions - member consists of Plan Member and Interest Reserve Buyback on the financial statements.

⁸ The fiscal year 2017 Net Investment Income and Plan Fiduciary Net Position - ending are different in this schedule from what is presented in the financial statements due to late entries from Board of Investments

⁹ For fiscal year 2018 the JRS employer contributions decreased due to Senate Bill 1 temporarily suspending employer contributions.

¹⁰ For fiscal year 2020, the Changes of assumptions for JRS is the change in the discount rate from 7.65% to 7.34% and for HPORS is 7.65% to 4.43%.

2017	2016	2015	2014
\$ 1,628,290	\$ 1,578,705	\$ 1,652,926	\$ 1,593,854
4,043,662	3,986,420	3,933,947	3,824,389
862,189	(1,341,333)	(1,032,091)	
3,864,700			
(3,554,335)	(3,416,023)	(3,040,988)	(3,022,512)
\$ 6,844,506	\$ 807,769	\$ 1,513,794	\$ 2,395,731
53,953,458	53,145,689	51,631,895	49,236,164
\$ 60,797,964	\$ 53,953,458	\$ 53,145,689	\$ 51,631,895
\$ 1,800,105	\$ 1,807,493	\$ 1,683,990	\$ 1,651,483
488,208	729,180	534,091	481,461
10,368,402	1,778,748	3,842,387	12,420,597
(3,554,335)	(3,416,023)	(3,040,988)	(3,022,512)
(253,789)	(197,445)	(135,815)	(100,567)
(674)	(2,742)		
\$ 8,847,917	\$ 699,211	\$ 2,883,665	\$ 11,430,462
87,805,718	87,106,507	84,222,842	72,792,380
\$ 96,653,635	\$ 87,805,718	\$ 87,106,507	\$ 84,222,842
\$ (35,855,671)	\$ (33,852,260)	\$ (33,960,818)	\$ (32,590,947)
\$ 3,664,857	\$ 3,798,553	\$ 3,598,464	\$ 3,464,399
15,121,088	14,545,022	14,112,116	13,517,924
		1,855,618	
2,773,680	18,339	267,336	
7,892,479			
(11,036,794)	(10,482,414)	(10,000,856)	(9,443,007)
(244,597)	(93,811)		
\$ 18,170,713	\$ 7,785,689	\$ 9,832,678	\$ 7,539,316
200,751,512	192,965,823	183,133,145	175,593,829
\$ 218,922,225	\$ 200,751,512	\$ 192,965,823	\$ 183,133,145
\$ 5,782,258	\$ 5,915,644	\$ 5,839,336	\$ 5,735,507
262,884	242,749		
1,949,795	1,917,487	1,624,327	1,458,042
15,098,813	2,605,256	5,738,373	18,678,284
(11,036,794)	(10,482,414)	(10,000,856)	(9,443,007)
(248,124)	(197,034)	(144,253)	(109,140)
(244,597)	(93,811)		
(466)	(2,276)		
\$ 11,563,769	\$ (94,399)	\$ 3,056,927	\$ 16,319,686
128,972,920	129,067,319	126,010,392	109,690,706
\$ 140,536,689	\$ 128,972,920	\$ 129,067,319	\$ 126,010,392
\$ 78,385,536	\$ 71,778,592	\$ 63,898,504	\$ 57,122,753

FINANCIAL SECTION

Public Employees' Retirement Board
A Component Unit of the State of Montana
Required Supplementary Information
Schedule of Net Pension Liability / (Asset) for Multiple-Employer Plans
as of June 30, 2020
 Last 10 Fiscal Years¹

Fiscal Year	2020	2019	2018
PERS-DBRP			
Total Pension Liability	\$ 8,483,685,413	\$ 7,993,617,002	\$ 7,867,135,877
Plan Fiduciary Net Position ^{2,4}	5,845,474,024	5,903,306,304	5,779,994,008
Multiple-Employers' Net Pension Liability / (Asset)	<u>\$ 2,638,211,389</u>	<u>\$ 2,090,310,698</u>	<u>\$ 2,087,141,869</u>
Plan fiduciary net position as a percentage of the total pension liability	68.90 %	73.85 %	73.47%
Covered Payroll ³	\$ 1,280,557,497	\$ 1,247,343,733	\$ 1,230,105,350
Net pension liability / (asset) as a percentage of covered payroll ²	206.02 %	167.58 %	169.67%
SRS			
Total Pension Liability	\$ 506,180,744	\$ 460,620,635	\$ 434,052,092
Plan Fiduciary Net Position ²	384,294,754	377,222,848	358,880,360
Multiple-Employers' Net Pension Liability / (Asset)	<u>\$ 121,885,990</u>	<u>\$ 83,397,787</u>	<u>\$ 75,171,732</u>
Plan fiduciary net position as a percentage of the total pension liability	75.92 %	81.89 %	82.68%
Covered Payroll	\$ 84,942,848	\$ 80,461,048	\$ 77,587,294
Net pension liability / (asset) as a percentage of covered payroll	143.49 %	103.65 %	96.89%
GWPORS			
Total Pension Liability	\$ 348,070,173	\$ 247,012,363	\$ 234,469,658
Plan Fiduciary Net Position ²	212,910,191	206,346,965	193,522,528
Multiple-Employers' Net Pension Liability / (Asset)	<u>\$ 135,159,982</u>	<u>\$ 40,665,398</u>	<u>\$ 40,947,130</u>
Plan fiduciary net position as a percentage of the total pension liability	61.17 %	83.54 %	82.54%
Covered Payroll	\$ 53,825,163	\$ 51,676,963	\$ 50,823,150
Net pension liability / (asset) as a percentage of covered payroll	251.11 %	78.69 %	80.57%

¹ This Schedule is intended to show information for 10 years. Additional years will be displayed as they become available.

² The fiscal year 2017 Plan Fiduciary Net Position is different in this schedule from what was presented in the FY17 Statement of Fiduciary Net Position due to late entries from Board of Investments.

³ The fiscal year 2014 covered payroll for PERS-DBRP has been re-stated due to the transfer of compensation from the PERS-DBRP to the PERS-DCRP. This also affected the dollar amount of the Actuarially Determined Contribution because it was determined as a percent of payroll.

⁴ The PERS-DBRP amounts will not tie to the financial statements due to the exclusion of the PERS-DB Education (DB Ed) amount on this schedule.

2017	2016	2015	2014
\$ 7,420,145,583	\$ 6,736,152,999	\$ 6,458,930,267	\$ 6,188,780,815
<u>5,472,519,182</u>	<u>5,032,807,110</u>	<u>5,061,058,221</u>	<u>4,942,769,917</u>
<u>\$ 1,947,626,401</u>	<u>\$ 1,703,345,889</u>	<u>\$ 1,397,872,046</u>	<u>\$ 1,246,010,898</u>
73.75%	74.71%	78.36%	79.87%
\$ 1,232,066,537	\$ 1,185,646,179	\$ 1,154,866,605	\$ 1,120,266,025
158.08%	143.66%	121.04%	111.22%
\$ 407,007,349	\$ 474,829,830	\$ 392,094,093	\$ 326,272,299
<u>330,910,169</u>	<u>299,152,006</u>	<u>295,695,213</u>	<u>284,655,279</u>
<u>\$ 76,097,180</u>	<u>\$ 175,677,824</u>	<u>\$ 96,398,880</u>	<u>\$ 41,617,020</u>
81.30%	63.00%	75.41%	87.24%
\$ 74,581,258	\$ 70,593,304	\$ 68,045,517	\$ 64,672,635
102.03%	248.86%	141.67%	64.35%
\$ 213,201,194	\$ 187,533,830	\$ 169,649,246	\$ 153,863,911
<u>175,840,876</u>	<u>154,684,509</u>	<u>148,637,767</u>	<u>138,743,106</u>
<u>\$ 37,360,318</u>	<u>\$ 32,849,321</u>	<u>\$ 21,011,479</u>	<u>\$ 15,120,805</u>
82.48%	82.48%	87.61%	90.17%
\$ 49,381,004	\$ 47,108,310	\$ 44,884,739	\$ 41,636,566
75.66%	69.73%	46.81%	36.32%

FINANCIAL SECTION

Public Employees' Retirement Board
A Component Unit of the State of Montana
Required Supplementary Information
Schedule of Net Pension Liability / (Asset) for Multiple-Employer Plans
as of June 30, 2020
 Last 10 Fiscal Years¹

Fiscal Year	2020	2019	2018
MPORS			
Total Pension Liability	\$ 695,736,884	\$ 638,822,111	\$ 589,571,910
Plan Fiduciary Net Position ²	451,150,482	439,777,930	418,314,296
Multiple-Employers' Net Pension Liability / (Asset)	<u>\$ 244,586,402</u>	<u>\$ 199,044,181</u>	<u>\$ 171,257,614</u>
Plan fiduciary net position as a percentage of the total pension liability	64.84 %	68.84 %	70.95%
Covered Payroll	\$ 56,783,680	\$ 54,282,431	\$ 52,035,958
Net pension liability / (asset) as a percentage of covered payroll	430.73 %	366.68 %	329.11%
FURS			
Total Pension Liability	\$ 634,414,092	\$ 575,903,035	\$ 549,105,969
Plan Fiduciary Net Position ²	477,936,941	461,189,143	433,934,505
Multiple-Employers' Net Pension Liability / (Asset)	<u>\$ 156,477,151</u>	<u>\$ 114,713,892</u>	<u>\$ 115,171,464</u>
Plan fiduciary net position as a percentage of the total pension liability	75.34 %	80.08 %	79.03%
Covered Payroll	\$ 53,858,929	\$ 50,756,445	\$ 47,934,517
Net pension liability / (asset) as a percentage of covered payroll	290.53 %	226.01 %	240.27%
VFCA			
Total Pension Liability	\$ 49,014,265	\$ 46,772,688	\$ 46,396,146
Plan Fiduciary Net Position ²	39,908,236	39,866,038	38,729,625
Multiple-Employers' Net Pension Liability / (Asset)	<u>\$ 9,106,029</u>	<u>\$ 6,906,650</u>	<u>\$ 7,666,521</u>
Plan fiduciary net position as a percentage of the total pension liability	81.42 %	85.23 %	83.48%
Covered Payroll	N/A	N/A	N/A
Net pension liability / (asset) as a percentage of covered payroll	N/A	N/A	N/A

¹ This Schedule is intended to show information for 10 years. Additional years will be displayed as they become available.

² The fiscal year 2017 Plan Fiduciary Net Position is different in this schedule from what was presented in the FY17 Statement of Fiduciary Net Position due to late entries from Board of Investments.

2017	2016	2015	2014
\$ 561,975,691	\$ 523,640,520	\$ 500,477,550	\$ 476,322,263
384,062,216	343,626,914	335,056,825	319,186,360
<u>\$ 177,913,475</u>	<u>\$ 180,013,606</u>	<u>\$ 165,420,725</u>	<u>\$ 157,135,903</u>
68.34%	65.62%	66.95%	67.01%
\$ 48,603,580	\$ 47,233,801	\$ 45,736,127	\$ 44,426,617
366.05%	381.11%	361.69%	353.70%
\$ 508,540,629	\$ 465,842,046	\$ 442,913,008	\$ 419,173,248
395,506,080	351,628,654	340,636,031	321,556,669
<u>\$ 113,034,549</u>	<u>\$ 114,213,392</u>	<u>\$ 102,276,977</u>	<u>\$ 97,616,579</u>
77.77%	75.48%	76.91%	76.71%
\$ 45,208,091	\$ 43,118,925	\$ 41,627,233	\$ 39,891,869
250.03%	264.88%	245.70%	244.70%
\$ 46,717,576	\$ 44,481,856	\$ 44,608,065	\$ 38,359,440
36,630,432	33,883,273	34,103,818	33,270,201
<u>\$ 10,087,144</u>	<u>\$ 10,598,583</u>	<u>\$ 10,504,247</u>	<u>\$ 5,089,239</u>
78.41%	76.17%	76.45%	86.73%
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

FINANCIAL SECTION

Public Employees' Retirement Board

A Component Unit of the State of Montana

Required Supplementary Information

Schedule of Net Pension Liability / (Asset) for Single-Employer Plans

as of June 30, 2020

Last 10 Fiscal Years¹

Fiscal Year	2020	2019	2018
JRS			
Total Pension Liability	\$ 69,521,114	\$ 65,318,710	\$ 60,192,186
Plan Fiduciary Net Position ²	106,065,672	104,885,637	102,650,688
Single-Employers' Net Pension Liability / (Asset)	\$ (36,544,558)	\$ (39,566,927)	\$ (42,458,502)
Plan fiduciary net position as a percentage of the total pension liability	152.57 %	160.58 %	170.54%
Covered Payroll	\$ 8,001,462	\$ 7,382,476	\$ 7,290,904
Net pension liability / (asset) as a percentage of covered payroll	(456.72)%	(535.96)%	(582.35)%
HPORS			
Total Pension Liability	\$ 385,799,083	\$ 237,727,489	\$ 227,580,553
Plan Fiduciary Net Position ²	151,967,709	152,777,627	149,198,868
Single-Employers' Net Pension Liability / (Asset)	\$ 233,831,374	\$ 84,949,862	\$ 78,381,685
Plan fiduciary net position as a percentage of the total pension liability	39.39 %	64.27 %	65.56%
Covered Payroll	\$ 15,607,832	\$ 15,177,612	\$ 15,251,339
Net pension liability / (asset) as a percentage of covered payroll	1,498.17 %	559.71 %	513.93%

¹ This Schedule is intended to show information for 10 years. Additional years will be displayed as they become available.

² The fiscal year 2017 Plan Fiduciary Net Position is different in this schedule from what was presented in the FY17 Statement of Fiduciary Net Position due to late entries from Board of Investments.

2017	2016	2015	2014
\$ 60,797,964	\$ 53,953,458	\$ 53,145,689	\$ 51,631,895
<u>96,653,635</u>	<u>87,805,718</u>	<u>87,106,507</u>	<u>84,222,842</u>
<u>\$ (35,855,671)</u>	<u>\$ (33,852,260)</u>	<u>\$ (33,960,818)</u>	<u>\$ (32,590,947)</u>
158.98%	162.74%	163.90%	163.12%
\$ 6,974,470	\$ 6,920,367	\$ 6,524,569	\$ 6,354,763
(514.10)%	(489.17)%	(520.51)%	(512.86)%
\$ 218,922,225	\$ 200,751,512	\$ 192,965,823	\$ 183,133,145
<u>140,536,689</u>	<u>128,972,920</u>	<u>129,067,319</u>	<u>126,010,392</u>
<u>\$ 78,385,536</u>	<u>\$ 71,778,592</u>	<u>\$ 63,898,504</u>	<u>\$ 57,122,753</u>
64.19%	64.25%	66.89%	68.81%
\$ 14,778,975	\$ 15,275,964	\$ 14,549,378	\$ 14,149,269
530.39%	469.88%	439.18%	403.72%

Public Employees' Retirement Board

A Component Unit of the State of Montana

Required Supplementary Information

Schedule of Employer and Non-Employer (State) Contributions for Cost-Sharing Multiple-Employer Plans

as of June 30, 2020

(in thousands)

Last 10 Fiscal Years¹

Fiscal Year	2020	2019	2018
PERS-DBRP			
Actuarially Determined Contribution	\$ 156,152	\$ 152,663	\$ 141,310
Actual Contributions in Relation to the Actuarially Determined Contribution			
Employer Contributions ^{2, 4}	111,991	107,258	106,651
Non-Employer Contributions (State)	35,009	34,642	34,659
Total Contributions	\$ 147,000	\$ 141,900	\$ 141,310
Contribution Deficiency / (Excess)	\$ 9,152	\$ 10,763	\$ 0
Covered Payroll ³	\$ 1,280,557	\$ 1,247,344	\$ 1,230,105
Contributions as a Percentage of Covered Payroll ³	11.48 %	11.38 %	11.49%
SRS			
Actuarially Determined Contribution	\$ 11,175	\$ 10,573	\$ 10,366
Actual Contributions in Relation to the Actuarially Determined Contribution			
Employer Contributions ²	11,175	10,573	10,366
Non-Employer Contributions (State)			
Total Contributions	\$ 11,175	\$ 10,573	\$ 10,366
Contribution Deficiency / (Excess)	\$ 0	\$ 0	\$ 0
Covered Payroll	\$ 84,943	\$ 80,461	\$ 77,587
Contributions as a Percentage of Covered Payroll	13.16 %	13.14 %	13.36%

¹ This Schedule is intended to show information for 10 years. Additional years will be displayed as they become available.

² Employer consists of the Employer, Membership Fees, Reduction in Force Program and Miscellaneous Revenue.

³ The fiscal year 2014 covered payroll of PERS-DBRP has been re-stated due to the transfer of compensation from the PERS-DBRP to the PERS-DCRP. This also affected the dollar amount of the Actuarially Determined Contribution (ADC) because it was determined as a percentage of payroll.

⁴ The PERS-DBRP amounts will not tie to the financial statements due to the exclusion of the PERS-DB Education (DB Ed) amount on this schedule.

2017	2016	2015	2014
\$ 132,295	\$ 133,128	\$ 131,424	\$ 137,681
103,537	102,328	100,176	95,820
28,758	30,800	34,467	34,562
<u>\$ 132,295</u>	<u>\$ 133,128</u>	<u>\$ 134,643</u>	<u>\$ 130,382</u>
<u>\$ 0</u>	<u>\$ 0</u>	<u>\$ (3,219)</u>	<u>\$ 7,299</u>
\$ 1,232,067	\$ 1,185,646	\$ 1,154,867	\$ 1,120,266
10.74%	11.23%	11.66%	11.64%
\$ 10,095	\$ 8,640	\$ 9,737	\$ 9,779
7,562	7,317	6,902	6,689
<u>\$ 7,562</u>	<u>\$ 7,317</u>	<u>\$ 6,902</u>	<u>\$ 6,689</u>
<u>\$ 2,533</u>	<u>\$ 1,323</u>	<u>\$ 2,835</u>	<u>\$ 3,090</u>
\$ 74,581	\$ 70,593	\$ 68,046	\$ 64,673
10.14%	10.36%	10.14%	10.34%

FINANCIAL SECTION

Public Employees' Retirement Board

A Component Unit of the State of Montana

Required Supplementary Information

Schedule of Employer and Non-Employer (State) Contributions for Cost-Sharing Multiple-Employer Plans

as of June 30, 2020

(in thousands)

Last 10 Fiscal Years¹

Fiscal Year	2020	2019	2018
GWPORS			
Actuarially Determined Contribution	\$ 5,350	\$ 5,285	\$ 5,213
Actual Contributions in Relation to the Actuarially Determined Contribution			
Employer Contributions ²	4,869	4,686	4,613
Non-Employer Contributions (State)			
Total Contributions	\$ 4,869	\$ 4,686	\$ 4,613
Contribution Deficiency / (Excess)	\$ 481	\$ 599	\$ 600
Covered Payroll	\$ 53,825	\$ 51,677	\$ 50,823
Contributions as a Percentage of Covered Payroll	9.05 %	9.07 %	9.08 %
MPORS			
Actuarially Determined Contribution	\$ 24,958	\$ 23,844	\$ 23,598
Actual Contributions in Relation to the Actuarially Determined Contribution			
Employer Contributions ²	8,273	7,853	7,758
Non-Employer Contributions (State)	16,685	15,991	15,840
Total Contributions	\$ 24,958	\$ 23,844	\$ 23,598
Contribution Deficiency / (Excess)	\$ 0	\$ 0	\$ 0
Covered Payroll	\$ 56,784	\$ 54,282	\$ 52,036
Contributions as a Percentage of Covered Payroll	43.95 %	43.93 %	45.35 %

¹ This Schedule is intended to show information for 10 years. Additional years will be displayed as they become available.

² Employer consists of the Employer, Membership Fees, Reduction in Force Program and Miscellaneous Revenue.

2017	2016	2015	2014
\$ 5,495	\$ 4,707	\$ 5,256	\$ 4,976
4,464	4,278	4,088	3,762
<u>\$ 4,464</u>	<u>\$ 4,278</u>	<u>\$ 4,088</u>	<u>\$ 3,762</u>
<u>\$ 1,031</u>	<u>\$ 429</u>	<u>\$ 1,168</u>	<u>\$ 1,214</u>
\$ 49,381	\$ 47,108	\$ 44,885	\$ 41,637
9.04%	9.08%	9.11%	9.04%
\$ 21,052	\$ 20,679	\$ 17,229	\$ 17,922
7,091	6,928	6,630	6,459
13,961	13,751	13,433	13,049
<u>\$ 21,052</u>	<u>\$ 20,679</u>	<u>\$ 20,063</u>	<u>\$ 19,508</u>
<u>\$ 0</u>	<u>\$ 0</u>	<u>\$ (2,834)</u>	<u>\$ (1,586)</u>
\$ 48,604	\$ 47,234	\$ 45,736	\$ 44,427
43.31%	43.78%	43.87%	43.91%

FINANCIAL SECTION

Public Employees' Retirement Board

A Component Unit of the State of Montana

Required Supplementary Information

Schedule of Employer and Non-Employer (State) Contributions for Cost-Sharing Multiple-Employer Plans

as of June 30, 2020

(in thousands)

Last 10 Fiscal Years¹

Fiscal Year	2020	2019	2018
FURS			
Actuarially Determined Contribution	\$ 25,695	\$ 23,890	\$ 23,181
Actual Contributions in Relation to the Actuarially Determined Contribution			
Employer Contributions ²	7,887	7,323	7,053
Non-Employer Contributions (State)	17,808	16,567	16,128
Total Contributions	\$ 25,695	\$ 23,890	\$ 23,181
Contribution Deficiency / (Excess)	\$ 0	\$ 0	\$ 0
Covered Payroll	\$ 53,859	\$ 50,756	\$ 47,935
Contributions as a Percentage of Covered Payroll	47.71 %	47.07 %	48.36%
VFCA			
Actuarially Determined Contribution	\$ 2,487	\$ 2,370	\$ 2,212
Actual Contributions in Relation to the Actuarially Determined Contribution			
Employer Contributions			
Non-Employer Contributions (State)	2,487	2,370	2,212
Total Contributions	\$ 2,487	\$ 2,370	\$ 2,212
Contribution Deficiency / (Excess)	\$ 0	\$ 0	\$ 0
Covered Payroll	N/A	N/A	N/A
Contributions as a Percentage of Covered Payroll	N/A	N/A	N/A

¹ This Schedule is intended to show information for 10 years. Additional years will be displayed as they become available.

² Employer consists of the Employer, Membership Fees, Reduction in Force Program and Miscellaneous Revenue.

2017	2016	2015	2014
\$ 20,938	\$ 20,133	\$ 13,279	\$ 13,699
6,500	6,163	6,100	6,007
14,438	13,970	13,573	12,767
<u>\$ 20,938</u>	<u>\$ 20,133</u>	<u>\$ 19,673</u>	<u>\$ 18,774</u>
<u>\$ 0</u>	<u>\$ 0</u>	<u>\$ (6,394)</u>	<u>\$ (5,075)</u>
\$ 45,208	\$ 43,119	\$ 41,627	\$ 39,892
46.32%	46.69%	47.26%	47.06%
\$ 2,065	\$ 2,037	\$ 890	\$ 1,116
	2,036	1,913	1,818
2,065			
<u>\$ 2,065</u>	<u>\$ 2,036</u>	<u>\$ 1,913</u>	<u>\$ 1,818</u>
<u>\$ 0</u>	<u>\$ 1</u>	<u>\$ (1,023)</u>	<u>\$ (702)</u>
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Public Employees' Retirement Board

A Component Unit of the State of Montana

Notes to the Required Supplementary Information

The information presented in the GASB Statement No. 67 required supplementary schedules was determined as part of the actuarial valuations for accounting purposes at the dates indicated.

Valuation date: June 30, 2019

Key Methods and Assumptions Used to Determine the Actuarially Determined Contribution (ADC) for fiscal year end 2020:

Timing	ADC are determined on the valuation date payable in the fiscal year beginning immediately following the valuation date
Actuarial cost method	Entry age Normal
Amortization method	Level percentage of payroll, open
Remaining amortization period	30 years
Asset valuation method	4-year smoothed market
Wage Inflation	3.50%
Inflation	2.40%
Salary increases	3.50%, including inflation
Investment rate of return	7.34%, net of pension plan investment expense, including inflation
Mortality (Healthy)	RP 2000 Combined Employee and Annuitant Mortality Table Projected to 2020 using Scale BB, set back one year for males.
Mortality (Disabled)	RP-2000 Combined Employee and Annuitant Mortality Table with no projections.

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FINANCIAL SECTION

Public Employees' Retirement Board

A Component Unit of the State of Montana

Required Supplementary Information

Schedule of Employer Contributions

for Single-Employer Plans

as of June 30, 2020

(in thousands)

Last 10 Fiscal Years¹

Fiscal Year	2020	2019	2018
JRS²			
Actuarially Determined Contribution			
Actual Contributions in Relation to the Actuarially Determined Contribution:			
Employer Contributions ^{3, 5}	1,988		\$ 1,085
Total Contributions	\$ 1,988		\$ 1,085
Contribution Deficiency / (Excess)	\$ (1,988)		\$ (1,085)
Covered Payroll	\$ 8,001	\$ 7,382	\$ 7,291
Contributions as a Percentage of Covered Payroll	24.85 %	0.00 %	14.88 %
HPORS²			
Actuarially Determined Contribution	\$ 6,934	\$ 6,668	\$ 6,530
Actual Contributions in Relation to the Actuarially Determined Contribution:			
Employer Contributions ^{3, 4}	6,229	\$ 6,078	\$ 6,109
Total Contributions	\$ 6,229	\$ 6,078	\$ 6,109
Contribution Deficiency / (Excess)	\$ 705	\$ 590	\$ 421
Covered Payroll	\$ 15,608	\$ 15,178	\$ 15,251
Contributions as a Percentage of Covered Payroll	39.91 %	40.05 %	40.05 %

¹ This Schedule is intended to show information for 10 years. Additional years will be displayed as they become available.

² Notes to Schedule

Valuation date: June 30, 2019

Key Methods and Assumptions Used to Determine the Actuarially Determined Contribution (ADC) for fiscal year end 2020:

Timing	ADC is determined on the actuarial valuation date payable in the fiscal year beginning immediately following the valuation date
Actuarial cost method	Entry age Normal
Amortization method	Level percentage of payroll, open
Remaining amortization period	30 years
Asset valuation method	4-year smoothed market
Wage Inflation	3.50%
Inflation	2.40%
Salary increases	3.50%, including inflation
Investment rate of return	7.34%, net of pension plan investment expense, including inflation
Mortality (Healthy)	RP-2000 Combined Employee and Annuitant Mortality Tables Projected to 2020 using Scale BB, set back one year for males
Mortality (Disabled)	RP-2000 Combined Employee and Annuitant Mortality Table

³ Employer consists of the Employer, Membership Fees, Reduction in Force Program and Miscellaneous Revenue.

⁴ For fiscal year 2014, the HPORS contributions for the supplemental benefit payment were classified as a non-employer contribution. It has been determined that the supplemental contribution should be classified as an employer contribution.

⁵ For FY2019, the JRS employer contributions were temporarily suspended due to the November 2017 Special Legislation Session, Senate Bill 1.

2017	2016	2015	2014
\$ 1,800	\$ 1,807	\$ 1,684	\$ 1,651
\$ 1,800	\$ 1,807	\$ 1,684	\$ 1,651
\$ (1,800)	\$ (1,807)	\$ (1,684)	\$ (1,651)
\$ 6,974	\$ 6,920	\$ 6,525	\$ 6,355
25.81 %	26.11 %	25.81 %	25.98 %
\$ 6,045	\$ 6,158	\$ 5,706	\$ 6,121
\$ 6,045	\$ 6,158	\$ 5,839	\$ 5,736
\$ 6,045	\$ 6,158	\$ 5,839	\$ 5,736
\$ 0	\$ 0	\$ (133)	\$ 385
\$ 14,779	\$ 15,276	\$ 14,549	\$ 14,149
40.90 %	40.31 %	40.13 %	40.54 %

Public Employees' Retirement Board

A Component Unit of the State of Montana

Required Supplementary Information

Schedule of Investment Returns for Multiple-Employer Plans

as of June 30, 2020

Last 10 Fiscal Years¹

	Year Ended June 30	PERS-DBRP	SRS	GWPORS
Annual money-weighted rate of return, net investment expense				
	2020	2.71 %	2.70 %	2.69 %
	2019	5.64 %	5.70 %	5.73 %
	2018	8.88 %	8.83 %	8.82 %
	2017	11.94 %	11.96 %	11.97 %
	2016	2.04 %	2.05 %	2.09 %
	2015	4.60 %	4.59 %	4.59 %
	2014	17.18 %	17.15 %	17.12 %

	Year Ended June 30	MPORS	FURS	VFCA
Annual money-weighted rate of return, net investment expense				
	2020	2.72 %	2.71 %	2.73 %
	2019	5.56 %	5.59 %	5.59 %
	2018	8.86 %	8.85 %	8.97 %
	2017	11.92 %	11.93 %	11.89 %
	2016	2.18 %	2.19 %	1.85 %
	2015	4.66 %	4.66 %	4.63 %
	2014	17.16 %	17.15 %	17.23 %

¹ This Schedule is intended to show information for 10 years. Additional years will be displayed as they become available.

Public Employees' Retirement Board*A Component Unit of the State of Montana***Required Supplementary Information****Schedule of Investment Returns for Single-Employer Plans***as of June 30, 2020*Last 10 Fiscal Years¹

	Year Ended June 30	JRS	HPORS
Annual money-weighted rate of return, net investment expense			
	2020	2.72 %	2.73 %
	2019	5.65 %	5.64 %
	2018	8.87 %	8.89 %
	2017	11.96 %	11.92 %
	2016	2.03 %	2.02 %
	2015	4.60 %	4.61 %
	2014	17.17 %	17.19 %

¹ This Schedule is intended to show information for 10 years. Additional years will be displayed as they become available.

Public Employees' Retirement Board
A Component Unit of the State of Montana
Required Supplementary Information
Schedule of Total OPEB (Healthcare) Liability and Related Ratios, Last Ten Fiscal Years¹

Fiscal Year	2020	2019	2018
Total OPEB Liability			
Service cost	\$ 4,763	\$ 6,271	\$ 27,891
Interest	2,892	6,096	29,728
Changes of benefit terms			
Difference between expected and actual experience	22,201		(69,725)
Changes of assumptions or other inputs	(5,706)	8,460	(4,363)
Benefit payments	(1,826)	(5,220)	25,170
Net change in total OPEB liability	22,324	\$ 15,607	\$ 8,701
Total OPEB liability - Beginning	100,402	84,795	76,094
Total OPEB liability - Ending	\$ 122,726	\$ 100,402	\$ 84,795
Proportionate Share of Total OPEB Liability	0.25924 %	0.18026%	0.16805 %
Covered employee payroll	\$ 4,151,855	\$ 3,909,710	\$ 3,703,606
Total OPEB liability as a percentage of covered employee payroll	2.96 %	2.57 %	2.29 %

¹ Schedules are intended to present information for 10 years. Additional years will be displayed as they become available.

In accordance with GASB Statement No. 75, the above information is presented to reflect the funding progress of the Healthcare OPEB Plan for MPERA as a State of Montana employer and is determined by the State of Montana. No assets are accumulated in a trust that meets the criteria in paragraph 4 of GASB Statement No. 75.

Factors that significantly affect trends in the amounts reported:

There were no changes in terms or methods that significantly affected the trends since the last measurement date.

At June 30, 2020, the most recent actuarial valuation available was performed by the State of Montana as of January 1, 2019 for the calendar year ending December 31, 2019. This actuarial valuation is performed every two years with the next valuation to be performed as of January 1, 2021 for the calendar year ending December 31, 2021. The State of Montana finances claims on a pay-as-you-go basis and does not advance fund the OPEB liability. This is the OPEB obligation for MPERA as a State of Montana employer and is determined by the State of Montana.

Public Employees' Retirement Board*A Component Unit of the State of Montana***Notes to Required Supplementary Information for OPEB (Healthcare)**

Actuarial valuation date	December 31, 2019
Actuarial measurement date ¹	March 31, 2020
Experience study period	January 1, 2015 through December 31, 2019
Actuarial cost method	Entry age normal funding method
Amortization method	Open basis
Asset valuation method	Not applicable because no assets meeting the definition of plan assets under GASB 75
<i>Actuarial assumptions:</i>	
Discount rate	2.75%
Projected payroll increases	2.50%
Participation:	
Future retirees	40.00%
Future eligible spouses	70.00%
Marital status at retirement	70.00%

¹ Update procedures were used to roll forward the total OPEB liability to the measurement date.

FINANCIAL SECTION

Public Employees' Retirement Board

A Component Unit of the State of Montana

Notes to the Required Supplementary Information

The information presented in the required supplementary schedules was determined as part of the actuarial valuations for **funding** purposes at the dates indicated. Additional information as of latest actuarial valuation follows:

	PERS-DBRP	JRS	HPORS
Valuation date	June 30, 2020	June 30, 2020	June 30, 2020
Actuarial cost method	Entry Age	Entry Age	Entry Age
Amortization method	Level percentage of payroll, open	Level percentage of payroll, open	Level percentage of payroll, open
Remaining amortization period in years:			
Unfunded Liability ¹	35		39
Unfunded Credit ²		0	
Asset valuation method	4-Year smoothed market	4-Year smoothed market	4-Year smoothed market
Actuarial assumptions:			
Investment rate of return compounded annually (net of investment expense)	7.65%	7.65%	7.65%
Projected salary increases			
General Wage Growth*	3.50%	3.50%	3.50%
Merit	0% - 4.8%	None	0% - 6.3%
*Includes inflation at	2.75%	2.75%	2.75%
Administrative Expenses as a Percentage of Payroll ³	0.28%	0.11%	0.23%
Benefit Adjustments			
GABA	3% if hired prior to July 1, 2007; or 1.5% if hired between July 1, 2007 and June 30, 2013; or 0% to 1.5% if hired on or after July 1, 2013; after 1 year	3% after 1 yr	3% after 1 year or 1.5% after 3 years if hired on or after July 1, 2013
Non-GABA	N/A	Biennial increase to salary of active member in like position	2% per yr service, not to exceed 5% of current benefit, for probationary officer's base pay

¹ The unfunded actuarial liability in the PERS, HPORS and GWPORS do not amortize in 30 years.

² Assets are larger than the past service liability – creating an unfunded credit; the credit is amortized over future costs.

³ The administrative expenses are recognized by an additional amount added to the normal cost contribution rate for the System. This amount varies from year to year based on the prior year's actual administrative expenses.

FINANCIAL SECTION

SRS	GWPORS	MPORS	FURS	VFCA
June 30, 2020	June 30, 2020	June 30, 2020	June 30, 2020	June 30, 2020
Entry Age	Entry Age	Entry Age	Entry Age	Entry Age
Level percentage of payroll, open	Level percentage of payroll, open	Level percentage of payroll, open	Level percentage of payroll, open	Level percent of inflation, open
21	40	16	8	4
				Based on Current Revenue
4-Year smoothed market	4-Year smoothed market	4-Year smoothed market	4-Year smoothed market	4-Year smoothed market
7.65%	7.65%	7.65%	7.65%	7.65%
3.50%	3.50%	3.50%	3.50%	N/A
0% - 6.3%	0% - 6.3%	0% - 6.6%	0% - 6.3%	N/A
2.75%	2.75%	2.75%	2.75%	N/A
0.17%	0.17%	0.18%	0.17%	\$293,470
3% or 1.5% for new hires on or after July 1, 2007, after 1 year	3% or 1.5% for new hires on or after July 1, 2007, after 1 year	3% after 1 yr	3% after 1 yr	N/A
N/A	N/A	50% newly confirmed officer	50% newly confirmed firefighter	N/A

FINANCIAL SECTION

Public Employees' Retirement Board

A Component Unit of the State of Montana

Schedule of Administrative Expenses

Year Ended June 30, 2020

	Defined Benefit Plans	PERS-DBRP Education Fund	Defined Contribution PERS-DCRP	Deferred Compensation (457) Plan
Personal Services				
Salaries	\$ 2,074,765	\$ 542,357	\$ 278,024	\$ 134,478
Board Members' Per Diem	2,064		192	144
Employee Benefits	754,331	227,021	97,155	43,724
Total Personal Services	2,831,160	769,378	375,371	178,346
Other Services				
Consulting and Professional Services	1,282,243	3,168	133,413	145,221
Legal Fees and Court Costs	2,597		78	17
Audit Fees	113,761		8,713	6,535
Medical Services	2,635		110	
Records Storage	4,224		393	295
Computer Processing	144,054	38,132	19,066	10,592
Printing and Photocopy Charges	20,186	3,688	1,560	1,395
Warrant Writing Services	53,008		4,931	3,698
Other	229,357	6,538	22,355	16,113
Total Other Services	1,852,065	51,526	190,619	183,866
Communications				
Postage and Mailing	68,843	680	5,129	6,199
Telephone	43,090	11,406	5,703	3,168
Total Communications	111,933	12,086	10,832	9,367
Other Expenses				
Supplies and Materials	66,104	18,622	8,836	5,681
Travel	18,235	9,548	4,012	2,995
Rent	217,968	57,676	28,841	16,021
Repairs and Maintenance	344		32	24
Compensated Absences	41,730	16,607	(2,246)	(1,556)
OPEB Expenses	7,818	2,598	993	418
Miscellaneous	654,862	26,278	61,352	62,129
Total Other Expenses	1,007,061	131,329	101,820	85,712
Total Administrative Expenses	\$ 5,802,219	\$ 964,319	\$ 678,642	\$ 457,291

Public Employees' Retirement Board*A Component Unit of the State of Montana***Schedule of Investment Expenses****Year Ended June 30, 2020**

Plan	Investment Manager	Fees
PERS-DBRP	Board of Investments	\$ 31,339,257
PERS-DCRP DISABILITY OPEB	Board of Investments	13,333
JRS	Board of Investments	561,187
HPORS	Board of Investments	809,306
SRS	Board of Investments	2,030,317
GWPORS	Board of Investments	1,117,480
MPORS	Board of Investments	2,315,913
FURS	Board of Investments	2,443,114
VFCA	Board of Investments	206,444
DC	PIMCO	37,594
	State Street Bank	8,571
	Transamerica	10,323
	Prudential	10,622
	Voya	5,162
457	PIMCO	457,776
	State Street Bank	103,724
	Transamerica	125,859
	Prudential	129,559
	Voya	63,866
Total Investment Expense		\$ 41,789,407

Public Employees' Retirement Board

A Component Unit of the State of Montana

Schedule of Professional/Consultant Fees

Year Ended June 30, 2020

Individual or Firm	Nature of Service	Amount Paid
Consultant Fees		
Bchr Us Acquisitions, Inc	Investment Consultants	\$ 40,834
Cavanaugh Macdonald Consulting LLC	Actuarial Audit	257,803
Government Finance Officers Association	CAFR Review	1,365
Ice Miller LLP	Tax Consultants	20,605
Lexisnexis Risk Data Management Inc.	Risk Data Management Services	2,736
Pension Benefit Information, LLC	Death Validation Services	6,750
R V Kuhns & Associates Inc.	Investment Consultants	58,334
Sagitec Solutions Inc.	Pension Systems Design	1,095,556
Workiva Financial Reporting	Software Contracted Services	15,381
Faure Holden Attorneys At Law PC	Legal Services	64,581
Keith Jackson	Professional Photographer	100
Consultant Fees Subtotal		1,564,045
Other Professional Fees		
Department of Justice	Legal Services	72
Timothy D. Schofield, MD PLLC	Medical Consultant	2,745
Legislative Audit Division	Independent Auditors	129,009
Other Professional Fees Subtotal		131,826
Total Professional/Consultant Fees		\$ 1,695,871

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FINANCIAL SECTION

Public Employees' Retirement Board

A Component Unit of the State of Montana

Detail of Fiduciary Net Position (PERS-DBRP and PERS-DBEd)

as of June 30, 2020

	PERS-DBRP	PERS-DBEd	TOTAL
Assets			
Cash and Short-term Investments	\$ 66,168,820	\$ 1,993,763	\$ 68,162,583
Securities Lending Collateral	30,812,956		30,812,956
Receivables			
Interest	29,612	880	30,492
Accounts Receivables	3,279,262	4,416	3,283,678
Due from Other Funds	779,959		779,959
Due from Primary Government			
Notes Receivable	9,210		9,210
<i>Total Receivables</i>	4,098,043	5,296	4,103,339
Investments, at fair value			
CAPP Participant Pool	5,775,148,023		5,775,148,023
<i>Total Investments</i>	5,775,148,023		5,775,148,023
Capital Assets			
Property and Equipment, at cost, net of Accumulated Depreciation	10,627	783	11,410
Intangible Assets at cost, net of amortization expense	1,030,401		1,030,401
<i>Total Capital Assets</i>	1,041,028	783	1,041,811
Total Assets	5,877,268,870	1,999,842	5,879,268,712
Deferred Outflow of Resources - OPEB	47,482	15,849	63,331
Liabilities			
Securities Lending Liability	30,812,956		30,812,956
Accounts Payable	352,383	50,354	402,737
Unearned Revenue	223,751	167	223,918
Due to Other Funds	16,942	38	16,980
Compensated Absences	315,547	55,188	370,735
OPEB Implicit Rate Subsidy LT	81,138	27,083	108,221
Total Liabilities	31,802,717	132,830	31,935,547
Deferred Inflow of Resources - OPEB	39,611	13,222	52,833
Net Position Restricted for Pension Benefits	\$ 5,845,474,024	\$ 1,869,639	\$ 5,847,343,663

Public Employees' Retirement Board*A Component Unit of the State of Montana***Detail of Changes in Fiduciary Net Position (PERS-DBRP and PERS-DBEd)
for the Fiscal Year Ended June 30, 2020**

	PERS-DBRP	PERS-DBEd	TOTAL
Additions			
Contributions			
Employer	\$ 111,939,965	\$ 508,977	\$ 112,448,942
Plan Member	104,673,083		104,673,083
Interest Reserve Buyback	335,934		335,934
Retirement Incentive Program	973		973
Miscellaneous Revenue	50,442		50,442
State Contributions	1,057,709		1,057,709
State Appropriations	33,951,150		33,951,150
<i>Total Contributions</i>	252,009,256	508,977	252,518,233
Investment Income			
Net Appreciation (Depreciation) in Fair Value of Investments	187,096,774	486	187,097,260
Interest	1,906,711	35,474	1,942,185
Dividends			
Investment Expense	(31,339,257)		(31,339,257)
<i>Net Investment Income</i>	157,664,228	35,960	157,700,188
Securities Lending Income			
Securities Lending Income	669,753		669,753
Securities Lending Rebate and Fees	(356,954)		(356,954)
<i>Net Securities Lending Income</i>	312,799		312,799
Total Net Investment Income	157,977,027	35,960	158,012,987
Total Additions	409,986,283	544,937	410,531,220
Deductions			
Benefits	449,601,997		449,601,997
Refunds/Distributions	11,922,673		11,922,673
Refunds to Other Plans	173,928		173,928
Transfers to MUS-RP	268,057		268,057
Transfers to DCRP	1,983,881		1,983,881
OPEB Expenses	7,818	2,598	10,416
Administrative Expenses	4,059,627	961,721	5,021,348
Total Deductions	468,017,981	964,319	468,982,300
Net Increase (Decrease)	(58,031,698)	(419,382)	(58,451,080)
Net Position Restricted for Pension Benefits			
Beginning of Year	5,903,306,248	2,277,928	5,905,584,176
Prior Year Adjustments	199,474	11,093	210,567
End of Year	\$ 5,845,474,024	\$ 1,869,639	\$ 5,847,343,663

FINANCIAL SECTION

Public Employees' Retirement Board

A Component Unit of the State of Montana

Detail of Fiduciary Net Position (PERS-DCRP, PERS-DCEd) as of June 30, 2020

	PERS-DCRP	PERS-DCEd	TOTAL
Assets			
Cash and Short-term Investments	\$ 2,261,678	\$ 148,012	\$ 2,409,690
Securities Lending Collateral			
Receivables			
Interest	793	64	857
Accounts Receivables	247,196	508	247,704
Due from Other Funds	16,655	39	16,694
<i>Total Receivables</i>	264,644	611	265,255
Investments, at fair value			
Defined Contributions Fixed Investments	20,409,924		20,409,924
Defined Contributions Variable Investments	274,238,478		274,238,478
<i>Total Investments</i>	294,648,402		294,648,402
Property and Equipment, at cost,			
net of Accumulated Depreciation (Note A2)	1,356	112	1,468
Intangible Assets at cost,			
net of amortization expense	246,171		246,171
<i>Total Capital Assets</i>	247,527	112	247,639
Total Assets	297,422,251	148,735	297,570,986
Deferred Outflow of Resources - OPEB	4,370	1,594	5,964
Liabilities			
Securities Lending Liability			
Accounts Payable	219,973	5,046	225,019
Unearned Revenue	23		23
Compensated Absences	39,621	5,072	44,693
OPEB Implicit Rate Subsidy LT	7,467	2,724	10,191
<i>Total Liabilities</i>	267,084	12,842	279,926
Deferred Inflow of Resources - OPEB	3,646	1,329	4,975
Net Position Restricted for Pension Benefits	\$ 297,155,891	\$ 136,158	\$ 297,292,049

Public Employees' Retirement Board*A Component Unit of the State of Montana***Detail of Changes in Fiduciary Net Position (PERS-DCRP, PERS-DCEd)
for the Fiscal Year Ended June 30, 2020**

	PERS-DCRP	PERS-DCEd	TOTAL
Additions			
Contributions			
Employer ¹	\$ 14,434,251	\$ 76,399	\$ 14,510,650
Plan Member	14,207,961		14,207,961
Miscellaneous Revenue	77,497		77,497
Nonvested Member Forfeitures	775,195		775,195
<i>Total Contributions</i>	29,494,904	76,399	29,571,303
Investment Income			
Net Appreciation (Depreciation)			
in Fair Value of Investments	8,434,392		8,434,392
Interest	7,008,950	2,529	7,011,479
Investment Expense	(72,272)		(72,272)
<i>Net Investment Income</i>	15,371,070	2,529	15,373,599
Securities Lending Income			
Securities Lending Income			
Securities Lending Rebate and Fees			
<i>Net Securities Lending Income</i>			
Total Net Investment Income	15,371,070	2,529	15,373,599
Total Additions	44,865,974	78,928	44,944,902
Deductions			
Distributions	9,859,130		9,859,130
OPEB Expenses	728	265	993
Administrative Expenses	578,828	98,821	677,649
Miscellaneous Expenses	330,467		330,467
Total Deductions	10,769,153	99,086	10,868,239
Net Increase (Decrease)	34,096,821	(20,158)	34,076,663
Net Position Restricted for Pension Benefits			
Beginning of Year	263,053,142	154,951	263,208,093
Prior Year Adjustments	5,928	1,365	7,293
End of Year	\$ 297,155,891	\$ 136,158	\$ 297,292,049

¹Employer contributions include State contributions that are listed separately on the main financial statements of this section.

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INVESTMENT SECTION

MONTANA BOARD OF INVESTMENTS

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Helena, MT 59601

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PO Box 200126
Helena, MT 59620-0126



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PERS Annual Report Investment Letter

For the fiscal year ended June 30, 2020

The 2020 fiscal year net return of 2.71% marks the eleventh consecutive year of positive returns for the Public Employees' Retirement System (PERS). Net return performance for PERS since inception was 7.47% annualized. Returns over the five, seven and ten-year time frames ranked in the top quartile versus a public fund, peer universe. Similar returns were realized for all other MPERA retirement systems.

The asset allocation approved by the Montana Board of Investments (MBOI) is designed to reach the pension funds strategic objective while minimizing risk. It provides a framework to capture gains over the long-term while protecting against unmanageable losses during periodic economic declines.

Returns across asset classes were volatile in fiscal year 2020 as the COVID-19 pandemic and subsequent economic disruption rippled across markets. Core Fixed Income (6.7%), Domestic Equity (5.2%), Private Investments (3.23%), Cash (1.65%), Real Estate (0.74%) and Non-Core Fixed Income (0.43%) all posted positive returns as investors generally sought safety in more conservative asset classes and U.S. dollar denominated investments. Natural Resources (-18.6%) and International Equity (-3.7%) posted negative returns as energy prices collapsed and global economies struggled.

Going forward, some of the challenges facing the markets include: the ongoing pandemic, domestic and geopolitical tensions, historically low interest rates, and long-term shifts in the supply and demand of goods and services.

Despite the challenges, MBOI continues to pursue attractive opportunities in the market that are additive to the portfolio over an extended time frame. We expect periods of extreme market volatility and continually mitigate risks in order to meet the liquidity needs of the pension plans. MBOI believes that disciplined execution of our investment process will help us achieve the long-term objectives of the pension plans.

Respectfully submitted,

/s/ Jon Putnam

Jon Putnam, CFA, FRM, CAIA
Chief Investment Officer
Montana Board of Investments

Public Employees' Retirement Board

A Component Unit of the State of Montana

Report on Investment Activity

Introduction

The Montana Constitution and various Montana statutes govern the investment activity of the retirement funds administered by the Public Employees' Retirement Board (PERB). The "prudent expert principle" contained in the Montana Constitution and Montana statute requires the fiduciaries of the funds, including the Montana Board of Investments (BOI), to discharge their duties in the same manner that a prudent expert acting in a fiduciary capacity with the same resources, familiar with like matters, and under the same circumstances, exercises in the conduct of an enterprise of a similar character with similar objectives.

The prudent expert principle permits diversification of the holdings of the fund to minimize the risk of loss and maximize the rate of return. The opportunity to diversify among various asset classes enables a fund to reduce volatility and increase returns.

The BOI prepares and provides for the PERB information related to the defined benefit plan investments, including the PERS-DCRP Disability OPEB Plan. The Montana Public Employee Retirement Administration (MPERA), staff of the PERB, is responsible for the presentation of the report of investment activity.

Investment Goals and Objectives

The goals influencing the investment activity for the PERB are two-fold. The first is to realize compounded rates of return sufficient to fund benefits as provided for in statute. The second is to provide services at the lowest possible cost to employers and members. The investment objective of BOI is the achievement of a total rate of return greater than the assumed actuarial return over the long term.

In addition, BOI seeks to outperform the appropriate market benchmarks for each asset class year to year and provide returns comparable to those attained by similar public fund peers.

To calculate the PERB's defined benefit plan investment returns, State Street Bank, BOI's custodial bank and an independent third party, uses the time-weighted total rate of return method.

Risk Tolerance

In view of the long-term horizon of the pension plans, subject to the need for sufficient liquidity to pay benefits, all funds have an above-average ability to assume risk.

Investment Management and Results

The funds of each defined benefit system are invested by BOI as part of the Unified Investment Program. The portfolio is broadly diversified between the various asset classes including, but not limited to, stocks, bonds, real estate, and private investments. A complete list of portfolio information is available through BOI. State Street Bank compiles the rates of return for the

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investments. The total rates of return for fiscal year 2020 are reported by the BOI for each defined benefit fund. The following tables are a summary of the information received from the BOI.

TOTAL RATES OF ANNUALIZED RETURN BY ASSET CLASS

12-Month Period ending June 30, 2020

Asset Class	<u>INDEX</u>	<u>PERS-DBRP</u>	<u>JRS</u>	<u>HPORS</u>	<u>SRS</u>
Cash Equivalents (STIP)		1.61 %	1.61 %	1.61 %	1.61 %
Libor 1 Month	1.26 %				
Total Plan		2.71 %	2.71 %	2.72 %	2.70 %
Index Composite¹		0.54 %	0.54 %	0.55 %	0.53 %

	<u>INDEX</u>	<u>GWPORS</u>	<u>MPORS</u>	<u>FURS</u>	<u>VFCA</u>
Cash Equivalents (STIP)		1.61 %	1.61 %	1.61 %	1.61 %
Libor 1 Month	1.26%				
Total Plan		2.69 %	2.74 %	2.73 %	2.73 %
Index Composite¹		0.53 %	0.52 %	0.52 %	0.53 %

¹ From inception to 3/31/2017:

The portfolio weighted average of S&P 1500 Super Composite, MSCI ACWI ex US IMI Net, S&P 1500 + 4% Qtr Lag, LIBOR 1 Month, BBG BARC US Agg, and NCREIF ODCE 1 Qtr Lag (Net)

From 4/1/2017 to present:

Equity and Cash Equivalents weighted average of CAPP Custom Benchmark and Short Term Custom Benchmark

The rates of return are provided by State Street Bank, the BOI's custodial bank for the plans. Performance calculations were prepared using time-weighted rates of return and are reported net of all management fees and expenses, unless otherwise indicated.

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TOTAL RATES OF ANNUALIZED RETURN BY ASSET CLASS

Three-Year Period ending June 30, 2020

Asset Class	<u>INDEX</u>	<u>PERS-DBRP</u>	<u>JRS</u>	<u>HPORS</u>	<u>SRS</u>
Cash Equivalents (STIP)		1.82 %	1.82 %	1.82 %	1.82 %
Libor 1 Month	1.69 %				
Total Plan		5.72 %	5.73 %	5.73 %	5.72 %
Index Composite¹		3.45 %	3.46 %	3.46 %	3.45 %

	<u>INDEX</u>	<u>GWPORS</u>	<u>MPORS</u>	<u>FURS</u>	<u>VFCA</u>
Cash Equivalents (STIP)		1.82 %	1.82 %	1.82 %	1.82 %
Libor 1 Month	1.69 %				
Total Plan		5.72 %	5.73 %	5.73 %	5.73 %
Index Composite¹		3.45 %	3.44 %	3.44 %	3.44 %

¹ From inception to 3/31/2017:

The portfolio weighted average of S&P 1500 Super Composite, MSCI ACWI ex US IMI Net, S&P 1500 + 4% Qtr Lag, LIBOR 1 Month, BBG BARC US Agg, and NCREIF ODCE 1 Qtr Lag (Net)

From 4/1/2017 to present:

Equity and Cash Equivalents weighted average of CAPP Custom Benchmark and Short Term Custom Benchmark

The rates of return are provided by State Street Bank, the BOI's custodial bank for the plans. Performance calculations were prepared using time-weighted rates of return and are reported net of all management fees and expenses, unless otherwise indicated.

TOTAL RATES OF ANNUALIZED RETURN BY ASSET CLASS

Five-Year Period ending June 30, 2020

Asset Class	<u>INDEX</u>	<u>PERS-DBRP</u>	<u>JRS</u>	<u>HPORS</u>	<u>SRS</u>
Cash Equivalents (STIP)		1.34 %	1.34 %	1.34 %	1.34 %
Libor 1 Month	1.24 %				
Total Plan		6.19 %	6.20 %	6.19 %	6.19 %
Index Composite¹		4.98 %	4.99 %	4.98 %	4.98 %

	<u>INDEX</u>	<u>GWPORS</u>	<u>MPORS</u>	<u>FURS</u>	<u>VFCA</u>
Cash Equivalents (STIP)		1.34 %	1.34 %	1.34 %	1.34 %
Libor 1 Month	1.24 %				
Total Plan		6.19 %	6.20 %	6.20 %	6.16 %
Index Composite¹		4.99 %	4.97 %	4.97 %	4.97 %

¹ From inception to 3/31/2017:

The portfolio weighted average of S&P 1500 Super Composite, MSCI ACWI ex US IMI Net, S&P 1500 + 4% Qtr Lag, LIBOR 1 Month, BBG BARC US Agg, and NCREIF ODCE 1 Qtr Lag (Net)

From 4/1/2017 to present:

Equity and Cash Equivalents weighted average of CAPP Custom Benchmark and Short Term Custom Benchmark

The rates of return are provided by State Street Bank, the BOI's custodial bank for the plans. Performance calculations were prepared using time-weighted rates of return and are reported net of all management fees and expenses, unless otherwise indicated.

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TOTAL RATES OF ANNUALIZED RETURN BY ASSET CLASS

Ten-Year Period ending June 30, 2020

Asset Class	<u>INDEX</u>	<u>PERS-DBRP</u>	<u>JRS</u>	<u>HPORS</u>	<u>SRS</u>
Cash Equivalents (STIP)		0.78 %	0.78 %	0.78 %	0.78 %
Libor 1 Month	0.72 %				
Total Plan		8.84 %	8.83 %	8.84 %	8.82 %
Index Composite¹		0.00 %	0.00 %	0.00 %	0.00 %

	<u>INDEX</u>	<u>GWPORS</u>	<u>MPORS</u>	<u>FURS</u>	<u>VFCA</u>
Cash Equivalents (STIP)		0.78 %	0.78 %	0.78 %	0.78 %
Libor 1 Month	0.72 %				
Total Plan		8.82 %	8.83 %	8.82 %	8.82 %
Index Composite¹		0.00 %	0.00 %	0.00 %	0.00 %

¹ From inception to 3/31/2017:

The portfolio weighted average of S&P 1500 Super Composite, MSCI ACWI ex US IMI Net, S&P 1500 + 4% Qtr Lag, LIBOR 1 Month, BBG BARC US Agg, and NCREIF ODCE 1 Qtr Lag (Net)

From 4/1/2017 to present:

Equity and Cash Equivalents weighted average of CAPP Custom Benchmark and Short Term Custom Benchmark

The rates of return are provided by State Street Bank, the BOI's custodial bank for the plans. Performance calculations were prepared using time-weighted rates of return and are reported net of all management fees and expenses, unless otherwise indicated.

Asset Allocation

Asset allocation is the main determinant of investment returns, and will therefore impact the BOI's success in meeting long-term investment objectives. The asset allocation table below represents a diversified mix of asset classes designed to meet the long-term return needs of the plans while balancing this objective with risk and liquidity considerations. The actual asset mix as of fiscal year end 2020 is listed in the table below, along with the approved allocation ranges for the short term investment pool (STIP), the 8 underlying asset classes of the CAPP and CAPP STIP.

Fiscal Year 2020 ASSET ALLOCATION					
	Allocation Range	Actual Investment		Allocation Range	Actual Investment
PERS-DBRP			GWPRS		
STIP	0% to 4%	1.05%	STIP	0% to 4%	1.18%
Domestic Equity	24% to 36%	31.23%	Domestic Equity	24% to 36%	31.19%
International Equities	11% to 21%	16.93%	International Equities	11% to 21%	16.91%
Private Investments	11% to 17%	13.09%	Private Investments	11% to 17%	13.07%
Natural Resources	1% to 7%	3.07%	Natural Resources	1% to 7%	3.06%
Real Estate	5% to 13%	8.57%	Real Estate	5% to 13%	8.56%
Core Fixed Income	15% to 25%	20.07%	Core Fixed Income	15% to 25%	20.05%
Non-Core Fixed Income	3% to 7%	4.39%	Non-Core Fixed Income	3% to 7%	4.38%
Cash Equivalents (CAPP STIP)	0% to 4%	1.60%	Cash Equivalents (CAPP STIP)	0% to 4%	1.60%
JRS			MPORS		
STIP	0% to 4%	1.07%	STIP	0% to 4%	0.98%
Domestic Equity	24% to 36%	31.22%	Domestic Equity	24% to 36%	31.25%
International Equities	11% to 21%	16.93%	International Equities	11% to 21%	16.94%
Private Investments	11% to 17%	13.09%	Private Investments	11% to 17%	13.10%
Natural Resources	1% to 7%	3.07%	Natural Resources	1% to 7%	3.07%
Real Estate	5% to 13%	8.57%	Real Estate	5% to 13%	8.58%
Core Fixed Income	15% to 25%	20.07%	Core Fixed Income	15% to 25%	20.09%
Non-Core Fixed Income	3% to 7%	4.38%	Non-Core Fixed Income	3% to 7%	4.39%
Cash Equivalents (CAPP STIP)	0% to 4%	1.60%	Cash Equivalents (CAPP STIP)	0% to 4%	1.60%
HPORS			FURS		
STIP	0% to 4%	1.20%	STIP	0% to 4%	0.99%
Domestic Equity	24% to 36%	31.18%	Domestic Equity	24% to 36%	31.24%
International Equities	11% to 21%	16.91%	International Equities	11% to 21%	16.94%
Private Investments	11% to 17%	13.07%	Private Investments	11% to 17%	13.10%
Natural Resources	1% to 7%	3.06%	Natural Resources	1% to 7%	3.07%
Real Estate	5% to 13%	8.56%	Real Estate	5% to 13%	8.58%
Core Fixed Income	15% to 25%	20.04%	Core Fixed Income	15% to 25%	20.08%
Non-Core Fixed Income	3% to 7%	4.38%	Non-Core Fixed Income	3% to 7%	4.39%
Cash Equivalents (CAPP STIP)	0% to 4%	1.60%	Cash Equivalents (CAPP STIP)	0% to 4%	1.61%
SRS			VFCA		
STIP	0% to 4%	1.08%	STIP	0% to 4%	2.02%
Domestic Equity	24% to 36%	31.22%	Domestic Equity	24% to 36%	30.92%
International Equities	11% to 21%	16.93%	International Equities	11% to 21%	16.77%
Private Investments	11% to 17%	13.08%	Private Investments	11% to 17%	12.96%
Natural Resources	1% to 7%	3.07%	Natural Resources	1% to 7%	3.04%
Real Estate	5% to 13%	8.57%	Real Estate	5% to 13%	8.49%
Core Fixed Income	15% to 25%	20.07%	Core Fixed Income	15% to 25%	19.87%
Non-Core Fixed Income	3% to 7%	4.38%	Non-Core Fixed Income	3% to 7%	4.34%
Cash Equivalents (CAPP STIP)	0% to 4%	1.60%	Cash Equivalents (CAPP STIP)	0% to 4%	1.59%

INVESTMENT SECTION

PERS-DCRP Disability OPEB

Pursuant to MPERA and BOI's plan to provide diversification of PERS-DCRP Disability OPEB assets, the assets were further diversified into longer term asset classes during the fiscal year ending June 30, 2016. In prior fiscal years, the assets had been solely invested in the STIP.

Investment Fees and Commissions

Throughout the fiscal year, the investment expense for certain investments are netted against the investment earnings. At year end, investment earnings are "grossed up" to report the investment expense for the external manager, custodial bank fees and the BOI administrative cost. This process was implemented July 1, 1995, in compliance with GASB Statement No. 25.

Fiscal 2020 BOI Administrative Expense, Fees, and Commissions										
	<u>PERS</u>	<u>PERS-DC Disability OPEB</u>	<u>JRS</u>	<u>HPORS</u>	<u>SRS</u>	<u>GWPORS</u>	<u>MPORS</u>	<u>FURS</u>	<u>VFCA</u>	<u>TOTAL</u>
CAPP	\$31,219,341		\$559,091	\$ 806,086	\$2,022,308	\$1,113,120	\$2,307,056	\$ 2,433,615	\$ 205,717	\$40,666,334
STIP	119,916		2,096	3,220	8,009	4,360	8,857	9,499	727	156,684
SMI¹		13,333								13,333
Totals	\$31,339,257	\$ 13,333	\$561,187	\$ 809,306	\$2,030,317	\$1,117,480	\$2,315,913	\$ 2,443,114	\$ 206,444	\$40,836,351

¹SMI is the acronym for Separately Managed Investments, which PERS-DC Disability OPEB is invested in Equity Investments.

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INVESTMENT SECTION

Public Employees' Retirement Board

A Component Unit of the State of Montana

Largest Holdings (by portfolio base market value)

as of June 30, 2020

(in thousands)

A complete list of the portfolio holdings can be obtained by contacting the Montana Board of Investments. The information below is PERB's presentation of the largest holdings.

Par Value	Domestic Equity Pension Asset Class	Base Market Value
\$ 888,838	MICROSOFT CORP	\$ 180,887,421
484,274	APPLE INC	176,663,155
147,150,677	DIMENSIONAL FUND ADVISORS INC	147,150,677
51,422	AMAZON.COM INC	141,864,042
402,093	SPDR S+P 500 ETF TRUST	123,989,397
92,469,519	BLK MSCI USA SMALL CAP EQ	92,469,519
43,288	ALPHABET INC CL C	61,192,350
242,323	FACEBOOK INC CLASS A	55,024,284
32,596	ALPHABET INC CL A	46,222,758
239,445	JOHNSON + JOHNSON	33,673,150

PERS' shares represent 49.54% of the total Domestic Equity Pension Asset Class at market.

JRS' shares represent 0.90% of the total Domestic Equity Pension Asset Class at market.

HPORS' shares represent 1.28% of the total Domestic Equity Pension Asset Class at market.

SRS' shares represent 3.25% of the total Domestic Equity Pension Asset Class at market.

GWPORS' shares represent 1.80% of the total Domestic Equity Pension Asset Class at market.

MPORS' shares represent 3.68% of the total Domestic Equity Pension Asset Class at market.

FURS' shares represent 3.90% of the total Domestic Equity Pension Asset Class at market.

VFCA's shares represent 0.34% of the total Domestic Equity Pension Asset Class at market.

Par Value	International Equity Pension Asset Class	Base Market Value
\$ 875,612,601	ACWI EX US SUPERFUN	\$ 875,612,601
2,324,000	ISHARES MSCI EAFE ETF	141,461,880
81,336,739	DFA INTERNATIONAL SMALL COMPAN	81,336,739
1,520,300	ISHARES MSCI EMERGING MARKETS	60,796,797
25,054,781	DFA EMERGING MARKETS SMALL CAP	25,054,781
18,190,008	STATE STREET BANK + TRUST CO	18,190,008
151,641	NOVARTIS AG REG	13,190,070
193,200	TENCENT HOLDINGS LTD	12,428,894
56,809	ALIBABA GROUP HOLDING SP ADR	12,253,701
250,596	SAMSUNG ELECTRONICS CO LTD	11,000,099

PERS' shares represent 49.54% of the total International Equity Pension Asset Class at market.

JRS' shares represent 0.90% of the total International Equity Pension Asset Class at market.

HPORS' shares represent 1.28% of the total International Equity Pension Asset Class at market.

SRS' shares represent 3.25% of the total International Equity Pension Asset Class at market.

GWPORS' shares represent 1.80% of the total International Equity Pension Asset Class at market.

MPORS' shares represent 3.68% of the total International Equity Pension Asset Class at market.

FURS' shares represent 3.90% of the total International Equity Pension Asset Class at market.

VFCA's shares represent 0.34% of the total International Equity Pension Asset Class at market.

Public Employees' Retirement Board*A Component Unit of the State of Montana***Largest Holdings (by portfolio base market value)****as of June 30, 2020****(in thousands)**

Par Value	Private Investments Pension Asset Class	Base Market Value
\$ 56,440,430	OCP ASIA FUND III LP	\$ 61,781,388
54,073,330	DEERPATH CAPITAL ADVANTAGE IV	49,781,097
335,264	ISHARES RUSSELL 2000 ETF	48,003,100
28,856,732	AXIOM ASIA IV LP	42,392,213
22,015,555	NORTHGATE V LP	42,210,467
14,876,101	GRIDIRON CAPITAL FUND III	40,324,066
35,126,770	VIDA INSURANCE CRD OPP FD II	39,234,635
24,866,135	ORCHARD LANDMARK II LP	38,590,301
16,210,787	VERITAS CAPITAL FUND V LP	37,621,962
7,453,160	AXIOM ASIA PRIVATE CAP FND III	36,885,279

PERS' shares represent 49.54% of the total Private Investments Pension Asset Class at market.

JRS' shares represent 0.90% of the total Private Investments Pension Asset Class at market.

HPORS' shares represent 1.28% of the total Private Investments Pension Asset Class at market.

SRS' shares represent 3.25% of the total Private Investments Pension Asset Class at market.

GWPORS' shares represent 1.80% of the total Private Investments Pension Asset Class at market.

MPORS' shares represent 3.68% of the total Private Investments Pension Asset Class at market.

FURS' shares represent 3.90% of the total Private Investments Pension Asset Class at market.

VFCA's shares represent 0.34% of the total Private Investments Pension Asset Class at market.

Par Value	Natural Resources Pension Asset Class	Base Market Value
\$ 37,403,808	MOLPUS WOODLANDS FUND III LP	\$ 41,814,540
25,077,667	ORM TIMBER FUND III LLC	28,509,821
19,487,940	MOUNTAIN CAPITAL PARTNERS, LP	21,768,380
16,522,477	WARWICK PARTNERS III, L.P.	20,700,103
14,999,797	RMS FOREST GROWTH III LP	20,037,419
18,458,552	EIF US POWER FUND IV LP	19,724,643
21,301,373	DENHAM INTL POWER FUND LP	19,653,477
14,092,176	ARCLIGHT ENERGY PART FD VI LP	12,576,845
13,110,104	KIMMERIDGE ENERGY EXPLOR FD V	11,280,904
10,640,376	TRILANTIC ENERGY	10,683,874

PERS' shares represent 49.54% of the total Natural Resources Pension Asset Class at market.

JRS' shares represent 0.90% of the total Natural Resources Pension Asset Class at market.

HPORS' shares represent 1.28% of the total Natural Resources Pension Asset Class at market.

SRS' shares represent 3.25% of the total Natural Resources Pension Asset Class at market.

GWPORS' shares represent 1.80% of the total Natural Resources Pension Asset Class at market.

MPORS' shares represent 3.68% of the total Natural Resources Pension Asset Class at market.

FURS' shares represent 3.90% of the total Natural Resources Pension Asset Class at market.

VFCA's shares represent 0.34% of the total Natural Resources Pension Asset Class at market.

INVESTMENT SECTION

Public Employees' Retirement Board

A Component Unit of the State of Montana

Largest Holdings (by portfolio base market value)

as of June 30, 2020

(in thousands)

Par Value	Real Estate Pension Asset Class	Base Market Value
\$ 14,537,585	FIDELITY ADVISOR SER IV	\$ 105,542,870
48,861	PRISA LP	86,561,435
26,284	552992935 JPM STRATEGIC PROPRT	82,543,592
644	AMERICAN CORE REALTY FUND LLC	82,212,705
64,561	HEITMAN AMERICA RE TRUST LP	76,613,556
6,956	UBS TRUMBULL PROPERTY FUND	73,465,837
587,720	CENTERSQUARE DOMESTIC REIT MU6	53,288,285
26,746,177	BKM INDUSTRIAL VALUE FUND II	28,268,221
21,448,140	CBRE STRATEGIC PART US VALUE 8	24,478,269
14,204,059	STOLTZ REAL ESTATE FUND V	23,719,514

PERS' shares represent 49.54% of the total Real Estate Pension Asset Class at market.

JRS' shares represent 0.90% of the total Real Estate Pension Asset Class at market.

HPORS' shares represent 1.28% of the total Real Estate Pension Asset Class at market.

SRS' shares represent 3.25% of the total Real Estate Pension Asset Class at market.

GWPORS' shares represent 1.80% of the total Real Estate Pension Asset Class at market.

MPORS' shares represent 3.68% of the total Real Estate Pension Asset Class at market.

FURS' shares represent 3.90% of the total Real Estate Pension Asset Class at market.

VFCA's shares represent 0.34% of the total Real Estate Pension Asset Class at market.

Par Value	Core Fixed Income Pension Asset Class	Base Market Value
\$ 321,170,000	US TREASURY N/B	\$ 373,156,563
226,571,595	TSY INFL IX N/B	245,950,389
75,000,000	FEDERAL FARM CREDIT BANK	79,926,400
68,809,777	STATE STREET BANK + TRUST CO	68,809,777
51,557,169	FANNIE MAE	54,408,106
44,184,611	FRESB MULTIFAMILY MORTGAGE PAS	46,637,571
41,794,231	JP MORGAN MORTGAGE TRUST	42,883,357
39,751,991	GOVERNMENT NATIONAL MORTGAGE A	41,154,576
27,000,000	FEDERAL HOME LOAN BANK	30,013,360
26,617,794	FED HM LN PC POOL QK0093	28,071,477

PERS' shares represent 49.54% of the total Core Fixed Income Pension Asset Class at market.

JRS' shares represent 0.90% of the total Core Fixed Income Pension Asset Class at market.

HPORS' shares represent 1.28% of the total Core Fixed Income Pension Asset Class at market.

SRS' shares represent 3.25% of the total Core Fixed Income Pension Asset Class at market.

GWPORS' shares represent 1.80% of the total Core Fixed Income Pension Asset Class at market.

MPORS' shares represent 3.68% of the total Core Fixed Income Pension Asset Class at market.

FURS' shares represent 3.90% of the total Core Fixed Income Pension Asset Class at market.

VFCA's shares represent 0.34% of the total Core Fixed Income Pension Asset Class at market.

Public Employees' Retirement Board*A Component Unit of the State of Montana***Largest Holdings (by portfolio base market value)****as of June 30, 2020****(in thousands)**

Par Value	Non-Core Fixed Income Pension Asset Class	Base Market Value
\$ 14,197,305	STATE STREET BANK + TRUST CO	\$ 14,197,305
9,310,000	FORD MOTOR CREDIT CO LLC	8,957,387
7,936,000	CCO HLDGS LLC/CAP CORP	8,166,160
7,968,000	BAUSCH HEALTH COS INC	8,048,376
7,745,000	CSC HOLDINGS LLC	8,030,230
8,925,000	OCCIDENTAL PETROLEUM COR	7,793,251
6,755,000	KRAFT HEINZ FOODS CO	7,334,027
7,503,000	TRANSDIGM INC	7,126,628
6,798,000	HCA INC	7,110,433
6,907,000	IRON MOUNTAIN INC	6,841,869

PERS' shares represent 49.54% of the total Non-Core Fixed Income Pension Asset Class at market.

JRS' shares represent 0.90% of the total Non-Core Fixed Income Pension Asset Class at market.

HPORS' shares represent 1.28% of the total Non-Core Fixed Income Pension Asset Class at market.

SRS' shares represent 3.25% of the total Non-Core Fixed Income Pension Asset Class at market.

GWPORS' shares represent 1.80% of the total Non-Core Fixed Income Pension Asset Class at market.

MPORS' shares represent 3.68% of the total Non-Core Fixed Income Pension Asset Class at market.

FURS' shares represent 3.90% of the total Non-Core Fixed Income Pension Asset Class at market.

VFCA's shares represent 0.34% of the total Non-Core Fixed Income Pension Asset Class at market.

Par Value	Cash Equivalents Pension Asset Class	Base Market Value
\$ 141,615,981	SHORT TERM INVESTMENT POOL	\$ 243,079,792
47,205,914	STATE STREET BANK + TRUST CO	47,205,914

PERS' shares represent 49.54% of the total Cash Equivalents Pension Asset Class at market.

JRS' shares represent 0.90% of the total Cash Equivalents Pension Asset Class at market.

HPORS' shares represent 1.28% of the total Cash Equivalents Pension Asset Class at market.

SRS' shares represent 3.25% of the total Cash Equivalents Pension Asset Class at market.

GWPORS' shares represent 1.80% of the total Cash Equivalents Pension Asset Class at market.

MPORS' shares represent 3.68% of the total Cash Equivalents Pension Asset Class at market.

FURS' shares represent 3.90% of the total Cash Equivalents Pension Asset Class at market.

VFCA's shares represent 0.34% of the total Cash Equivalents Pension Asset Class at market.

INVESTMENT SECTION

Public Employees' Retirement Board

A Component Unit of the State of Montana

Investment Summary

as of June 30, 2020

(in thousands)

	PERS-DBRP ¹		JRS		HPORS		SRS	
Type of Investment	Fair value	% of Total Fair Value	Fair Value	% of Total Fair Value	Fair Value	% of Total Fair Value	Fair Value	% of Total Fair Value
<i>Fixed Income</i>								
Core Fixed Income	\$ 1,171,470	20.07 %	\$ 21,210	20.07 %	\$ 30,314	20.04 %	\$ 76,942	20.07 %
Non-Core Fixed Income	255,935	4.39 %	4,634	4.38 %	6,623	4.38 %	16,810	4.38 %
Cash Equivalents	93,574	1.60 %	1,694	1.60 %	2,421	1.60 %	6,146	1.60 %
<i>Equities</i>								
Domestic Equity	1,822,474	31.23 %	32,998	31.22 %	47,161	31.18 %	119,700	31.22 %
International Equity	988,389	16.93 %	17,895	16.93 %	25,577	16.91 %	64,917	16.93 %
<i>Alternative Investments</i>								
Private Investments	763,921	13.09 %	13,831	13.09 %	19,768	13.07 %	50,174	13.08 %
Natural Resources	179,056	3.07 %	3,242	3.07 %	4,633	3.06 %	11,760	3.07 %
Real Estate	500,329	8.57 %	9,059	8.57 %	12,947	8.56 %	32,861	8.57 %
<i>Short Term Investments</i>								
Short Term Investments Pool (STIP) ¹	61,330	1.05 %	1,127	1.07 %	1,822	1.20 %	4,152	1.08 %
Total	\$ 5,836,478	100.00 %	\$ 105,690	100.00 %	\$ 151,266	100.00 %	\$ 383,462	100.00 %

¹ These figures only include those of the PERS-Defined Benefit Retirement Plan, whereas the financial statements include the total in the Defined Benefit Retirement Plan and the Defined Benefit Education Program.

Public Employees' Retirement Board*A Component Unit of the State of Montana***Investment Summary***as of June 30, 2020**(in thousands)*

	GWPORS		MPORS		FURS		VFCA	
Type of Investment	Fair value	% of Total Fair Value	Fair Value	% of Total Fair Value	Fair Value	% of Total Fair Value	Fair Value	% of Total Fair Value
<i>Fixed Income</i>								
Core Fixed Income	\$ 42,610	20.05 %	\$ 87,086	20.09 %	\$ 92,248	20.08 %	\$ 7,931	19.87 %
Non-Core Fixed Income	9,309	4.38 %	19,026	4.39 %	20,154	4.39 %	1,733	4.34 %
Cash Equivalents	3,404	1.60 %	6,956	1.60 %	7,369	1.61 %	634	1.59 %
<i>Equities</i>								
Domestic Equity	66,288	31.19 %	135,480	31.25 %	143,511	31.24 %	12,338	30.92 %
International Equity	35,951	16.91 %	73,476	16.94 %	77,832	16.94 %	6,691	16.77 %
<i>Alternative Investments</i>								
Private Investments	27,786	13.07 %	56,789	13.10 %	60,156	13.10 %	5,172	12.96 %
Natural Resources	6,513	3.06 %	13,311	3.07 %	14,100	3.07 %	1,212	3.04 %
Real Estate	18,198	8.56 %	37,194	8.58 %	39,399	8.58 %	3,387	8.49 %
<i>Short Term Investments</i>								
Short Term Investments Pool (STIP)	2,513	1.18 %	4,267	0.98 %	4,567	0.99 %	807	2.02 %
Total	\$ 212,572	100.00 %	\$ 433,585	100.00 %	\$ 459,336	100.00 %	\$ 39,905	100.00 %

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ACTUARIAL SECTION



Cavanaugh Macdonald
CONSULTING, LLC
The experience and dedication you deserve

Via Electronic Mail

October 28, 2020

Public Employees' Retirement Board
100 North Park Avenue, Suite 200
Helena, Montana 59620

Dear Members of the Board:

At your request, we have conducted the June 30, 2020 actuarial valuation for each of the eight funded pension programs administered by the Public Employees' Retirement Board. Actuarial valuations are performed annually. This valuation reflects the benefit provisions and contribution rates in effect as of July 1, 2020.

Valuation Results

The calculations have been made on a basis consistent with our understanding of the Systems' funding requirements and goals. The funding objective for each System is to pay the Normal Cost plus an amount that amortizes the Unfunded Actuarial Liability over a period of not more than 30 years. The member, employer, and state contributions are determined by statute. Our valuations demonstrate that the projected income stream from the expected contributions are sufficient to pay the Normal Costs and amortize the Unfunded Actuarial Liability as a level percentage of future payroll for the following six Systems. The amortization periods are shown below.

- Public Employees' Retirement System (PERS) 35 years
- Highway Patrol Officers' Retirement System (HPORS) 39 years
- Municipal Police Officers' Retirement System (MPORS) 16 years
- Firefighters' Unified Retirement System (FURS) 8 years
- Sheriffs' Retirement System (SRS) 21 Years
- Game Wardens' and Peace Officers' Retirement System (GWPORS) 40 Years

The amortization periods using the Market Value of Assets for all of the Systems are shown below.

- Public Employees' Retirement System (PERS) 45 years
- Highway Patrol Officers' Retirement System (HPORS) 48 years
- Municipal Police Officers' Retirement System (MPORS) 18 years
- Firefighters' Unified Retirement System (FURS) 9 years
- Sheriffs' Retirement System (SRS) 28 Years
- Game Wardens' and Peace Officers' Retirement System (GWPORS) 82 Years

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Public Employees' Retirement Board
October 28, 2020
Page 2



Based on the assumed level of future revenue, the Unfunded Actuarial Liability for the Volunteer Firefighters' Compensation Act (VFCA) is expected to be amortized over 4 years using the Actuarial Value of Assets and over 5 years using Market Value of Assets. The Judges' Retirement System (JRS) has an Actuarial Surplus as of June 30, 2020.

The changes in funded status (on an Actuarial Value of Assets basis) for each System are shown below:

	<u>2019</u>	<u>2020</u>
PERS	74%	74%
JRS	161%	163%
HPORS	65%	65%
SRS	82%	81%
GWPORS	84%	84%
MPORS	69%	71%
FURS	80%	82%
VFCA	85%	87%

The asset values used to determine unfunded liabilities are not market values but less volatile market related values. A smoothing technique is applied to market values to determine the market related values. Due to net investment gains, which are being recognized over four years, the Actuarial Value of Assets as of June 30, 2020 are more than the Market Value of Assets for all of the Systems. If the Market Value of Assets had been used to determine the funded status for these, the funded status of each of the Systems would have been lower compared to using the Actuarial Value of Assets.

HB 454 requires the PERS actuarial valuation to determine whether certain funded status and amortization thresholds are met. Once met, certain temporary employer and member contributions are discontinued. Based upon our June 30, 2020 valuation results, temporary employer and member contributions must remain in place.

At the request of the Board, we also performed a valuation as of June 30, 2020 of the PERS Long Term Disability Plan under the Defined Contribution Plan. As of June 30, 2020, the Plan has an Actuarial Surplus. The funded ratio is 111%.

Assumptions and Methods

The actuarial assumptions used in the valuations are based on an experience study for the six-year period ending June 30, 2016. The assumptions and methods used for funding purposes conform to the parameters set by accounting principles of the United States of America as promulgated by the Governmental Accounting Standards Board. In addition, the assumptions and methods used for funding purposes meet the parameters set forth by Actuarial Standards of Practice.

The actuarial assumptions reflect our understanding of the likely future experience of the System, and the assumptions as a whole represent the best estimate for the future experience of the System. Future actuarial results may differ significantly from the current results presented in this report

Public Employees' Retirement Board
October 28, 2020
Page 3



due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions; increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization period or additional cost or contribution requirements based on the plan's funded status); and changes in plan provisions or applicable law. Determinations for purposes other than meeting these requirements may be significantly different from the results in this letter. Accordingly, additional determinations may be needed for other purposes.

In order to prepare the results in this report we have utilized appropriate actuarial models that were developed for this purpose. These models use assumptions about future contingent events along with recognized actuarial approaches to develop the needed results.

We note that as we are preparing this report, the world is in the midst of a pandemic. We have considered available information, but do not believe that there is yet sufficient data to warrant the modification of any of our assumptions. We will continue to monitor the situation and advise the Board in the future of any adjustments that we believe would be appropriate.

Reliance on Others

In preparing the actuarial valuations, we relied on information supplied by the staff of the Public Employee Retirement Administration. This information includes, but is not limited to, plan provisions, employee data, and financial information. We performed an informal examination of the obvious characteristics of the data for reasonableness and consistency in accordance with Actuarial Standard of Practice No. 23.

Supporting Schedules

The following schedules in this Actuarial Section were provided by Cavanaugh Macdonald Consulting to support these actuarial results:

- Schedule of Active Member Composition
- Schedule of Retiree Member Composition
- Schedule of Disabled Member Composition
- Schedule of Converted Disabled Member Composition
- Schedule of Beneficiary Member Composition

Other information presented in this Actuarial Section as of June 30, 2020, and in various parts of the Financial and Statistical Sections is based on information found in our actuarial valuation reports. Numbers reported for years prior to the fiscal year ending June 30, 2016 were developed by the prior actuary and are reported per their valuation reports.

Public Employees' Retirement Board
October 28, 2020
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Certification

This is to certify that the independent consulting actuaries, Todd Green and Beverly Bailey, are Members of the American Academy of Actuaries and meet the qualification standards of the American Academy of Actuaries to render the actuarial opinion contained herein. They have experience in performing valuations for public retirement systems. The valuations were prepared in accordance with generally recognized and accepted actuarial principles and practices which are consistent with the Code of Professional Conduct and applicable Actuarial Standards of Practice set out by the Actuarial Standards Board. The actuarial calculations were performed by qualified actuaries in accordance with accepted actuarial procedures, based on the current provisions of the retirement system and on actuarial assumptions that are internally consistent and reasonably based on the actual experience of the System.

This letter was prepared exclusively for the Public Employees' Retirement Board for the purpose described herein. Other users of this letter are not intended users as defined in the Actuarial Standards of Practice, and Cavanaugh Macdonald Consulting LLC assumes no duty or liability to any other user.

Respectfully submitted,

/s/ Todd B. Green

Todd B. Green, ASA, FCA, MAAA
President

/s/ Beverly V. Bailey

Beverly V. Bailey, ASA, EA, FCA, MAAA
Senior Actuary

Public Employees' Retirement Board

A Component Unit of the State of Montana

Summary of Actuarial Assumptions and Methods

Background

The results of the actuarial valuation are based upon the assumptions and funding policies adopted by the PERB and statutory funding requirements. Assumptions and methods are reviewed against actual experience at least once every six years through the completion of the Actuarial Experience Study. In general, the assumptions and methods used in the June 30, 2020 valuation are based on the most recent actuarial experience study for the six-year period July 1, 2010 to June 30, 2016, adopted by the PERB on May 11, 2017. The recommendations were formed on the basis of recent experience of the plans and on the current expectations of future economic conditions. The actuarial methods, assumptions, factors, and any changes in the actuarial assumptions are described in this section.

Records and Data

The data used in the valuation consists of financial information; records of age, sex, service, salary, contribution rates, and account balances of contributing members; and records of age, sex, and amount of benefit for retired members and beneficiaries. All data supplied to the actuary by MPERA was accepted for valuation purposes without audit.

Valuation Date

The valuation date is June 30 of each year. This is the date as of which the actuarial present value of future benefits and the actuarial value of assets are determined.

Actuarial Cost Method

The actuarial valuation was prepared using the entry age actuarial cost method. Under this method, the actuarial present value of future benefits is determined for each member and allocated equitably as a level percentage over the earnings of the member between entry age and assumed exit age. The portion of the actuarial present value of future benefits allocated to the current valuation year is called the Normal Cost. The normal cost is the theoretical contribution rate, which will meet the ongoing costs of a group of average new employees. The portion of the present value of future benefits allocated to prior years of service is called the actuarial accrued liability. The portion of the actuarial liability in excess of plan assets is amortized to develop an additional cost or savings which is added to each year's employer normal cost. The unfunded actuarial accrued liability represents the difference between the actuarial accrued liability and the actuarial value of assets as of the valuation date. Actuarial gains and losses are directly reflected in the size of the unfunded actuarial liability.

Actuarial Value of Assets

Asset values were supplied by MPERA and were accepted without audit by the actuary. The Actuarial Value of Assets is the current market value, adjusted by a four-year smoothing of gains and losses on a market value basis. The asset adjustment method lessens the volatility in asset values that could occur because of fluctuations in market conditions. Each year's gain or loss is

ACTUARIAL SECTION

determined as the difference between the actual market return and the expected market return using the assumed rate of investment return.

Investment Return

The actuarial assumption for the rate of investment return is 7.65%, consisting of a price inflation assumption of 2.75% and a real rate of return assumption of 4.90%. The future investment earnings of the assets of the plans are assumed to accrue at an annual rate of 7.65%, net investment-related expenses.

Administrative Expenses and Investment Expenses

The investment expenses of the systems are assumed to be funded by investment earnings in excess of 7.65% per year.

Administrative expense amounts are recognized by an additional amount added to the normal cost contribution rate and are system specific. They vary from year to year based on each system's prior year's actual administrative expenses. The table below shows the administrative expense amounts for this fiscal year 2020 and the previous fiscal year 2019, they are assumed to be equal to a percentage of payroll. VFCA is a flat dollar amount because members are unpaid volunteers.

System	2020	2019	System	2020	2019
PERS-DBRP	0.28 %	0.30 %	GWPORS	0.17 %	0.16 %
JRS	0.11 %	0.08 %	MPORS	0.18 %	0.15 %
HPORS	0.23 %	0.18 %	FURS	0.17 %	0.13 %
SRS	0.17 %	0.16 %	VFCA	\$293,470	\$201,971

Amortization of the Unfunded Actuarial Liability (UAL)

The unfunded actuarial liability is amortized as a level percentage of future payroll, except for VFCA, which is amortized as a level dollar because there is no payroll.

Interest on Member Contributions

The actuarial assumption for the interest on member contributions is 2.75%. Interest on member contributions at the time of the valuation was assumed to accrue at a net annual rate of 2.75%, with the exception of VFCA, which has no member contributions.

Capital Preservation Premium on MPORS DROP Accounts

Effective July 1, 2009, the interest earned on MPORS DROP accounts changed from the actual trust fund earnings with a floor of zero to the actuarial assumed rate of return.

Future Salaries

Estimates of future salaries are based on two types of assumptions. Rates of increase in the general wage level of the membership are directly related to inflation, while individual salary changes due to promotion and longevity, referred to as the merit scale, occur even in the absence of inflation. The assumed increase in future salaries due to general wage growth is 3.50% per year for all plans. The merit scale is based on years of service and is in addition to the wage growth. The merit scale

is calculated independently for each plan based on the factors applicable to the plan. VFCA is excluded from this calculation because members are unpaid volunteers.

Probability of Marriage and Dependent Children

The probability of marriage assumption is 100% of all non-retired members. Male spouses are assumed to be three years older than female spouses for all systems.

If death occurs in active status, all members are assumed to have an eligible surviving spouse with no dependent children.

Mortality

The mortality assumptions among contributing members, terminated vested members, service retired members, and beneficiaries are based on RP-2000 Combined Employee and Annuitant Mortality Tables projected to 2020 using scale BB, set back one year for males.

The mortality assumptions among Disabled Retirees are based on the RP-2000 Combined Employee and Annuitant Mortality Tables with no projections. No future mortality improvement is assumed. The sample mortality rates for healthy retirees, beneficiaries and non-retired members and for the disabled retirees for all plans is presented in the following tables.

Healthy Retirees, Beneficiaries and Non-Retired Members Sample Mortality Rates		
Age	Male	Female
50	0.1879%	0.1578%
55	0.3010%	0.2458%
60	0.5271%	0.4135%
65	0.9041%	0.7624%
70	1.4636%	1.3151%
75	2.5057%	2.2077%
80	4.2816%	3.6037%
85	7.3750%	6.0833%
90	13.0721%	10.5549%

Disabled Retirees Sample Mortality Rates		
Age	Male	Female
50	0.2138%	0.1676%
55	0.3624%	0.2717%
60	0.6747%	0.5055%
65	1.2737%	0.9706%
70	2.2206%	1.6742%
75	3.7834%	2.8106%
80	6.4368%	4.5879%
85	11.0757%	7.7446%
90	18.3408 %	13.1682%

Service Retirement

The assumed rates of service retirement used in the valuations are dependent upon age and years of service and differ between plans. The rates are based on the actual experience of the individual plans. Under all plans, vested terminated members are assumed to retire when first eligible for an unreduced benefit.

Disablement

The assumed rates of disablement are dependent upon age and differ between plans. It is further assumed that 75% of all disabilities are duty related for HPORS, SRS, and GWPORS. For JRS it is assumed that 10% of all disabilities are duty-related. For PERS and VFCA all disabilities are assumed to be duty related. For MPORS and FURS there is no distinction between duty and non-duty related disabilities. It is assumed that all disabilities are permanent and that no disabled member will recover and return to work.

Other Terminations of Membership

The assumed rates of termination, other than for retirement, death, or disability, are calculated individually for each plan. The JRS does not assume termination for any reason other than retirement, death, or disability.

Terminating Members Electing a Refund

It is assumed that all terminating members that are non-vested will receive an immediate withdrawal of their member accumulated contributions. The probability of a terminating, vested member electing a refund of the member account balance is based on age and is different for each plan as described in the actuarial valuation. The actuary estimates the present value of future benefits for terminated vested members based on the greater of the present value of their deferred benefit at age 60 or their available contribution account. These assumptions do not apply to the JRS or VFCA.

Replacement of Terminated Members

The ages at entry and distribution by sex of future members are assumed to average the same as those of the present members they replace. If the number of active members should increase, it is further assumed that the average entry age of the larger group will be the same, from an actuarial standpoint, as that of the present group. Under these assumptions, the normal cost rates for active members will not vary with the termination of present members.

Actuarial Factors

Retirement actuarial factors are used in determining joint, survivor and period certain annuities.

Records with no Birth Date

New records with no birth date are assumed to be 37 years old. Records that are not new and have no birth date used the same birth date as the prior year's valuation.

Active Records with a Salary Less than \$1,000

These members are included in the active counts, however the pay of these members is not included in the Valuation Projected Salaries. The liability for these members is their accumulated member contribution payable on the valuation date. This assumption does not apply to the JRS or VFCA.

Changes Since Last Valuation

There have been no assumption, benefit, contribution or method changes since the last valuation for all Plans, except PERS-DBRP. The PERS-DBRP experienced a contribution change: an employer supplemental contribution of 0.10% increase each fiscal year through 2024. For fiscal years beginning after June 30, 2024, the supplemental employer contribution will equal 2.27% of compensation.

There were no changes in any of the Plans' provisions since the last valuation. Please refer to Note C of the Notes to the Financial Statements in the Financial Section for the Plan Provisions of all Defined Benefit and Defined Contribution Plans.

Actuarial Audit

The PERB has periodic audits performed to monitor the quality of actuarial services performed. The last actuarial audit was performed January of 2015 by Cavanaugh Macdonald Consulting, LLC, acting as an independent auditing actuary prior to becoming PERB's actuary. The audit was limited to reviewing then actuary Cheiron's work in preparing the June 30, 2014 actuarial valuation for the PERS-DBRP.

All results shown for valuations from July 1, 2009 to June 30, 2015 were derived from reports prepared by the prior actuary, Cheiron.

Calculations Based on the Market Value of Assets

Section 19-2-407, MCA requires the actuarial report to show how market performance is affecting the actuarial funding of the retirement systems. In the following table, the effect on each one of the defined benefit retirement systems is shown using the market value of assets.

System	At June 30, 2020			
	Market Value of Assets		Actuarial Value of Assets	
	Funded Ratio	Amortization Period in Years	Funded Ratio	Amortization Period in Years
PERS-DBRP	70.99 %	45	74.08 %	35
JRS	156.13 %	0	162.86 %	0
HPORS	61.80 %	48	64.52 %	39
SRS	77.91 %	28	81.24 %	21
GWPORS	80.42 %	82	83.83 %	40
MPORS	67.73 %	18	70.76 %	16
FURS	78.06 %	9	81.53 %	8
VFCA	83.37 %	5	87.15 %	4
<p>At June 30, 2020, the market value of assets for:</p> <ul style="list-style-type: none"> • PERS-DBRP was \$253.9 million less than the actuarial value of assets. • JRS was \$4.6 million less than the actuarial value of assets. Since JRS has a surplus, it has zero years to amortize the unfunded actuarial liability. • HPORS was \$6.7 million less than the actuarial value of assets. • SRS was \$16.4 million less than the actuarial value of assets. • GWPORS was \$9.0 million less than the actuarial value of assets. • MPORS was \$20.2 million less than the actuarial value of assets. • FURS was \$21.2 million less than the actuarial value of assets. • VFCA was \$1.8 million less than the actuarial value of assets. <p>These differences are due to the smoothing of investment gains and losses over a four-year period.</p>				

At June 30, 2020, the valuation of the **PERS-DCRP Disability OPEB Plan** is performed based on the market value of assets. As of June 30, 2020, the statutory contribution rates are sufficient to amortize the unfunded actuarial liability, and the funded ratio is 110.59%. The Plan's assets gained 3.86% on an annualized market value basis. This was above the assumed rate of return of 3.50%. The actuarial value of assets is set equal to the market value of assets.

A copy of the June 30, 2020 actuarial valuation reports for each Plan are available at our website, <http://mpera.mt.gov>.

ACTUARIAL SECTION

Public Employees' Retirement Board

A Component Unit of the State of Montana

Schedule of Active Member Valuation Data

System	Valuation Date	Number Members (a)	Number ERs (b)	Covered Payroll (c)	Average Annual Pay ¹ (c/a)	% Pay Increase
PERS-DBRP	June 30, 2020	29,039	548	\$ 1,280,557,497	\$ 44,098	2.20%
	June 30, 2019	28,908	546	1,247,343,733	43,149	0.48%
	June 30, 2018	28,646	544	1,230,105,350	42,942	2.45%
	June 30, 2017	29,395	539	1,232,066,537	41,914	0.36%
	June 30, 2016	28,390	535	1,185,646,179	41,763	2.11%
	June 30, 2015	28,237	539	1,154,866,605	40,899	2.25%
	June 30, 2014	28,229	541	1,129,109,402	39,998	2.90%
	June 30, 2013	28,401	540	1,103,999,865	38,872	2.63%
	June 30, 2012	28,548	538	1,081,288,177	37,876	1.32%
	June 30, 2011	28,659	533	1,071,376,488	37,384	(0.54)%
JRS	June 30, 2020	58	1	8,001,462	137,956	8.38%
	June 30, 2019	58	1	7,382,476	127,284	(3.98)%
	June 30, 2018	55	1	7,290,904	132,562	6.44%
	June 30, 2017	56	1	6,974,470	124,544	(1.02)%
	June 30, 2016	55	1	6,920,367	125,825	6.07%
	June 30, 2015	55	1	6,524,569	118,629	2.67%
	June 30, 2014	55	1	6,354,763	115,541	(0.58)%
	June 30, 2013	54	1	6,275,682	116,216	1.34%
	June 30, 2012	54	1	6,192,732	114,680	9.70%
	June 30, 2011	54	1	5,645,110	104,539	(6.25)%
HPORS²	June 30, 2020	233	1	15,607,832	66,986	2.39%
	June 30, 2019	232	1	15,177,612	65,421	(0.05)%
	June 30, 2018	233	1	15,251,339	65,456	0.98%
	June 30, 2017	228	1	14,778,975	64,820	(5.80)%
	June 30, 2016	222	1	15,275,964	68,811	13.98%
	June 30, 2015	241	1	14,549,378	60,371	(2.29)%
	June 30, 2014	229	1	14,149,269	61,787	0.35%
	June 30, 2013	219	1	13,484,125	61,571	(1.43)%
	June 30, 2012	218	1	13,617,653	62,466	7.19%
	June 30, 2011	214	1	12,471,575	58,278	2.82%
SRS	June 30, 2020	1,502	57	84,942,848	56,553	2.20%
	June 30, 2019	1,454	57	80,461,048	55,338	1.92%
	June 30, 2018	1,429	57	77,587,294	54,295	3.01%
	June 30, 2017	1,415	57	74,581,258	52,708	1.84%
	June 30, 2016	1,364	57	70,593,304	51,755	1.61%
	June 30, 2015	1,336	57	68,045,517	50,932	2.93%
	June 30, 2014	1,307	57	64,672,635	49,482	2.72%
	June 30, 2013	1,276	57	61,467,169	48,172	0.33%
	June 30, 2012	1,241	57	59,582,678	48,012	3.53%
	June 30, 2011	1,230	57	57,041,471	46,375	0.16%

¹ Average Annual Pay is based on Covered Payroll. Prior to FY2016 the prior actuary Cheiron used annualized salaries and not actual covered payroll. This schedule uses the number of members and number of employers that are found in the Financial Section of this report and not the adjusted actuarial numbers used in the *Schedule of Active Member Composition*. The last actuarial valuation was performed as of June 30, 2020.

System	Valuation Date	Number Members (a)	Number ERs (b)	Covered Payroll (c)	Average Annual Pay ¹ (c/a)	% Pay Increase
GWPORS	June 30, 2020	1,033	7	\$ 53,825,163	\$ 52,106	2.95%
	June 30, 2019	1,021	7	51,676,963	50,614	0.58%
	June 30, 2018	1,010	7	50,823,150	50,320	3.13%
	June 30, 2017	1,012	7	49,381,004	48,795	2.44%
	June 30, 2016	989	7	47,108,310	47,632	5.38%
	June 30, 2015	993	7	44,884,739	45,201	3.68%
	June 30, 2014	955	7	41,636,566	43,598	7.25%
	June 30, 2013	971	7	39,471,105	40,650	3.12%
	June 30, 2012	972	7	38,316,733	39,421	(2.13)%
	June 30, 2011	951	7	38,306,496	40,280	(1.33)%
MPORS²	June 30, 2020	829	33	56,783,680	68,497	1.71%
	June 30, 2019	806	33	54,282,431	67,348	1.86%
	June 30, 2018	787	33	52,035,958	66,119	(1.10)%
	June 30, 2017	727	33	48,603,580	66,855	(0.64)%
	June 30, 2016	702	32	47,233,801	67,285	2.10%
	June 30, 2015	694	32	45,736,127	65,902	3.10%
	June 30, 2014	695	32	44,426,617	63,923	4.26%
	June 30, 2013	698	31	42,795,697	61,312	2.96%
	June 30, 2012	701	31	41,744,760	59,550	5.91%
	June 30, 2011	702	31	39,470,441	56,226	4.99%
FURS	June 30, 2020	735	27	53,858,929	73,277	4.24%
	June 30, 2019	722	27	50,756,445	70,300	1.34%
	June 30, 2018	691	27	47,934,517	69,370	4.04%
	June 30, 2017	678	27	45,208,091	66,679	(0.41)%
	June 30, 2016	644	26	43,118,925	66,955	0.85%
	June 30, 2015	627	26	41,627,233	66,391	2.52%
	June 30, 2014	616	25	39,891,869	64,760	4.06%
	June 30, 2013	610	25	37,962,748	62,234	1.50%
	June 30, 2012	590	24	36,176,675	61,316	1.87%
	June 30, 2011	579	24	34,852,160	60,194	2.91%
VFCA	June 30, 2020	2,401				
	June 30, 2019	2,249				
	June 30, 2018	2,029				
	June 30, 2017	1,957				
	June 30, 2016	1,895				
	June 30, 2015	1,977				
	June 30, 2014	1,935				
	June 30, 2013	2,101				
	June 30, 2012	2,106				
	June 30, 2011	2,105				

Covered payroll is not applicable. Members are unpaid volunteers and do not contribute to the fund.

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Public Employees' Retirement Board

A Component Unit of the State of Montana

Schedule of Active Member Composition

as of June 30, 2020

	PERS-DBRP	JRS	HPORS ¹	SRS	GWPORS	MPORS ¹	FURS	VFCA ²	PERS-DCRP
Total Count	29,024	58	210	1,502	1,033	761	735	2,397	3,100
Average Age	47.7	57.6	38.4	39.4	41.4	37.7	39.6	45.1	46.6
Average Service	9.1	8.6	9.2	7.2	7.9	8.0	10.4	9.1	7.3
Average Salary	\$ 44,414	\$ 142,225	\$ 67,464	\$ 57,386	\$ 52,987	\$ 68,550	\$ 75,132	N/A	\$ 53,616
Under Age 25									
Number Members	1,078		15	178	78	34	27	188	63
Average Salary	\$ 24,402		\$ 56,867	\$ 42,939	\$ 35,739	\$ 43,696	\$ 50,216	N/A	\$ 37,654
Ages 25-29									
Number Members	2,098		29	216	138	134	86	243	234
Average Salary	\$ 35,489		\$ 59,336	\$ 50,482	\$ 44,495	\$ 61,337	\$ 56,473	N/A	\$ 45,493
Ages 30-34									
Number Members	2,690	1	39	232	136	159	127	253	291
Average Salary	\$ 40,598	\$ 141,417	\$ 63,698	\$ 56,737	\$ 49,954	\$ 62,598	\$ 64,858	N/A	\$ 52,562
Ages 35-39									
Number Members	3,065	1	41	206	141	160	160	277	415
Average Salary	\$ 44,214	\$ 141,417	\$ 65,642	\$ 59,419	\$ 52,883	\$ 71,372	\$ 74,519	N/A	\$ 57,337
Ages 40-44									
Number Members	3,103	5	33	181	127	104	133	264	391
Average Salary	\$ 46,529	\$ 132,097	\$ 72,783	\$ 64,102	\$ 55,007	\$ 74,369	\$ 81,714	N/A	\$ 56,516
Ages 45-49									
Number Members	3,213	3	27	158	152	93	109	259	432
Average Salary	\$ 48,025	\$ 141,417	\$ 74,606	\$ 66,697	\$ 59,851	\$ 77,128	\$ 87,352	N/A	\$ 59,074
Ages 50-54									
Number Members	3,594	10	16	149	103	52	56	262	405
Average Salary	\$ 49,142	\$ 142,734	\$ 76,666	\$ 61,661	\$ 58,115	\$ 81,312	\$ 91,612	N/A	\$ 58,138
Ages 55-59									
Number Members	4,438	13	7	102	100	22	22	241	397
Average Salary	\$ 48,072	\$ 144,455	\$ 76,127	\$ 61,077	\$ 61,158	\$ 74,829	\$ 89,055	N/A	\$ 53,805
Ages 60-64									
Number Members	3,778	12	3	62	49	1	11	187	324
Average Salary	\$ 47,645	\$ 143,567	\$ 80,782	\$ 58,437	\$ 57,512	\$ 86,233	\$ 97,599	N/A	\$ 48,657
Ages 65-69									
Number Members	1,387	8		14	8	1	4	112	112
Average Salary	\$ 41,173	\$ 141,417		\$ 55,746	\$ 60,946	\$ 97,569	\$ 74,310	N/A	\$ 42,938
Age 70 & Over									
Number Members	580	5		4	1	1		111	36
Average Salary	\$ 30,749	\$ 144,422		\$ 70,447	\$ 66,992	\$ 123,300		N/A	\$ 27,840

¹ The number of members for HPORS does not include 22 DROP members; MPORS does not include 66 DROP members.

² Average Salary is not applicable to VFCA, members are unpaid volunteers.

The last actuarial valuation was performed as of June 30, 2020.

Public Employees' Retirement Board

A Component Unit of the State of Montana

Schedule of Retiree Member Composition

as of June 30, 2020

	PERS-DBRP	JRS	HPORS	SRS	GWPORS	MPORS	FURS	VFCA
Total Count	22,670	66	314	662	352	739	602	1,519
Average Age	72.8	76.3	70.2	65.6	66.4	66.7	69.3	71.9
Average Age at Retirement	61.0	65.3	50.8	54.7	57.9	50.4	52.9	60.1
Average Service at Retirement	20.2	16.3	22.8	18.6	16.5	17.9	23.5	27.5
Average Annual Benefit	\$ 19,539	\$ 57,846	\$ 37,041	\$ 29,281	\$ 22,861	\$ 33,024	\$ 42,002	\$ 2,014
Under Age 45								
Number Members	42		1	7		6	1	
Average Annual Benefit	\$ 7,064		\$ 39,552	\$ 30,797		\$ 36,161	\$ 41,589	
Ages 45-49								
Number Members	29		10	24	1	22	15	
Average Annual Benefit	\$ 13,065		\$ 34,849	\$ 36,214	\$ 6,032	\$ 38,206	\$ 39,004	
Ages 50-54								
Number Members	152		25	57	21	86	39	
Average Annual Benefit	\$ 23,794		\$ 36,905	\$ 27,076	\$ 32,331	\$ 28,465	\$ 37,755	
Ages 55-59								
Number Members	682	1	41	89	67	118	79	84
Average Annual Benefit	\$ 27,439	\$ 20,804	\$ 41,039	\$ 28,381	\$ 19,452	\$ 32,468	\$ 43,245	\$ 2,480
Ages 60-64								
Number Members	2,819	4	33	126	82	106	102	232
Average Annual Benefit	\$ 21,920	\$ 36,350	\$ 32,476	\$ 29,759	\$ 23,650	\$ 30,914	\$ 45,676	\$ 2,125
Ages 65-69								
Number Members	5,672	10	30	154	71	133	84	349
Average Annual Benefit	\$ 21,592	\$ 69,789	\$ 41,058	\$ 31,320	\$ 22,775	\$ 32,773	\$ 48,219	\$ 2,057
Ages 70-74								
Number Members	5,219	20	56	111	59	109	104	341
Average Annual Benefit	\$ 20,265	\$ 57,275	\$ 40,677	\$ 28,165	\$ 18,562	\$ 39,550	\$ 48,613	\$ 1,947
Ages 75-79								
Number Members	3,544	14	39	50	20	57	63	251
Average Annual Benefit	\$ 17,847	\$ 61,457	\$ 38,148	\$ 30,786	\$ 23,878	\$ 36,127	\$ 41,563	\$ 1,935
Ages 80 & Over								
Number Members	4,511	17	79	44	31	102	115	262
Average Annual Benefit	\$ 14,780	\$ 55,756	\$ 32,512	\$ 22,539	\$ 29,988	\$ 30,021	\$ 29,445	\$ 1,873

The last actuarial valuation was performed as of June 30, 2020.

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Public Employees' Retirement Board

A Component Unit of the State of Montana

Schedule of Beneficiary Member Composition

as of June 30, 2020

	PERS-DBRP	JRS	HPORS	SRS	GWPORS	MPORS	FURS	VFCA
Total Count	523	5	11	24	11	32	18	4
Average Age	64.3	73.6	54.4	56.1	53.2	62.3	69.9	58.2
Average Service at Retirement	18.2	14.1	12.2	13.4	13.3	11.4	14.4	23.2
Average Annual Benefit	\$ 12,447	\$ 31,504	\$ 22,611	\$ 25,733	\$ 12,605	\$ 27,342	\$ 28,594	\$ 1,856
Under Age 45								
Number Members	63		2	6	4	5	1	
Average Annual Benefit	\$ 7,743		\$ 15,647	\$ 16,893	\$ 13,224	\$ 17,510	\$ 32,147	
Ages 45-49								
Number Members	23		3	5		2	2	1
Average Annual Benefit	\$ 8,360		\$ 22,496	\$ 22,883		\$ 33,268	\$ 29,004	\$ 1,260
Ages 50-54								
Number Members	27		1	1	1	2	1	1
Average Annual Benefit	\$ 9,784		\$ 6,815	\$ 47,952	\$ 3,834	\$ 31,418	\$ 33,757	\$ 2,190
Ages 55-59								
Number Members	53		1	2		1	1	
Average Annual Benefit	\$ 11,498		\$ 7,724	\$ 50,718		\$ 28,718	\$ 22,928	
Ages 60-64								
Number Members	77		1	2	2	6	2	1
Average Annual Benefit	\$ 13,506		\$ 30,297	\$ 44,257	\$ 23,957	\$ 28,230	\$ 26,351	\$ 1,785
Ages 65-69								
Number Members	91	2		3	2	1	1	
Average Annual Benefit	\$ 13,551	\$ 43,048		\$ 11,039	\$ 7,792	\$ 28,010	\$ 34,890	
Ages 70-74								
Number Members	70	1	1	3	2	6	3	1
Average Annual Benefit	\$ 13,709	\$ 17,683	\$ 14,894	\$ 35,229	\$ 9,212	\$ 30,818	\$ 34,922	\$ 2,190
Ages 75-79								
Number Members	47	1	2			3		
Average Annual Benefit	\$ 12,080	\$ 17,928	\$ 45,104			\$ 30,703		
Ages 80 & Over								
Number Members	72	1		2		6	7	
Average Annual Benefit	\$ 16,052	\$ 35,811		\$ 12,560		\$ 25,817	\$ 25,071	

The last actuarial valuation was performed as of June 30, 2020.

Public Employees' Retirement Board

A Component Unit of the State of Montana

Schedule of Disabled Member Composition

as of June 30, 2020

	PERS-DBRP	JRS	HPORS	SRS	GWPORS	MPORS	FURS	VFCA	PERS-DCRP
Total Count	138		4	28	2	27	12	1	9
Average Age	55.5		45.8	50.6	47.2	44.2	40.0	68.5	56.9
Average Age at Disablement	48.9		37.9	42.3	41.8	38.2	35.5	60.5	52.5
Average Service at Retirement	14.9		11.2	9.6	12.4	10.4	7.7	2.3	13.9
Average Annual Benefit	\$ 13,001		\$ 33,720	\$ 29,515	\$ 12,987	\$ 33,719	\$ 30,377	\$ 1,050	\$ 11,182
Under Age 45									
Number Members	4		2	5		13	10		
Average Annual Benefit	\$ 6,348		\$ 33,449	\$ 32,760		\$ 32,621	\$ 29,126		
Ages 45-49									
Number Members	11		2	7	2	14	2		1
Average Annual Benefit	\$ 8,826		\$ 33,991	\$ 31,371	\$ 12,987	\$ 34,737	\$ 36,630		\$ 17,555
Ages 50-54									
Number Members	27			8					4
Average Annual Benefit	\$ 11,750			\$ 31,689					\$ 8,980
Ages 55-59									
Number Members	95			8					1
Average Annual Benefit	\$ 14,116			\$ 23,689					\$ 5,576
Ages 60-64									
Number Members	1								2
Average Annual Benefit	\$ 13,482								\$ 18,727
Ages 65-69									
Number Members								1	1
Average Annual Benefit								\$ 1,050	\$ 4,132
Ages 70-74									
Number Members									
Average Annual Benefit									
Ages 75-79									
Number Members									
Average Annual Benefit									
Ages 80 & Over									
Number Members									
Average Annual Benefit									

The last actuarial valuation was performed as of June 30, 2020.

ACTUARIAL SECTION

Public Employees' Retirement Board

A Component Unit of the State of Montana

Schedule of Converted Disabled Member Composition

as of June 30, 2020

	PERS-DBRP	JRS	HPORS	SRS	GWPORS	MPORS	FURS	VFCA
Total Count	525	1	21	49	19	72	46	
Average Age	71.9	61.5	62.1	66.8	66.7	66.4	68.6	
Average Age at Disablement	51.4	57.1	44.3	46.8	52.3	42.6	44.8	
Average Service at Retirement	14.4	15.1	10.4	10.4	14.5	11.5	15.3	
Average Annual Benefit	\$ 11,934	\$ 65,495	\$ 28,479	\$ 23,892	\$ 21,221	\$ 27,857	\$ 30,966	
Under Age 45								
Number Members								
Average Annual Benefit								
Ages 45-49								
Number Members								
Average Annual Benefit								
Ages 50-54								
Number Members			4	2	1	13	6	
Average Annual Benefit			\$ 29,006	\$ 18,914	\$ 25,588	\$ 30,888	\$ 38,338	
Ages 55-59								
Number Members			7	3	3	11	5	
Average Annual Benefit			\$ 26,758	\$ 23,982	\$ 17,058	\$ 30,605	\$ 31,755	
Ages 60-64								
Number Members	107	1	3	17	4	11	4	
Average Annual Benefit	\$ 15,014	\$ 65,495	\$ 32,205	\$ 25,164	\$ 19,004	\$ 28,766	\$ 27,222	
Ages 65-69								
Number Members	144		3	15	6	11	10	
Average Annual Benefit	\$ 11,258		\$ 28,358	\$ 26,250	\$ 20,500	\$ 23,686	\$ 29,400	
Ages 70-74								
Number Members	113		2	6	1	12	11	
Average Annual Benefit	\$ 12,085		\$ 29,210	\$ 22,946	\$ 26,874	\$ 27,754	\$ 32,344	
Ages 75-79								
Number Members	88		2	4	2	4	3	
Average Annual Benefit	\$ 10,772		\$ 27,313	\$ 15,991	\$ 24,292	\$ 24,108	\$ 27,412	
Ages 80 & Over								
Number Members	73			2	2	10	7	
Average Annual Benefit	\$ 9,919			\$ 18,877	\$ 25,988	\$ 26,108	\$ 27,818	

The last actuarial valuation was performed as of June 30, 2020.

Converted disabilities include those members who are disabled, but have reached normal retirement age and are no longer recorded as disabled by MPERA.

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ACTUARIAL SECTION

Public Employees' Retirement Board

A Component Unit of the State of Montana

Schedule of Retirees and Beneficiaries

Added to and Removed from Rolls

	Added		Removed						
Year Ended	No.	Annual Benefits ¹	No.	Annual Benefits ¹	End of Year ⁴	Benefits ²	Average Annual Benefit ³	% Benefit Increase/ Decrease	
PERS-DBRP									
June 30, 2020	1,334	\$ 35,688,702	623	\$ 11,730,454	23,956	\$ 449,601,997	\$ 19,673	4.98%	
June 30, 2019	1,304	38,000,460	615	11,418,582	23,245	422,444,896	18,739	11.09 %	
June 30, 2018	1,403	37,846,436	652	9,454,423	22,556	395,338,673	16,869	(3.33)%	
June 30, 2017	1,312	31,596,750	840	9,548,655	21,805	366,354,719	17,450	(3.04)%	
June 30, 2016	1,318	19,195,422	666	4,630,708	21,333	344,103,875	17,997	6.21 %	
June 30, 2015	1,255	18,427,160	655	4,854,984	20,681	319,501,818	16,945	4.41 %	
June 30, 2014	1,226	15,851,006	596	4,376,529	20,081	296,183,076	16,230	4.21 %	
June 30, 2013	1,261	16,288,261	548	4,058,927	19,451	274,021,249	15,574	18.19 %	
June 30, 2012	1,220	16,262,411	605	4,117,597	18,738	252,762,398	13,177	(3.29)%	
June 30, 2011	1,169	15,407,952	558	3,428,851	18,123	231,222,603	13,625	8.35 %	
JRS									
June 30, 2020	1	283,156	2	136,494	72	4,038,362	56,816	4.00 %	
June 30, 2019	7	298,135	4	167,376	73	3,846,157	54,632	7.38 %	
June 30, 2018	5	501,241	3	325,448	70	3,723,271	50,875	(2.86)%	
June 30, 2017	5	261,004	5	119,595	68	3,554,335	52,372	(3.51)%	
June 30, 2016	5	319,842	4	71,398	68	3,416,023	54,279	8.33 %	
June 30, 2015	2	71,326	2	14,415	67	3,040,988	50,105	3.91 %	
June 30, 2014	3	171,535	1	65,592	67	3,022,512	48,221	2.31 %	
June 30, 2013	10	251,141	1	19,919	65	2,552,787	47,131	10.29 %	
June 30, 2012	0	94,034	2	36,651	56	2,344,170	42,733	3.57 %	
June 30, 2011	5	127,602	2	4,668	58	2,239,603	41,259	5.07 %	
HPORS									
June 30, 2020	16	653,049	8	305,228	350	12,684,315	37,090	5.45 %	
June 30, 2019	15	961,821	11	445,997	342	12,062,607	35,172	8.48 %	
June 30, 2018	19	879,739	12	336,121	338	11,545,732	32,424	(2.07)%	
June 30, 2017	23	673,416	21	171,465	331	11,036,794	33,109	(3.17)%	
June 30, 2016	13	371,167	11	61,783	329	10,482,414	34,193	4.55 %	
June 30, 2015	14	366,606	9	57,749	327	9,932,134	32,707	3.31 %	
June 30, 2014	17	408,119	5	32,946	322	9,344,441	31,658	4.16 %	
June 30, 2013	12	401,650	7	58,709	310	8,708,925	30,394	15.35 %	
June 30, 2012	5	197,432	2	18,356	305	8,223,433	26,349	(0.98)%	
June 30, 2011	12	294,280	5	75,122	302	7,865,745	26,611	7.45 %	
SRS									
June 30, 2020	50	2,012,640	13	344,882	763	21,481,264	28,954	3.17 %	
June 30, 2019	56	1,846,051	11	407,249	726	19,512,312	28,065	10.95 %	
June 30, 2018	42	1,633,338	9	332,445	681	18,052,544	25,295	(4.85)%	
June 30, 2017	39	1,429,635	11	310,474	648	16,700,117	26,583	(1.16)%	
June 30, 2016	54	1,008,978	11	114,283	620	15,476,437	26,896	3.50 %	
June 30, 2015	50	791,307	6	60,636	577	14,019,543	25,986	2.12 %	
June 30, 2014	35	643,063	5	26,764	533	12,732,103	25,446	2.07 %	
June 30, 2013	38	723,040	4	44,835	503	11,582,729	24,931	15.27 %	
June 30, 2012	32	599,749	4	20,148	469	10,379,424	21,628	(5.97)%	
June 30, 2011	30	701,530	4	50,832	441	9,237,286	23,001	9.36 %	

¹These amounts are based on annual benefit totals which include lump sum death benefit payouts.

²Includes death benefit payments for active members.

³Based on June monthly benefit totals.

⁴For HPORS and MPORS, End of Year does not include DROP.

Due to MPERA's new computer system, beginning with FY2017, the amounts are calculated differently.

The last actuarial valuation was performed as of June 30, 2020.

	Added		Removed						
Year Ended	No.	Annual Benefits ¹	No.	Annual Benefits ¹	End of Year ⁴	Benefits ²	Average Annual Benefit ³	% Benefit Increase	
GWPPRS									
June 30, 2020	44	\$ 1,055,522	6	\$ 233,544	384	\$ 8,247,117	\$ 22,841	1.45%	
June 30, 2019	39	956,899	5	151,172	346	7,349,795	22,513	14.64 %	
June 30, 2018	38	770,585	2	105,878	312	6,522,921	19,638	(11.54)%	
June 30, 2017	31	745,929	5	135,340	276	5,809,910	22,199	(2.77)%	
June 30, 2016	23	338,386	4	22,118	250	5,068,318	22,832	(2.02)%	
June 30, 2015	35	419,935	7	53,794	231	4,550,326	23,302	4.66 %	
June 30, 2014	26	283,359	3	21,306	203	3,979,269	22,265	1.49 %	
June 30, 2013	22	233,226	5	90,813	180	3,575,042	21,938	17.62 %	
June 30, 2012	19	235,722	1	22,860	163	3,202,597	18,652	(11.04)%	
June 30, 2011	12	146,846	3	16,761	145	2,863,434	20,967	4.61 %	
MPORS									
June 30, 2020	43	1,747,930	23	913,909	870	27,866,365	32,668	3.05 %	
June 30, 2019	45	1,961,332	7	898,114	850	26,220,684	31,701	7.70 %	
June 30, 2018	32	1,690,900	11	756,092	812	24,566,646	29,434	(2.59)%	
June 30, 2017	32	1,551,779	9	420,615	791	23,474,602	30,215	(0.47)%	
June 30, 2016	39	834,722	15	80,036	768	21,960,690	30,357	3.10 %	
June 30, 2015	43	877,021	15	125,552	744	20,560,131	29,443	2.08 %	
June 30, 2014	19	462,040	13	109,127	716	19,449,550	28,842	4.50 %	
June 30, 2013	40	883,350	13	153,027	710	18,462,730	27,601	8.10 %	
June 30, 2012	17	515,137	10	98,603	683	17,354,933	25,533	(1.02)%	
June 30, 2011	22	539,164	16	145,734	676	17,013,369	25,797	6.34 %	
FURS									
June 30, 2020	38	1,846,971	21	803,489	678	26,838,506	40,862	4.20 %	
June 30, 2019	19	2,199,976	10	611,402	661	25,626,191	39,215	11.53 %	
June 30, 2018	31	1,781,433	9	354,340	652	23,863,193	35,161	(3.37)%	
June 30, 2017	23	1,614,614	14	488,405	630	22,335,636	36,389	0.95 %	
June 30, 2016	26	761,390	14	95,141	621	20,896,200	36,047	1.38 %	
June 30, 2015	27	621,742	13	95,699	609	19,745,267	35,558	6.60 %	
June 30, 2014	26	705,387	18	101,960	595	18,871,929	33,356	3.87 %	
June 30, 2013	25	620,602	9	55,278	587	17,670,032	32,112	12.43 %	
June 30, 2012	21	696,096	2	9,065	571	16,519,146	28,563	(3.33)%	
June 30, 2011	19	624,623	13	172,927	552	15,605,138	29,546	8.17 %	
VFCA									
June 30, 2020	75	172,884	39	111,994	1,524	3,065,017	2,014	(0.67)%	
June 30, 2019	72	170,647	58	104,169	1,488	2,996,808	2,028	3.29 %	
June 30, 2018	85	158,944	49	83,074	1,474	2,944,046	1,963	(2.44)%	
June 30, 2017	51	319,633	38	67,063	1,438	2,858,443	2,012	0.50 %	
June 30, 2016	92	268,898	38	41,145	1,425	2,623,011	2,002	13.55 %	
June 30, 2015	78	83,963	39	38,318	1,371	2,368,553	1,763	0.69 %	
June 30, 2014	77	81,473	30	26,715	1,332	2,280,876	1,751	0.16 %	
June 30, 2013	75	129,518	32	24,135	1,285	2,819,162	1,748	11.10 %	
June 30, 2012	87	104,535	28	19,440	1,242	2,046,233	1,574	(4.75)%	
June 30, 2011	76	84,810	42	32,985	1,183	1,938,060	1,652	1.52 %	

ACTUARIAL SECTION

Public Employees' Retirement Board

A Component Unit of the State of Montana

Solvency Test

(in thousands)

System	Valuation Date	Aggregate Accrued Liabilities for				Portion of Accrued Liabilities Covered by Reported Asset		
		1	2	3	Actuarial Value of Assets	1	2	3
		Active Member Accounts ¹	Retirees and Beneficiaries	Active Members (ER Financed Portion)				
PERS-DBRP	6/30/2020	\$ 924,143	\$ 5,289,852	\$ 2,020,008	\$ 6,099,398	100%	98%	0%
	6/30/2019	898,554	5,028,352	2,030,132	5,903,191	100	100	0
	6/30/2018	876,608	4,718,929	2,134,547	5,705,236	100	100	5
	6/30/2017	882,835	4,423,430	2,272,120	5,514,027	100	100	9
	6/30/2016	842,772	3,955,400	1,989,751	5,247,685	100	100	23
	6/30/2015	841,907	3,687,451	1,940,945	4,926,516	100	100	20
	6/30/2014	838,145	3,436,212	1,903,147	4,595,805	100	100	17
	6/30/2013	828,657	2,790,430	1,541,864	4,139,921	100	100	34
	6/30/2012	837,663	2,958,076	1,865,543	3,816,920	100	100	1
	6/30/2011	840,762	2,728,687	1,840,696	3,800,479	100	100	13
JRS	6/30/2020	4,764	43,547	19,623	110,639	100	100	318
	6/30/2019	4,174	43,861	17,040	104,918	100	100	334
	6/30/2018	4,329	39,714	18,698	101,192	100	100	306
	6/30/2017	4,372	38,351	15,380	97,066	100	100	353
	6/30/2016	4,494	35,673	14,587	91,152	100	100	350
	6/30/2015	4,667	33,210	14,024	84,934	100	100	336
	6/30/2014	4,623	32,776	13,201	78,463	100	100	311
	6/30/2013	4,733	31,709	12,795	70,323	100	100	265
	6/30/2012	5,575	24,631	15,985	63,195	100	100	206
	6/30/2011	5,115	24,692	13,607	61,274	100	100	231
HPORS	6/30/2020	13,311	196,850	35,754	158,658	100	74	0
	6/30/2019	13,070	185,306	38,429	152,851	100	75	0
	6/30/2018	12,976	175,574	41,271	147,144	100	76	0
	6/30/2017	12,288	163,885	43,297	141,236	100	79	0
	6/30/2016	12,535	146,267	44,524	133,869	100	83	0
	6/30/2015	12,102	133,628	47,252	125,676	100	85	0
	6/30/2014	11,507	126,478	45,416	117,226	100	84	0
	6/30/2013	11,339	117,914	46,341	105,736	100	80	0
	6/30/2012	11,455	110,876	45,493	96,655	100	77	0
	6/30/2011	10,795	107,035	37,911	95,274	100	79	0
SRS	6/30/2020	62,479	300,677	130,086	400,720	100	100	29
	6/30/2019	57,884	279,198	125,616	377,387	100	100	32
	6/30/2018	55,236	254,965	126,515	353,904	100	100	35
	6/30/2017	51,998	239,648	119,741	332,169	100	100	34
	6/30/2016	47,826	213,000	112,321	310,510	100	100	44
	6/30/2015	46,500	193,359	109,054	288,269	100	100	44
	6/30/2014	45,595	176,538	103,944	264,945	100	100	41
	6/30/2013	43,007	164,339	96,838	235,310	100	100	29
	6/30/2012	41,694	149,254	93,612	211,535	100	100	22
	6/30/2011	40,737	135,189	90,579	203,689	100	100	31

¹ Active Member Accounts include regular and additional contributions with interest, and excludes all accounts of inactive members.

The last actuarial valuation was performed as of June 30, 2020.

System	Valuation Date	Aggregate Accrued Liabilities for				Portion of Accrued Liabilities Covered by Reported Asset		
		1	2	3	Actuarial Value of Assets	1	2	3
		Active Member Accounts ¹	Retirees and Beneficiaries	Active Members (ER Financed Portion)				
GWPORS	6/30/2020	\$ 43,619	\$ 113,801	\$ 107,325	\$ 221,949	100%	100%	60%
	6/30/2019	41,429	100,024	103,677	206,504	100	100	63
	6/30/2018	39,605	88,621	101,851	190,849	100	100	61
	6/30/2017	39,205	77,897	100,540	176,311	100	100	59
	6/30/2016	36,111	65,912	88,984	160,555	100	100	66
	6/30/2015	34,396	58,648	79,116	145,314	100	100	66
	6/30/2014	32,779	50,062	71,753	129,429	100	100	65
	6/30/2013	31,918	43,498	64,569	112,100	100	100	57
	6/30/2012	29,975	39,856	59,095	97,691	100	100	47
	6/30/2011	28,468	35,166	56,247	90,437	100	100	48
MPORS	6/30/2020	42,767	412,367	210,964	471,328	100	100	8
	6/30/2019	43,542	397,171	197,153	441,565	100	100	0
	6/30/2018	43,686	374,355	193,014	413,608	100	99	0
	6/30/2017	42,364	346,374	173,832	386,259	100	99	0
	6/30/2016	38,543	308,635	171,768	356,985	100	100	6
	6/30/2015	37,193	297,235	162,758	328,025	100	98	0
	6/30/2014	36,950	276,306	161,052	298,722	100	95	0
	6/30/2013	34,778	267,540	147,725	262,678	100	85	0
	6/30/2012	34,687	248,260	144,310	234,025	100	80	0
	6/30/2011	32,906	239,176	129,298	221,669	100	79	0
FURS	6/30/2020	52,250	395,697	164,347	499,180	100	100	31
	6/30/2019	49,752	371,528	157,823	463,085	100	100	26
	6/30/2018	45,908	353,334	148,999	429,095	100	100	20
	6/30/2017	44,351	331,701	146,236	397,633	100	100	15
	6/30/2016	43,046	292,423	131,203	365,259	100	100	23
	6/30/2015	41,278	274,505	126,051	333,629	100	100	14
	6/30/2014	38,805	260,538	119,670	300,949	100	100	1
	6/30/2013	36,441	248,723	111,606	263,483	100	91	0
	6/30/2012	34,790	235,553	106,868	233,121	100	84	0
	6/30/2011	33,089	219,842	102,257	219,959	100	85	0
VFCA	6/30/2020		25,817	22,052	41,717	N/A	100	72
	6/30/2019		25,295	21,905	40,009	N/A	100	67
	6/30/2018		25,061	21,245	38,321	N/A	100	62
	6/30/2017		24,509	21,363	36,955	N/A	100	58
	6/30/2016		22,884	21,126	35,302	N/A	100	59
	6/30/2015		22,161	22,157	33,405	N/A	100	51
	6/30/2014		18,888	19,088	31,281	N/A	100	65
	6/30/2013		18,612	19,218	28,294	N/A	100	50
	6/30/2012		17,465	18,681	26,531	N/A	100	49
	6/30/2011		16,483	18,712	26,183	N/A	100	52

Active member accounts are not applicable. Members are unpaid volunteers.

ACTUARIAL SECTION

Public Employees' Retirement Board

A Component Unit of the State of Montana

Solvency Test¹

(in thousands)

System	Valuation Date ²	Aggregate Accrued Liabilities for			Actuarial Value of Assets	Portion of Accrued Liabilities Covered by Reported Asset		
		1	2	3		1	2	3
		Active Member Accounts	Disabled Members	Active Members (ER Financed Portion)				
PERS-DCRP	6/30/2020	N/A	\$ 765	\$ 4,437	\$ 5,753	100%	100%	112%
DISABILITY	6/30/2019	N/A	822	4,074	5,137	100	100	106
OPEB	6/30/2018	N/A	507	3,847	4,455	100	100	103
	6/30/2017	N/A	215	3,752	3,457	100	100	86
	6/30/2016	N/A	401	3,190	3,118	100	100	85
	6/30/2015	N/A	405	2,830	2,781	100	100	84
	6/30/2013	N/A	294	2,421	2,184	100	100	78

¹ This schedule is intended to show information for 10 years. Additional years will be displayed as they become available.

² The actuarial valuation for the PERS-DCRP Disability OPEB is performed on an annual basis. There were two years between the first two valuations due to the timing of the first valuation.

The last actuarial valuation was performed as of June 30, 2020.

Public Employees' Retirement Board

A Component Unit of the State of Montana

Schedule of Funding Progress for PERS-OPEB DCRP Disability OPEB¹

(in thousands)

System	Actuarial Valuation Date ²	Actuarial Value of Assets	Actuarial Accrued Liability (AAL)	Unfunded AAL (UAAL)	Funded Ratio %	Covered Payroll	UAAL as a Percentage of Covered Payroll
PERS-DCRP DISABILITY OPEB	6/30/2020	\$ 5,753	\$ 5,203	\$ (551)	110.59%	\$ 165,359	(0.33)%
	6/30/2019	5,137	4,896	(241)	104.93	149,924	(0.16)
	6/30/2018	4,455	4,354	(101)	102.32	139,066	(0.07)
	6/30/2017	3,457	3,967	510	87.14	129,158	0.39
	6/30/2016	3,118	3,591	473	86.83	114,883	0.41
	6/30/2015	2,781	3,235	454	85.97	113,750	0.40
	6/30/2013	2,184	2,715	531	80.44	90,128	0.59

¹ This schedule is intended to show 10 years of information. Additional years will be displayed as they become available.

² The actuarial valuation for the PERS-DCRP Disability OPEB is performed on an annual basis. There were two years between the first two valuations due to the timing of the first valuation.

The last actuarial valuation was performed as of June 30, 2020.

ACTUARIAL SECTION

Public Employees' Retirement Board

A Component Unit of the State of Montana

Schedule of Funding Progress

(in thousands)

System	Actuarial Valuation Date	Actuarial Value of Assets ¹ (a)	Actuarial Accrued Liability (AAL) -Entry Age (b)	Unfunded AAL (UAAL) (b-a)	Funded Ratio % (a/b)	Covered Payroll (c)	UAAL as a Percentage of Covered Payroll ((b-a)/c)
PERS-DBRP	6/30/2020	\$ 6,099,398	\$ 8,234,003	\$ 2,134,605	74.08%	\$ 1,280,557	166.69%
	6/30/2019	5,903,191	7,957,038	2,053,847	74.19	1,247,344	164.66
	6/30/2018	5,705,236	7,730,084	2,024,848	73.81	1,230,105	164.61
	6/30/2017	5,514,027	7,578,385	2,064,358	72.76	1,232,067	167.55
	6/30/2016	5,247,685	6,787,923	1,540,238	77.31	1,185,646	129.91
	6/30/2015	4,926,516	6,470,303	1,543,787	76.14	1,154,867	133.68
	6/30/2014	4,595,805	6,177,505	1,581,700	74.40	1,129,109	140.08
	6/30/2013	4,139,921	5,160,951	1,021,030	80.22	1,104,000	92.48
	6/30/2012	3,816,920	5,661,281	1,844,361	67.42	1,081,288	170.57
	6/30/2011	3,800,479	5,410,144	1,609,665	70.25	1,071,376	150.24
JRS	6/30/2020	110,639	67,934	(42,705)	162.86	8,001	(533.75)
	6/30/2019	104,918	65,075	(39,843)	161.23	7,382	(539.73)
	6/30/2018	101,192	62,741	(38,451)	161.29	7,291	(527.38)
	6/30/2017	97,066	58,104	(38,962)	167.06	6,974	(558.68)
	6/30/2016	91,152	54,754	(36,398)	166.48	6,920	(525.99)
	6/30/2015	84,934	51,901	(33,033)	163.65	6,525	(506.26)
	6/30/2014	78,463	50,600	(27,863)	155.07	6,355	(438.47)
	6/30/2013	70,323	49,236	(21,087)	142.82	6,276	(336.00)
	6/30/2012	63,195	46,190	(17,005)	136.81	6,193	(274.60)
	6/30/2011	61,274	43,414	(17,860)	141.13	5,645	(316.38)
HPORS	6/30/2020	158,658	245,915	87,257	64.52	15,608	559.05
	6/30/2019	152,851	236,805	83,954	64.55	15,178	553.13
	6/30/2018	147,144	229,822	82,678	64.03	15,251	542.12
	6/30/2017	141,236	219,470	78,234	64.35	14,779	529.36
	6/30/2016	133,869	203,326	69,457	65.84	15,276	454.68
	6/30/2015	125,676	192,983	67,307	65.12	14,549	462.62
	6/30/2014	117,226	183,400	66,174	63.92	14,149	467.69
	6/30/2013	105,736	175,594	69,858	60.22	13,484	518.08
	6/30/2012	96,655	167,824	71,169	57.59	13,618	522.62
	6/30/2011	95,274	155,742	60,468	61.17	12,472	484.83
SRS	6/30/2020	400,720	493,242	92,522	81.24	84,943	108.92
	6/30/2019	377,387	462,698	85,311	81.56	80,461	106.03
	6/30/2018	353,904	436,715	82,811	81.04	77,587	106.73
	6/30/2017	332,169	411,387	79,218	80.74	74,581	106.22
	6/30/2016	310,510	373,146	62,636	83.21	70,593	88.73
	6/30/2015	288,269	348,912	60,643	82.62	68,046	89.12
	6/30/2014	264,945	326,077	61,132	81.25	64,673	94.53
	6/30/2013	235,310	304,185	68,875	77.36	61,467	112.05
	6/30/2012	211,535	284,559	73,024	74.34	59,583	122.56
	6/30/2011	203,689	266,506	62,817	76.43	57,041	110.12

Expressing actuarial value of assets as a percentage of the actuarial accrued liability provides one indication of the plan's funding status on a going-concern basis. Analysis of this percentage over time indicates whether the plan is becoming financially stronger or weaker. Generally, the greater the funded ratio, the stronger the plan.

¹ Refer to the "Notes to the Required Supplementary Information" for the Actuarial Asset Valuation Method (Page 126).

System	Actuarial Valuation Date	Actuarial Value of Assets ¹ (a)	Actuarial Liability (AAL) -Entry Age (b)	Unfunded AAL (UAAL) (b-a)	Funded Ratio % (a/b)	Covered Payroll (c)	UAAL as a Percentage of Covered Payroll ((b-a)/c)
GWPORS	6/30/2020	\$ 221,949	\$ 264,745	\$ 42,796	83.83%	\$ 53,825	79.51%
	6/30/2019	206,504	245,130	38,626	84.24	51,677	74.75
	6/30/2018	190,849	230,077	39,228	82.95	50,823	77.19
	6/30/2017	176,311	217,642	41,331	81.01	49,381	83.70
	6/30/2016	160,555	191,007	30,452	84.06	47,108	64.64
	6/30/2015	145,314	172,160	26,846	84.41	44,885	59.81
	6/30/2014	129,429	154,595	25,166	83.72	41,637	60.44
	6/30/2013	112,100	139,985	27,885	80.08	39,471	70.65
	6/30/2012	97,691	128,927	31,236	75.77	38,317	81.52
	6/30/2011	90,437	119,881	29,444	75.44	38,306	76.87
MPORS	6/30/2020	471,328	666,099	194,770	70.76	56,784	343.00
	6/30/2019	441,565	637,866	196,300	69.23	54,282	361.63
	6/30/2018	413,608	611,056	197,448	67.69	52,036	379.44
	6/30/2017	386,259	562,570	176,311	68.66	48,604	362.75
	6/30/2016	356,985	518,946	161,961	68.79	47,234	342.90
	6/30/2015	328,025	497,186	169,161	65.98	45,736	369.87
	6/30/2014	298,722	474,308	175,586	62.98	44,427	395.23
	6/30/2013	262,678	450,043	187,365	58.37	42,796	437.81
	6/30/2012	234,025	427,257	193,232	54.77	41,745	462.89
	6/30/2011	221,669	401,381	179,712	55.23	39,470	455.30
FURS	6/30/2020	499,180	612,294	113,114	81.53	53,859	210.02
	6/30/2019	463,085	579,103	116,018	79.97	50,756	228.58
	6/30/2018	429,095	548,241	119,146	78.27	47,935	248.56
	6/30/2017	397,633	522,288	124,655	76.13	45,208	275.74
	6/30/2016	365,259	466,671	101,412	78.27	43,119	235.19
	6/30/2015	333,629	441,834	108,205	75.51	41,627	259.94
	6/30/2014	300,949	419,013	118,064	71.82	39,892	295.96
	6/30/2013	263,483	396,769	133,286	66.41	37,963	351.10
	6/30/2012	233,121	377,211	144,090	61.80	36,177	398.3
	6/30/2011	219,959	355,188	135,229	61.93	34,852	388.01
VFCA	6/30/2020	41,717	47,868	6,152	87.15	N/A	N/A
	6/30/2019	40,009	47,200	7,191	84.76	N/A	N/A
	6/30/2018	38,321	46,306	7,984	82.76	N/A	N/A
	6/30/2017	36,955	45,871	8,917	80.56	N/A	N/A
	6/30/2016	35,302	44,010	8,708	80.21	N/A	N/A
	6/30/2015	33,405	44,318	10,913	75.38	N/A	N/A
	6/30/2014	31,281	37,975	6,694	82.37	N/A	N/A
	6/30/2013	28,294	37,830	9,536	74.79	N/A	N/A
	6/30/2012	26,531	36,146	9,615	73.40	N/A	N/A
	6/30/2011	26,183	35,195	9,012	74.39	N/A	N/A

Covered payroll is not applicable to VFCA because members are unpaid volunteers.

ACTUARIAL SECTION

Public Employees' Retirement Board

A Component Unit of the State of Montana

Summary of Actuarial (Gain)/Loss by Source

(in thousands, except VFCA)

	PERS DBRP	JRS	HPORS	SRS
Investment (Gain) or Loss	\$ 31,115.8	\$ 595.2	\$ 892.9	\$ 2,300.4
Liability (Gain) or Loss				
Salary (Gain) or Loss	4,107.2	30.9	277.6	2,415.2
Retirement (Gain) or Loss	(58,386.7)	(91.5)	547.9	2,298.2
Disability (Gain) or Loss	204.0	(8.3)	(90.3)	397.6
Death In-Service (Gain) or Loss	(426.5)	(32.9)	(31.1)	498.5
Withdrawal (Gain) or Loss	67,544.8		346.2	1,140.2
Death after Retirement (Gain) or Loss	(12,025.4)	293.0	(288.0)	289.9
New Participant / Data Adjustment	25,856.0	133.7	403.5	(403.6)
Other (Gain) or Loss	(155.2)	(6.1)	29.5	(11.2)
Total Actuarial (Gain) or Loss	\$ 57,834.0	\$ 914.0	\$ 2,088.2	\$ 8,925.2

	GWPORS	MPORS	FURS	VFCA
Investment (Gain) or Loss	\$ 1,369.3	\$ 3,720.1	\$ 4,012.0	\$ 309,856
Liability (Gain) or Loss				
Salary (Gain) or Loss	1,474.1	3,352.3	2,261.2	
Retirement (Gain) or Loss	284.0	1,750.1	1,828.8	(686,547)
Disability (Gain) or Loss	(216.8)	(900.0)	410.2	
Death In-Service (Gain) or Loss	(216.6)	(209.0)	(246.5)	28,847
Withdrawal (Gain) or Loss	1,192.4	501.6	741.7	419,212
Death after Retirement (Gain) or Loss	(1,670.4)	(4,204.6)	(1,040.8)	(16,951)
New Participant / Data Adjustment	1,800.3	(2,167.5)	(222.8)	397,917
Other (Gain) or Loss	(9.2)	(33.2)	(8.5)	(15,843)
Total Actuarial (Gain) or Loss	\$ 4,007.1	\$ 1,809.8	\$ 7,735.3	\$ 436,491

The last actuarial valuation was performed as of June 30, 2020.

Public Employees' Retirement Board

A Component Unit of the State of Montana

Summary of Actuarial (Gain)/Loss by Source

		PERS-DCRP Disability OPEB
Investment (Gain) or Loss	\$	(19,476)
Liability (Gain) or Losses:		
Salary (Gain) or Loss		48,441
Retirement (Gain) or Loss		1,342
Disability (Gain) or Loss		(325,320)
Death In-Service (Gain) or Loss		6,494
Withdrawal (Gain) or Loss		(9,603)
Death after Retirement (Gain) or Loss		(28,239)
New Participant /Data Adjustment (Gain) or Loss		118,862
Other (Gain) or Loss		
Total Actuarial (Gain) or Loss	\$	(207,499)

The last actuarial valuation was performed as of June 30, 2020.

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STATISTICAL SECTION

Summary of Statistical Data

The Statistical Section contains more detailed information regarding financial viability and pension benefit offerings. The information is provided for the last ten fiscal years ending June 30, 2020.

Financial Trends

The following schedules contain trend information to help the reader understand how the plans' financial performance and well-being have changed over time.

- *Schedule of Changes in Fiduciary Net Position, Last Ten Fiscal Years*
- *History of Actuarial Liabilities:* The existence of unfunded actuarial liabilities in this schedule is not necessarily an indication of financial problems but the trends are important and must be monitored and controlled.

Revenue Capacity

The following schedules contain information to help the reader assess the plans' revenue sources, fair values by investment type, and contribution rate history since inception.

- *Schedule of Fair Market Values by Type of Investment*
- *Schedule of Contribution Rate History*

The *History of Membership in the Retirement Plans* provides the membership in the defined benefit plans for a 10-year period.

Debt Capacity

The following schedules present information to help the reader assess the plans' current levels of outstanding debt and the plans' ability to issue additional debt in the future. Debt capacity is represented with benefit expenses and distributions and is followed by schedules of retired members, based on the type of benefit received.

- *Schedule of Benefit Expenses and Refunds by Type*
- *Schedule of Distributions Processed (Defined Contribution Plan)*
- *Retired Members by Type of Benefit*

Demographic and Economic Information

These schedules offer demographic and economic indicators to help the reader understand the environment within which the plans' financial activities take place.

- *Schedule of Active Members by Age and Gender*
- *Schedule of Retired Members by Age and Gender*
- *Average Benefit Payments*
- *Schedule of Average Monthly Benefit Payments, All Retirees*

Operating Information

These schedules contain pension plan data to help the reader understand how the information in the financial report relates to the pension plans the PERB administers.

- *Principal Participating Employers*
- *Schedule of Participating Employers* for all plans.

STATISTICAL SECTION

Public Employees' Retirement Board

A Component Unit of the State of Montana

Changes in Fiduciary Net Position, Last Ten Fiscal Years

(In thousands)

Fiscal Year	2020	2019	2018	2017	2016
PERS-DBRP					
Additions					
Employer Contributions ¹	\$ 112,500	\$ 107,751	\$ 107,142	\$ 103,902	\$ 102,810
Member Contributions ²	105,009	101,713	102,075	100,768	97,343
State Contributions	1,058	1,027	1,024	896	957
Investment Income ³	158,013	320,938	478,731	591,539	101,213
Other ⁴	33,951	33,615	33,635	27,861	29,843
Total Additions to Net Position	410,531	565,044	722,607	824,966	332,166
Deductions					
Benefits	449,602	422,445	395,339	366,355	344,104
Refunds	11,923	12,361	12,619	12,252	10,379
Administrative Expenses ⁵	5,032	4,648	4,998	5,225	4,261
Other ⁴	2,425	2,609	2,993	1,621	1,501
Total Deductions to Net Position	468,982	442,063	415,949	385,453	360,245
Change in Net Position	\$ (58,451)	\$ 122,981	\$ 306,658	\$ 439,513	\$ (28,079)
PERS-DCRP DISABILITY OPEB⁶					
Additions					
Employer Contributions	\$ 511	\$ 465	\$ 431	\$ 392	\$ 368
Investment Income ³	206	314	288	333	11
Total Additions to Net Position	717	779	719	725	379
Deductions					
Benefits	101	97	52	54	42
Administrative Expenses					
Total Deductions to Net Position	101	97	52	54	42
Change in Net Position	\$ 616	682	667	671	337
JRS					
Additions					
Employer Contributions	\$ 1,988		\$ 1,085	\$ 1,800	\$ 1,807
Member Contributions ²	560	517	575	488	729
Investment Income ³	2,827	5,687	8,469	10,370	1,779
Total Additions to Net Position	5,375	6,204	10,129	12,658	4,315
Deductions					
Benefits	4,038	3,846	3,723	3,554	3,416
Refunds			149		
Administrative Expenses ⁵	157	123	265	255	200
Other ⁴					
Total Deductions to Net Position	4,195	3,969	4,137	3,809	3,616
Change in Net Position	\$ 1,180	\$ 2,235	\$ 5,992	\$ 8,849	\$ 699

Contributions were made in accordance with statutory requirements.

¹ Includes Membership Fees, Retirement Incentive, Miscellaneous Revenue, and Education Contributions.

² Includes Interest Reserve Buybacks.

³ Includes Common Stock Dividends.

⁴ Includes Transfers to the DC, MUS-RP, Refunds to Other Plans, Coal Tax Transfers prior to FY2018, and State Appropriation FY2018 and after.

⁵ Includes OPEB Expenses

⁶ Effective FY2014, the DCRP-Disability, included in the PERS-DCRP, was changed to PERS-DCRP Disability OPEB and reported as a Defined Benefit Plan.

	2015		2014		2013		2012		2011
\$	100,625	\$	129,921	\$	81,836	\$	80,049	\$	79,173
	95,424		92,160		80,889		79,332		77,875
	919		886		532		536		546
	225,111		732,483		505,052		91,355		715,398
	33,547								
	455,626		955,450		668,309		251,272		872,992
	319,502		296,183		274,021		252,762		231,223
	11,688		10,070		11,254		11,991		11,539
	3,980		3,781		3,843		3,386		3,327
	2,211		1,488		1,594		1,028		794
	337,381		311,522		290,712		269,167		246,883
\$	118,245	\$	643,928	\$	377,597	\$	(17,895)	\$	626,109
\$	343	\$	311	\$	288	\$	273	\$	262
	4		3		5		5		5
	347		314		293		278		267
	34		29		29		27		19
	1								
	35		29		29		27		19
\$	312	\$	285	\$	264	\$	251	\$	248
\$	1,684	\$	1,652	\$	1,621	\$	1,598	\$	1,477
	534		481		742		447		504
	3,842		12,425		8,409		1,517		11,392
	6,060		14,558		10,772		3,562		13,373
	3,041		3,023		2,553		2,344		2,240
	138		100		185		118		39
	3,179		3,123		2,738		2,462		2,279
\$	2,881	\$	11,435	\$	8,034	\$	1,100	\$	11,094

STATISTICAL SECTION

Public Employees' Retirement Board

A Component Unit of the State of Montana

Changes in Fiduciary Net Position, Last Ten Fiscal Years (cont.)

(In thousands)

Fiscal Year	2020	2019	2018	2017	2016
HPORS					
Additions					
Employer Contributions ¹	\$ 6,003	\$ 5,845	\$ 5,858	\$ 5,782	\$ 5,916
Member Contributions ²	2,169	2,002	2,387	1,950	1,917
State Contributions ³	226	233	250	263	243
Investment Income ⁴	4,102	8,269	12,283	15,101	2,605
Total Additions to Net Position	12,500	16,349	20,778	23,096	10,681
Deductions					
Benefits	12,685	12,063	11,546	11,037	10,482
Refunds	331	582	322	245	94
Administrative Expenses ⁵	163	127	256	248	199
Other ⁶	29				
Total Deductions to Net Position	13,208	12,772	12,124	11,530	10,775
Change in Net Position	\$ (708)	\$ 3,577	\$ 8,654	\$ 11,566	\$ (94)
SRS					
Additions					
Employer Contributions ¹	\$ 11,175	\$ 10,573	\$ 10,366	\$ 7,562	\$ 7,317
Member Contributions ²	9,115	8,616	8,469	7,189	6,982
Investment Income ⁴	10,182	20,396	29,158	35,516	6,064
Total Additions to Net Position	30,472	39,585	47,993	50,267	20,363
Deductions					
Benefits	21,481	19,512	18,053	16,700	15,476
Refunds	1,566	1,439	1,490	1,383	1,029
Administrative Expenses ⁵	295	247	432	388	326
Other ⁶	65	45	64	33	75
Total Deductions to Net Position	23,407	21,243	20,039	18,504	16,906
Change in Net Position	\$ 7,065	\$ 18,342	\$ 27,954	\$ 31,763	\$ 3,457
GWPRS					
Additions					
Employer Contributions ¹	\$ 4,869	\$ 4,686	\$ 4,613	\$ 4,464	\$ 4,278
Member Contributions ²	5,803	5,566	5,512	5,278	5,036
Investment Income ⁴	5,583	11,125	15,573	18,592	3,167
Total Additions to Net Position	16,255	21,377	25,698	28,334	12,481
Deductions					
Benefits	8,247	7,350	6,523	5,810	5,068
Refunds	1,200	1,001	1,105	1,036	1,066
Administrative Expenses ⁵	241	202	369	329	272
Other ⁶	5	(1)	31		28
Total Deductions to Net Position	9,693	8,552	8,028	7,175	6,434
Change in Net Position	\$ 6,562	\$ 12,825	\$ 17,670	\$ 21,159	\$ 6,047

Contributions were made in accordance with statutory requirements.

¹ Includes Retirement Incentive and Miscellaneous Revenue.

² Includes Interest Reserve Buybacks.

³ Includes Percent of Salary.

⁴ Includes Common Stock Dividends.

⁵ Includes OPEB Expenses.

⁶ Includes Refunds to Other Plans.

	2015		2014		2013		2012		2011
\$	5,578	\$	5,474	\$	4,903	\$	4,966	\$	4,543
	1,624		1,458		1,337		1,299		1,270
	262		262		274		269		278
	5,738		18,684		12,826		2,321		17,912
	13,202		25,878		19,340		8,855		24,003
	9,932		9,344		8,709		8,223		7,866
	69		84		51		65		121
	146		109		181		122		56
			15				3		
	10,147		9,552		8,941		8,413		8,043
\$	3,055	\$	16,326	\$	10,399	\$	442	\$	15,960
\$	6,902	\$	6,690	\$	6,273	\$	6,028	\$	6,014
	6,623		6,447		5,838		5,694		5,831
	13,042		41,802		28,154		5,109		37,539
	26,567		54,939		40,265		16,831		49,384
	14,019		12,732		11,583		10,379		9,237
	1,217		1,185		1,159		1,248		968
	250		203		287		207		121
	44		27		25		23		
	15,530		14,147		13,054		11,857		10,326
\$	11,037	\$	40,792	\$	27,211	\$	4,974	\$	39,058
\$	4,088	\$	3,762	\$	3,576	\$	3,470	\$	3,523
	4,924		4,462		4,210		4,148		4,198
	6,435		20,075		13,106		2,388		16,335
	15,447		28,299		20,892		10,006		24,056
	4,550		3,979		3,575		3,203		2,863
	802		1,187		841		1,227		993
	203		161		247		173		88
			63		23		15		
	5,555		5,390		4,686		4,618		3,944
\$	9,892	\$	22,909	\$	16,206	\$	5,388	\$	20,112

STATISTICAL SECTION

Public Employees' Retirement Board

A Component Unit of the State of Montana

Changes in Fiduciary Net Position, Last Ten Fiscal Years (cont.)

(In thousands)

Fiscal Year	2020	2019	2018	2017	2016
MPORS					
Additions					
Employer Contributions ¹	\$ 8,273	\$ 7,853	\$ 7,758	\$ 7,091	\$ 6,928
Member Contributions ²	5,214	5,038	5,046	4,465	4,384
State Contributions ³	16,685	15,990	15,840	13,961	13,751
Investment Income ⁴	11,658	22,636	33,238	39,781	7,113
<i>Total Additions to Net Position</i>	41,830	51,517	61,882	65,298	32,176
Deductions					
Benefits	27,866	26,221	24,567	23,475	21,961
Refunds	2,328	3,637	2,675	1,043	1,240
Administrative Expenses ⁵	241	190	350	340	276
Other ⁶	23	14	53		129
<i>Total Deductions to Net Position</i>	30,458	30,062	27,645	24,858	23,606
<i>Change in Net Position</i>	\$ 11,372	\$ 21,455	\$ 34,237	\$ 40,440	\$ 8,570
FURS					
Additions					
Employer Contributions ¹	\$ 7,887	\$ 7,324	\$ 7,053	\$ 6,501	\$ 6,163
Member Contributions ²	5,938	5,527	5,315	4,925	4,752
State Contributions ³	17,808	16,567	16,127	14,438	13,970
Investment Income ⁴	12,247	23,722	34,285	40,844	7,312
<i>Total Additions to Net Position</i>	43,880	53,140	62,780	66,708	32,197
Deductions					
Benefits	26,839	25,626	23,863	22,336	20,896
Refunds	62	90	173	168	46
Administrative Expenses ⁵	224	171	329	321	262
Other ⁶					
<i>Total Deductions to Net Position</i>	27,125	25,887	24,365	22,825	21,204
<i>Change in Net Position</i>	\$ 16,755	\$ 27,253	\$ 38,415	\$ 43,883	\$ 10,993
VFCA					
Additions					
State Contributions	\$ 2,487	\$ 2,370	\$ 2,212	\$ 2,065	\$ 2,036
Investment Income ⁴	1,046	2,071	3,127	3,837	622
<i>Total Additions to Net Position</i>	3,533	4,441	5,339	5,902	2,658
Deductions					
Benefits	3,065	2,997	2,944	2,858	2,623
Insurance Payments	12	11	11	6	12
Administrative Expenses ⁵	414	297	293	290	244
Other ⁶					
<i>Total Deductions to Net Position</i>	3,491	3,305	3,248	3,154	2,879
<i>Change in Net Position</i>	\$ 42	\$ 1,136	\$ 2,091	\$ 2,748	\$ (221)

Contributions were made in accordance with statutory requirements.

¹ Includes Miscellaneous Revenue.

² Includes Interest Reserve Buybacks.

³ Includes Percent of Salary.

⁴ Includes Common Stock Dividends.

⁵ Includes OPEB Expenses.

⁶ Includes Refunds to Other Plans.

2015	2014	2013	2012	2011
\$ 6,630	\$ 6,459	\$ 6,280	\$ 3,791	\$ 5,670
4,292	4,133	4,029	6,055	3,580
13,433	13,049	12,573	12,274	11,594
14,471	45,244	30,037	5,717	39,175
38,826	68,885	52,919	27,837	60,019
20,560	19,450	18,463	17,355	17,013
2,179	1,018	1,833	707	1,000
214	166	245	178	106
5	60	5	3	
22,958	20,694	20,546	18,243	18,119
\$ 15,868	\$ 48,191	\$ 32,373	\$ 9,594	\$ 41,900
\$ 6,100	\$ 5,767	\$ 5,499	\$ 5,281	\$ 5,009
4,710	4,698	4,253	4,123	3,748
13,573	13,007	12,358	11,797	11,365
14,640	45,478	30,035	5,726	38,751
39,023	68,950	52,145	26,927	58,873
19,745	18,872	17,670	16,519	15,605
2	166	73	119	128
192	153	229	163	92
	14			
19,939	19,205	17,972	16,801	15,825
\$ 19,084	\$ 49,745	\$ 34,173	\$ 10,126	\$ 43,048
\$ 1,914	\$ 1,818	\$ 1,711	\$ 1,635	\$ 1,596
1,480	4,817	3,383	592	4,793
3,394	6,635	5,094	2,227	6,389
2,369	2,281	2,819	2,046	1,938
11	14	15	13	15
182	135	206	144	81
2,562	2,430	3,040	2,203	2,034
\$ 832	\$ 4,205	\$ 2,054	\$ 24	\$ 4,355

STATISTICAL SECTION

Public Employees' Retirement Board

A Component Unit of the State of Montana

Changes in Fiduciary Net Position, Last Ten Fiscal Years (cont.)

(In thousands)

Fiscal Year	2020	2019	2018	2017	2016
PERS-DCRP					
Additions					
Employer Contributions ¹	\$ 14,511	\$ 13,061	\$ 11,899	\$ 10,752	\$ 6,494
Member Contributions	14,208	13,505	12,447	11,828	9,970
Investment Income ²	15,374	17,962	19,602	22,368	1,428
Other ³	852	837	909	465	1,035
Total Additions to Net Position	44,945	45,365	44,857	45,413	18,927
Deductions					
Refunds	9,859	9,022	9,746	7,038	5,299
Administrative Expenses ⁴	679	634	754	836	671
Other ⁵	330	284	267	225	164
Total Deductions to Net Position	10,868	9,940	10,767	8,099	6,134
Change in Net Position	\$ 34,077	\$ 35,425	\$ 34,090	\$ 37,314	\$ 12,793
DEFERRED COMPENSATION PLAN					
Additions					
Employer Contributions ¹	\$ 101	\$ 120	\$ 93	\$ 77	\$ 63
Member Contributions	32,414	23,567	22,850	23,770	21,916
Investment Income ²	32,425	36,659	29,293	35,889	7,308
Other ⁶	604	567	600	587	195
Total Additions to Net Position	65,544	60,913	52,836	60,323	29,482
Deductions					
Refunds	35,590	28,926	29,303	27,329	20,193
Administrative Expenses ⁴	458	427	565	621	521
Other ⁵	874	875	898	846	427
Total Deductions to Net Position	36,922	30,228	30,766	28,796	21,141
Change in Net Position	\$ 28,622	\$ 30,685	\$ 22,070	\$ 31,527	\$ 8,341

¹ Includes Percent of Salary and State Contributions.

² Fees paid to Transamerica, PIMCO, Voya, Prudential and State Street are included in the net investment sum.

³ Includes Miscellaneous Revenues and Forfeitures remitted to MPERA to pay administrative costs.

⁴ Includes OPEB Expenses.

⁵ Fees paid to Empower for services provided.

⁶ Miscellaneous Revenue remitted to MPERA to pay administrative costs.

	2015		2014		2013		2012		2011
\$	4,887	\$	4,410	\$	4,374	\$	4,137	\$	3,965
	9,369		8,534		6,943		6,318		6,100
	6,316		18,367		11,684		2,352		12,698
	422		292		451		616		698
	20,994		31,603		23,452		13,423		23,461
	6,103		4,738		4,379		4,000		3,637
	586		558		585		493		426
	198		174		162		313		299
	6,887		5,470		5,126		4,806		4,362
\$	14,107	\$	26,133	\$	18,326	\$	8,617	\$	19,099
\$	103	\$	81	\$	79	\$	65	\$	64
	20,379		24,255		20,297		19,381		19,072
	11,243		35,165		21,219		13,913		36,906
	263		191		257		628		424
	31,988		59,692		41,852		33,987		56,466
	24,219		24,250		19,644		15,637		15,416
	451		406		445		357		288
	457		458		581		1,186		1,007
	25,127		25,114		20,670		17,180		16,711
\$	6,861	\$	34,578	\$	21,182	\$	16,807	\$	39,755

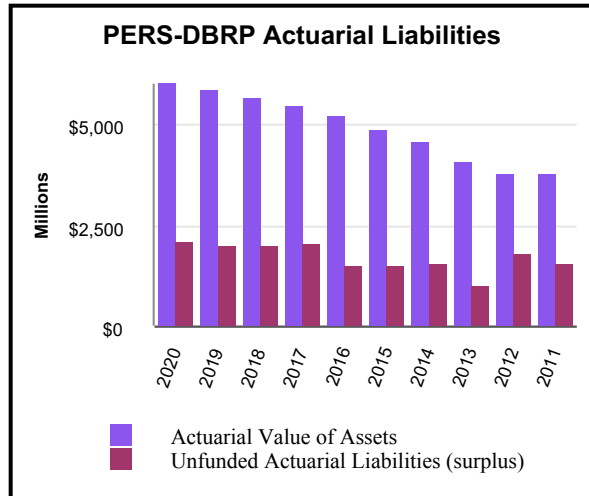
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Public Employees' Retirement Board

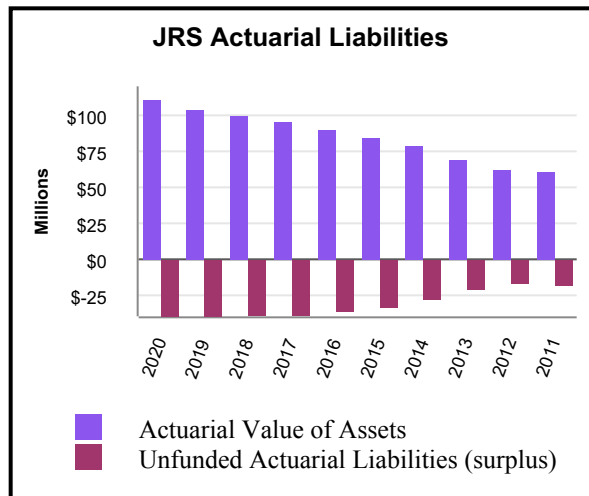
A Component Unit of the State of Montana

History of Actuarial Liabilities

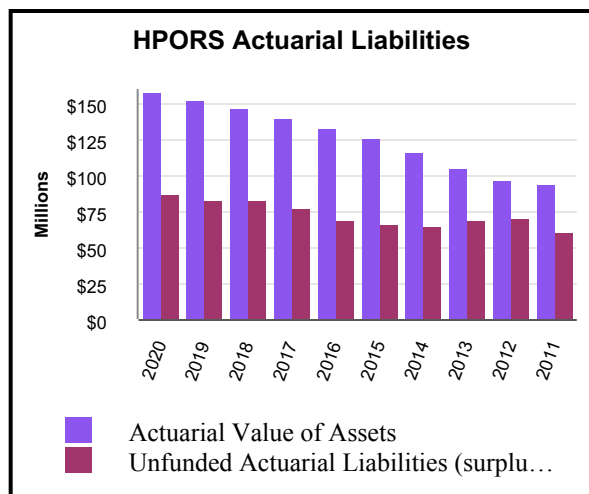
(in millions)



Fiscal Year	Actuarial Value of Assets	Unfunded Actuarial Liabilities (surplus)
2020	\$6,099	\$2,135
2019	5,903	2,054
2018	5,705	2,025
2017	5,514	2,064
2016	5,248	1,540
2015	4,927	1,544
2014	4,596	1,582
2013	4,140	1,021
2012	3,817	1,833
2011	3,801	1,610



Fiscal Year	Actuarial Value of Assets	Unfunded Actuarial Liabilities (surplus)
2020	\$111	\$(43)
2019	105	(40)
2018	101	(38)
2017	97	(39)
2016	91	(36)
2015	85	(33)
2014	79	(28)
2013	70	(21)
2012	63	(17)
2011	61	(18)



Fiscal Year	Actuarial Value of Assets	Unfunded Actuarial Liabilities (surplus)
2020	\$159	\$87
2019	153	84
2018	147	83
2017	141	78
2016	134	69
2015	126	67
2014	117	66
2013	106	70
2012	97	71
2011	95	61

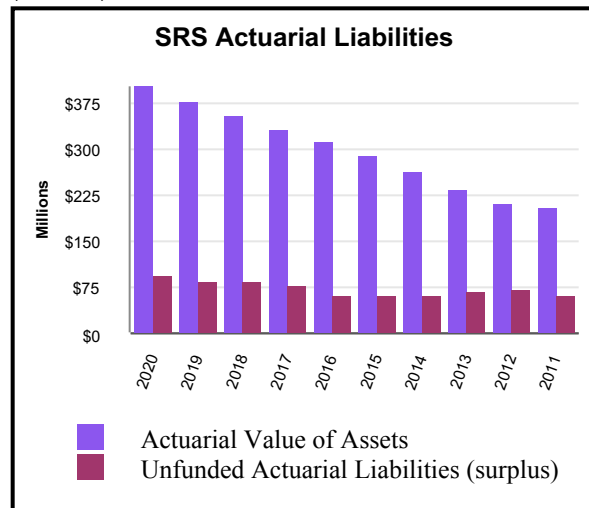
STATISTICAL SECTION

Public Employees' Retirement Board

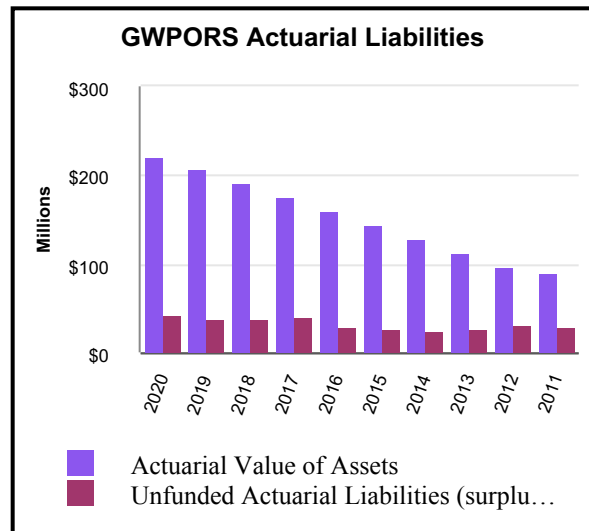
A Component Unit of the State of Montana

History of Actuarial Liabilities (cont.)

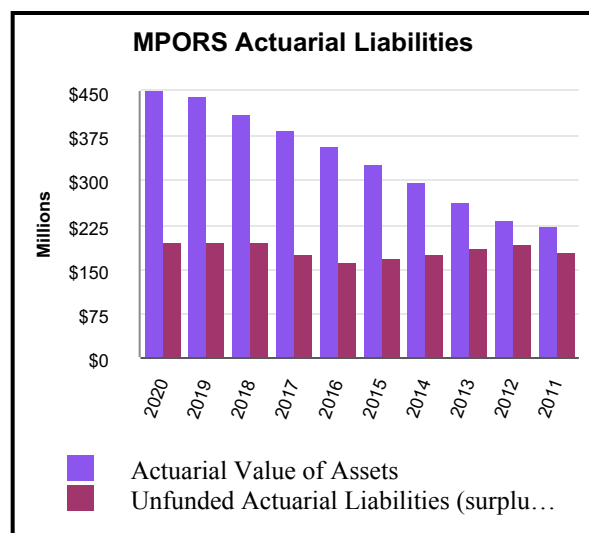
(in millions)



Fiscal Year	Actuarial Value of Assets	Unfunded Actuarial Liabilities (surplus)
2020	\$401	\$93
2019	377	85
2018	354	83
2017	332	79
2016	311	63
2015	288	61
2014	265	61
2013	235	69
2012	212	73
2011	204	63



Fiscal Year	Actuarial Value of Assets	Unfunded Actuarial Liabilities (surplus)
2020	\$222	\$43
2019	207	39
2018	191	39
2017	176	41
2016	161	30
2015	145	27
2014	129	25
2013	112	28
2012	98	31
2011	90	29



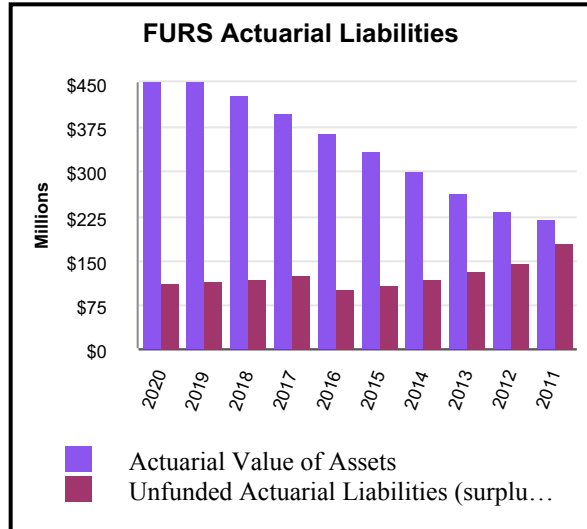
Fiscal Year	Actuarial Value of Assets	Unfunded Actuarial Liabilities (surplus)
2020	\$471	\$195
2019	442	196
2018	414	197
2017	386	176
2016	357	162
2015	328	169
2014	299	176
2013	263	187
2012	234	193
2011	222	180

Public Employees' Retirement Board

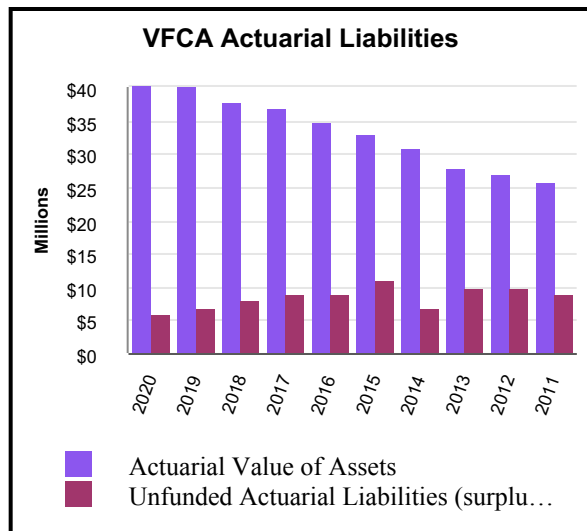
A Component Unit of the State of Montana

History of Actuarial Liabilities (cont.)

(in millions)



Fiscal Year	Actuarial Value of Assets	Unfunded Actuarial Liabilities (surplus)
2020	\$499	\$113
2019	463	116
2018	429	119
2017	398	125
2016	365	101
2015	334	108
2014	301	118
2013	263	133
2012	233	144
2011	220	180



Fiscal Year	Actuarial Value of Assets	Unfunded Actuarial Liabilities (surplus)
2020	\$42	\$6
2019	40	7
2018	38	8
2017	37	9
2016	35	9
2015	33	11
2014	31	7
2013	28	10
2012	27	10
2011	26	9

STATISTICAL SECTION

Public Employees' Retirement Board

A Component Unit of the State of Montana

Schedule of Fair Market Values by Type of Investment, Last Ten Fiscal Years

(in thousands)

System	2020	2019	2018	2017	2016
PERS-DBRP¹					
CAPP Investment Pool ²	\$ 5,775,148	\$ 5,716,675	\$ 5,652,706	\$ 5,326,238	
<i>Fixed Income:</i>					
Retirement Funds Bond Pool (RFBP)				\$ 1,184,758	
Montana Mortgages					
Short Term Investment Pool (STIP)	61,330	174,058	111,655	130,510	142,167
<i>Equities:</i>					
Montana Domestic Equity Pool (MDEP)					1,893,160
Montana International Equity Pool (MTIP)					774,561
Montana Private Equity Pool (MPEP)					559,719
<i>Alternative Investments:</i>					
Real Estate Investments (REI)					
Montana Real Estate Pool (MTRP)					463,582
Structured Investment Vehicles (SIV)					
Total	\$ 5,836,478	\$ 5,890,733	\$ 5,764,361	\$ 5,456,748	\$ 5,017,947
PERS-DCRP DISABILITY OPEB³					
<i>Fixed Income:</i>					
Short Term Investment Pool (STIP)	\$ 467	\$ 380	\$ 309	\$ 287	\$ 265
<i>Alternative Investments:</i>					
Structured Investment Vehicles (SIV)					
Pooled Investments at Cost	5,271	4,734	4,111	3,462	2,834
Total	\$ 5,738	\$ 5,114	\$ 4,420	\$ 3,749	\$ 3,099
JRS					
CAPP Investment Pool ²	\$ 104,563	\$ 101,339	\$ 100,269	93,939	
<i>Fixed Income:</i>					
Retirement Funds Bond Pool (RFBP)				\$ 20,613	
Short Term Investment Pool (STIP)	1,127	3,078	1,873	2,233	2,502
<i>Equities:</i>					
Montana Domestic Equity Pool (MDEP)					32,938
Montana International Equity Pool (MTIP)					13,477
Montana Private Equity Pool (MPEP)					9,738
<i>Alternative Investments:</i>					
Montana Real Estate Pool (MTRP)					8,066
Structured Investment Vehicles (SIV)					
Total	\$ 105,690	\$ 104,417	\$ 102,142	\$ 96,172	\$ 87,334

¹ Does not include the Defined Benefit Education Fund.

² Effective FY2017, the structure of plan investments was made more efficient by creating and utilizing a Consolidated Asset Pension Pool (CAPP) for all Defined Benefit Plans.

³ Effective FY2014, the DCRP-Disability, included in the PERS-DCRP, was changed to PERS-DCRP Disability OPEB and reported as a separate Defined Benefit Plan.

2015	2014	2013	2012	2011
\$ 1,127,097	\$ 1,069,517	\$ 950,298	\$ 974,139	\$ 969,119
89,180	103,602	54,005	33,708	59,256
2,004,038	1,933,145	1,643,009	1,455,188	1,434,773
837,968	877,318	712,587	621,887	727,765
539,912	517,873	536,542	512,315	484,324
445,360	426,528	393,155	315,093	256,368
766	1,179	710	547	1,023
\$ 5,044,321	\$ 4,929,162	\$ 4,290,306	\$ 3,912,877	\$ 3,932,628

\$ 2,738	\$ 2,427
24	27
\$ 2,762	\$ 2,454

\$ 19,324	\$ 18,164	\$ 16,034	\$ 16,031	\$ 15,497
1,770	1,940	1,085	848	1,312
34,351	32,822	27,759	23,933	23,098
14,358	14,901	12,036	10,224	11,733
9,255	8,796	9,064	8,428	7,788
7,640	7,251	6,641	5,168	4,046
15	22	14	14	23
\$ 86,713	\$ 83,896	\$ 72,633	\$ 64,646	\$ 63,497

STATISTICAL SECTION

Public Employees' Retirement Board

A Component Unit of the State of Montana

Schedule of Fair Market Values by Type of Investment, Last Ten Fiscal Years (cont.)

(in thousands)

System	2020	2019	2018	2017	2016
HPORS					
CAPP Investment Pool ¹	\$ 149,444	\$ 147,047	\$ 145,457	\$ 136,350	
<i>Fixed Income:</i>					
Retirement Funds Bond Pool (RFBP)				\$	30,235
Short Term Investment Pool (STIP)	1,822	4,437	2,575	3,025	3,972
<i>Equities:</i>					
Montana Domestic Equity Pool (MDEP)					48,312
Montana International Equity Pool (MTIP)					19,766
Montana Private Equity Pool (MPEP)					14,284
<i>Alternative Investments:</i>					
Montana Real Estate Pool (MTRP)					11,830
Structured Investment Vehicles (SIV)					
Total	\$ 151,266	\$ 151,484	\$ 148,032	\$ 139,375	\$ 128,399
SRS					
CAPP Investment Pool ¹	\$ 379,310	\$ 364,915	\$ 350,935	321,984	
<i>Fixed Income:</i>					
Retirement Funds Bond Pool (RFBP)				\$	70,501
Short Term Investment Pool (STIP)	4,152	11,293	6,769	8,276	8,097
<i>Equities:</i>					
Montana Domestic Equity Pool (MDEP)					112,653
Montana International Equity Pool (MTIP)					46,091
Montana Private Equity Pool (MPEP)					33,307
<i>Alternative Investments:</i>					
Montana Real Estate Pool (MTRP)					27,586
Structured Investment Vehicles (SIV)					
Total	\$ 383,462	\$ 376,208	\$ 357,704	\$ 330,260	\$ 298,235
GWPORS					
CAPP Investment Pool ¹	\$ 210,059	\$ 199,466	\$ 189,125	171,204	
<i>Fixed Income:</i>					
Retirement Funds Bond Pool (RFBP)				\$	36,325
Short Term Investment Pool (STIP)	2,513	6,084	3,508	3,940	4,716
<i>Equities:</i>					
Montana Domestic Equity Pool (MDEP)					58,041
Montana International Equity Pool (MTIP)					23,748
Montana Private Equity Pool (MPEP)					17,161
<i>Alternative Investments:</i>					
Montana Real Estate Pool (MTRP)					14,213
Structured Investment Vehicles (SIV)					
Total	\$ 212,572	\$ 205,550	\$ 192,633	\$ 175,144	\$ 154,204

¹ Effective FY2017, the structure of plan investments was made more efficient by creating and utilizing a Consolidated Asset Pension Plan (CAPP) for all Defined Benefit Plans.

	2015		2014		2013		2012		2011
\$	28,714	\$	27,240	\$	24,239	\$	24,653	\$	24,318
	2,012		2,585		1,355		847		1,521
	51,060		49,217		41,883		36,840		35,969
	21,346		22,336		18,165		15,732		18,258
	13,757		13,184		13,673		12,958		12,136
	11,349		10,862		10,031		7,963		6,313
	17		29		18		14		26
\$	128,255	\$	125,453	\$	109,364	\$	99,007	\$	98,541
\$	65,674	\$	61,417	\$	53,724	\$	53,636	\$	51,323
	6,236		6,984		3,986		2,715		4,719
	116,812		110,982		92,868		80,065		76,580
	48,818		50,346		40,321		34,234		38,871
	31,447		29,720		30,325		28,179		25,806
	25,966		24,475		22,245		17,308		13,434
	54		77		52		44		82
\$	295,007	\$	284,001	\$	243,521	\$	216,181	\$	210,815
\$	32,954	\$	29,848	\$	25,466	\$	24,510	\$	22,834
	3,132		3,546		1,896		1,476		2,257
	58,608		53,925		44,058		36,685		34,017
	24,481		24,482		19,106		15,697		17,252
	15,792		14,481		14,411		12,940		11,524
	13,014		11,906		10,600		8,036		6,003
	27		39		25		24		39
\$	148,008	\$	138,227	\$	115,562	\$	99,368	\$	93,926

STATISTICAL SECTION

Public Employees' Retirement Board

A Component Unit of the State of Montana

Schedule of Fair Market Values by Type of Investment, Last Ten Fiscal Years (cont.)

(in thousands)

System	2020	2019	2018	2017	2016
MPORS					
CAPP Investment Pool ¹	\$ 429,318	\$ 410,397	\$ 393,802	\$ 360,476	
<i>Fixed Income:</i>					
Retirement Funds Bond Pool (RFBP)					\$ 77,621
Short Term Investment Pool (STIP)	4,267	12,369	7,757	9,147	9,642
<i>Equities:</i>					
Montana Domestic Equity Pool (MDEP)					124,032
Montana International Equity Pool (MTIP)					50,746
Montana Private Equity Pool (MPEP)					36,671
<i>Alternative Investments:</i>					
Montana Real Estate Pool (MTRP)					30,372
Structured Investment Vehicles (SIV)					
Total	\$ 433,585	\$ 422,766	\$ 401,559	\$ 369,623	\$ 329,084
FURS					
CAPP Investment Pool ¹	\$ 454,769	\$ 430,646	\$ 408,718	371,014	
<i>Fixed Income:</i>					
Retirement Funds Bond Pool (RFBP)					\$ 79,532
Short Term Investment Pool (STIP)	4,567	13,081	8,155	9,430	9,563
<i>Equities:</i>					
Montana Domestic Equity Pool (MDEP)					127,086
Montana International Equity Pool (MTIP)					51,996
Montana Private Equity Pool (MPEP)					37,573
<i>Alternative Investments:</i>					
Montana Real Estate Pool (MTRP)					31,120
Structured Investment Vehicles (SIV)					
Total	\$ 459,336	\$ 443,727	\$ 416,873	\$ 380,444	\$ 336,870
VFCA					
CAPP Investment Pool ¹	\$ 39,098	\$ 38,342	\$ 35,568	35,427	
<i>Fixed Income:</i>					
Retirement Funds Bond Pool (RFBP)					\$ 7,520
Short Term Investment Pool (STIP)	807	1,326	2,813	954	2,679
<i>Equities:</i>					
Montana Domestic Equity Pool (MDEP)					12,017
Montana International Equity Pool (MTIP)					4,917
Montana Private Equity Pool (MPEP)					3,553
<i>Alternative Investments:</i>					
Montana Real Estate Pool (MTRP)					2,943
Structured Investment Vehicles (SIV)					
Total	\$ 39,905	\$ 39,668	\$ 38,381	\$ 36,381	\$ 33,629

¹ Effective FY2017, the structure of plan investments was made more efficient by creating and utilizing a Consolidated Asset Pension Plan (CAPP) for all Defined Benefit Plans.

	2015		2014		2013		2012		2011
\$	71,807	\$	66,377	\$	57,237	\$	56,431	\$	53,729
	5,189		6,007		2,819		1,472		2,593
	127,640		119,961		98,916		84,109		79,542
	53,385		54,440		42,936		35,975		40,334
	34,373		32,111		32,305		29,657		26,844
	28,401		26,516		23,681		18,220		13,981
	45		67		37		24		45
\$	320,840	\$	305,479	\$	257,931	\$	225,888	\$	217,068

\$	72,899	\$	66,856	\$	57,369	\$	56,219	\$	53,467
	5,972		6,327		3,077		1,632		2,766
	129,543		120,837		99,213		83,940		78,947
	54,178		54,855		43,017		35,869		40,044
	34,900		32,332		32,423		29,561		26,635
	28,829		26,667		23,771		18,175		13,869
	51		70		40		26		48
\$	326,372	\$	307,944	\$	258,910	\$	225,422	\$	215,776

\$	7,181	\$	6,834	\$	6,092	\$	6,373	\$	6,415
	2,350		2,322		1,949		1,704		1,655
	12,759		12,354		10,544		9,516		9,376
	5,339		5,603		4,559		4,066		4,753
	3,439		3,297		3,436		3,348		3,145
	2,840		2,726		2,491		2,057		1,637
	20		26		26		28		29
\$	33,928	\$	33,162	\$	29,097	\$	27,092	\$	27,010

STATISTICAL SECTION

Public Employees' Retirement Board

A Component Unit of the State of Montana

Schedule of Fair Market Values by Type of Investment, Last Ten Fiscal Years (cont.)

(in thousands)

System	2020	2019	2018	2017	2016
PERS-DCRP¹					
<i>Fixed Income:</i>					
Short Term Investment Pool (STIP) ²	\$ 1,864	\$ 1,526	\$ 1,192	\$ 1,054	\$ 697
<i>Alternative Investments:</i>					
Defined Contributions Fixed Annuity	20,410	16,945	14,996	14,155	12,750
Defined Contributions Variable Annuity	274,238	244,027	210,638	177,998	141,300
Structured Investment Vehicles (SIV)					
Total	\$ 296,512	\$ 262,498	\$ 226,826	\$ 193,207	\$ 154,747
DEFERRED COMPENSATION PLAN					
<i>Fixed Income:</i>					
Short Term Investment Pool (STIP) ²	\$ 403	\$ 208	\$ 2	\$ 29	\$ 189
<i>Alternative Investments:</i>					
Deferred Comp Fixed Annuity	251,032	234,140	226,331	238,058	238,995
Deferred Comp Variable Annuity	309,662	298,053	275,265	241,505	209,135
Deferred Comp Life Insurance	12	12	12	12	12
Structured Investment Vehicles (SIV)					
Total	\$ 561,109	\$ 532,413	\$ 501,610	\$ 479,604	\$ 448,331

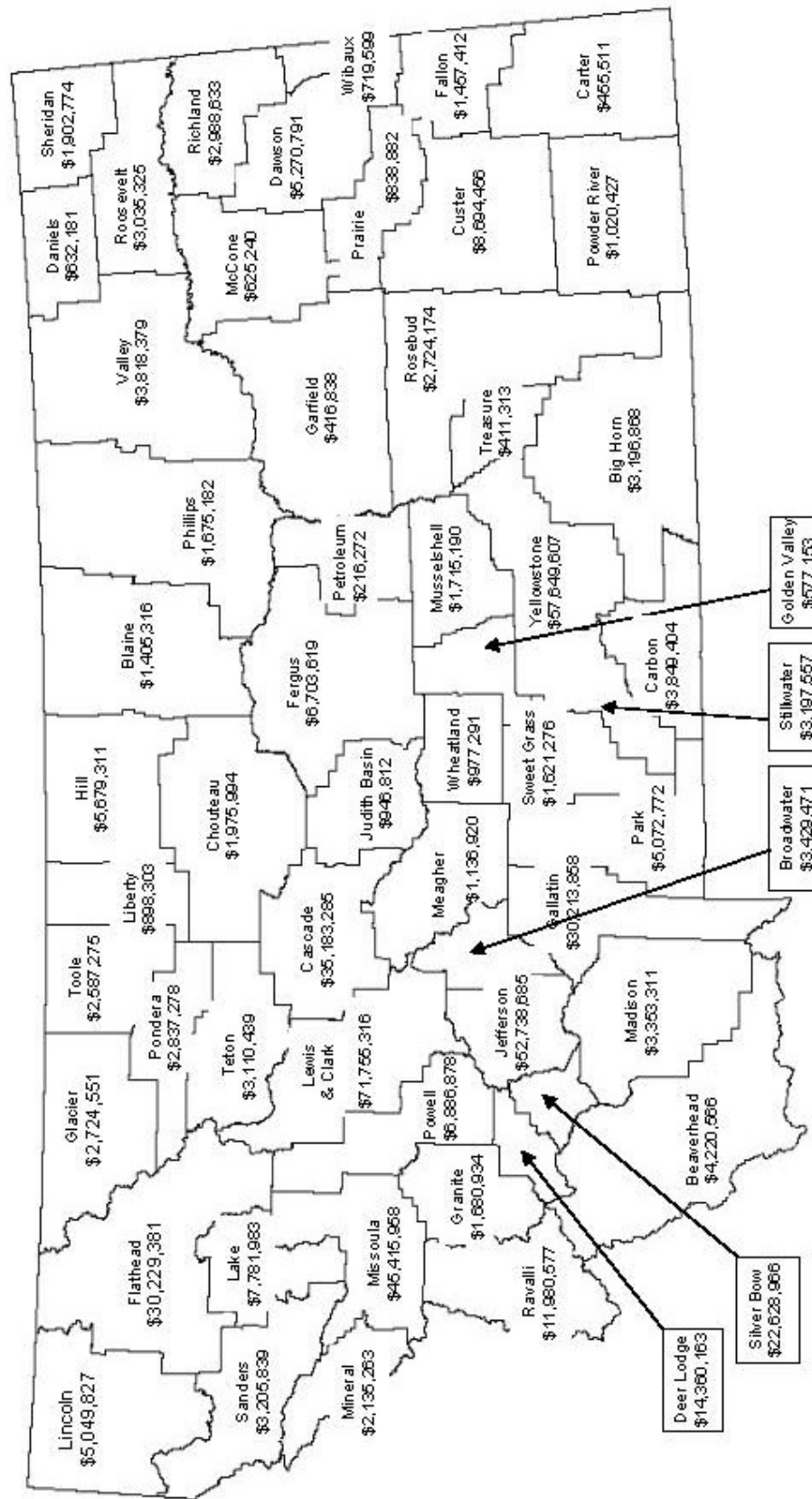
¹ Effective FY2014, the DCRP-Disability, included in the PERS-DCRP, was changed to PERS-DCRP Disability OPEB and reported as a separate Defined Benefit Plan.

² Effective FY2014, STIP was included as an investment option for the DCRP and Deferred Compensation plans.

2015	2014	2013	2012	2011
\$ 1,064	\$ 1,206	\$ 3,742	\$ 3,512	\$ 3,308
10,197	10,015	10,573	9,500	7,971
131,649	117,713	90,794	73,769	67,271
9	13	49	57	56
\$ 142,919	\$ 128,947	\$ 105,158	\$ 86,838	\$ 78,606

\$ 659	\$ 944	\$ 1,301	\$ 1,405	\$ 953
232,527	235,981	246,331	246,315	224,800
206,925	196,453	151,259	129,922	135,180
12	12	12	12	12
6	11	17	23	16
\$ 440,129	\$ 433,401	\$ 398,920	\$ 377,677	\$ 360,961

Montana Public Employees Retirement Administration
Retirement Benefits Paid Out – Fiscal Year 2020



Total Benefits Paid In Montana: \$497,016,584
Total Recipients in Montana: 29,756

Other States \$56,495,664
International \$ 456,440

The total benefits on this schedule differ from those on the Defined Benefit Plan Benefits on the Statement of Changes in Fiduciary Net Position on page 38 due to prior year adjustments.

Public Employees' Retirement Board

A Component Unit of the State of Montana

Schedule of Contribution Rate History

PERS-DBRP

Fiscal Year	State & Universities		Local Government			School Districts	
	Member	Employer	Employer	State		Employer	State
	Hired <07/01/11 Hired ≥ 07/01/11						
2020	7.900%	7.900%	8.770%	8.670%	0.100%	8.400%	0.370%
2019	7.900%	7.900%	8.670%	8.570%	0.100%	8.300%	0.370%
2018	7.900%	7.900%	8.570%	8.470%	0.100%	8.200%	0.370%
2017	7.900%	7.900%	8.470%	8.370%	0.100%	8.100%	0.370%
2016	7.900%	7.900%	8.370%	8.270%	0.100%	8.000%	0.370%
2015	7.900%	7.900%	8.270%	8.170%	0.100%	7.900%	0.370%
2014	7.900%	7.900%	8.170%	8.070%	0.100%	7.800%	0.370%
2012-2013	6.900%	7.900%	7.170%	7.070%	0.100%	6.800%	0.370%
2010-2011	6.900%		7.170%	7.070%	0.100%	6.800%	0.370%
2008-2009	6.900%		7.035%	6.935%	0.100%	6.800%	0.235%
2000-2007	6.900%		6.900%	6.800%	0.100%	6.800%	0.100%
1998-1999	6.800%		6.800%	6.700%	0.100%	6.700%	0.100%
1994-1997	6.700%		6.700%	6.700%		6.700%	
1993	6.550%		6.550%	6.550%		6.550%	
1992	6.417%		6.417%	6.417%		6.417%	
1991	6.300%		6.417%	6.417%		6.417%	
1990	6.150%		6.417%	6.417%		6.417%	
1984-1989	6.000%		6.417%	6.417%		6.417%	
1982-1983	6.000%		6.320%	6.320%		6.320%	
1979-1981	6.000%		6.200%	6.200%		6.200%	
1978	6.000%		5.950%	5.950%		5.950%	
1977	6.000%		5.550%	5.550%		5.550%	
1976	6.000%		5.200%	5.200%		5.200%	
1974-1975	5.750%		4.900%	4.900%		4.900%	
1972-1973	5.750%		4.600%	4.600%		4.600%	
1970-1971	5.750%		4.300%	4.300%		4.300%	
1968-1969	5.750%		3.800%	3.800%		3.800%	
1947-1967*	2.5%-9.6%		3.300%	3.300%		3.300%	
1945-1947*	2.5%-9.6%		3.000%	3.000%		3.000%	

*1945 - 1967 Member Contributions were based on age and gender.

JRS

Fiscal Year	Member	Employer
1998-2020	7.000%	25.810 %
1993-1997	7.000%	6.000 %
1968-1992	6.000%	6.000 %

Prior to 1998 the employer contributed 6% and additional contributions were received based on a portion of the District Court filing fees. In 1998 the filing fees were eliminated and the employer rate was increased to 25.81%.

The employer contributions were temporarily suspended for JRS beginning the first full pay period of January 2018 until after the last full pay period of June 2019, when the employer contributions were reinstated to 25.81%.

STATISTICAL SECTION

Public Employees' Retirement Board

A Component Unit of the State of Montana

Schedule of Contribution Rate History (cont.)

HPORS

Fiscal Year	Member		Employer	State
	Non-GABA	GABA		
2017-2020	13.000 %	13.050 %	28.150 %	10.180 %
2016	12.000 %	12.050 %	28.150 %	10.180 %
2015	11.000 %	11.050 %	28.150 %	10.180 %
2014	10.000 %	10.050 %	28.150 %	10.180 %
1998-2013	9.000 %	9.050 %	26.150 %	10.180 %
1992-1997	9.000 %		26.100 %	10.180 %
1991	7.590 %		26.100 %	10.180 %
1986-1990	7.590 %		16.570 %	10.180 %
1982-1985	6.500 %		16.570 %	
1976-1981	6.500 %		16.000 %	
1975	6.500 %		15.000 %	
1971-1974	5.000 %		8.000 %	

SRS

Fiscal Year	Member	Employer
2018-2020	10.495 %	13.115 %
2010-2017	9.245 %	10.115 %
2008-2009	9.245 %	9.825 %
1998-2007	9.245 %	9.535 %
1997	7.865 %	8.535 %
1996	7.865 %	8.535 %
1986-1995	7.000 %	7.670 %
1982-1985	7.000 %	7.620 %
1975-1981	7.000 %	7.550 %

GWPORS

Fiscal Year	Member	Employer
2003-2020	10.560 %	9.000 %
1998-2002	8.500 %	9.000 %
1996-1997	7.900 %	8.150 %
1986-1995	7.900 %	7.150 %
1982-1985	7.000 %	7.150 %
1964-1981	7.000 %	7.000 %

Public Employees' Retirement Board

A Component Unit of the State of Montana

Schedule of Contribution Rate History (cont.)

MPORS

Fiscal Year	Member				Employer	State
	Hired <7/1/75	Hired >6/30/75	Hired >6/30/79	Hired >6/30/97 GABA		
2000-2020	5.800 %	7.000 %	8.500 %	9.000 %	14.410 %	29.370 %
1998-1999	7.800 %	9.000 %	10.500 %	11.000 %	14.410 %	29.370 %
1997	7.800 %	9.000 %	10.500 %		14.360 %	29.370 %
1994-1996	7.800 %	9.000 %	10.500 %		14.360 %	15.660 %
1993	7.800 %	9.000 %	10.500 %		13.920 %	15.660 %
1992	6.000 %	7.200 %	8.700 %		13.920 %	15.660 %
1986-1991	6.000 %	6.000 %	7.500 %		13.020 %	15.060 %
1982-1985	6.000 %	6.000 %	7.500 %		14.040 %	14.040 %
1980-1981	6.000 %	6.000 %	7.500 %		14.000 %	14.000 %
1978-1979	6.000 %	6.000 %			12.000 %	12.000 %
1976-1977	6.000 %	6.000 %			11.000 %	12.000 %
1974-1975	6.000 %				11.000 %	12.000 %

FURS

Fiscal Year	Member			
	Non-GABA	GABA	Employer	State
1998-2020	9.500 %	10.700 %	14.360 %	32.610 %
1997	7.800 %		14.360 %	32.610 %
1996	7.800 %		14.360 %	24.210 %
1995	6.000 %		13.020 %	24.210 %
1992-1994	6.000 %		13.020 %	23.270 %
1986-1991	6.000 %		13.020 %	22.980 %
1984-1985	6.000 %		18.000 %	18.000 %
1983	6.000 %		15.000 %	15.000 %
1981-1982	6.000 %		12.000 %	12.000 %

PERS-DCRP

Fiscal Year	State & University			Local Government		School Districts	
	Member			Employer	State	Employer	State
	Hired <07/01/11	Hired ≥ 07/01/11	Employer				
2020	7.900 %	7.900 %	8.770 %	8.670 %	0.100 %	8.400 %	0.370 %
2019	7.900 %	7.900 %	8.670 %	8.570 %	0.100 %	8.300 %	0.370 %
2018	7.900 %	7.900 %	8.570 %	8.470 %	0.100 %	8.200 %	0.370 %
2017	7.900 %	7.900 %	8.470 %	8.370 %	0.100 %	8.100 %	0.370 %
2016	7.900 %	7.900 %	8.370 %	8.270 %	0.100 %	8.000 %	0.370 %
2015	7.900 %	7.900 %	8.270 %	8.170 %	0.100 %	7.900 %	0.370 %
2014	7.900 %	7.900 %	8.170 %	8.070 %	0.100 %	7.800 %	0.370 %
2012-2013	6.900 %	7.900 %	7.170 %	7.070 %	0.100 %	6.800 %	0.370 %
2010-2011	6.900 %		7.170 %	7.070 %	0.100 %	6.800 %	0.370 %
2008-2009	6.900 %		7.035 %	6.935 %	0.100 %	6.800 %	0.235 %
2003-2007	6.900 %		6.900 %	6.800 %	0.100 %	6.800 %	0.100 %

STATISTICAL SECTION

Public Employees' Retirement Board

A Component Unit of the State of Montana

History of Membership in Retirement Plans, Last Ten Fiscal Years

System	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011
PERS-DBRP										
Active	29,039	28,908	28,646	29,395	28,390	28,237	28,229	28,401	28,548	28,659
Retirees/Beneficiaries	23,856	23,245	22,556	21,805	21,333	20,681	20,081	19,451	18,738	18,123
Term-Non-Vested	20,548	19,316	17,973	16,659	10,031	8,839	7,666	6,712	6,164	5,787
Term-Vested	4,070	3,943	3,793	3,677	3,062	2,925	2,825	2,686	2,560	2,535
Total	77,513	75,412	72,968	71,536	62,816	60,682	58,801	57,250	56,010	55,104

The Term-Non-Vested count for fiscal year 2017 forward includes dormant accounts that were previously not counted.

JRS										
Active	58	58	55	56	55	55	55	54	54	54
Retirees/Beneficiaries	72	73	70	68	68	67	67	65	56	58
Term-Non-Vested	1	1	1	1						
Term-Vested	2	2	3	2	2	2	1			
Total	133	134	129	127	125	124	123	119	110	112

HPORS										
Active ¹	233	232	233	238	228	241	229	219	218	214
Retirees/Beneficiaries	350	342	338	331	329	327	322	310	305	302
Term-Non-Vested	31	25	23	17	18	13	14	11	10	9
Term-Vested	17	18	14	16	16	11	11	14	11	11
Total	631	617	608	602	591	592	576	554	544	536

SRS										
Active	1,502	1,454	1,429	1,415	1,364	1,336	1,307	1,276	1,241	1,230
Retirees/Beneficiaries	763	726	681	648	620	577	533	503	469	441
Term-Non-Vested	696	633	539	465	394	342	288	235	212	196
Term-Vested	146	135	129	108	95	81	73	67	60	48
Total	3,107	2,948	2,778	2,636	2,473	2,336	2,201	2,081	1,982	1,915

¹Includes Drop Accounts

Public Employees' Retirement Board

A Component Unit of the State of Montana

History of Membership in Retirement Plans, Last Ten Fiscal Years (cont)

System	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011
GWPORS										
Active	1,033	1,021	1,010	1,012	989	993	955	971	972	951
Retirees/Beneficiaries	384	346	312	276	250	231	203	180	163	145
Term-Non-Vested	495	447	382	304	278	235	175	148	146	113
Term-Vested	135	138	123	114	105	95	87	69	64	61
Total	2,047	1,952	1,827	1,706	1,622	1,554	1,420	1,368	1,345	1,270
MPORS										
Active ¹	829	806	787	775	762	743	743	734	701	739
Retirees/Beneficiaries	870	850	812	791	768	744	716	710	676	676
Term-Non-Vested	181	164	153	143	112	103	90	77	76	71
Term-Vested	95	94	78	75	61	60	55	52	49	40
Total	1,975	1,914	1,830	1,784	1,703	1,650	1,604	1,573	1,502	1,526
FURS										
Active	735	722	691	678	644	627	616	610	590	579
Retirees/Beneficiaries	678	661	652	630	621	609	595	587	571	552
Term-Non-Vested	72	67	66	54	77	71	66	63	62	60
Term-Vested	39	36	41	39	27	21	19	15	13	13
Total	1,524	1,486	1,450	1,401	1,369	1,328	1,296	1,275	1,236	1,204
VFCA										
Active	2,401	2,249	2,029	1,957	1,895	1,977	1,935	2,101	2,106	2,105
Retirees/Beneficiaries	1,524	1,488	1,474	1,438	1,425	1,371	1,332	1,285	1,242	1,183
Term-Vested	766	777	815	824	878	905	939	884	879	870
Total	4,691	4,514	4,318	4,219	4,198	4,253	4,206	4,270	4,227	4,158

STATISTICAL SECTION

Public Employees' Retirement Board

A Component Unit of the State of Montana

Schedule of Benefit Expenses and Refunds by Type, Last Ten Fiscal Years

System	2020	2019	2018	2017	2016
PERS-DBRP					
<i>Benefit Expenses¹</i>					
Retirees	\$ 416,464	\$ 389,530	\$ 365,082	\$ 338,438	\$ 335,806
Survivors ²	30,307	28,854	25,941	24,082	5,119
Disability	1,918	1,966	2,073	1,873	2,045
<i>Refunds</i>					
Death	1,053	2,094	2,243	1,962	1,134
Lump Sum	11,923	12,361	12,619	12,252	10,379
Total	\$ 461,665	\$ 434,805	\$ 407,958	\$ 378,607	\$ 354,483
Number of Lump Sum	1,423	1,625	1,353	1,269	1,717
JRS					
<i>Benefit Expenses¹</i>					
Retirees	\$ 3,122	\$ 2,862	\$ 2,708	\$ 2,645	\$ 3,278
Survivors ²	916	941	954	849	26
Disability		36	61	60	109
<i>Refunds</i>					
Death	7	7			3
Lump Sum			149		
Total	\$ 4,045	\$ 3,846	\$ 3,872	\$ 3,554	\$ 3,416
Number of Lump Sum			1		
HPORS					
<i>Benefit Expenses¹</i>					
Retirees	\$ 10,250	\$ 9,721	\$ 9,793	\$ 9,473	\$ 10,053
Survivors ²	2,257	2,155	1,541	1,386	245
Disability	163	179	212	177	181
<i>Refunds</i>					
Death	11	7			3
Lump Sum	331	582	322	245	94
Total	\$ 13,012	\$ 12,644	\$ 11,868	\$ 11,281	\$ 10,576
Number of Lump Sum	3	2	3	9	4
Number of DROP	3	1			
SRS					
<i>Benefit Expenses¹</i>					
Retirees	\$ 19,220	\$ 17,318	\$ 16,058	\$ 14,861	\$ 14,123
Survivors ²	1,354	1,301	1,146	1,071	532
Disability	898	821	739	744	792
<i>Refunds</i>					
Death	5	72	110	24	29
Lump Sum	1,566	1,439	1,490	1,383	1,029
Total	\$ 23,043	\$ 20,951	\$ 19,543	\$ 18,083	\$ 16,505
Number of Lump Sum	108	95	107	98	110

¹ The Benefit expenses on this schedule differ from those on others due to prior year adjustments on the other schedules.

² The amount of survivors increased in fiscal year 2017 forward due to the way the newly implemented computer system categorizes survivors.

	2015		2014		2013		2012		2011
\$	311,019	\$	287,895	\$	267,690	\$	245,959	\$	224,108
	4,717		4,512		4,240		3,968		3,748
	2,301		2,048		1,922		2,065		2,253
	1,465		1,728		169		770		1,114
	11,688		10,070		11,254		11,991		11,302
\$	331,190	\$	306,253	\$	285,275	\$	264,753	\$	242,525
	1,661		1,809		2,237		2,307		1,998
\$	2,928	\$	2,911	\$	2,478	\$	2,291	\$	2,190
	113		112		75		53		50
\$	3,041	\$	3,023	\$	2,553	\$	2,344	\$	2,240
\$	9,498	\$	8,894	\$	8,270	\$	7,794	\$	7,462
	238		238		248		239		233
	196		212		191		188		162
							2		9
	69		84		51		65		121
\$	10,001	\$	9,428	\$	8,760	\$	8,288	\$	7,987
	4		5		5		8		5
\$	12,560	\$	11,482	\$	10,430	\$	9,356	\$	8,273
	471		403		392		347		292
	988		802		761		676		665
	1		45						7
	1,217		1,185		1,159		1,248		938
\$	15,237	\$	13,917	\$	12,742	\$	11,627	\$	10,175
	115		107		137		144		102

STATISTICAL SECTION

Public Employees' Retirement Board

A Component Unit of the State of Montana

Schedule of Benefit Expenses and Refunds by Type, Last Ten Fiscal Years (cont.)

(in thousands)

System	2020	2019	2018	2017	2016
GWPORS					
<i>Benefit Expenses¹</i>					
Retirees	\$ 7,615	\$ 6,695	\$ 5,932	\$ 5,233	\$ 4,910
Survivors ²	582	549	499	487	86
Disability	26	75	49	66	71
<i>Refunds</i>					
Death	29	31	43	24	1
Lump Sum	1,200	1,001	1,105	1,036	1,066
Total	\$ 9,452	\$ 8,351	\$ 7,628	\$ 6,846	\$ 6,134
Number of Lump Sum	90	88	75	64	97
MPORS					
<i>Benefit Expenses¹</i>					
Retirees	\$ 22,283	\$ 20,895	\$ 21,622	\$ 20,628	\$ 20,548
Survivors ²	4,525	4,219	1,928	1,720	747
Disability	966	1,093	936	850	663
<i>Refunds</i>					
Death	6	14	81	4	3
DROP			772	273	819
Lump Sum	2,328	3,637	1,903	1,043	421
Total	\$ 30,108	\$ 29,858	\$ 27,242	\$ 24,518	\$ 23,201
Number of Lump Sum	20	24	19	17	29
Number of DROP	9	1	8	2	5
FURS					
<i>Benefit Expenses¹</i>					
Retirees	\$ 21,941	\$ 21,084	\$ 19,658	\$ 18,470	\$ 20,189
Survivors ²	4,494	4,243	3,919	3,651	478
Disability	386	294	282	211	224
<i>Refunds</i>					
Death	9	5	4	4	5
Lump Sum	62	90	173	168	46
Total	\$ 26,892	\$ 25,716	\$ 24,036	\$ 22,504	\$ 20,942
Number of Lump Sum	4	9	12	8	8
VFCA					
<i>Benefit Expenses¹</i>					
Retirees	\$ 3,044	\$ 2,985	\$ 2,933	\$ 2,858	\$ 2,623
Survivors ²	10	11	11		
Disability		1			
Total	\$ 3,055	\$ 2,997	\$ 2,944	\$ 2,858	\$ 2,623

¹ The Benefit expenses on this schedule differ from those on others due to prior year adjustments on the other schedules

² The amount of survivors increased in fiscal year 2017 forward due to the way the newly implemented computer system categorizes survivors.

	2015		2014		2013		2012		2011
\$	4,412	\$	3,789	\$	3,497	\$	3,106	\$	2,801
	88		61		59		80		54
	50		60		19		7		2
			69				10		6
	801		1,187		841		1,227		991
\$	5,351	\$	5,166	\$	4,416	\$	4,430	\$	3,854
	103		110		122		130		114
<hr/>									
\$	19,294	\$	18,245	\$	17,269	\$	16,195	\$	15,835
	696		675		656		654		629
	568		530		538		504		546
	2						1		3
	1,446		469		1,177		352		449
	733		549		656		355		498
\$	22,739	\$	20,468	\$	20,296	\$	18,061	\$	17,960
	37		36		44		37		36
	10		5		7		4		5
<hr/>									
\$	18,986	\$	18,106	\$	16,965	\$	15,884	\$	12,554
	484		490		478		466		479
	271		252		227		169		2,560
	4		24						12
	2		166		73		119		128
\$	19,747	\$	19,038	\$	17,743	\$	16,638	\$	15,733
	8		9		6		13		6
<hr/>									
\$	2,369	\$	2,281	\$	2,819	\$	2,046	\$	1,938
<hr/>									
\$	2,369	\$	2,281	\$	2,819	\$	2,046	\$	1,938

Public Employees' Retirement Board

A Component Unit of the State of Montana

Schedule of Distributions Processed, Last Ten Fiscal Years

(in thousands)

System	2020	2019	2018	2017	2016
PERS-DCRP					
Number of Retirements	89	74	57	32	27
Number of Deaths	1	8	8	8	11
Amount of Benefits	\$ 734	\$ 942	\$ 403	\$ 232	\$ 262
Number of Full Refunds	203	177	181	167	246
Amount Refunded	\$ 7,438	\$ 6,503	\$ 7,415	\$ 5,554	\$ 4,106
Number of Partial Refunds	33	74	70	45	52
Amount Refunded	\$ 1,687	\$ 1,975	\$ 1,928	\$ 1,251	\$ 931
Number of Forfeitures	132	132	117	114	115
Amount of Contributions Forfeited ¹	\$ 775	\$ 714	\$ 746	\$ 397	\$ 383

¹ Members terminating with less than 5 years of membership service forfeit their employer contributions.

	2015	2014	2013	2012	2011
	20	26	35	4	8
	5	8	5	1	
\$	190 \$	155 \$	154 \$	573 \$	38
	164	147	179	158	182
\$	5,215 \$	3,616 \$	3,759 \$	3,077 \$	3,226
	46	57	60	35	75
\$	698 \$	967 \$	436 \$	323 \$	393
	91	72	75	98	124
\$	333 \$	252 \$	398 \$	415 \$	417

STATISTICAL SECTION

Public Employees' Retirement Board

A Component Unit of the State of Montana

Retired Members by Type of Benefit

As of June 30, 2020

	Amount of Monthly Benefit	# of Retired Members	Type of Retirement		
			Regular	Disability	Survivor ²
PERS-DBRP	\$1-250	1,682	1,603	1	78
	\$251-500	3,402	3,275	29	98
	\$501-750	2,931	2,818	26	87
	\$751-1,000	2,444	2,352	23	69
	\$1,001-1,250	2,033	1,981	17	35
	\$1,251-1,500	1,618	1,567	12	39
	\$1,501-1,750	1,332	1,306	9	17
	\$1,751-2,000	1,253	1,229	7	17
	Over \$2,000	7,161	7,075	14	72
	Total	23,856	23,206	138	512
	Amount of Monthly Benefit	# of Retired Members	Type of Retirement		
			Regular	Disability	Survivor ²
PERS-DCRP	\$1-250				
Disability OPEB	\$251-500	3		3	
	\$501-750	2		2	
	\$751-1,000				
	\$1,001-1,250				
	\$1,251-1,500	3		3	
	\$1,501-1,750				
	\$1,751-2,000	1		1	
	Over \$2,000				
	Total	9		9	
	Amount of Monthly Benefit	# of Retired Members	Type of Retirement		
			Regular	Disability	Survivor ²
JRS	\$1-250				
	\$251-500				
	\$501-750				
	\$751-1,000	1	1		
	\$1,001-1,250	1			1
	\$1,251-1,500	4	4		
	\$1,501-1,750	6	6		
	\$1,751-2,000				
	Over \$2,000	60	58		2
	Total	72	69		3

¹ Option Selected:

1 - Beneficiary receives lump sum of member's unused contributions

2 - Beneficiary receives 100 percent of member's reduced monthly benefit

3 - Beneficiary receives 50 percent of member's reduced monthly benefit

4 10 yrs - Guaranteed for the life of member or a minimum of 10 years after member's retirement

4 20 yrs - Guaranteed for the life of member or a minimum of 20 years after member's retirement

Statutory - A surviving spouse or dependent child of a member of HPORS, MPORS, or FURS receiving benefits upon the death of the member

Non-Increasing Annuity - An optional death benefit, payable for life to a PERS beneficiary who elects to receive a death payment as defined in §19-3-1202, MCA in lieu of a survivor benefit available under §19-3-1204, MCA

² For the purposes of this schedule, Survivor is anyone receiving a monthly benefit that is not the original member.

Public Employees' Retirement Board

A Component Unit of the State of Montana

Retired Members by Type of Benefit

As of June 30, 2020

	Option Selected ¹							GABA	NON-GABA
	1	2	3	4 10 yrs	4 20 yrs	Statutory	Non-Increasing Annuity		
PERS-DBRP	1,229	285	50	20	69		29	1,668	14
	2,391	682	122	54	145		8	3,396	6
	1,968	628	134	55	144		2	2,929	2
	1,588	558	148	53	96		1	2,444	
	1,332	440	159	34	68			2,033	
	1,017	366	144	40	51			1,617	1
	830	324	120	27	31			1,332	
	728	359	114	26	26			1,253	
	4,003	1,843	935	167	213			7,161	
	15,086	5,485	1,926	476	843		40	23,833	23
	Option Selected ¹							GABA ³	NON-GABA
	1	2	3	4 10 yrs	4 20 yrs	Statutory	Non-Increasing Annuity		
PERS-DCRP									
Disability OPEB	3								3
	2								2
	3								3
	1								1
	9								9
	Option Selected ¹							GABA	NON-GABA
	1	2	3	4 10 yrs	4 20 yrs	Statutory	Non-Increasing Annuity		
JRS									
		1							1
							1		1
	1	3							4
	1	3	2					5	1
	21	29	7		3			34	26
	23	36	9		3		1	39	33

³ GABA is not an option for PERS DCRP-Disability OPEB retired members

GABA - Members covered under the Guaranteed Annual Benefit Adjustment

NON-GABA - Members not covered under the Guaranteed Annual Benefit Adjustment

STATISTICAL SECTION

Public Employees' Retirement Board

A Component Unit of the State of Montana

Retired Members by Type of Benefit

As of June 30, 2020

	Amount of Monthly Benefit	# of Retired Members ²	Type of Retirement		
			Regular	Disability	Survivor ³
HPORS	\$1-250				
	\$251-500	7	6		1
	\$501-750	7	5		2
	\$751-1,000	10	9		1
	\$1,001-1,250	5	4		1
	\$1,251-1,500	3	3		
	\$1,501-1,750	6	5		1
	\$1,751-2,000	13	12		1
	Over \$2,000	299	272	4	23
	Total	350	316	4	30
SRS	\$1-250	20	17		3
	\$251-500	34	33		1
	\$501-750	63	58	2	3
	\$751-1,000	43	43		
	\$1,001-1,250	26	26		
	\$1,251-1,500	40	38		2
	\$1,501-1,750	42	40	2	
	\$1,751-2,000	41	35	3	3
	Over \$2,000	454	421	21	12
	Total	763	711	28	24
GWPORS	\$1-250	3	3		
	\$251-500	23	22		1
	\$501-750	45	42	1	2
	\$751-1,000	39	35		4
	\$1,001-1,250	30	29		1
	\$1,251-1,500	38	35	1	2
	\$1,501-1,750	32	32		
	\$1,751-2,000	30	30		
	Over \$2,000	144	144		
	Total	384	372	2	10

¹ Option Selected:

1 - Beneficiary receives lump sum of member's unused contributions

2 - Contingent Annuitant receives 100 percent of member's reduced monthly benefit

3 - Contingent Annuitant receives 50 percent of member's reduced monthly benefit

4 10 yrs - Guaranteed for the life of member or a minimum of 10 years after member's retirement

4 20 yrs - Guaranteed for the life of member or a minimum of 20 years after member's retirement

Statutory - A surviving spouse or dependent child of a member of HPORS, MPORS, or FURS receiving benefits upon the death of the member

Non-Increasing Annuity - An optional death benefit, payable for life to a PERS beneficiary who elects to receive a death payment as defined in §19-3-1202, MCA in lieu of a survivor benefit available under §19-3-1204, MCA

² HPORS does not include DROP members.

³ For the purposes of this schedule, Survivor is anyone receiving a monthly benefit that is not the original member.

Public Employees' Retirement Board

A Component Unit of the State of Montana

Retired Members by Type of Benefit

As of June 30, 2020

	Option Selected ¹						Non-Increasing Annuity	GABA	NON-GABA
	1	2	3	4 10 yrs	4 20 yrs	Statutory			
HPORS						7		5	2
						7		7	
						10		7	3
						5		3	2
						3		3	
						6		5	1
						13		6	7
						299		246	53
						350		282	68

	Option Selected ¹						Non-Increasing Annuity	GABA	NON-GABA
	1	2	3	4 10 yrs	4 20 yrs	Statutory			
SRS	11	7	2					20	
	13	14	4		3			34	
	31	24	4	1	3			63	
	25	13	3		2			43	
	11	11	2	2				26	
	16	17	5		2			40	
	17	20	3	1	1			42	
	15	22	2		2			41	
	226	143	47	16	22			454	
	365	271	72	20	35			763	

	Option Selected ¹						Non-Increasing Annuity	GABA	NON-GABA
	1	2	3	4 10 yrs	4 20 yrs	Statutory			
GWPORS	3							3	
	8	12	1		2			23	
	25	13	2	1	4			45	
	23	10	2		4			39	
	14	10	5	1				30	
	19	9	7		3			38	
	17	9	5		1			32	
	21	8	1					30	
	61	54	17	3	9			144	
	191	125	40	5	23			384	

GABA - Members covered under the Guaranteed Annual Benefit Adjustment

NON-GABA - Members not covered under the Guaranteed Annual Benefit Adjustment

STATISTICAL SECTION

Public Employees' Retirement Board

A Component Unit of the State of Montana

Retired Members by Type of Benefit

As of June 30, 2020

	Amount of Monthly Benefit	# of Retired Members ²	Type of Retirement		
			Regular	Disability	Survivor ³
MPORS	\$1-250	30	30		
	\$251-500	18	18		
	\$501-750	22	21		1
	\$751-1,000	23	21		2
	\$1,001-1,250	22	18		4
	\$1,251-1,500	9	9		
	\$1,501-1,750	20	18	1	1
	\$1,751-2,000	53	45		8
	Over \$2,000	673	597	26	50
	Total	870	777	27	66
FURS	\$1-250	8	7		1
	\$251-500	40	36		4
	\$501-750	6	6		
	\$751-1,000	9	9		
	\$1,001-1,250	7	7		
	\$1,251-1,500	6	6		
	\$1,501-1,750	11	9	2	
	\$1,751-2,000	37	32		5
	Over \$2,000	554	504	10	40
	Total	678	616	12	50
VFCA	\$1-250	1,483	1,477	1	5
	\$251-500	41	41		
	\$501-750				
	\$751-1,000				
	\$1,001-1,250				
	\$1,251-1,500				
	\$1,501-1,750				
	\$1,751-2,000				
	Over \$2,000				
	Total	1,524	1,518	1	5

¹ Option Selected (excluding the VFCA):

1 - Beneficiary receives lump sum of member's unused contributions

2 - Contingent Annuitant receives 100 percent of member's reduced monthly benefit

3 - Contingent Annuitant receives 50 percent of member's reduced monthly benefit

4 10 yrs - Guaranteed for the life of member or a minimum of 10 years after member's retirement

4 20 yrs - Guaranteed for the life of member or a minimum of 20 years after member's retirement

Statutory - A surviving spouse or dependent child of a member of HPORS, MPORS, or FURS receiving benefits upon the death of the member

Non-Increasing Annuity - An optional death benefit, payable for life to a PERS beneficiary who elects to receive a death payment as defined in §19-3-1202, MCA in lieu of a survivor benefit available under §19-3-1204, MCA

² MPORS does not include DROP members.

³ For the purposes of this schedule, Survivor is anyone receiving a monthly benefit that is not the original member.

⁴ Option Selected VFCA:

1 - Member receiving monthly benefit

2 - Non-Increasing Annuity - Benefit paid to survivor equal to member's full or partial benefit. Benefit is limited to 40 months including any pension paid to member before death

Public Employees' Retirement Board

A Component Unit of the State of Montana

Retired Members by Type of Benefit

As of June 30, 2020

	Option Selected ¹						Non-Increasing Annuity	GABA	NON-GABA
	1	2	3	4 10 yrs	4 20 yrs	Statutory			
MPORS						30		28	2
						18		18	
						22		21	1
						23		23	
						22		22	
						9		9	
						20		14	6
						53		52	1
						673		629	44
						870		816	54

	Option Selected ¹						Non-Increasing Annuity	GABA	NON-GABA
	1	2	3	4 10 yrs	4 20 yrs	Statutory			
FURS						8		7	1
						40		33	7
						6		6	
						9		9	
						7		7	
						6		6	
						11		10	1
						37		37	
						554		532	22
						678		647	31

	Option Selected ⁴						Non-Increasing Annuity	GABA	NON-GABA
	1	2	3	4 10 yrs	4 20 yrs	Statutory			
VFCA						1,483			1,483
						41			41
						1,524			1,524

GABA - Members covered under the Guaranteed Annual Benefit Adjustment

NON-GABA - Members not covered under the Guaranteed Annual Benefit Adjustment

STATISTICAL SECTION

Public Employees' Retirement Board

A Component Unit of the State of Montana

Schedule of Active Members by Age and Gender

As of June 30, 2020

System	Ages	Male	Female	Unknown ¹	Total	System	Ages	Male	Female	Unknown ¹	Total
PERS-DBRP	Under 20	50	63	30	143	GWPORS	Under 20	9	1		10
	20 - 29	1,328	1,714	18	3,060		20 - 29	159	47		206
	30 - 39	2,481	3,191	46	5,718		30 - 39	203	72		275
	40 - 49	2,704	3,574	27	6,305		40 - 49	217	63		280
	50 - 59	3,468	4,489	43	8,000		50 - 59	162	42		204
	60 - 69	2,323	2,872	18	5,213		60 - 69	42	15		57
	70 & Older	309	283	4	596		70 & Older	1			1
	Unknown ¹			4	4		Unknown ¹				
	Total	12,663	16,186	190	29,039		Total	793	240		1,033
JRS	Under 20					MPORS ²	Under 20		1		1
	20 - 29						20 - 29	144	23		167
	30 - 39	1	1		2		30 - 39	284	34	1	319
	40 - 49	4	4		8		40 - 49	187	10		197
	50 - 59	13	10		23		50 - 59	81	8		89
	60 - 69	14	6		20		60 - 69	4			4
	70 & Older	5			5		70 & Older	1			1
	Unknown ¹						Unknown ¹				
	Total	37	21		58		Total	701	76	1	778
HPORS ³	Under 20					FURS	Under 20				
	20 - 29	42	2		44		20 - 29	105	7		112
	30 - 39	70	10		80		30 - 39	271	17		288
	40 - 49	58	2		60		40 - 49	237	4		241
	50 - 59	22	1		23		50 - 59	78	1		79
	60 - 69	4			4		60 - 69	15			15
	70 & Older						70 & Older				
	Unknown ¹						Unknown ¹				
	Total	196	15		211		Total	706	29		735
SRS	Under 20	6	1		7	PERS-DCRP	Under 20	2	1	1	4
	20 - 29	306	80		386		20 - 29	118	176		294
	30 - 39	366	72	1	439		30 - 39	307	398		705
	40 - 49	290	45	2	337		40 - 49	364	457	1	822
	50 - 59	209	43	1	253		50 - 59	386	412		798
	60 - 69	66	10		76		60 - 69	192	249		441
	70 & Older	3	1		4		70 & Older	17	19		36
	Unknown ¹						Unknown ¹				
	Total	1,246	252	4	1,502		Total	1,386	1,712	2	3,100

¹ Membership data not received as of June 30, 2020.

² MPORS does not include DROP.

³ HPORS does not include DROP.

VFCA not included because membership data not required on members until retirement.

Public Employees' Retirement Board

A Component Unit of the State of Montana

Schedule of Retired Members by Age and Gender

As of June 30, 2020

System	Ages	Male	Female	Unknown	Total	System	Ages	Male	Female	Unknown	Total
PERS-DBRP	Under 20					GWPORS	Under 20				
	20 - 29	3	9		12		20 - 29	1	1		2
	30 - 39	30	39		69		30 - 39		3		3
	40 - 49	39	62	1	102		40 - 49		2		2
	50 - 59	466	567	3	1,036		50 - 59	76	17		93
	60 - 69	3,871	4,980	8	8,859		60 - 69	123	43		166
	70 & Older	5,698	8,072	8	13,778		70 & Older	92	26		118
	Total	10,107	13,729	20	23,856		Total	292	92		384
JRS	Under 20					MPORS ¹	Under 20	4	2		6
	20 - 29						20 - 29				
	30 - 39						30 - 39	6			6
	40 - 49						40 - 49	39	14		53
	50 - 59		1		1		50 - 59	184	48		232
	60 - 69	12	6		18		60 - 69	213	46		259
	70 & Older	34	19		53		70 & Older	208	106		314
	Total	46	26		72		Total	654	216		870
HPORS ¹	Under 20					FURS	Under 20				
	20 - 29	1			1		20 - 29				
	30 - 39						30 - 39	7	2		9
	40 - 49	14	7		21		40 - 49	17	7		24
	50 - 59	62	16		78		50 - 59	114	20		134
	60 - 69	47	22		69		60 - 69	171	29		200
	70 & Older	131	49	1	181		70 & Older	200	111		311
	Total	255	94		350		Total	509	169		678
SRS	Under 20					VFCA	Under 20				
	20 - 29	2			2		20 - 29				
	30 - 39	1	5		6		30 - 39				
	40 - 49	37	10	1	48		40 - 49	1			1
	50 - 59	144	30		174		50 - 59	78	2	5	85
	60 - 69	269	42		311		60 - 69	521	42	17	580
	70 & Older	181	41		222		70 & Older	792	64	2	858
	Total	634	128	1	763		Total	1,392	108	24	1,524

¹ HPORS and MPORS does not include DROP.

STATISTICAL SECTION

Public Employees' Retirement Board

A Component Unit of the State of Montana

Average Benefit Payments, Last Ten Fiscal Years

Retirement Effective Dates	PERS - Defined Benefit Retirement Plan Years of Credited Service						
	0-5	5-10	10-15	15-20	20-25	25-30	30+
Period 7/1/2019 - 6/30/2020							
Average monthly benefit	\$ 449	\$ 1,644	\$ 1,381	\$ 4,040	\$ 5,416	\$ 6,294	\$ 5,596
Average HAC ¹	3,593	11,617	6,049	13,460	13,748	12,014	11,057
Number of retired member	39	154	177	169	142	202	221
Period 7/1/2018 - 6/30/2019							
Average monthly benefit	283	1,136	2,393	4,262	4,641	6,345	5,800
Average HAC ¹	1,782	8,994	12,732	13,693	12,982	14,299	9,381
Number of retired members	36	175	198	191	148	170	224
Period 7/1/2017 - 6/30/2018							
Average monthly benefit	570	1,269	2,156	4,295	4,095	6,341	6,799
Average HAC ¹	6,273	8,102	9,220	13,802	11,511	14,441	9,643
Number of retired members	30	228	234	216	183	244	259
Period 7/1/2016 - 6/30/2017							
Average monthly benefit	355	2,234	4,652	6,169	8,642	10,965	12,058
Average HAC ¹	3,240	16,433	22,696	20,909	25,358	22,552	19,608
Number of retired members	58	332	333	308	302	341	457
Period 7/1/2015 - 6/30/2016							
Average monthly benefit	2,048	837	1,497	2,075	3,082	4,665	3,163
Average HAC ¹	8,873	6,555	6,288	6,519	7,586	8,726	4,769
Number of retired members	20	168	168	181	147	184	263
Period 7/1/2014 - 6/30/2015							
Average monthly benefit	1,930	982	1,334	1,688	1,507	1,972	3,078
Average HAC ¹	1,806	2,320	2,553	2,775	3,066	3,098	3,948
Number of retired members	27	159	189	164	180	196	262
Period 7/1/2013 - 6/30/2014							
Average monthly benefit	3,243	1,233	1,888	2,001	2,247	2,533	3,010
Average HAC ¹	2,004	2,799	3,016	3,326	3,548	4,092	4,849
Number of retired members	45	214	201	186	188	192	199
Period 7/1/2012 - 6/30/2013							
Average monthly benefit	2,508	1,315	1,782	1,950	1,582	2,174	3,229
Average HAC ¹	2,225	2,880	3,137	3,418	3,518	3,972	4,728
Number of retired members	48	183	221	169	186	173	263
Period 7/1/2011 - 6/30/2012							
Average monthly benefit	2,024	2,492	808	1,713	2,193	3,627	3,508
Average HAC ¹	1,634	2,746	2,831	3,232	3,319	4,157	4,543
Number of retired members	51	208	213	170	172	183	241
Period 7/1/2010 - 6/30/2011							
Average monthly benefit	2,529	1,322	1,260	1,238	2,501	2,843	3,125
Average HAC ¹	2,055	2,790	2,962	3,060	3,376	3,862	4,473
Number of retired members	43	170	181	163	148	179	293

¹ HAC = Highest Average Compensation during any consecutive 36 months or 60 months dependent upon date member was hired.

The Average monthly benefit could be skewed in this schedule due to retroactive retirement dates.

The Average HAC may be blank due to system not requiring this information to be updated when a member retires.

Public Employees' Retirement Board

A Component Unit of the State of Montana

Average Benefit Payments, Last Ten Fiscal Years (cont.)

Retirement Effective Dates	DC Disability OPEB Years of Credited Service						
	0-5	5-10	10-15	15-20	20-25	25-30	30+
Period 7/1/2019 - 6/30/2020							
Average monthly benefit							
Average HAC ¹							
Number of retired members							
Period 7/1/2018 - 6/30/2019							
Average monthly benefit			\$	1,429			
Average HAC ¹				4,659			
Number of retired members				2			
Period 7/1/2017 - 6/30/2018							
Average monthly benefit	\$	344	\$	1,370			
Average HAC ¹		1,302		6,213			
Number of retired members		1		1			
Period 7/1/2016 - 6/30/2017							
Average monthly benefit					\$	2,206	
Average HAC ¹						5,446	
Number of retired members						1	
Period 7/1/2015 - 6/30/2016							
Average monthly benefit				1,243			
Average HAC ¹				5,581			
Number of retired members				1			
Period 7/1/2014 - 6/30/2015							
Average monthly benefit		577					
Average HAC ¹		4,019					
Number of retired members		2					
Period 7/1/2013 - 6/30/2014							
Average monthly benefit							
Average HAC ¹							
Number of retired members							
Period 7/1/2012 - 6/30/2013							
Average monthly benefit							
Average HAC ¹							
Number of retired members							
Period 7/1/2011 - 6/30/2012							
Average monthly benefit		356		553			
Average HAC ¹		3,564		2,714			
Number of retired members		1		1			
Period 7/1/2010 - 6/30/2011							
Average monthly benefit							
Average HAC ¹							
Number of retired members							

¹ HAC = Highest Average Compensation during any consecutive 36 months or 60 months dependent upon date member was hired.

The Average monthly benefit could be skewed in this schedule due to retroactive retirement dates.

The Average HAC may be blank due to system not requiring this information to be updated when a member retires.

STATISTICAL SECTION

Public Employees' Retirement Board

A Component Unit of the State of Montana

Average Benefit Payments, Last Ten Fiscal Years (cont.)

Retirement Effective Dates	Judges' Retirement System Years of Credited Service						
	0-5	5-10	10-15	15-20	20-25	25-30	30+
Period 7/1/2019 - 6/30/2020							
Average monthly benefit	\$	2,699					
Average HAC ¹		10,828					
Number of retired members		1					
Period 7/1/2018 - 6/30/2019							
Average monthly benefit		1,994 \$	3,522 \$	9,639 \$	6,043 \$	7,759	
Average HAC ¹		10,670	10,591	10,591	10,591	5,098	
Number of retired members		2	1	2	1	1	
Period 7/1/2017 - 6/30/2018							
Average monthly benefit			8,259				
Average HAC ¹			11,173				
Number of retired members			2				
Period 7/1/2016 - 6/30/2017							
Average monthly benefit		4,031		19,862	23,441		
Average HAC ¹		20,225		20,930	39,630		
Number of retired members		2		6	4		
Period 7/1/2015 - 6/30/2016							
Average monthly benefit		1,587		9,917		5,319 \$	6,417
Average HAC ¹		9,870		20,501		10,511	10,511
Number of retired members		1		2		1	1
Period 7/1/2014 - 6/30/2015							
Average monthly benefit						5,600	
Average HAC ¹						9,800	
Number of retired members						2	
Period 7/1/2013 - 6/30/2014							
Average monthly benefit				2,792	4,899	5,088	
Average HAC ¹					9,800	9,800	
Number of retired members				1	1	1	
Period 7/1/2012 - 6/30/2013							
Average monthly benefit			2,893	4,877	6,474	6,018	
Average HAC ¹			9,427	9,703	9,494	9,494	
Number of retired members			3	3	1	3	
Period 7/1/2011 - 6/30/2012							
Average monthly benefit							
Average HAC ¹							
Number of retired members							
Period 7/1/2010 - 6/30/2011							
Average monthly benefit		2,331	3,069	5,290		6,231	
Average HAC ¹		8,906	7,842	9,201		8,906	
Number of retired members		1	1	2		1	

¹ HAC = Highest Average Compensation during any consecutive 36 months.

The Average monthly benefit could be skewed in this schedule due to retroactive retirement dates.

The Average HAC may be blank due to system not requiring this information to be updated when a member retires.

Public Employees' Retirement Board

A Component Unit of the State of Montana

Average Benefit Payments, Last Ten Fiscal Years (cont.)

Retirement Effective Dates	Highway Patrol Officers' Retirement System Years of Credited Service						
	0-5	5-10	10-15	15-20	20-25	25-30	30+
Period 7/1/2019 - 6/30/2020							
Average monthly benefit		\$ 1,036	\$ 2,796	\$ 3,030			
Average HAC ¹		5,092	5,435	5,710			
Number of retired members		2	1	5			
Period 7/1/2018 - 6/30/2019							
Average monthly benefit		4,161	2,827	3,012			
Average HAC ¹		11,668	5,436	5,575			
Number of retired members		2	1	6			
Period 7/1/2017 - 6/30/2018							
Average monthly benefit	\$ 1,755	3,812	2,087	5,253	\$ 3,090		
Average HAC ¹		8,186	5,362	8,032			
Number of retired members	1	4	3	8	2		
Period 7/1/2016 - 6/30/2017							
Average monthly benefit			6,942	6,766	8,143		
Average HAC ¹			21,334	10,012	11,677		
Number of retired members			4	5	4		
Period 7/1/2015 - 6/30/2016							
Average monthly benefit			2,825	6,420	4,310		
Average HAC ¹			5,434	11,885	6,079		
Number of retired members			1	7	2		
Period 7/1/2014 - 6/30/2015							
Average monthly benefit		1,581	1,113	2,810	3,475	4,315	
Average HAC ¹		5,049		5,412	2,852	6,227	
Number of retired members		2	1	1	4	2	
Period 7/1/2013 - 6/30/2014							
Average monthly benefit			479	2,348	3,330	5,043	
Average HAC ¹			3,557	4,559	5,859	6,641	
Number of retired members			1	1	9	2	
Period 7/1/2012 - 6/30/2013							
Average monthly benefit	\$ 2,021				3,241	3,351	
Average HAC ¹	3,925				5,702	7,273	
Number of retired members	1				7	3	
Period 7/1/2011 - 6/30/2012							
Average monthly benefit		711			3,108	4,119	
Average HAC ¹		4,714			5,440	5,383	
Number of retired members		1			1	2	
Period 7/1/2010 - 6/30/2011							
Average monthly benefit			1,799	2,676	3,220		
Average HAC ¹			4,354	4,815	5,355		
Number of retired members			2	3	3		

¹ HAC = Highest Average Compensation during any consecutive 36 months.

The Average monthly benefit could be skewed in this schedule due to retroactive retirement dates.

The Average HAC may be blank due to system not requiring this information to be updated when a member retires.

STATISTICAL SECTION

Public Employees' Retirement Board

A Component Unit of the State of Montana

Average Benefit Payments, Last Ten Fiscal Years (cont.)

Retirement Effective Dates	Sheriffs' Retirement System Years of Credited Service						
	0-5	5-10	10-15	15-20	20-25	25-30	30+
Period 7/1/2019 - 6/30/2020							
Average monthly benefit	\$ 403	\$ 5,000	\$ 2,391	\$ 2,315	\$ 7,663	\$ 3,855	\$ 5,537
Average HAC ¹	3,236	12,350	9,201	5,392	14,961	6,052	7,388
Number of retired members	1	7	7	7	16	2	1
Period 7/1/2018 - 6/30/2019							
Average monthly benefit		2,788	4,459	2,375	2,654	3,528	5,049
Average HAC ¹		7,948	11,358	5,393	5,482	5,667	5,743
Number of retired members		9	12	9	15	6	5
Period 7/1/2017 - 6/30/2018							
Average monthly benefit	2,598	651	758	5,073	2,940	3,819	6,406
Average HAC ¹	5,197	4,489	3,484	11,366	6,033	5,758	6,886
Number of retired members	1	5	7	8	6	6	1
Period 7/1/2016 - 6/30/2017							
Average monthly benefit	691	1,102	7,149	3,429	5,425	6,681	10,002
Average HAC ¹	6,620	7,553	19,249	8,206	10,888	11,139	13,410
Number of retired members	2	10	14	14	18	4	6
Period 7/1/2015 - 6/30/2016							
Average monthly benefit	2,387	2,464	2,669	5,274	3,000	2,905	4,146
Average HAC ¹	5,026	7,058	7,936	8,886	5,538	4,905	5,596
Number of retired members	3	6	6	11	12	3	2
Period 7/1/2014 - 6/30/2015							
Average monthly benefit	2,050	501	869	2,228	3,224	3,088	2,942
Average HAC ¹	4,100	2,864	2,793	5,059	4,817	5,042	3,913
Number of retired members	1	10	7	9	8	7	3
Period 7/1/2013 - 6/30/2014							
Average monthly benefit	684	507	957	2,261	2,847	2,426	3,786
Average HAC ¹	1,712	3,339	3,627	5,393	5,673	5,549	6,893
Number of retired members	3	8	4	5	6	4	3
Period 7/1/2012 - 6/30/2013							
Average monthly benefit	1,652	618	1,520	1,828	2,945	3,545	5,683
Average HAC ¹	3,559	4,147	4,944	4,423	5,466	4,932	6,428
Number of retired members	1	5	13	5	12	2	1
Period 7/1/2011 - 6/30/2012							
Average monthly benefit	3,764	6,837	1,864	2,762	2,627	3,650	4,214
Average HAC ¹	3,367	3,121	4,944	5,493	4,680	4,873	6,286
Number of retired members	3	6	4	2	9	2	7
Period 7/1/2010 - 6/30/2011							
Average monthly benefit	604	681	1,608	2,888	2,589	4,107	5,814
Average HAC ¹	6,500	4,199	3,890	5,466	4,778	5,912	6,842
Number of retired members	1	4	3	5	12	4	6

¹ HAC = Highest Average Compensation during any consecutive 36 months or 60 months dependent upon date member was hired.

The Average monthly benefit could be skewed in this schedule due to retroactive retirement dates.

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Public Employees' Retirement Board

A Component Unit of the State of Montana

Average Benefit Payments, Last Ten Fiscal Years (cont.)

Retirement Effective Dates	Game Wardens' and Peace Officers' Retirement System Years of Credited Service						
	0-5	5-10	10-15	15-20	20-25	25-30	30+
Period 7/1/2019 - 6/30/2020							
Average monthly benefit	\$ 434	\$ 624	\$ 1,336	\$ 3,012	\$ 2,495	\$ 2,652	\$ 4,735
Average HAC ¹	3,501	3,563	4,330	10,504	5,016	4,671	6,400
Number of retired members	1	4	5	9	10	2	4
Period 7/1/2018 - 6/30/2019							
Average monthly benefit	1,174	729	2,595	1,549	2,387		4,340
Average HAC ¹	5,146	3,742	7,858	3,891	4,892		6,012
Number of retired members	1	5	7	6	13		1
Period 7/1/2017 - 6/30/2018							
Average monthly benefit		613	1,709	1,958	2,577	2,551	
Average HAC ¹		3,572	6,898	4,500	5,114	4,507	
Number of retired members		7	8	8	10	1	
Period 7/1/2016 - 6/30/2017							
Average monthly benefit		1,430	2,211	3,453	4,476		8,210
Average HAC ¹		7,477	7,645	8,747	8,736		9,836
Number of retired members		12	12	14	6		6
Period 7/1/2015 - 6/30/2016							
Average monthly benefit	208	2,422	1,143	3,336	2,316	4,129	6,179
Average HAC ¹	1,684	6,650		8,009	4,839	6,493	8,269
Number of retired members	1	8	2	9	3	1	1
Period 7/1/2014 - 6/30/2015							
Average monthly benefit		607	1,213	1,876	2,106	2,671	3,494
Average HAC ¹		2,792	3,588	3,738	4,100		4,848
Number of retired members		7	10	5	5	1	2
Period 7/1/2013 - 6/30/2014							
Average monthly benefit		745	1,151	1,642	2,564	2,109	
Average HAC ¹		3,470	3,809	4,266	4,490	3,695	
Number of retired members		6	6	10	4	1	
Period 7/1/2012 - 6/30/2013							
Average monthly benefit	2,507	5,232	1,118	1,259	3,630	4,007	
Average HAC ¹	2,695	2,595	3,316	3,820	6,679	5,795	
Number of retired members	4	6	4	7	1	1	
Period 7/1/2011 - 6/30/2012							
Average monthly benefit		643	1,233	1,999			4,003
Average HAC ¹		3,164	3,938	4,027			4,693
Number of retired members		6	6	1			3
Period 7/1/2010 - 6/30/2011							
Average monthly benefit	4,914	625	916	1,337		3,428	3,830
Average HAC ¹	3,063	3,257	3,904	3,368		4,427	4,205
Number of retired members	1	4	6	1		1	1

¹ HAC = Highest Average Compensation during any consecutive 36 months or 60 months dependent upon date member was hired.

The Average monthly benefit could be skewed in this schedule due to retroactive retirement dates.

The Average HAC may be blank due to system not requiring this information to be updated when a member retires.

STATISTICAL SECTION

Public Employees' Retirement Board

A Component Unit of the State of Montana

Average Benefit Payments, Last Ten Fiscal Years (cont.)

Retirement Effective Dates	Municipal Police Officers' Retirement System Years of Credited Service						
	0-5	5-10	10-15	15-20	20-25	25-30	30+
Period 7/1/2019 - 6/30/2020							
Average monthly benefit	\$ 251	\$ 888	\$ 1,512	\$ 2,480	\$ 2,985	\$ 4,428	\$ 5,027
Average FAC ¹	7,420	3,807	4,695	5,313	5,723	7,086	6,629
Number of retired members	5	2	3	5	4	1	1
Period 7/1/2018 - 6/30/2019							
Average monthly benefit	106	3,979	4,254	2,599	3,469	4,487	10,402
Average FAC ¹	5,877	10,230	9,386	5,206	6,658	7,038	9,403
Number of retired members	6	4	9	3	3	2	1
Period 7/1/2017 - 6/30/2018							
Average monthly benefit	2,200	3,488	5,052	2,873	2,873	3,850	
Average FAC ¹	10,729	9,826	14,364	6,073	3,902	6,172	
Number of retired members	5	6	10	3	8	2	
Period 7/1/2016 - 6/30/2017							
Average monthly benefit	561	6,523	6,893	4,481	5,971	6,727	
Average FAC ¹	12,635	16,836	16,646	8,318	9,959	11,229	
Number of retired members	6	12	10	8	16	2	
Period 7/1/2015 - 6/30/2016							
Average monthly benefit	5,280	3,364	4,183	2,889	3,439	3,233	1,483
Average FAC ¹	10,172	7,777	8,040	4,281	4,851	6,703	3,800
Number of retired members	3	4	4	3	9	2	1
Period 7/1/2014 - 6/30/2015							
Average monthly benefit	379	1,319	1,098	2,590	2,903	4,100	5,062
Average FAC ¹	6,224	3,399	3,707	4,269	4,028	5,486	6,452
Number of retired members	4	4	5	4	13	3	3
Period 7/1/2013 - 6/30/2014							
Average monthly benefit		730	1,801	2,850	3,282	4,264	
Average FAC ¹		3,028	4,826	5,699	5,839	6,655	
Number of retired members		1	3	1	8	1	
Period 7/1/2012 - 6/30/2013							
Average monthly benefit	541	1,202	571	2,309	3,057	3,384	
Average FAC ¹	6,801	4,075	2,093	4,664	5,261	5,516	
Number of retired members	5	3	1	6	17	6	
Period 7/1/2011 - 6/30/2012							
Average monthly benefit	124	1,191	1,247	2,466	3,058		5,701
Average FAC ¹	5,411	4,023	4,289	4,648	5,117		6,411
Number of retired members	2	3	1	1	7		2
Period 7/1/2010 - 6/30/2011							
Average monthly benefit	273	2,315	1,810	2,601	2,942	4,498	
Average FAC ¹	5,617	4,113	4,862	4,884	4,831	5,893	
Number of retired members	3	1	1	4	8	1	

¹ FAC = Final Average Compensation during the last 36 months.

The Average monthly benefit could be skewed in this schedule due to retroactive retirement dates.

The Average FAC may be blank due to system not requiring this information to be updated when a member retires.

Public Employees' Retirement Board

A Component Unit of the State of Montana

Average Benefit Payments, Last Ten Fiscal Years

Firefighters' Unified Retirement System													
Years of Credited Service													
Retirement Effective Dates	0-5		5-10		10-15		15-20		20-25		25-30		30+
Period 7/1/2019 - 6/30/2020													
Average monthly benefit	\$	1,508	\$	4,899	\$	6,318	\$	3,591	\$	4,954	\$	6,587	
Average HAC ¹		7,296		11,848		12,761		6,708		7,284		8,123	
Number of retired members		3		2		6		8		7		3	
Period 7/1/2018 - 6/30/2019													
Average monthly benefit	\$	234		3,307		3,570		3,632		5,352		5,985	
Average HAC ¹				6,614		7,231		6,672		7,547		7,915	
Number of retired members		1		2		1		7		6		2	
Period 7/1/2017 - 6/30/2018													
Average monthly benefit		2,355		1,556		5,482		3,572		4,795		4,964	
Average HAC ¹		10,401		5,013		11,286		5,913		5,427		5,188	
Number of retired members		1		2		3		10		4		4	
Period 7/1/2016 - 6/30/2017													
Average monthly benefit		424		7,343		4,131		8,080		9,989		10,844	
Average HAC ¹				22,235		8,962		14,939		14,869		13,268	
Number of retired members		2		6		6		4		10		16	
Period 7/1/2015 - 6/30/2016													
Average monthly benefit		2,240				2,904		6,969		4,741		5,863	
Average HAC ¹		4,156				4,628		12,003		6,881		7,202	
Number of retired members		2				3		9		4		4	
Period 7/1/2014 - 6/30/2015													
Average monthly benefit				1,375		1,634		1,209		1,936		5,623	
Average HAC ¹				1,763		4,444		2,713		5,475		5,217	
Number of retired members				2		1		2		8		4	
Period 7/1/2013 - 6/30/2014													
Average monthly benefit				1,423		1,819		2,493		3,335		5,716	
Average HAC ¹				5,161		5,865		6,698		5,902		6,580	
Number of retired members				2		1		5		4		3	
Period 7/1/2012 - 6/30/2013													
Average monthly benefit		1,472		647		1,441				1,219		4,747	6,167
Average HAC ¹		2,859		3,637		4,549				2,175		6,656	6,686
Number of retired members		1		2		2				5		6	5
Period 7/1/2011 - 6/30/2012													
Average monthly benefit				1,304		3,122				2,942		4,077	480
Average HAC ¹				5,946		5,885				5,616		6,638	6,837
Number of retired members				2		1				7		6	5
Period 7/1/2010 - 6/30/2011													
Average monthly benefit				280				2,334		4,127		3,785	4,107
Average HAC ¹				1,506				4,814		5,945		5,075	4,481
Number of retired members				1				1		1		9	5

¹ HAC = Highest Average Compensation during any consecutive 36 months.

The Average monthly benefit could be skewed in this schedule due to retroactive retirement dates.

The Average HAC may be blank due to system not requiring this information to be updated when a member retires.

STATISTICAL SECTION

Public Employees' Retirement Board

A Component Unit of the State of Montana

Average Benefit Payments, Last Ten Fiscal Years (cont.)

Volunteer Firefighters' Compensation Act Years of Credited Service								
Retirement Effective Dates	0-5	5-10	10-15	15-20	20-25	25-30	30+	
Period 7/1/2019 - - 6/30/2020								
Average monthly benefit	\$	88	\$	116	\$	197	\$	271
Average HAC ¹								
Number of retired members		5	15	22	18	12	5	
Period 7/1/2018 - 6/30/2019								
Average monthly benefit		88	113	166	377	230	265	
Average HAC ¹								
Number of retired members		5	15	23	14	7	9	
Period 7/1/2017 - 6/30/2018								
Average monthly benefit		88	113	349	194	231	268	
Average HAC ¹								
Number of retired members		8	18	18	18	7	8	
Period 7/1/2016 - 6/30/2017								
Average monthly benefit		175	238	327	387	464	500	
Average HAC ¹								
Number of retired members		8	26	32	34	10	4	
Period 7/1/2015 - 6/30/2016								
Average monthly benefit		88	110	160	387	240	269	
Average HAC ¹								
Number of retired members		9	25	15	26	10	2	
Period 7/1/2014 - 6/30/2015								
Average monthly benefit		75	94	703	172	220	249	
Average HAC ¹								
Number of retired members		10	19	21	17	6	4	
Period 7/1/2013 - 6/30/2014								
Average monthly benefit		75	94	140	169	210	238	
Average HAC ¹								
Number of retired members		9	19	20	15	9	4	
Period 7/1/2012 - 6/30/2013								
Average monthly benefit		75	98	143	173	207	253	
Average HAC ¹								
Number of retired members		9	22	21	10	10	3	
Period 7/1/2011 - 6/30/2012								
Average monthly benefit		75	106	136	169	211	239	
Average HAC ¹								
Number of retired members		4	11	28	30	7	5	
Period 7/1/2010 - 6/30/2011								
Average monthly benefit		75	96	145	172	211		
Average HAC ¹								
Number of retired members		5	14	24	14	18		

¹ HAC = Highest Average Compensation is not applicable to the VFCA. Members are unpaid volunteers and do not contribute to the fund.
The Average monthly benefit could be skewed in this schedule due to retroactive retirement dates.

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STATISTICAL SECTION

Public Employees' Retirement Board

A Component Unit of the State of Montana

Schedule of Average Monthly Benefit Payments, All Retirees

For the Fiscal Year Ended 2020

System	Years of Service	Recipient's Age										Average
		< 45	45-49	50-54	55-59	60-64	65-69	70-74	75-79	Over 80		
PERS-DBRP	0-4	\$ 188	\$ 285	\$ 847	\$ 774	\$ 552	\$ 296	\$ 257	\$ 289	\$ 290	\$ 403	
	5-9	514	456	401	376	389	396	414	412	359	395	
	10-14	620	655	602	650	726	760	764	700	617	711	
	15-19	997	1,001	816	887	1,117	1,132	1,116	1,079	955	1,069	
	20-24	1,045	1,238	1,365	1,275	1,575	1,547	1,607	1,448	1,279	1,479	
	25-29	983	2,106	2,434	2,474	2,594	2,494	2,416	2,173	1,873	2,355	
	30-34		2,382	3,214	3,369	3,448	3,443	3,233	2,943	2,409	3,167	
	35-39			3,008	3,391	3,629	4,184	3,981	3,764	2,967	3,782	
	40-UP			3,494		4,509	4,500	4,685	5,065	4,035	4,516	
	Average	\$ 646	\$ 958	\$ 1,695	\$ 1,922	\$ 1,775	\$ 1,774	\$ 1,687	\$ 1,470	\$ 1,218	\$ 1,588	
JRS	0-4					\$ 5,714					\$ 5,714	
	5-9					2,367	1,740	1,733	2,451	3,366	2,186	
	10-14					3,627	3,558	4,696	4,785	4,364	4,456	
	15-19					4,914	3,866	4,245	5,486	5,477	4,495	
	20-24						6,648	6,208	5,776		6,356	
	25-29						7,547	6,652	6,263	6,419	6,674	
	30-34							7,223	8,393	8,028	8,009	
	35-39											
	40-UP											
	Average					\$ 3,753	\$ 5,007	\$ 4,530	\$ 5,560	\$ 5,142	\$ 4,880	
HPORS	0-4	\$ 1,903		\$ 2,113	\$ 1,851		\$ 2,200				\$ 1,959	
	5-9	541		1,339	1,961	1,248	2,382	1,917			1,546	
	10-14	1,879	2,692	1,776	1,810	659	1,559	332	425	385	1,443	
	15-19		2,876	1,927	2,661	2,281	3,389		2,527	1,008	2,381	
	20-24	2,784	3,283	3,643	3,384	3,146	2,950	2,586	2,260	2,259	2,923	
	25-29			2,837	4,802	5,393	4,309	3,744	3,318	2,751	3,613	
	30-34					4,373	4,187	4,972	4,072	3,598	4,322	
	35-39						6,471		6,198	4,565	5,537	
	40-UP									2,530	2,530	
	Average	\$ 1,893	\$ 3,155	\$ 3,022	\$ 3,258	\$ 3,092	\$ 3,244	\$ 3,401	\$ 3,220	\$ 2,710	\$ 2,813	
SRS	0-4	\$ 1,626	\$ 3,375	\$ 2,301	\$ 1,300	\$ 1,541	\$ 1,406	\$ 977	\$ 1,365	\$ 560	\$ 1,600	
	5-9	1,610	2,875	1,081	853	747	884	682	748	862	907	
	10-14	3,472	2,740	1,223	819	1,278	1,624	1,173	1,446	1,247	1,384	
	15-19	2,446	2,776	2,363	2,211	2,237	2,104	2,143	1,766	1,243	2,219	
	20-24	2,560	3,099	3,173	3,085	3,036	2,945	2,906	2,483	1,804	2,945	
	25-29		4,505	3,418	3,764	3,913	4,117	3,919	3,661	2,593	3,742	
	30-34			5,477	5,190	5,492	6,412	4,201	5,419	2,621	5,163	
	35-39					5,221	5,157	5,063	6,814	3,796	5,196	
	40-UP					6,796					6,796	
	Average	\$ 2,055	\$ 3,042	\$ 2,365	\$ 2,361	\$ 2,538	\$ 2,684	\$ 2,454	\$ 2,453	\$ 1,895	\$ 2,270	

Public Employees' Retirement Board

A Component Unit of the State of Montana

Schedule of Average Monthly Benefit Payments, All Retirees

For the Fiscal Year Ended 2020

System	Years of Service	Recipient's Age									Average
		< 45	45-49	50-54	55-59	60-64	65-69	70-74	75-79	Over 80	
GWPORS	0-4			\$ 1,439		\$ 623	\$ 335	\$ 639			\$ 742
	5-9		1,497	742	697	683	704	817	649	537	729
	10-14				1,053	1,386	1,424	1,282	1,337	1,939	1,302
	15-19	953	668	2,027	1,807	1,853	2,194	1,931	1,474	923	1,868
	20-24			2,632	2,546	2,485	2,668	2,307	2,250	2,061	2,512
	25-29				3,318	3,692	3,455	2,895	2,374	2,396	2,912
	30-34			4,317	4,210	4,711	4,271	3,883	3,000	3,165	3,866
	35-39					5,461	5,122	3,777		3,986	4,744
	40-UP							5,302			5,302
	Average	\$ 953	\$ 1,082	\$ 2,406	\$ 1,654	\$ 1,988	\$ 1,930	\$ 1,677	\$ 1,894	\$ 2,625	\$ 1,790
MPORS	0-4	\$ 2,401	\$ 2,239	\$ 1,136	\$ 452	\$ 589	\$ 486	\$ 999	\$ 584	\$ 1,955	\$ 908
	5-9	2,359	2,666	1,496	1,236	1,155	1,477	1,246	1,893	2,233	1,699
	10-14	2,153	3,001	1,713	1,626	2,034	2,065	2,018	1,906	2,288	2,026
	15-19	2,802	2,920	2,845	2,687	2,887	2,340	2,592	2,164	2,279	2,691
	20-24	3,167	3,471	3,249	3,620	3,167	2,915	2,980	2,579	2,385	3,015
	25-29		3,801	4,466	4,869	4,048	5,137	5,248	3,722	3,313	4,468
	30-34				5,761	5,569	6,110	6,528	6,241	3,384	5,882
	35-39				2,917			5,606		3,319	3,947
	40-UP						10,402				10,402
	Average	\$ 2,408	\$ 3,056	\$ 2,577	\$ 2,851	\$ 2,700	\$ 2,828	\$ 3,242	\$ 2,801	\$ 2,523	\$ 2,491
FURS	0-4	\$ 2,065		\$ 212	\$ 1,153		\$ 2,260	\$ 2,380			\$ 1,765
	5-9	2,455	2,569	2,604	932	907	1,152	1,948	2,813	2,237	1,618
	10-14	2,790	2,029	2,157	2,333	1,905	2,188	1,809	1,003	2,522	2,152
	15-19	2,612	2,606	2,799	2,769	2,658	2,472	1,819	2,020	2,128	2,449
	20-24	2,634	3,841	3,137	3,207	3,343	2,855	2,608	2,294	2,048	2,800
	25-29		4,885	4,503	4,854	4,507	4,333	4,414	3,638	2,091	4,015
	30-34			3,545	6,426	5,759	5,890	5,822	5,564	3,575	5,630
	35-39					6,850	7,198	7,362	6,403	4,803	6,256
	40-UP								290	288	289
	Average	\$ 2,421	\$ 3,082	\$ 3,182	\$ 3,747	\$ 3,800	\$ 3,894	\$ 4,044	\$ 3,445	\$ 2,482	\$ 3,249
VFCA	0-4					\$ 88		\$ 166			\$ 127
	5-9									105	105
	10-14	105				104	101	101	101	100	101
	15-19					145	147	145	146	146	146
	20-24				183	184	184	183	183	182	183
	25-29				222	226	226	222	231	221	225
	30-34				263	257	255	253	253	250	256
	35-39					300	273	250		250	268
	40-UP					250					250
	Average	\$ 105			\$ 206	\$ 178	\$ 171	\$ 162	\$ 162	\$ 157	\$ 168

STATISTICAL SECTION

Public Employees' Retirement Board

A Component Unit of the State of Montana

Principal Participating Employers

Current Year and Nine Years Ago

PERS-DBRP							
6/30/2020				6/30/2011			
	Rank	# of Employees ¹	%		Rank	# of Employees ¹	%
State of Montana ²	1	9,879	35.13	State of Montana ²	1	10,793	37.18
University of Montana	2	1,232	4.38	University of Montana	2	1,303	4.49
Montana State University - Bozeman	3	1,089	3.87	Montana State University - Bozeman	3	986	3.40
Missoula County	4	723	2.57	Missoula County	4	627	2.16
City of Billings	5	568	2.02	City of Billings	5	563	1.94
School District 2 - Billings	6	429	1.53	Great Falls Public Schools	6	420	1.45
Flathead County	7	411	1.46	Flathead County	7	375	1.29
City of Missoula	8	382	1.36	School District 2 - Billings	8	366	1.26
Butte Silverbow	9	347	1.23	City of Great Falls	9	363	1.25
Gallatin County	10	334	1.19	Cascade County	10	348	1.20
All Others		12,725	45.26	All Others		12,885	44.38
Total		28,119	100.00	Total		29,029	100.00

JRS							
6/30/2020				6/30/2011			
	Rank	# of Employees ¹	%		Rank	# of Employees ¹	%
State of Montana ²	1	58	100.00	State of Montana ²	1	54	100.00
Total		58	100.00	Total		54	100.00

HPORS							
6/30/2020				6/30/2011			
	Rank	# of Employees ¹	%		Rank	# of Employees ¹	%
State of Montana ²	1	231	100.00	State of Montana ²	1	216	100.00
Total		231	100.00	Total		216	100.00

SRS							
6/30/2020				6/30/2011			
	Rank	# of Employees ¹	%		Rank	# of Employees ¹	%
Missoula County	1	147	9.97	Missoula County	1	119	9.58
Yellowstone County	2	132	8.96	Yellowstone County	2	101	8.13
Cascade County	3	122	8.28	Cascade County	3	100	8.05
Gallatin County	4	111	7.53	Gallatin County	4	92	7.41
Lewis & Clark County	5	95	6.45	Flathead County	5	90	7.25
Flathead County	6	93	6.31	Lewis & Clark County	6	62	4.99
State of Montana ²	7	59	4.00	State of Montana ²	7	49	3.95
Ravalli County	8	53	3.60	Ravalli County	8	44	3.54
Dawson County	9	47	3.19	Dawson County	9	42	3.38
Lake County	10	38	2.58	Lake County	10	40	3.22
All Others		577	39.13	All Others		503	40.50
Total		1,474	100.00	Total		1,242	100.00

¹ Employee counts are based on June payrolls. Differences in employee counts in this schedule as compared to other CAFR schedules are due to members with multiple employers, June 30th refunded members and members with dual retirement system elections.

²For the purpose of the schedule the State of Montana is considered one employer.

Public Employees' Retirement Board

A Component Unit of the State of Montana

Principal Participating Employers (cont.)

Current Year and Nine Years Ago

GWPORS				6/30/2011			
	Rank	# of Employees ¹	%		Rank	# of Employees ¹	%
State of Montana ²	1	952	96.06	State of Montana ²	1	921	96.44
Montana State University - Bozeman	2	19	1.92	Montana State University - Bozeman	2	14	1.47
University of Montana	3	13	1.31	University of Montana	3	13	1.36
Montana State University - Billings	4	7	0.71	Montana State University - Billings	4	7	0.73
Total		991	100.00	Total		955	100.00

MPORS				6/30/2011			
	Rank	# of Employees ¹	%		Rank	# of Employees ¹	%
City of Billings	1	154	18.87	City of Billings	1	140	18.84
City of Missoula	2	113	13.85	City of Missoula	2	99	13.32
City of Great Falls	3	86	10.54	City of Great Falls	3	84	11.31
City of Bozeman	4	70	8.58	City of Bozeman	4	60	8.08
City of Helena	5	51	6.25	City of Helena	5	50	6.73
Butte Silver Bow	6	50	6.13	Butte-Silver Bow	6	46	6.19
City of Kalispell	7	40	4.90	City of Kalispell	7	35	4.71
Anaconda-Deer Lodge County	8	20	2.45	Anaconda-Deer Lodge County	8	25	3.36
City of Havre	9	20	2.45	City of Havre	9	17	2.29
City of Whitefish	10	20	2.45	City of Miles City	10	16	2.15
All Others		192	23.53	All Others		171	23.02
Total		816	100.00	Total		743	100.00

FURS				6/30/2011			
	Rank	# of Employees ¹	%		Rank	# of Employees ¹	%
City of Billings	1	123	17.42	City of Billings	1	112	19.21
City of Missoula	2	88	12.46	City of Missoula	2	88	15.09
City of Great Falls	3	66	9.35	City of Great Falls	3	65	11.15
Missoula Rural Fire District	4	53	7.51	City of Bozeman	4	40	6.86
City of Bozeman	5	49	6.94	City of Helena	5	35	6.00
City of Helena	6	40	5.67	City of Kalispell	6	32	5.49
Butte Silver Bow	7	37	5.24	Butte-Silver Bow	7	31	5.32
Central Valley Fire	8	29	4.11	Missoula Rural Fire District	8	26	4.46
City of Kalispell	9	28	3.97	City of Havre	9	17	2.92
Big Sky Fire Department	10	25	3.54	City of Whitefish	10	17	2.92
All Others		168	23.79	All Others		120	20.58
Total		706	100.00	Total		583	100.00

VFCA

Participating employers is not applicable to VFCA because members are unpaid volunteers. In 2020, there were 221 VFCA qualified volunteer fire departments.

¹ Employee counts are based on June payrolls. Differences in employee counts in this schedule as compared to other CAFR schedules are due to members with multiple employers, June 30th refunded members and members with dual retirement system elections.

²For the purpose of the schedule the State of Montana is considered one employer.

STATISTICAL SECTION

Public Employees' Retirement Board

A Component Unit of the State of Montana

Principal Participating Employers (cont.)

Current Year and Nine Years Ago

PERS-DCRP				6/30/2020				6/30/2011			
	Rank	# of Employees ¹	%		Rank	# of Employees ¹	%		Rank	# of Employees ¹	%
State of Montana ²	1	1,488	48.64	State of Montana ²	1	941	46.45				
Yellowstone City-County Health Dept	2	92	3.01	Missoula County	2	54	2.67				
Missoula County	3	81	2.65	City of Billings	3	53	2.62				
City of Billings	4	76	2.48	University of Montana	4	48	2.37				
University of Montana	5	70	2.29	Yellowstone City-County Health Dept	5	44	2.17				
Montana State University - Bozeman	6	69	2.26	Montana State University - Bozeman	6	39	1.93				
Gallatin County	7	43	1.41	Flathead County	7	34	1.68				
City of Missoula	8	42	1.37	Yellowstone County	8	29	1.43				
City of Bozeman	9	37	1.21	City of Bozeman	9	28	1.38				
Yellowstone County	10	32	1.05	City of Missoula	10	27	1.33				
All Others		1,029	33.63	All Others		729	35.97				
Total		3,059	100.00	Total		2,026	100.00				

Deferred Compensation				6/30/2020				6/30/2011			
	Rank	# of Employees ¹	%		Rank	# of Employees ¹	%		Rank	# of Employees ¹	%
State of Montana ²	1	4,695	82.98	State of Montana ²	1	4,198	90.32				
University of Montana	2	134	2.37	University of Montana	2	124	2.67				
Yellowstone County	3	127	2.24	Lewis & Clark County	3	111	2.39				
City of Helena	4	120	2.12	Montana State University - Bozeman	4	71	1.53				
Lewis & Clark County	5	109	1.93	Great Falls Transit	5	33	0.71				
Montana State University - Bozeman	6	74	1.31	Montana State University - Billings	6	15	0.32				
Fallon County	7	45	0.80	City of Colstrip	7	12	0.26				
Great Falls Transit	8	37	0.65	Montana State University - Northern	8	11	0.24				
Sanders County	9	26	0.46	Gallatin Airport Authority	9	8	0.17				
School District 2 - Billings	10	24	0.42	Big Sky Co Water & Sewer Dist #363	10	7	0.15				
All Others		267	4.72	All Others		58	1.24				
Total		5,658	100.00	Total		4,648	100.00				

¹ Employee counts are based on June payrolls. Differences in employee counts in this schedule as compared to other CAFR schedules are due to members with multiple employers, June 30th refunded members and members with dual retirement system elections.

²For the purpose of the schedule the State of Montana is considered one employer.

Public Employees' Retirement Board

A Component Unit of the State of Montana

Schedule of Participating Employers

As of June 30, 2020

*P - Defined Benefit PERS *J - Judges *G - Game Wardens *H - Highway Patrol *S - Sheriffs *M - Police *F - Firefighters
*DC - Defined Contribution PERS *D - 457

State Agencies (33)													All employers listed in this schedule had contributed during the month of June.												
Board of Public Education	P										DC		Governor's Office	P										DC	
Commissioner of Higher Education	P										DC		Legislative Council	P										DC	
Commissioner of Political Practices	P										DC		Montana Arts Council	P											
Consumer Council	P										DC		Montana Historical Society	P										DC	
Dept of Administration	P										DC		Montana State Fund	P										DC	
Dept of Agriculture	P										DC		Montana State Library	P										DC	
Dept of Commerce	P										DC		Office of Public Defender	P										DC	
Dept of Corrections	P		G								DC		Office of Public Instruction	P										DC	
Dept of Environmental Quality	P										DC		Public Employee Retirement Administration	P										DC	
Dept of Fish, Wildlife & Parks	P		G								DC		Public Service Commission	P										DC	
Dept of Justice	P			H	S						DC		School for the Deaf & Blind	P										DC	
Dept of Labor & Industry	P										DC		Secretary of State	P										DC	
Dept of Livestock	P		G								DC		State Auditor's Office	P										DC	
Dept of Military Affairs	P							F			DC		Supreme Court	P	J									DC	
Dept of Natural Resources & Conservation	P										DC		Teachers' Retirement System	P										DC	
Dept of Public Health & Human Services	P										DC		*State of Montana											D	
Dept of Revenue	P										DC		*For purposes of this schedule "State of Montana" for 457 Plan includes all State Agencies. Due to the nature of reporting for the 457 plan, we are unable to												
Dept of Transportation	P		G								DC														

Counties (55)																								
Anaconda-Deer Lodge	P				S	M	F	DC		McCone	P				S				DC					
Beaverhead	P				S			DC		Meagher	P				S				DC					
Big Horn	P				S			DC		Mineral	P				S				DC					
Blaine	P				S			DC		Missoula	P				S				DC					
Broadwater	P				S			DC		Musselshell	P				S				DC					
Carbon	P				S			DC		Park	P				S				DC					
Carter	P				S			DC	D	Petroleum	P				S				DC					
Cascade	P				S			DC		Phillips	P				S				DC					
Chouteau	P				S			DC		Pondera	P				S				DC					
Custer	P				S			DC		Powder River	P				S				DC					
Daniels	P				S			DC		Powell	P				S				DC					
Dawson	P				S			DC		Prairie	P				S				DC					
Fallon	P				S			DC	D	Ravalli	P				S				DC					
Fergus	P				S			DC		Richland	P				S				DC					
Flathead	P				S			DC		Roosevelt	P				S				DC					
Gallatin	P				S			DC		Rosebud	P				S				DC					
Garfield	P				S			DC		Sanders	P				S				DC	D				
Glacier	P				S			DC		Sheridan	P				S				DC					
Golden Valley	P				S			DC	D	Stillwater	P				S				DC					
Granite	P				S			DC		Sweet Grass	P				S				DC	D				
Hill	P				S			DC		Teton	P				S				DC					
Jefferson	P				S			DC		Toole	P				S				DC					
Judith Basin	P				S			DC		Treasure	P				S				DC					
Lake	P				S			DC		Valley	P				S				DC					
Lewis & Clark	P				S			DC	D	Wheatland	P				S									
Liberty	P				S			DC		Wibaux	P				S									
Lincoln	P				S			DC		Yellowstone	P				S				DC	D				
Madison	P				S			DC																

STATISTICAL SECTION

Schedule of Participating Employers (continued)

*P - Defined Benefit PERS *J - Judges *G - Game Wardens *H - Highway Patrol *S - Sheriffs *M - Police *F - Firefighters
 *DC - Defined Contribution PERS *D - 457

Cities & Towns (98)													
Alberton	P											DC	
Baker	P						M						
Belgrade	P						M					DC	
Belt	P												
Big Sandy	P												
Big Timber	P											DC	
Billings	P						M	F				DC	
Boulder	P												
Bozeman	P						M	F				DC	
Bridger	P											DC	
Broadus	P												
Butte-Silver Bow	P				S	M	F					DC	
Cascade	P												
Chester	P											DC	D
Chinook	P											DC	
Choteau	P											DC	
Circle	P											DC	
Colstrip	P											DC	D
Columbia Falls	P						M	F				DC	D
Columbus	P						M					DC	
Conrad	P											DC	
Culbertson	P												
Cut Bank	P						M						
Deer Lodge	P											DC	
Denton	P											DC	
Dillon	P						M					DC	
Drummond	P												
East Helena	P						M					DC	D
Ekalaka	P												
Ennis	P											DC	D
Eureka	P											DC	
Fairfield	P											DC	D
Fairview	P											DC	D
Forsyth	P											DC	D
Fort Benton	P						M						
Fort Peck	P												
Froid	P												
Geraldine	P												
Glasgow	P						M					DC	
Glendive	P						M	F				DC	
Great Falls	P						M	F				DC	
Hamilton	P						M					DC	
Hardin	P											DC	D
Harlem	P												
Harlowton	P											DC	
Havre	P						M	F				DC	
Helena	P						M	F				DC	D
Hot Springs	P												
Hysham	P												
Kalispell	P									M	F	DC	
Laurel	P									M		DC	
Lewistown	P									M	F	DC	
Libby	P									M		DC	
Lima	P												
Livingston	P									M	F	DC	
Lodge Grass													D
Malta	P											DC	
Manhattan	P											DC	D
Medicine Lake	P												
Melstone	P												
Miles City	P									M	F	DC	
Missoula	P									M	F	DC	
Moore	P												
Nashua	P											DC	
Phillipsburg	P											DC	
Plains	P									M			
Plentywood	P											DC	D
Polson	P									M		DC	D
Poplar	P											DC	D
Red Lodge	P									M		DC	
Richey	P												
Ronan	P											DC	
Roundup	P												
Ryegate	P												
Saco	P												
Scobey	P											DC	
Shelby	P											DC	
Sheridan	P												D
Sidney	P											DC	D
St Ignatius	P												
Stanford	P												
Stevensville	P											DC	
Sunburst	P												
Superior	P												
Terry	P												
Thompson Falls	P									M		DC	D
Three Forks	P												
Townsend	P											DC	
Troy	P									M			D
Twin Bridges	P											DC	
Valier	P												
Westby	P												
West Yellowstone	P									M		DC	
White Sulphur Springs	P											DC	D
Whitefish	P									M	F	DC	
Wibaux	P												
Winnett	P											DC	
Wolf Point	P									M		DC	

Colleges & Universities (5)													
Montana State University - Billings	P		G									DC	D
Montana State University - Bozeman	P		G									DC	D
Montana State University College of Technology - Great Falls	P											DC	D
Montana State University - Northern	P											DC	D
University of Montana - Missoula	P		G									DC	D

High Schools (5)													
Beaverhead County	P											DC	
Jefferson County	P											DC	
Powder River County	P												
Powell County	P											DC	
Sweet Grass County	P											DC	

Schedule of Participating Employers (continued)

*P - Defined Benefit PERS *J - Judges *G - Game Wardens *H - Highway Patrol *S - Sheriffs *M - Police *F - Firefighters
*DC - Defined Contribution PERS *D - 457

School Districts (241)														
SD 1, Big Timber	P												DC	
SD 1, Butte	P												DC	
SD 1, Choteau	P												DC	
SD 1, Circle	P												DC	
SD 1, Clancy	P												DC	
SD 1, Corvallis	P												DC	
SD 1, Deer Lodge	P												DC	
SD 1, Fort Benton	P												DC	
SD 1, Glasgow	P												DC	
SD 1, Glendive	P												DC	
SD 1, Heart Butte	P													
SD 1, Helena	P												DC	D
SD 1, Lewistown	P												DC	
SD 1, Miles City	P												DC	D
SD 1, Missoula	P												DC	
SD 1, Phillipsburg	P													
SD 1, Plains	P													
SD 1, Red Lodge	P													
SD 1, Scobey	P												DC	
SD 1, Troy	P												DC	
SD 1, West Valley School	P													
SD 1 & 7 Hysham	P												DC	
SD 1 & 7, Townsend	P												DC	
SD 2, Albion	P													
SD 2, Alder	P													
SD 2, Billings	P												DC	D
SD 2, Bridger	P													
SD 2, Deer Park	P												DC	
SD 2, Dodson	P												DC	
SD 2, Dupuyer	P													
SD 2, Frazer	P													
SD 2, Lavina K-12	P													
SD 2, Stevensville	P												DC	
SD 2, Sunburst	P												DC	
SD 2, Thompson Falls	P													
SD 2 & 3, Pryor	P													
SD 2 & 11, Big Sandy	P													
SD 2 & 27, Lodge Grass	P													
SD 3, Belfry	P												DC	
SD 3, Billings	P													
SD 3, Cascade	P													
SD 3, Fairmont Egan	P													
SD 3, Hamilton	P												DC	
SD 3, Manhattan	P													
SD 3, Ramsay	P													
SD 3, Superior	P												DC	
SD 3, Westby	P												DC	
SD 3, Wolf Point	P												DC	D
SD 3 & 13, Fairview	P												DC	
SD 4, Canyon Creek	P													
SD 4, Divide	P												DC	
SD 4, Forsyth	P													D
SD 4, Hellgate	P												DC	
SD 4, Libby	P													
SD 4, Livingston	P												DC	
SD 4, Swan River	P													
SD 4 & 28, Highwood	P												DC	
SD 4 & 47, Whitehall	P												DC	
SD 5, Basin	P													
SD 5, Kalispell	P												DC	
SD 5, Melrose	P													
SD 5, Park City	P													
SD 5, Sand Coulee	P												DC	
SD 5, Sheridan	P												DC	
SD 5, Sidney	P												DC	
SD 5, Terry	P												DC	
SD 6, Columbia Falls	P												DC	
SD 6, Columbus	P												DC	
SD 6, Lame Deer	P												DC	
SD 6, Ryegate	P												DC	D
SD 6, Trout Creek	P													
SD 6, Wibaux	P													D
SD 6 & 1, St Regis	P												DC	
SD 7, Boulder	P													
SD 7, Bozeman	P												DC	
SD 7, Charlo	P												DC	
SD 7, Gardiner	P												DC	
SD 7, Grant	P													
SD 7, Hinsdale	P												DC	
SD 7, Joliet	P												DC	D
SD 7, Lolo	P												DC	
SD 7, Medicine Lake	P													
SD 7, Twin Bridges	P												DC	
SD 7, Victor	P													
SD 7 & 2, Savage	P													
SD 7 & 70, Laurel	P												DC	
SD 8, Arlee	P												DC	
SD 8, Elder Grove	P												DC	
SD 8, West Glacier	P													
SD 8, White Sulphur Springs	P													
SD 9, Browning	P												DC	
SD 9, Creston	P													
SD 9, Darby	P												DC	
SD 9, Dixon	P													
SD 9, East Helena	P												DC	D
SD 9, Opheim	P												DC	
SD 9, Poplar	P												DC	D
SD 9 & 9, Reed Point	P													
SD 10, Anaconda	P												DC	
SD 10, Cayuse	P													
SD 10, Chinook	P													
SD 10, Conrad	P												DC	
SD 10, Dillon	P												DC	
SD 10, Liberty	P													
SD 10, Noxon	P												DC	
SD 11, Brorson	P													
SD 11, Ovando Elementary School	P													
SD 11, Potomac	P													
SD 11, Wise River	P													
SD 11 & 2, Drummond	P													
SD 12, Baker	P													D
SD 12, Harlem	P												DC	
SD 12, Havre	P													
SD 12, Lima	P												DC	
SD 12, Rosebud	P													
SD 12, Saco	P												DC	
SD 12, Stanford	P													
SD 12 & 12, Molt	P													
SD J12-5, Shields Valley	P													
SD 13, Box Elder	P												DC	
SD 13, Eureka	P												DC	
SD 13, Fishtail	P													
SD 13, Lone Rock	P												DC	
SD 13, Nashua	P													

STATISTICAL SECTION

Schedule of Participating Employers (continued)

*P - Defined Benefit PERS *J - Judges *G - Game Wardens *H - Highway Patrol *S - Sheriffs *M - Police *F - Firefighters
 *DC - Defined Contribution PERS *D - 457

School Districts (continued)																
SD 14, Bonner	P														DC	
SD 14, Fortine	P														DC	
SD 14, Hot Springs	P															
SD 14, Malta	P														DC	
SD 14, Shelby	P															
SD 15, Custer	P														DC	
SD 15, Cut Bank	P														DC	
SD 15, Ekalaka	P														DC	D
SD 15, Helena Flats - Kalispell	P														DC	
SD 15 & 6, Florence-Carlton	P														DC	
SD 15 & 17, Willow Creek	P															
SD 16, Harlowton	P														DC	
SD 17, Culbertson	P															
SD 17, Morin	P															
SD 17H, Hardin	P														DC	
SD 18, Valier	P															
SD 18, Woodman	P															
SD 19, Colstrip	P														DC	
SD 20, DeSmet	P														DC	
SD 20, Garrison	P															
SD 20, Kila	P															
SD 20, Plentywood	P														DC	
SD 20, Whitewater	P															
SD 21, Broadview	P															
SD 21, Fairfield	P															
SD 21, Galata	P														DC	
SD 22, Cottonwood	P															
SD 23, Billings	P														DC	
SD 23, Harrison	P															
SD 23, Lustre	P															
SD 23, Missoula	P															
SD 23, Polson	P														DC	
SD 23, Roberts	P															
SD 24, Huntley Project	P														DC	
SD 24, Three Forks	P														DC	
SD 25, Hobson	P														DC	
SD 26, Lockwood	P														DC	
SD 26, Reichle	P															
SD 27, Elliston	P														DC	
SD 27, Grass Range	P															
SD 27, Monforton	P															
SD 27, Montana City	P															
SD 28, St. Ignatius	P														DC	
SD 28C, Dutton	P															
SD 29, Belt	P															
SD 29, Somers	P															
SD 29, Wyola	P															
SD 30, Power	P															
SD 30, Ronan	P														DC	
SD 30 & 6, Fromberg	P														DC	
SD 31, Miami Elementary	P															
SD 31, Stillwater County - Nye	P															
SD 32, Clinton	P														DC	
SD 32, Rapelje	P														DC	
SD 32J, Ashland	P														DC	
SD 33, Gold Creek	P															
SD 33, Swan Valley Elem	P															
SD 33, Upper West Shore	P															
SD 34, Seeley Lake	P															
SD 35, Gallatin Gateway	P															
SD 37, Shepherd	P														DC	
SD 38, Big Fork	P														DC	
SD 38, Lincoln	P														DC	
SD 40, Frenchtown	P														DC	
SD 41, Anderson	P														DC	
SD 41, Pioneer	P															
SD 43, Lamotte	P															
SD 43, Turner	P														DC	
SD 44, Belgrade	P														DC	
SD 44, Geraldine	P														DC	D
SD 44, Moore	P															
SD 44, Whitefish	P														DC	
SD 45, Augusta	P															
SD 45, Golden Ridge	P															
SD 45, Wolf Point	P														DC	
SD 47, Malmborg	P															
SD 48-1J & 48-2J, Chester	P															
SD 50, East Glacier	P														DC	
SD 50, Evergreen	P														DC	
SD 50, Hays	P															
SD 52, Absarokee	P														DC	
SD 52, Ennis	P														DC	
SD 52, Independent	P														DC	
SD 54, Marion	P															
SD 55, Brockton	P															
SD 55, Plevna	P														DC	D
SD 55, Roundup	P														DC	
SD 55F, Sun River Valley	P														DC	
SD 57, Havre	P															
SD 58, Geyser	P															
SD 58, Whitefish	P															
SD 58, Yellowstone	P															
SD 64, Bainville	P														DC	
SD 64J, Melstone	P															
SD 65, Froid	P															
SD 69, West Yellowstone	P														DC	
SD 72, Big Sky	P														DC	
SD 73, Swan Lake	P															
SD 74, Roy	P															
SD 74, Vaughn	P														DC	
SD 75, Amsterdam	P															
SD 75, Arrowhead	P															
SD 75, Greenfield	P															
SD 78J & 2, Richey	P														DC	
SD 84, Denton	P															
SD 85, Ulm	P														DC	
SD 86 & 4, Lambert	P															
SD 87, Rocky Boy	P															
SD 89, Smith Valley	P														DC	
SD 99, North Star Schools	P														DC	
SD 104, Spring Creek	P															
SD 115, Winifred	P															
SD 159, Winnett	P														DC	
Great Falls Public Schools	P														DC	
Jordan Public Schools	P															
Judith Gap Schools	P															
Havre Public Schools	P														DC	D

Schedule of Participating Employers (continued)

*P - Defined Benefit PERS *J - Judges *G - Game Wardens *H - Highway Patrol *S - Sheriffs *M - Police *F - Firefighters
*DC - Defined Contribution PERS *D - 457

Other Agencies (119)																
Anaconda Housing Authority	P															
Arlee-Lake County Water & Sewer	P															
Bear Paw Cooperative	P															
Bert Mooney Airport Authority	P															
Big Country Educational Cooperative	P															
Big Fork County Water & Sewer	P															
Big Horn Cemetery District #1	P															
Big Sky County Water & Sewer District #363	P														DC	D
Big Sky Resort Area District																D
Big Sky Economic Development Authority	P														DC	
Big Sky Fire Department	P														DC	
Big Sky Special Education Cooperative	P															
Billings Housing Authority	P														DC	D
Bitterroot Conservation District	P															
Bitterroot Public Library	P														DC	
Bitterroot Valley Special Education Cooperative	P														DC	D
Buffalo Rapids Irrigation District #1	P															
Buffalo Rapids Irrigation District #2	P															
Butte Housing Authority	P														DC	
Cascade County Conservation District	P														DC	
Center for Mental Health	P															
Central Montana Learning Resource Ctr	P														DC	
Central Valley Fire District	P															
Chouteau County Conservation District	P															
Colstrip Park & Recreation Districts																D
Columbus Rural Fire District #3	P															
Corvallis County Sewer District	P															
Crown Hill Cemetery District	P															
Daly Ditches Irrigation District	P														DC	
Dawson County Urban Transportation District	P															
Dawson Community College	P														DC	
Deer Lodge County Head Start Program	P															
Drummond School & Community Library District	P															
Dry Prairie Rural Water District	P															
Dry Redwater Regional Water Authority	P															
Eastern Yellowstone County Special Education Cooperative	P															
Fergus County Conservation District	P															
Flathead County Special Education Cooperative	P														DC	
Flathead Conservation District	P														DC	D
Flathead Emergency Communications Center	P															
Flathead Municipal Airport Authority	P														DC	
Flathead Valley Community College	P														DC	
Fort Shaw Irrigation District	P															
Frenchtown Rural Fire District	P															
Gallatin Airport Authority	P														DC	D
Gallatin Conservation District	P															
Gallatin-Madison Special Education Cooperative	P															
Gardiner-Park County Water District	P															
Glasgow Housing Authority	P															
Glasgow Irrigation District	P														DC	
Granite County Hospital & Nursing Home	P														DC	
Granite Conservation District	P															
Great Divide Education Services	P															
Great Falls International Airport	P														DC	
Great Falls Transit																D
Greenfields Irrigation District	P														DC	
Hebgen Basin Rural Fire	P															
Helena Housing Authority	P														DC	D
Helena Regional Airport Authority	P														DC	D
Helena Valley Irrigation District	P															
Hill County Public Cemetery District	P														DC	
Hinsdale Water and Sewer District	P															
Human Resources Council District XI	P														DC	
Human Resources Council District XII	P														DC	
Hyalite Rural Fire District	P															
Judith Basin Conservation District	P															
Lakeside County Water & Sewer	P															D
Larchmont Golf Course	P															
Lewis & Clark Conservation District	P															
Lewis & Clark Library	P														DC	
Liberty County Conservation District	P															
Lincoln Conservation District	P															
Lincoln County Rural Fire District	P															
Lockwood Rural Fire District #8	P															
Lockwood Water & Sewer District	P														DC	
Madison Conservation District	P														DC	
Malta Cemetery District	P															
Malta Irrigation District	P															
Meagher County Conservation District															DC	
Miles Community College	P														DC	D
Milk River Joint Board Control	P															
Missoula Area Special Education Cooperative	P															
Missoula County Airport	P														DC	
Missoula Rural Fire District	P														DC	
North Central Learning Special Education Cooperative	P															
North Lake County Public Library	P														DC	

STATISTICAL SECTION

Schedule of Participating Employers (continued)

*P - Defined Benefit PERS *J - Judges *G - Game Wardens *H - Highway Patrol *S - Sheriffs *M - Police *F - Firefighters
 *DC - Defined Contribution PERS *D - 457 *

Other Agencies (continued)												
North Valley Public Library District	P										D	
Northern Montana Joint Refuse Disposal District	P										DC	D
Northwest Montana Education	P											
Pablo-Lake County Water District	P											
Park County Rural Fire District #1	P										DC	
Petroleum County Conservation District	P											
Phillips Conservation District											DC	
Pondera County Canal & Reservoir	P										DC	
Pondera County Cemetery District 2	P											
Pondera Regional Port Authority	P											
Port of Montana — Port Authority	P										DC	
Prairie County Hospital District	P										DC	
Prairie View Special Services Coop											DC	
Prickly Pear Special Services Cooperative	P										DC	
Rae Water & Sewer District	P											
Red Lodge Rural Fire District 7	P										DC	
Richland County Housing Authority	P										DC	
Riverside County Water and Sewer District No. 310	P											
Ronan Library District	P											
Roundup Community Library	P											
Sanders Special Education Cooperative	P											
Seeley Lake Missoula County Water District	P										DC	
Seeley Lake Rural Fire District	P											
Sheridan-Daniels Special Education Cooperative												DC
Sidney-Richland Airport Authority	P										DC	
Somers County Water & Sewer District	P										DC	
Teton County Conservation District	P											
Thompson Falls Public Library	P										DC	
Upper Musselshell Conservation District	P											
Victor Water & Sewer	P											
Whitefish Housing Authority	P											
Yellowstone City-County Health Dept	P										DC	
Yellowstone-West Carbon Special Education Cooperative	P											
Rural Fire Districts (11)												
Big Mountain Fire District											F	
Big Sky Fire Department											F	
Central Valley Fire District											F	
Columbus Rural Fire District #3											F	
Frenchtown Rural Fire District											F	
Hebgen Basin Rural Fire District											F	
Hyalite Rural Fire District											F	
Lockwood Rural Fire District #8											F	
Missoula Rural Fire District											F	
Red Lodge Rural Fire District 7											F	
Seeley Lake Rural Fire District											F	

Volunteer Fire Departments (221)			This list includes all qualified departments with MPERA under MCA 19-17-101		
Absarokee Volunteer Fire Dept	Eureka Rural Volunteer Fire Dept	Plevna Volunteer Fire Dept			
Absarokee-Nye Volunteer Fire Dept	Evergreen Volunteer Fire Dept	Polson Rural Fire Company			
Alder Volunteer Fire Dept	Fairfield Rural Volunteer Fire Dept	Power Rural Volunteer Fire Dept			
Amsterdam Rural Volunteer Fire Dept	Ferndale Volunteer Fire Dept	Racetrack Valley Fire District			
Arlee Volunteer Fire Dept	Fisher River Fire Service Area	Racetrack Volunteer Fire Dept			
Ashland Volunteer Fire Dept	Floral Park Volunteer Fire Dept	Red Lodge Rural Volunteer Fire Dept, Company 1			
Augusta Volunteer Fire Dept	Florence Volunteer Fire Dept	Red Lodge Luther Company 2			
Avon Volunteer Fire Dept	Fort Benton Rural Volunteer Fire Dept	Roberts Rural Fire District #6			
Bad Rock Volunteer Fire Dept	Fort Ellis Rural Volunteer Fire Company	Rocker Volunteer Fire Dept			
Bainville Volunteer Fire Dept Dist #64	Fort Shaw Rural Volunteer Fire Dept	Rollins Volunteer Fire Dept			
Baker Rural Volunteer Fire Dept	Frenchtown Rural Volunteer Fire Dept, Station 1	Ronan Volunteer Fire Dept, Station 1			
Basin Volunteer Fire Dept	Frenchtown Rural Volunteer Fire Dept, Station 2	Ronan Volunteer Fire Dept, Station 2 (Pablo)			
Baxendale Volunteer Fire Dept	Frenchtown Rural Volunteer Fire Dept, Station 3	Rudyard Volunteer Fire Dept			
Bear Paw Volunteer Fire Dept	Frenchtown Rural Volunteer Fire Dept, Station 4	Sand Coulee Volunteer Fire Dept			
Belfry Volunteer Fire Dept	Frenchtown Rural Volunteer Fire Dept, Station 5	Seeley Lake Volunteer Fire Dept			
Belt Rural Volunteer Fire Dept	Gallatin Gateway Rural Volunteer Fire Dept	Shepherd Volunteer Fire Dept			
Big Arm Volunteer Fire Company	Gallatin River Ranch Rural Fire District	Sheridan Volunteer Fire Dept			
Big Butte Volunteer Fire Dept	Garrison Volunteer Fire Dept	Simms Volunteer Fire Dept			
Big Sandy Volunteer Fire Dept	Gateway Hose Volunteer Fire Company	Smith Valley Volunteer Fire Dept			
Bigfork Volunteer Fire Dept, Company A	Georgetown Lake Fire Service Area	Somers Volunteer Fire Dept			
Bigfork Volunteer Fire Dept, Company B	Geraldine Volunteer Fire Dept	Somers Volunteer Fire Dept, Lakeside Company			
Birdseye Rural Volunteer Fire Dept	Gore Hill Volunteer Fire Dept	South Kalispell Volunteer Fire Dept			
Black Eagle Volunteer Fire Dept	Grant Volunteer Fire Company	South Toole County Volunteer Fire Dept			

Schedule of Participating Employers (continued)

Volunteer Fire Departments (continued)		
Blaine County Rural Fire District, Chinook	Grasshopper Valley Volunteer Fire Company	St Ignatius Rural Volunteer Fire Dept
Blaine County Rural Fire District, Harlem	Greenough/Potomac Volunteer Fire Dept	St Labre Volunteer Fire Dept
Blaine County Rural Fire District, Hogeland	Harrison Volunteer Fire Dept	St Marie Rural Volunteer Fire Dept
Blankenship Rural Volunteer Fire Dept	Hawk Creek Rural Volunteer Fire Dept	St Regis Volunteer Fire Dept
Blue Creek Volunteer Fire Dept	Heath Rural Fire District	Stevensville, Burnt Fork Company
Boulevard Volunteer Fire Dept	Helmville Volunteer Fire Dept	Stevensville, Etna Company
Brady Volunteer Fire Dept	Heron Rural Fire District	Stevensville, Sunset Company
Bridger Canyon Volunteer Fire Dept	Highwood Volunteer Fire Dept	Stevensville Westside Company
Broadwater County Rural Fire District, Duck Creek	Hilger Rural Fire District	Sula Rural Volunteer Fire Dept
Broadwater County Rural Fire District, Radersburg	Hobson Rural Volunteer Fire Dept	Swan Lake Volunteer Fire Dept
Broadwater County Rural Fire District, Toston	Home Atherton Volunteer Fire Dept	Swan Valley Volunteer Fire Company
Broadwater County Rural Fire District, Townsend	Hot Springs Rural Fire District	Sweet Grass Volunteer Fire Dept, Company A
Broadwater County Rural Fire District, Winston	Hyalite Volunteer Fire Dept	Sweet Grass, Volunteer Fire Dept, Company B
Bull Lake Volunteer Fire Dept	Irvine Flats Fire Company	Terra Verde Heights Volunteer Fire Dept
Canyon Creek Fire District	Jefferson City-Community Volunteer Fire Dept	Trego-Fortine-Stryker (TFS) Volunteer Fire Dept
Carter Volunteer Fire Dept	Jefferson Valley Volunteer Fire Dept	Thompson Falls Rural Volunteer Fire Dept
Cascade Rural Volunteer Fire Dept	Knees Volunteer Fire Dept	Three Forks Rural Volunteer Fire Dept
Centerville Volunteer Fire Dept	Lewis & Clark County Rural Volunteer Fire Dept	Three Mile Volunteer Fire Dept - Stevensville
Central Valley Fire Dept, Company A	Lincoln County Rural Fire District #1	Treasure County Rural Volunteer Fire Dept
Central Valley Fire Dept, Company B	Lima Rural Volunteer Fire Dept	Tri-Lakes Volunteer Fire Dept, Company A
Central Valley Fire Dept, Company C	Lincoln Volunteer Fire Dept	Tri-Lakes Volunteer Fire Dept, Company B
Charlo-Moiese Volunteer Fire Dept	Little Basin Creek Volunteer Fire Dept	Trout Creek Rural Volunteer Fire Dept
Chouteau Rural Volunteer Fire Dept	Loma Rural Volunteer Fire Dept	Troy Rural Volunteer Fire Dept
Clancy Volunteer Fire Dept	Lost Creek/Antelope Gulch Volunteer Fire Dept	Turner Volunteer Fire Dept
Clarks Fork Rural Volunteer Fire Dept	Manchester Volunteer Fire Dept	Twin Bridges Volunteer Fire Company
Clinton Volunteer Fire Dept	Manhattan Rural Volunteer Fire Dept	Ulm Volunteer Fire Dept
Columbia Falls Rural Volunteer Fire Dept	Marion Volunteer Fire Dept	Upper Yak Fire Service
Columbus Rural Volunteer Fire Dept	Martin City Volunteer Fire Dept	Valier Volunteer Fire Dept
Conrad Rural Volunteer Fire Dept	Marysville Volunteer Fire Dept	Valley County Long Run Volunteer Fire Dept
Cooke City-Silver Gate Volunteer Fire Dept	McCormick Rural Volunteer Fire Dept	Vaughn Rural Volunteer Fire Dept
Coram-West Glacier Volunteer Fire Dept	Medicine Lake Volunteer Fire Dept	Victor Rural Volunteer Fire Dept
Corvallis Rural Fire District	Melrose Volunteer Fire Dept	West Fork Rural Fire District
Craig Volunteer Fire Dept	Missoula Volunteer Fire Dept, Pumper Company 1	West Glendive Volunteer Fire Dept
Creston Volunteer Fire Dept, Company #1	Medicine Lake Volunteer Fire Dept	West Helena Valley Volunteer Fire Dept
Creston Volunteer Fire Dept, Company #2		
Lake Blaine	Molt Volunteer Fire Dept	West Kootenai Fire Protection Company
Culbertson Volunteer Fire Dept	Monarch Volunteer Fire Dept	West Valley Anaconda Volunteer Fire Dept
Cut Bank Rural Volunteer Fire Dept	Montana City Volunteer Fire Dept, Company 1	West Valley Kalispell Volunteer Fire Dept
Darby Volunteer Fire Dept	Montana City Volunteer Fire Dept, Company 2	Wheatland County Volunteer Fire Dept
Dean Creek Volunteer Fire Dept	Monteclito Volunteer Fire District	Wibaux Volunteer Fire Dept
Dearborn Volunteer Fire Dept	Musselshell County Rural Volunteer Fire Dept	Willow Creek Rural Volunteer Fire Dept
Del Bonita Rural Volunteer Fire Company	North Toole County Volunteer Fire Dept	Wilsall Fire Department
Denton Volunteer Fire Dept	Noxon Rural Fire District	Winifred Rural Volunteer Fire Dept
Dillon Rural Volunteer Fire Dept, Company A	Olney Rural Volunteer Fire Dept	Wisdom Rural Volunteer Fire Dept
Dillon Rural Volunteer Fire Dept, Company B	Opportunity Volunteer Fire Dept	Wise River Volunteer Fire Company
Dixon Rural Volunteer Fire Dept	Ovando Volunteer Fire Dept	Wolf Creek Volunteer Fire Dept
	Painted Rocks Fire & Rescue Volunteer Fire Company	
Dutton Rural Volunteer Fire Dept	Paradise Valley Fire Service	Wolf Point Rural Volunteer Fire Dept
East Missoula Rural Volunteer Fire Dept		Worden Fire Dept - Company 1
East Valley Volunteer Fire Dept	Park City Rural Volunteer Fire Dept #2	York Fire Service Area
Eastgate Volunteer Fire Dept	Pendroy Rural Volunteer Fire Dept	
Elk Park Volunteer Fire Dept	Phillips County Volunteer Fire Dept	
Elliston Volunteer Fire Dept	Plains/Paradise Rural Volunteer Fire Dept	
Ennis & Madison Valley Rural Volunteer Fire Dept	Plentywood Rural Volunteer Fire Dept	

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This is a publication of the
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Cover photo supplied by Glacier National Park Service.
Avalanche Lake in Glacier National Park. Photo by Jacob W. Frank.

30 copies of this public document were published at an estimated cost of \$53.197 per copy, for a total cost of \$1,595.90, which includes \$1,595.90 for printing and \$0.00 for distribution.