# BERKSHIRE COUNTY CONTRIBUTORY RETIREMENT SYSTEM

RETIREMENT SYSTEM AUDIT REPORT JAN. 1, 2017 - DEC. 31, 2021



# **TABLE OF CONTENTS**

Letter from the Executive Director	1
Supplementary Information:	
Schedule of Allocation of Investments Owned	3
Administration of the System	4
Board Regulations	4
Actuarial Valuation and Assumptions	5
Membership Exhibit	6
Leased Premises	8
Independent Audit Reports:	
Melanson, Year Ended December 31, 2021	8
Melanson, Year Ended December 31, 2020	36
Melanson, Year Ended December 31, 2019	64
Melanson Heath, Year Ended December 31, 2018	93
Melanson Heath, Year Ended December 31, 2017	119



# COMMONWEALTH OF MASSACHUSETTS | PUBLIC EMPLOYEE RETIREMENT ADMINISTRATION COMMISSION

PHILIP Y. BROWN, ESO., Chair

WILLIAM T. KEEFE, Executive Director

Auditor DIANA DIZOGLIO | KATHLEEN M. FALLON | KATE FITZPATRICK | JAMES J. GUIDO | RICHARD MACKINNON, JR. | JENNIFER F. SULLIVAN, ESQ.

# October 2, 2024

The Public Employee Retirement Administration Commission (PERAC) has completed a review of the audits of the Berkshire County Retirement System conducted by the firm of Melanson, Certified Public Accountants. Melanson conducted these audits in accordance with auditing standards generally accepted in the United States of America. The audits covered the period from January 1, 2017, to December 31, 2021. Melanson was subsequently acquired by the firm of Marcum, LLP.

We conducted an inspection of the work papers prepared by Melanson. We determined that the audits were conducted in a competent professional manner and the work papers demonstrated that audit tests and procedures were performed in sufficient detail to allow us to accept the final audit reports as issued.

We identified specific differences between these financial audits designed to provide an opinion on financial statements and our compliance audits performed in accordance with the accounting and management standards established by PERAC in regulation 840 CMR 25.00 and in compliance with the provisions specified in PERAC Memo #18/2019.

Accordingly, we supplemented the field work conducted in the audits by Melanson with certain limited procedures designed to provide additional assurance that the accounting and management standards established by PERAC were adhered to and complied with. The specific objectives of our review were to determine: 1) that the Board is exercising appropriate fiduciary oversight, 2) that cash balances are accurately stated, 3) that travel expenses were properly documented and accounted for, 4) that retirement contributions are accurately deducted, 5) that retirement allowances were correctly calculated, and 6) that required member documentation is maintained.

To achieve these objectives, we inspected certain records of the Berkshire County Retirement Board in the above areas. Specifically, we reviewed the minutes of the Board meetings for compliance with fiduciary oversight, verified cash balances, and tested a sample of travel expenses for Board approvals, supporting documentation and proper accounting. We tested the payroll records of a sample of active members to confirm that the correct percentage of regular compensation is being deducted, including the additional two percent over \$30,000. We tested a sample of members who





Berkshire County Audit Report October 2, 2024 Page 2

retired during our audit period to verify that their retirement allowance was calculated in accordance with the statute. We also reviewed a sample of member files for accuracy and completeness.

In our opinion, the financial records are being maintained and the management functions are being performed in conformity with the standards established by PERAC.

We commend the Berkshire County Retirement Board for the exemplary operation of the system.

It should be noted that the financial statements included in this audit report were based on the work performed by Melanson and the tests conducted for the periods referenced in their opinion. These audits were not performed by employees or representatives of PERAC. It should also be noted that the opinions expressed in these audit reports were based on the laws and regulations in effect at the time.

The financial statements and footnotes presented in this report were limited to the express results as of and for the years ended December 31, 2021, December 31, 2020, December 31, 2018, and December 31, 2017.

In closing, I wish to acknowledge the work of Melanson who conducted these examinations, and the PERAC examiners who conducted limited procedures to supplement the field work and express my appreciation to the Berkshire County Retirement Board and staff for their courtesy and cooperation.

Sincerely,

William T. Keefe Executive Director

Bell Keefe





# SUPPLEMENTARY INFORMATION

# SCHEDULE OF ALLOCATION OF INVESTMENTS OWNED

(percentages by category)

		ASOFDECEME	BER 31, 2021
			PERCENTAGE
			OFTOTAL
		MARKET VALUE	ASSETS
Cash		\$4,177,606	1.2%
PRIT Cash Fund		3,000,016	0.8%
PRIT Core Fund		<u>351,326,306</u>	98.0%
	<b>Grand Total</b>	<u>\$358,503,928</u>	<u>100.0</u> %

For the year ending December 31, 2021, the rate of return for the investments of the Berkshire County Retirement System was 20.18%. For the ten-year period ending December 31, 2021, the rate of return for the investments of the Berkshire County Retirement System averaged 10.91%. For the 37-year period ending December 31, 2021, since PERAC began evaluating the returns of the retirement systems, the rate of return on the investments of the Berkshire County Retirement System was 9.43%.

The composite rate of return for all retirement systems for the year ending December 31, 2021 was 19.51%. For the ten-year period ending December 31, 2021, the composite rate of return for the investments of all retirement systems averaged 10.86%. For the 37-year period ending December 31, 2021, since PERAC began evaluating the returns of the retirement systems, the composite rate of return on the investments of all retirement systems averaged 9.58%.

# ADMINISTRATION OF THE SYSTEM

The System is administered by a five-person Board of Retirement consisting of the Chairperson who shall be appointed by the other four board members, a second member appointed by the Advisory Council, a third and fourth member who shall be elected by the members in or retired from the service of such system, and a fifth member appointed by the other four board members.

Chairman:	Michael Ovitt, Chairperson	Term Expires:	12/31/26
Appointed Member:	Sue Funk	Term Expires:	12/31/24
Elected Member:	Mark Bashara	Term Expires:	12/31/25
Elected Member:	Timothy Sorrell	Term Expires:	12/31/26
Appointed Member:	Beth Matson	Term Expires:	06/30/25

The Board members are required to meet at least once a month. The Board must keep a record of all of its proceedings. The Board must annually submit to the appropriate authority an estimate of the expenses of administration and cost of operation of the system. The board must annually file a financial statement of condition for the system with the Executive Director of PERAC.

The investment of the system's funds is the responsibility of the Board. All retirement allowances must be approved by the Retirement Board. The PERAC Actuary performs verification prior to payment, unless the system has obtained a waiver for superannuation calculations allowing them to bypass this requirement. All expenses incurred by the System must be approved by a majority vote of the Board. Payments shall be made only upon vouchers signed by two persons designated by the Board.

Retirement board members and employees are bonded by an authorized agent representing a company licensed to do business in Massachusetts. Fidelity insurance is the only required policy coverage under Ch. 32 §21 and §23 as well as 840 CMR 17.01. The policy is designed to cover specific intentional acts such as theft, fraud or embezzlement and also specify who commits such acts, most commonly employees of the system. This coverage reimburses the system for the losses it suffers as a result of its employees' actions. It does not insure the employees for their illegal acts. Statutorily required coverage is provided by the current fidelity insurance policy to a limit of \$1,000,000 with a \$10,000 deductible issued through Travelers Casualty and Surety Company. The system also has Fiduciary coverage to a limit of \$50,000,000 under a blanket policy issued through the Massachusetts Association of Contributory Retirement Systems.

# **BOARD REGULATIONS**

The Berkshire County Retirement Board has adopted Supplemental Regulations which are available on the PERAC website at <a href="https://www.mass.gov/berkshire-county-retirement-board-regulations">https://www.mass.gov/berkshire-county-retirement-board-regulations</a>.

# **ACTUARIAL VALUATION AND ASSUMPTIONS**

The most recent actuarial valuation of the System was prepared by Public Employee Retirement Administration Commission as of January 1, 2023.

The actuarial liability for active members was	\$139,092,293
The actuarial liability for vested terminated members was	5,893,471
The actuarial liability for non-vested terminated members was	2,712,687
The actuarial liability for retired members was	200,968,153
The total actuarial liability was	\$348,666,604
System assets as of that date were (actuarial value)	332,726,708
The unfunded actuarial liability was	\$ <u>15,939,896</u>
The ratio of system's assets to total actuarial liability was	95.4%
As of that date the total covered employee payroll was	\$56,391,267

The normal cost for employees on that date was 8.9% of payroll
The normal cost for the employer (including administrative expenses) was 11.1% of payroll

The principal actuarial assumptions used in the valuation are as follows:

Investment Return: 6.75% per annum

Rate of Salary Increase: Varies by group and service

SCHEDULE OF FUNDING PROGRESS AS OF JANUARY 1, 2023

	Actuarial	Actuarial	Unfunded			UAAL as a
Actuarial	Value of	Accrued	AAL	Funded	Covered	%of
Valuation	Assets	Liability	(UAAL)	Ratio	Payroll	Cov. Payroll
Date	(a)	(b)	( b-a )	(a/b)	(c)	( (b-a)/c )
1/1/2023	\$332,726,708	\$348,666,604	\$15,939,896	95.4%	\$56,391,267	28.3%
1/1/2021	\$282,589,130	\$323,222,853	\$40,633,723	87.4%	\$51,363,313	79.1%
1/1/2019	\$243,644,680	\$290,899,061	\$47,254,381	83.8%	\$47,202,931	100.1%
1/1/2017	\$214,133,210	\$258,608,965	\$44,475,755	82.8%	\$43,687,436	101.8%
1/1/2015	\$186,822,143	\$227,361,343	\$40,539,200	82.2%	\$42,306,759	95.8%

# MEMBERSHIP EXHIBIT

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Retirement in Past Years										
Superannuation	38	43	29	34	55	46	45	39	55	48
Ordinary Disability	0	0	0	0	0	0	0	0	0	1
Accidental Disability	0	1	0	0	0	0	0	0	0	1
Total Retirements	38	44	29	34	55	46	45	39	55	50
Total Retirees, Beneficiaries										
and Survivors	701	732	726	743	777	795	814	835	857	889
Total Active Members	1,179	1,183	1,136	1,169	1,145	1,154	1,151	1,188	1,167	1,225
Pension Payments										
Superannuation	\$7,057,523	\$7,607,407	\$7,966,916	\$8,348,966	\$9,199,138	\$9,832,596	\$10,380,783	\$10,985,056	\$11,513,727	\$12,097,370
Survivor/Beneficiary Payments	357,727	421,056	463,620	467,403	489,353	523,333	553,558	565,054	625,838	693,860
Ordinary Disability	58,552	62,395	63,856	65,767	95,347	83,063	85,130	87,234	89,375	107,597
Accidental Disability	508,779	561,964	591,329	581,299	541,040	630,196	569,513	599,233	593,999	653,880
Other	236,354	<u>568,718</u>	842,993	698,398	647,398	<u>851,480</u>	956,438	908,597	661,406	1,016,285
Total Payments for Year	\$ <u>8,218,935</u>	\$ <u>9,221,540</u>	\$ <u>9,928,715</u>	\$ <u>10,161,833</u>	\$ <u>10,972,276</u>	\$ <u>11,920,668</u>	\$ <u>12,545,422</u>	\$ <u>13,145,173</u>	\$ <u>13,484,346</u>	\$ <u>14,568,992</u>

# **LEASED PREMISES**

The Berkshire County Retirement Board leases approximately 1,800 square feet of space for its offices located at 29 Dunham Mall, Pittsfield, MA. The most recently signed lease will expire December 31, 2026. The landlord is Scarafoni Associates Nominee Trust.

The following schedule displays the minimum lease obligations on non-cancelable operating leases as of December 31, 2021:

For the year ending	<u>Annual Rent</u>
2022	\$31,740
2023	31,740
2024	31,740
2025	31,740
2026	31,740

Total future minimum lease payments required \$158,700



Financial Statements, Required Supplementary Information, and Other Information For the Year Ended December 31, 2021

(With Independent Auditor's Report Thereon)

# **TABLE OF CONTENTS**

	<u>Page</u>
INDEPENDENT AUDITOR'S REPORT	1
MANAGEMENT'S DISCUSSION AND ANALYSIS	4
BASIC FINANCIAL STATEMENTS	
Statement of Fiduciary Net Position	8
Statement of Changes in Fiduciary Net Position	9
Notes to Financial Statements	10
REQUIRED SUPPLEMENTARY INFORMATION	
Schedule of Changes in the Net Pension Liability	21
Schedules of the Net Pension Liability, Contributions, and Investment Returns	22
OTHER INFORMATION	
Independent Auditor's Report	23
Schedule of Employer Allocations	25
Schedule of Collective Pension Amounts	26



#### INDEPENDENT AUDITOR'S REPORT

To the Retirement Board Berkshire County Retirement System

#### **Opinions**

We have audited the financial statements of the Berkshire County Retirement System (the System), as of and for the year ended December 31, 2021 and the related notes to the financial statements, which collectively comprise the System's basic financial statements as listed in the table of contents.

In our opinion, the accompanying financial statements present fairly, in all material respects, the respective fiduciary net position of the Berkshire County Retirement System, as of December 31, 2021, and the respective changes in fiduciary net position for the year then ended in accordance with accounting principles generally accepted in the United States of America.

## **Basis for Opinions**

We conducted our audit in accordance with auditing standards generally accepted in the United States of America (GAAS). Our responsibilities under those standards are further described in the Auditor's Responsibilities for the Audit of the Financial Statements section of our report. We are required to be independent of the Berkshire County Retirement System and to meet our other ethical responsibilities, in accordance with the relevant ethical requirements relating to our audit. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinions.

# Responsibilities of Management for the Financial Statements

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

In preparing the financial statements, management is required to evaluate whether there are conditions or events, considered in the aggregate, that raise substantial doubt about the System's ability to continue as a going concern for twelve months beyond the financial

Merrimack, New Hampshire Andover, Massachusetts Greenfield, Massachusetts Ellsworth, Maine

800.282.2440 | melansoncpas.com



statement date, including any currently known information that may raise substantial doubt shortly thereafter.

#### Auditor's Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinions. Reasonable assurance is a high level of assurance but is not absolute assurance and therefore is not a guarantee that an audit conducted in accordance with GAAS will always detect a material misstatement when it exists. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control. Misstatements are considered material if there is a substantial likelihood that, individually or in the aggregate, they would influence the judgment made by a reasonable user based on the financial statements.

In performing an audit in accordance with GAAS, we:

- Exercise professional judgment and maintain professional skepticism throughout the audit.
- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, and design and perform audit procedures responsive to those risks. Such procedures include examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements.
- Obtain an understanding of internal control relevant to the audit 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 System's internal control. Accordingly,
  no such opinion is expressed.
- Evaluate the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluate the overall presentation of the financial statements.
- Conclude whether, in our judgment, there are conditions or events, considered in the
  aggregate, that raise substantial doubt about the System's ability to continue as a going
  concern for a reasonable period of time.

We are required to communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit, significant audit findings, and certain internal control—related matters that we identified during the audit.

800.282.2440 | melansoncpas.com



## **Required Supplementary Information**

Accounting principles generally accepted in the United States of America require that Management's Discussion and Analysis, the Schedule of Changes in the Net Pension Liability, and the Schedules of the Net Pension Liability, Contributions, and Investment Returns, be presented to supplement the basic financial statements. Such information is the responsibility of management and, 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.

Greenfield, Massachusetts

Melanson

July 27, 2022

#### MANAGEMENT'S DISCUSSION AND ANALYSIS

As management of the Berkshire County Retirement System (the System), we offer readers this narrative overview and analysis of the financial activities of the System for the year ended December 31, 2021.

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

This discussion and analysis is intended to serve as an introduction to the basic financial statements. The basic financial statements are comprised of two components: (1) fund financial statements and (2) notes to financial statements. This report also contains required supplementary information in addition to the basic financial statements themselves.

#### **Fund Financial Statements**

A fund is a grouping of related accounts that is used to maintain control over resources that have been segregated for specific activities or objectives. Fund accounting is used to ensure and demonstrate compliance with finance-related legal requirements.

The Statement of Fiduciary Net Position presents information on the System's assets, liabilities, and the resulting net position held in trust restricted for pension benefits. This statement reflects the System's investments at fair value, as well as cash, receivables, and liabilities.

The Statement of Changes in Fiduciary Net Position presents information showing how the System's net position restricted for pensions changed during the year ended December 31, 2021. It reflects contributions by participating employers, active members, and external parties, investment activity, along with deductions for retirement benefits, refunds, transfers, and administrative expenses.

# **Notes to Financial Statements**

The notes provide additional information that is essential for the reader to gain a full understanding of the data provided in the financial statements.

#### Required Supplementary Information

The required supplementary information includes this Management's Discussion and Analysis, the Schedule of Changes in the Net Pension Liability, and the Schedules of the Net Pension Liability, Contributions, and Investment Returns.

## **Financial Highlights**

- The System's total net position restricted for pensions was \$358,899,910 at December 31, 2021, a change of \$56,552,869, or 18.70%, over the prior year. This change is primarily due to investment gains during the year.
- Employer and employee contributions to the plan were \$17,511,167, which represents a \$1,131,973 change over the prior year. The employer share of contributions represents 64.91% of the total contributions made to the System.
- Benefits paid to plan participants changed by \$1,314,414 or 7.83%, totaling \$18,111,367. At December 31, 2021, there were 854 retirees and beneficiaries in receipt of pension benefits, as further discussed on page 10.
- The System's funded ratio (based on the System's GASB 68 valuation) as of the January 1, 2021 actuarial valuation was 107.00%.

## **Financial Statement Analysis**

The following is a summary of financial statement data for the current and prior fiscal year:

#### FIDUCIARY NET POSITION

	<u>2021</u>	<u>2020</u>
Assets		
Cash and receivables	\$ 4,845,827	\$ 11,560,695
Investments	354,326,322	290,918,307
Total Assets	359,172,149	302,479,002
Liabilities		
Accounts payable	272,239	131,961
Net Position		
Restricted for pensions	\$ 358,899,910	\$ 302,347,041

The System's total assets as of December 31, 2021 were \$359,172,149 and were mostly comprised of cash and investments. Total assets increased by \$56,693,147, or 18.74%, from the prior year primarily due to an increase in investment value.

#### **CHANGES IN FIDUCIARY NET POSITION**

	<u>2021</u>	2020
Additions		
Contributions	\$ 17,994,645	\$ 16,879,981
Investment income, net	58,435,211_	31,531,596_
Total Additions	76,429,856	48,411,577
Deductions		
Benefit payments	18,111,367	16,796,953
Other	1,765,620	1,281,059
Total Deductions	19,876,987	18,078,012
Changes in Net Position	56,552,869	30,333,565
Net Position Restricted for Pensions		
Beginning of Year	302,347,041_	272,013,476
End of Year	\$ 358,899,910	\$302,347,041

The amount needed to finance benefits is accumulated through the collection of employers' and employee's contributions, reimbursements from the Commonwealth of Massachusetts for pre-1998 COLA and through earnings on investments. Contributions and net investment income for calendar year 2021 resulted in a net gain of \$76,429,856. Employers' contributions increased by \$765,000, or 7.01% in calendar year 2021. The System had net investment income of \$58,435,211 versus \$31,531,596 in 2020, primarily due to investments performing more favorably in 2021.

The primary deductions of the System include the payment of pension benefits to participants and beneficiaries, refunds and transfers of member contributions, reimbursement payments in accordance with Massachusetts General Law, Chapter 32, Section 3(8)c, more commonly referred to as 3(8)c reimbursements, and the costs of administering the System. Total deductions for calendar year 2021 were \$19,876,987, which represents a change of \$1,798,975, or 9.95%, over deductions of \$18,078,012 in calendar year 2020. The payment of pension benefits changed by \$1,314,414 or 7.83% over the previous year.

# Return on Investment and Funding

The Berkshire County Retirement System Board continuously monitors investment performance at its monthly meetings. The money-weighted rate of return of the System investments, as of December 31, 2021, was 19.90%.

# **Requests for Information**

This financial report is designed to provide a general overview of the Berkshire County Retirement System's finances. Questions concerning any of the information provided in this report, or requests for additional financial information, should be addressed to:

Ms. Sheila LaBarbera Executive Director Berkshire County Retirement System 29 Dunham Mall Pittsfield, MA 01201-6207

# Statement of Fiduciary Net Position December 31, 2021

Assets		
Cash and short-term investments	\$	4,177,606
Investments in external investment pools		354,326,322
Accounts receivable	2	668,221
Total Assets		359,172,149
Liabilities		
Accounts payable		272,239
Net Position Restricted for pensions		358,899,910
Total Net Position	\$	358,899,910

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

# Statement of Changes in Fiduciary Net Position For the Year Ended December 31, 2021

Additions	
Contributions:	
Employers	\$ 11,680,000
Plan members	5,831,167
Other systems and Commonwealth of Massachusetts	483,478
Total Contributions	17,994,645
Investment income:	
Increase in fair value of investments	60,041,722
Less: management fees	(1,606,511)
Net Investment Income	58,435,211
Total Additions	76,429,856
Deductions	
Benefit payments to plan members, beneficiaries,	
and other systems	18,111,367
Refunds to plan members	727,503
Transfers to other systems	606,137
Administrative expenses	431,980
Total Deductions	19,876,987
Net Increase	56,552,869
Net Position Restricted for Pensions	
Beginning of Year	302,347,041
End of Year	\$ 358,899,910

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

#### **Notes to Financial Statements**

## 1. Description of Plan

Substantially all employees of the 46 member units in Berkshire County (except teachers and administrators under contract employed by the School Department) are members of the Berkshire County Retirement System (the System), a cost sharing, multiple employer public employee retirement system (PERS). Eligible employees must participate in the System. The pension plan provides pension benefits, deferred allowances, and death and disability benefits. Chapter 32 of the Massachusetts General Laws establishes the authority of the System, contribution percentages, and benefits paid. The Berkshire County Retirement Board does not have the authority to amend benefit provisions.

Membership of the plan consisted of the following at January 1, 2021:

Retirees and beneficiaries receiving benefits	854
Inactive members entitled to a return of	
employee contributions	213
Inactive members with a vested right to a	
deferred or immediate benefit	46
Active plan members	1,172
Total	2,285
Number of participating employers	46

### **Participant Contributions**

Participants contribute a set percentage of their gross regular compensation annually. Employee contribution percentages are specified in Chapter 32 of the Massachusetts General Laws. The employee's individual contribution percentage is determined by their date of entry into the system. In addition, all employees hired on or after January 1, 1979 contribute an additional 2% on all gross regular compensation over the rate of \$30,000 per year. The percentages are as follows:

Before January 1, 1975	5%
January 1, 1975 – December 31, 1983	7%
January 1, 1984 – June 30, 1996	8%
July 1, 1996 – present	9%

For those members entering a Massachusetts System on or after April 2, 2012 in Group 1, the contribution rate will be reduced to 6% when at least 30 years of creditable service has been attained.

#### **Employer Contributions**

Employers are required to contribute at actuarially determined rates as accepted by the Public Employee Retirement Administration Commission (PERAC).

#### **Participant Retirement Benefits**

A retirement allowance consists of two parts: an annuity and a pension. A member's accumulated total deductions and a portion of the interest they generate constitute the annuity. The difference between the total retirement allowance and the annuity is the pension. The average retirement benefit is approximately 80-85% pension and 15-20% annuity.

The System provides for retirement allowance benefits up to a maximum of 80% of a member's highest 3-year average annual rate of regular compensation for those hired prior to April 2, 2012 and the highest 5-year average annual rate of regular compensation for those first becoming members of the Massachusetts System on or after that date. However, per Chapter 176 of the Acts of 2011, for members who retire on or after April 2, 2012, if in the 5 years of creditable service immediately preceding retirement, the difference in the annual rate of regular compensation between any 2 consecutive years exceeds 100%, the normal yearly amount of the retirement allowance shall be based on the average annual rate of regular compensation received by the member during the period of 5 consecutive years preceding retirement. Benefit payments are based upon a member's age, length of creditable service, level of compensation, and group classification.

There are 4 classes of membership in the retirement system, but one of these classes, Group 3, is made up exclusively of the Massachusetts State Police. The other three classes are as follows:

- Group 1 General employees, including clerical, administrative, technical, and all other employees not otherwise classified.
- Group 2 Certain specified hazardous duty positions.
- Group 4 Police officers, firefighters, and other specified hazardous positions.

A retirement allowance may be received at any age, upon attaining 20 years of service. The plan also provides for retirement at age 55 if the participant was a member prior to January 1, 1978, with no minimum vesting requirements. If the participant was a member on or after January 1, 1978 and a member of Groups 1 or 2, then a retirement allowance may be received if the participant (1) has at least 10 years of creditable service, (2) is age 55, (3) voluntarily left System employment on or after that date, and (4) left accumulated annuity deductions in the fund. Members of Group 4 have no minimum vesting

requirements, however, must be at least age 55. Groups 2 and 4 require that participants perform the duties of the Group position for at least 12 months immediately prior to retirement.

A participant who became a member on or after April 2, 2012 is eligible for a retirement allowance upon 10 years creditable service and reaching ages 60 or 55 for Groups 1 and 2, respectively. Participants in Group 4 must be at least age 55. Groups 2 and 4 require that participants perform the duties of the Group position for at least 12 months immediately prior to retirement.

#### **Methods of Payment**

A member may elect to receive his or her retirement allowance in one of three forms of payment as follows:

- Option A Total annual allowance, payable in monthly installments, commencing at retirement and terminating at the members death.
- Option B A reduced annual allowance, payable in monthly installments, commencing
  at retirement and terminating at the death of the member, provided however, that if
  the total amount of the annuity portion received by the member is less than the
  amount of his or her accumulated deductions, including interest, the difference or
  balance of his accumulated deductions will be paid in a lump sum to the retiree's
  beneficiary or beneficiaries of choice.
- Option C A reduced annual allowance, payable in monthly installments, commencing at retirement. At the death of the retired employee, 2/3 of the allowance is payable to the member's designated beneficiary (who may be the spouse, or former spouse who has not remarried, child, parent, sister, or brother of the employee) for the life of the beneficiary. For members who retired on or after January 12, 1988, if the beneficiary pre-deceases the retiree, the benefit payable increases (or "pops up" to Option A) based on the factor used to determine the Option C benefit at retirement. For members who retired prior to January 12, 1988, if the System has accepted Section 288 of Chapter 194 of the Acts of 1998 and the beneficiary pre-deceases the retiree, the benefit payable "pops up" to Option A in the same fashion. The Option C became available to accidental disability retirees on November 7, 1996.

# **Participant Refunds**

Employees who resign from service and who are not eligible to receive a retirement allowance are entitled to request a refund of their accumulated total deductions. Members voluntarily withdrawing with at least 10 years of service or involuntarily withdrawing, receive 100% of the regular interest that has accrued on those accumulated total deductions. Members voluntarily withdrawing with less than 10 years of service get credited interest each year at a rate of 3%.

# 2. Nature of Operations and Summary of Significant Accounting Policies

#### Nature of Operations

The System is organized under Chapter 34B of the Massachusetts General Laws (MGL) and is subject to the provisions of Chapter 32 of the Massachusetts General Laws. The System is governed by a five-member board. The Board members are appointed or elected as specified by MGL Chapter 34B section 19(b) for terms ranging from 3 to 6 years. The System is also guided by an Advisory Council comprised of the official "Treasurers" of each member unit.

#### **Summary of Significant Accounting Policies**

The accounting policies of the System as reflected in the accompanying financial statements for the year ended December 31, 2021 conform to generally accepted accounting principles for public employee retirement systems (PERS). The more significant accounting policies of the System are summarized below:

#### Basis of Accounting

The System follows accounting policies mandated by the Commonwealth of Massachusetts. The accounting records are maintained on the accrual basis of accounting. Contributions from the members' employees are recognized as revenue in the period in which employees provide services to the respective member unit.

#### Investments

#### Investment Policy

Investments are reported at fair value in accordance with PERAC requirements. System assets are managed on a total return basis with a long-term objective of achieving and maintaining a fully funded status for the benefits provided through the pension plan.

#### Rate of Return

For the year ended December 31, 2021, the annual money-weighted rate of return on pension plan investments, net of pension plan investment expenses, was 19.90%. The money-weighted rate of return expresses investment performance, net of investment expense, adjusted for the changing amounts actually invested throughout the year.

#### 3. Cash and Short-Term Investments

# Custodial Credit Risk - Deposits

Custodial credit risk is the risk that in the event of a bank failure, the System's deposits may not be returned. Massachusetts General Laws Chapter 32, Section 23, limits the System's deposits "in a bank or trust company to an amount not exceeding ten percent of the capital and surplus of such bank or trust company." The System does not have a deposit policy for custodial credit risk.

As of December 31, 2021, none of the System's bank balance of \$4,350,086 was exposed to custodial credit risk as uninsured or uncollateralized.

#### 4. Investments

All of the System's investments totaling \$354,326,322 are in an external investment pool (the PRIT Fund).\*

\* Fair value is the same as the value of the pool share. The Pension Reserves Investment Trust (PRIT) was created under Massachusetts General Laws, Chapter 32, Section 22, in December 1983. The Pension Reserves Investment Trust is operated under contract with a private investment advisor, approved by the Pension Reserves Investment Management Board. The Pension Reserves Investment Management Board shall choose an investment advisor by requesting proposals from advisors and reviewing such proposals based on criteria adopted under Massachusetts General Laws, Chapter 30B.

#### Credit Risk - Investments in Debt Securities

Generally, credit risk is the risk that an issuer of an investment will not fulfill its obligation to the holder of the investment. Massachusetts General Laws, Chapter 32, Section 23, limits the investment of System funds, to the extent not required for current disbursements, in the PRIT Fund or in securities, other than mortgages or collateral loans, which are legal for the investment of funds in savings banks under the laws of the Commonwealth of Massachusetts, provided that no more than the established percentage of assets, is invested in any one security. The System does not have formal investment policies related to credit risk.

Due to their nature, none of the System's investments are subject to credit risk disclosure.

# **Custodial Credit Risk**

The custodial credit risk for investments is the risk that, in the event of the failure of the counterparty (e.g., broker-dealer) to a transaction, the System will not be able to recover the value of its investment or collateral securities that are in the possession of another party. The System does not have policies for custodial credit risk.

Investments in external investment pools and in open-end mutual funds are not exposed to custodial credit risk because their existence is not evidenced by securities that exist in physical or book entry form. Therefore, all of the System's investments of \$354,326,322 are exempt from custodial credit risk disclosure.

# Concentration of Credit Risk

Concentration of credit risk is the risk of loss attributable to the magnitude of the System's investment in a single issuer. Massachusetts General Laws Chapter 32, Section 23 limits the amount the System may invest in any one issuer or security type, with the exception of the PRIT Fund.

Investments issued or explicitly guaranteed by external investment pools are excluded from concentration of credit disclosure.

All of the System's investments are exempt from concentration of credit risk disclosure.

#### Interest Rate Risk - Investments in Debt Securities

Interest rate risk is the risk that changes in market interest rates will adversely affect the fair value of an investment. Generally, the longer the maturity of an investment, the greater the sensitivity of its fair value to changes in market interest rates. The System does not have a formal investment policy that limits investment maturities as a means of managing its exposure to fair value losses arising from increasing interest rates.

Information about the sensitivity of the fair values of the System's investments to market interest rate fluctuations is not applicable as all of the System's investments are immediately liquid.

# Foreign Currency Risk

Foreign currency risk is the risk that changes in foreign exchange rates will adversely affect the fair value of an investment. The System does not have a formal investment policy related to foreign currency risk.

#### Fair Value

The System categorizes its fair value measurements within the fair value hierarchy established by Governmental Accounting Standards Board Statement No. 72 Fair Value Measurement and Application.

Due to the nature of the System's investments, they are measured at net asset value.

The net asset value (NAV) per share is the amount of net assets attributable to each share of capital stock outstanding at the close of the period. Investments measured at the NAV for fair value are not subject to level classification.

			Recemption	
			Frequency	Redemption
		Unfunded	(If currently	Notice
Description	<u>Value</u>	Commitments	eligible)	Period
External investment pool: PRIT	\$_354,326,322	\$	Monthly	30 Days

#### 5. Accounts Receivable

Annually the Public Employee Retirement Administration (PERAC) determines the amount of employer contributions (pension appropriations) to be made to the System. The accounts receivable balance primarily represents legal amounts due from employers for pension appropriation not received until after December 31, 2021.

#### 6. Commitments and Contingencies

#### COVID-19

The COVID-19 outbreak in the United States (and across the globe) has resulted in economic uncertainties. There is considerable uncertainty around the duration and scope of the economic disruption. The extent of the impact of COVID-19 on the System's operational and financial performance will depend on certain developments, including the duration and spread of the outbreak, impact on individuals served by the System, employees, and vendors, all of which are uncertain and cannot be predicted. At this point, the extent to which COVID-19 may impact the System's financial condition or results of operations is uncertain.

#### **Outstanding Legal Issues**

On an ongoing basis, there are typically pending legal issues in which the System is involved. The System's management is of the opinion that the potential future settlement of these issues would not materially affect its financial statements taken as a whole.

#### **Unfunded Capital Commitments – Investments**

As of December 31, 2021, the System had no outstanding capital commitments.

# 7. Net Pension Asset of Participating Employers

The net pension asset was based on an actuarial valuation dated January 1, 2021, and rolled forward to December 30, 2021.

#### **Net Pension Asset of Employers**

The components of the net pension asset of the participating employers at December 31, 2021 were as follows (in thousands):

Total pension liability	\$	335,409
Plan fiduciary net position	10	(358,900)
Employers' net pension asset	\$_	(23,491)
Plan fiduciary net position as a percentage		
of total pension asset		107.00%

# **Actuarial Assumptions**

A summary of the actuarial assumptions as of the latest actuarial valuation is shown below:

Valuation date	1/1/2021
Actuarial cost method	<b>Entry Age Normal Cost Method</b>
Remaining amortization period	6 years remaining
Actuarial assumptions:	
Investment rate of return	6.75%
Projected salary increases: Group 1 and 2 Fire Police	4.25% 4.75% 4.75%
Inflation rate	Not explicitly stated
Post-retirement cost-of-living adjustment	3% of first \$14,000
Mortality rates:	
Pre-Retirement	Reflects the RP-2014 Blue Collar Employees table projected generationally with Scale MP-2020 (gender distinct)
Post-Retirement	Reflects the RP-2014 Blue Collar Healthy Annuitant table projected generationally with Scale MP-2020 (gender-distinct)
Disabled Retirees	Reflects the RP-2014 Blue Collar Healthy Annuitant table set forward 1 year projected generationally with Scale MP-2020 (gender distinct)

Actuarial valuations of the ongoing Systems involve estimates of the reported amounts and assumptions about probability of occurrence of events far into the future. Examples include assumptions about future employment mortality and future salary increases. Amounts determined regarding the net pension liability (asset) are subject to continual revision, as actual results are compared with past expectations and new estimates are made about the future.

#### Change of Assumptions

The investment rate of return was decreased from 7.00% in 2020 to 6.75% in 2021. This change increased the actuarial accrued liability by approximately \$7.9 million. The mortality table was modified to represent the RP-2014 Blue Color table projected generationally with Scale MP-2020. This change decreased the actuarial accrued liability by approximately \$1.9 million.

## **Target Allocations**

The long-term expected rate of return on pension plan investments was determined using a building-block method in which best-estimates ranges of expected future real rates of return (expected returns, net of pension plan investment expense and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation. Best estimates of arithmetic real rates of return for each major asset class included in the System's targeted asset allocation as of December 31, 2021, are summarized in the following table:

		Long-Term
	Target	Expected
	Asset	Real Rate
Asset Class	Allocation	of Return
Domestic equity	24.00%	1.51%
International equity	12.70%	0.81%
Emerging markets equity	5.00%	0.44%
Core fixed income	15.10%	0.82%
Value-added fixed income	6.50%	0.42%
Private equity	16.60%	1.68%
Real estate	8.70%	0.52%
Timberland	2.90%	0.19%
Hedge funds/PCS	7.80%	0.42%
Overlay	0.60%	0.00%
Total	99.90% *	

<sup>\*</sup> Total may not add due to rounding

#### **Discount Rate**

The discount rate used to measure the total pension liability was 6.75%. The projection of cash flows used to determine the discount rate assumed that contributions from participating employers will be made based on the actuarially determined rates based on the Board's funding policy, which establishes the contractually required rates by Statute. Based on those assumptions, the System's fiduciary net position was projected to be available to make all the projected future benefit payments of 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 total pension liability.

## Sensitivity of Discount Rate

The following presents the net pension liability (asset) of the participating employers calculated using the discount rate of 6.75%, as well as what the participating employers' net pension liability (asset) would be if it were calculated using a discount rate that is one percentage-point lower or one percentage-point higher than the current rate (in thousands):

		Current		
	1%	Discount		1%
I	Decrease	Rate		Increase
	(5.75%)	<u>(6.75%)</u>		<u>(7.75%)</u>
\$	13,885	\$ (23,491)	Ś	(55.185)

# **Deferred Outflows and Inflows of Resources**

The following schedule reflects the deferred outflows and inflows of resources for the System for the year ended December 31, 2021 (in thousands):

	Οι	Deferred utflows of esources	Deferred Inflows of <u>Resources</u>	
Differences between expected and actual experience	\$	1,987	\$	(79)
Changes of assumptions		9,237		-
Net difference between projected and actual investment earnings on pension plan investments			_(	41,585)
Total	\$_	11,224	\$_(	41,664)

The following summarizes changes in deferred outflows and inflows, excluding employer-specific amounts (in thousands):

	Measurement <u>Year</u>	Amortization Period	Beginning Balance on Prior Measurement Period Deferrals	Current Measurement Period <u>Additions</u>	Amortization of Amounts Recognized in Current Period Pension Expense	End of Year Balance
Deferred Outflows of Resources						
Differences between expected						
and actual experience	2021	4.9	\$ -	\$ 2,496	\$ (509)	\$ 1,987
	2017	4.8	105	-	(105)	-
Changes of assumptions	2021	4.9	-	6,100	(1,245)	4,855
	2019	4.9	6,689	-	(2,307)	4,382
	2017	4.8	1,530		(1,530)	
Total Deferred Outflows of Resou	rces		8,324	8,596	(5,696)	11,224
Deferred Inflows of Resources Differences between expected and actual experience	2019	4.9	(120)	-	41	(79)
Net difference between projected and actual investment earnings	d					
on pension plan investments	2021	5.0	-	(38,077)	7,615	(30,462)
	2020	5.0	(10,016)	5.50	2,504	(7,512)
	2019	5.0	(12,328)	527	4,109	(8,219)
	2018	5.0	9,214	-	(4,606)	4,608
	2017	5.0	(4,001)		4,001	
Total Deferred Inflows of Resource	es		(17,251)	(38,077)	13,664	(41,664)
Total Collective Deferred Outflows	and Inflows of Res	ources	\$ (8,927)	\$ (29,481)	\$7,968_	\$ (30,440)

The following schedule reflects the amortization of the balance of deferred outflows and inflows of resources:

Fiscal		
Year *		<u>Total</u>
2022	\$	(5,603)
2023		(10,436)
2024		(8,365)
2025	_	(6,036)
	\$_	(30,440)

<sup>\*</sup> Presented by member units' fiscal year to fairly present the fiduciary impact of related deferred outflow and inflows in the fiscal year affecting the member unit.

BERKSHIRE COUNTY RETIREMENT SYSTEM

Required Supplementary Information Schedule of Changes in the Net Pension Liability

(Unaudited)
(Amounts expressed in thousands)

		2022		2021		2020		2019		2018	(4)	2017		2016
Total Pension Liability														
Service cost	s	8,766	↔	8,080	ş	7,732	s	7,101	Ş	6,795	Ş	6,366	÷	6,092
Interest		21,246		21,165		19,607		19,491		18,049		18,094	-	16,812
Changes of benefit terms				,		(204)				632		,	_	(3,031)
Differences between expected and actual experience		2,496		,		1		,		,		,		2.
Changes of assumptions		6,100		¥		11,300				9,190		,		9,600
Benefit payments, including refunds of														
member contributions		(18,369)	-	(16,718)	- 1	(16,321)	1	(15,599)	I	(14,580)		(13,459)	1	(12,280)
Net change in total pension liability		20,239		12,527		22,114		10,993		20,086		11,001	П	17,193
Total pension liability - beginning	I	315,170		302,643	1	280,529	į,	269,536		249,450	7	238,449	22	221,256
Total pension liability - ending (a)		335,409		315,170		302,643		280,529		269,536	7	249,450	23	238,449
Plan Fiduciary Net Position														
Contributions - employer		11,680		10,915		10,203		9,741		9,297		8,880		8,431
Contributions - member		5,225		5,062		4,690		4,783		4,546		4,061		4,129
Net investment income		58,422		31,519		37,056		(5,419)		35,165		14,456		1,249
Benefit payments, including refunds of														
member contributions		(18,369)		(16,718)		(16,321)		(15,599)		(14,581)	_	(13,460)	1	(12,280)
Administrative expense		(432)		(457)		(432)		(431)		(437)		(403)		(400)
Other	-	27	1	13	J	32		27		15		12		9
Net change in plan fiduciary net position		56,553		30,334		35,228		(868'9)		34,005		13,546		1,135
Plan fiduciary net position - beginning	1	302,347	1	272,013	1	236,785	I	243,683		209,678	7	196,132	113	194,997
Plan fiduciary net position - ending (b)	1	358,900	1	302,347		272,013		236,785		243,683	2	209,678	13	196,132
Net Pension Liability (Asset) - Ending (a-b)	ν,	(23,491)	٥,	12,823	νl	30,630	∿ <sub>∥</sub>	43,744	ς, I	25,853	ω 	39,772	7	42,317

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

See notes to the System's financial statements for summary of significant actuarial methods and assumptions.

See Independent Auditor's Report.

BERKSHIRE COUNTY RETIREMENT SYSTEM

Required Supplementary Information Schedules of the Net Pension Liability, Contributions, and Investment Returns

(Unaudited)
(Amounts expressed in thousands)

2016	238,449 (196,312)	42,137	82.33%	42,307	%09.66	8,482	(8,482)		42,307	20.05%	0.66%
	•s- //	٠,		\$		<>	- 0	δ.	₩.		
2017	249,450 (209,678)	39,772	84.06%	42,307	94.01%	8,880	(8,880)		42,307	20.99%	7.59%
	δ.	S.		\$		\$	1	۰» ا	<>		
2018	269,536 (243,683)	25,853	90.41%	43,687	59.18%	9,297	(9,297)	e	43,687	21.28%	17.28%
	s l	.√I		₩.		\$	Į.	ν,	\$		
2019	280,529 (236,785)	43,744	84.41%	43,687	100.13%	9,741	(9,741)	-	43,687	22.30%	-2.31%
	٠ I	ν,		<>		s	1	ς, l	s.		
2020	302,643 (272,013)	30,630	88.88%	47,203	64.89%	10,203	(10,203)		47,203	21.62%	16.23%
	٠,	S.		s		\$	- 1	s,	<>-		
2021	315,170	12,823	95.93%	47,203	27.17%	10,915	(10,915)		47,203	23.12%	12.05%
	۸ ا	S.∥		<>		₩.	į	δ.	٠,		
2022	335,409	(23,491)	107.00%	51,363	-45.74%	11,680	(11,680)	,	51,363	22.74%	19.90%
	\$	Ϋ́		<>		s		Ş	\$		
	Schedule of Net Pension Liability Total pension liability Plan fiduciary net position	Net pension liability (asset)	Plan fiduciary net position as a percentage of the total pension liability (asset)	Covered payroll	Participating employer net pension liability (asset) as a percentage of covered payroll	Schedule of Contributions Actuarially determined contribution	determined contribution	Contribution deficiency (excess)	Covered payroll	Contributions as a percentage of covered payroll	Schedule of Investment Returns Annual money weighted rate of return, net of investment expense

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

See notes to the System's financial statements for summary of significant actuarial methods and assumptions.

See Independent Auditor's Report.



#### INDEPENDENT AUDITOR'S REPORT

To the Retirement Board Berkshire County Retirement System

#### **Opinions**

We have audited the accompanying schedule of employer allocations of the Berkshire County Retirement System (the System) as of and for the year December 31, 2021. We have also audited the columns titled net pension liability, total deferred outflows of resources excluding employer specific amounts, total deferred inflows of resources excluding employer specific amounts, and pension expense (specified column totals) included in the accompanying schedule of collective pension amounts of the Berkshire County Retirement System as of and for the year ended December 31, 2021.

In our opinion, the schedules referred to above present fairly, in all material respects, the employer allocations and net pension liability, total deferred outflows of resources excluding employer specific amounts, total deferred inflows of resources excluding employer specific amounts, and pension expense for the Berkshire County Retirement System as of and for the year ended December 31, 2021, in accordance with accounting principles generally accepted in the United States of America.

### **Basis for Opinions**

We conducted our audit in accordance with auditing standards generally accepted in the United States of America (GAAS). Our responsibilities under those standards are further described in the Auditor's Responsibilities for the Audit of the Schedule section of our report. We are required to be independent of the Berkshire County Retirement System and to meet our other ethical responsibilities, in accordance with the relevant ethical requirements relating to our audit. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

### Responsibilities of Management for the Schedules

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

Merrimack, New Hampshire Andover, Massachusetts Greenfield, Massachusetts Ellsworth, Maine



### Auditor's Responsibilities for the Audit of The Schedules

Our objectives are to obtain reasonable assurance about whether the schedules as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance but is not absolute assurance and, therefore, is not a guarantee that an audit conducted in accordance with GAAS will always detect a material misstatement when it exists. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control. Misstatements are considered material if there is a substantial likelihood that, individually or in the aggregate, they would influence the judgment made by a reasonable user based on the schedules.

In performing an audit in accordance with GAAS, we:

- Exercise professional judgment and maintain professional skepticism throughout the
- Identify and assess the risks of material misstatement of the schedules, whether due to fraud or error, and design and perform audit procedures responsive to those risks. Such procedures include examining, on a test basis, evidence regarding the amounts and disclosures in the schedules.
- Obtain an understanding of internal control relevant to the audit 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 System's internal control. Accordingly, no such opinion is expressed.
- Evaluate the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluate the overall presentation of the schedules.

We are required to communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit, significant audit findings, and certain internal control-related matters that we identified during the audit.

### **Restriction on Use**

Our report is intended solely for the information and use of Berkshire County Retirement System management, the Retirement Board, System employers and their auditors as of and for the year ended December 31, 2021 and is not intended to be and should not be used by anyone other than these specified parties.

Greenfield, Massachusetts

July 27, 2022

Melanson

# Schedule of Employer Allocations

	FY 2022	
	Actual Employer	Allocation
Employer	Contributions	Percentage
Berkshire County Mosquito Control	13,896	0.12%
Berkshire County Regional Housing Authority	165,596	1.43%
Berkshire Hills Regional School District	904,406	7.81%
Central Berkshire Regional School District	694,806	6.00%
Dalton Fire District	89,167	0.77%
Dalton Housing Authority	22,002	0.19%
District Department of Veteran Services	12,738	0.11%
Farmington River School District	148,225	1.28%
Great Barrington Fire District	63,691	0.55%
Lanesboro Village Fire & Water	25,476	0.22%
Lee Housing Authority	23,160	0.20%
Lenox Housing Authority	32,424	0.28%
Mount Greylock School District	658,908	5.69%
Mount Washington	26,634	0.23%
South Berkshire Regional School District	514,156	4.44%
Stockbridge Housing Authority	26,634	0.23%
Town of Alford	44,004	0.38%
Town of Becket	253,604	2.19%
Town of Cheshire	134,329	1.16%
Town of Clarksburg	162,121	1.40%
Town of Dalton	528,053	4.56%
Town of Egremont	206,126	1.78%
Town of Florida	147,067	1.27%
Town of Great Barrington	993,573	8.58%
Town of Hancock	16,212	0.14%
Town of Hinsdale	158,647	1.37%
Town of Lanesborough	250,130	2.16%
Town of Lee (including schools)	1,158,010	10.00%
Town of Lenox (including schools)	1,205,488	10.41%
Town of Monterey	128,539	1.11%
Town of New Marlborough	163,279	1.41%
Town of Otis	201,494	1.74%
Town of Peru	45,162	0.39%
Town of Richmond	222,338	1.92%
Town of Sandisfield	98,431	0.85%
Town of Savoy	60,217	0.52%
Town of Sheffield	261,710	2.26%
Town of Stockbridge	416,884	3.60%
Town of Tyringham	75,271	0.65%
Town of Washington	31,266	0.27%
Town of West Stockbridge	154,015	1.33%
Town of Williamstown	971,570	8.39%
Town of Windsor	48,637	0.42%
Williamstown Fire District	22,002	0.19%
Subtotal excluding ERI	11,580,098	100.00%
Town of Lanesborough	26,761	
Town of Lee (including schools)	8,757	
Town of New Marlborough	13,535	
Town of Williamstown	37,307	
Williamstown Fire District	13,542	
Total	\$_11,680,000	

See actuarial assumptions in the Berkshire County Retirement System's audited financial statements.

BERKSHIRE COUNTY RETIREMENT SYSTEM

Schedule of Collective Pension Amounts As of and for the Year Ended December 31, 2021

See actuarial assumptions in the Berkshire County Retirement System's audited financial statements.



Financial Statements, Required Supplementary Information, and Other Information For the Year Ended December 31, 2020

# **TABLE OF CONTENTS**

	<u>Page</u>
INDEPENDENT AUDITORS' REPORT	1
MANAGEMENT'S DISCUSSION AND ANALYSIS	3
BASIC FINANCIAL STATEMENTS	
Statement of Fiduciary Net Position	7
Statement of Changes in Fiduciary Net Position	8
Notes to Financial Statements	9
REQUIRED SUPPLEMENTARY INFORMATION	
Schedule of Changes in Net Pension Liability	21
Schedules of the Net Pension Liability, Contributions, and Investment Returns	22
OTHER INFORMATION	
Independent Auditors' Report	23
Schedule of Employer Allocations	25
Schedule of Collective Pension Amounts	26



### **INDEPENDENT AUDITORS' REPORT**

To the Retirement Board Berkshire County Retirement System

We have audited the accompanying financial statements of the Berkshire County Retirement System (the System), as of and for the year ended December 31, 2020, and the related notes to the financial statements, which collectively comprise the basic financial statements as listed in the table of contents.

### Management's Responsibility for the Financial Statements

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

### Auditors' Responsibility

Our responsibility is to express 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. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

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

Merrimack, New Hampshire Andover, Massachusetts Greenfield, Massachusetts Ellsworth, Maine



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 Berkshire County Retirement System as of December 31, 2020, and the respective changes in fiduciary net position for the year then ended in accordance 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 and Analysis, the Schedule of Changes in the Net Pension Liability, and the Schedules of the Net Pension Liability, Contributions, and Investment Returns, listed in the foregoing table of contents, be presented to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by the *Governmental Accounting Standards Board*, who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with evidence sufficient to express an opinion or provide any assurance.

Greenfield, Massachusetts October 20, 2021

Melanson

#### MANAGEMENT'S DISCUSSION AND ANALYSIS

As management of the Berkshire County Retirement System (the System), we offer readers this narrative overview and analysis of the financial activities of the System for the year ended December 31, 2020.

# **Overview of the Financial Statements**

This discussion and analysis is intended to serve as an introduction to the basic financial statements. The basic financial statements are comprised of two components: (1) fund financial statements and (2) notes to financial statements. This report also contains other required supplementary information in addition to the basic financial statements themselves.

#### **Fund Financial Statements**

A fund is a grouping of related accounts that is used to maintain control over resources that have been segregated for specific activities or objectives. Fund accounting is used to ensure and demonstrate compliance with finance-related legal requirements.

The Statement of Fiduciary Net Position presents information on the System's assets and liabilities and the resulting net position held in trust restricted for pension benefits. This statement reflects the System's investments at fair value, as well as cash, receivables, and liabilities.

The Statement of Changes in Fiduciary Net Position presents information showing how the System's net position restricted for pensions changed during the year ended December 31, 2020. It reflects contributions by participating employers, active members, and external parties, investment activity, along with deductions for retirement benefits, refunds, transfers, and administrative expenses.

# Notes to Financial Statements and Required Supplementary Information

The Notes to Financial Statements provide additional information that is essential for the reader to gain a full understanding of the data provided in the financial statements.

The Required Supplementary Information includes this Management's Discussion and Analysis, the Schedule of Changes in the Net Pension Liability, and the Schedules of Net Pension Liability, Contributions, and Investment Returns.

# **Financial Highlights**

The System's total net position restricted for pensions was \$302,347,041 at December 31, 2020, a change of \$30,333,565, or 11.15%, over the prior year. This change is primarily due to investment gains during the year.

- Employer and employee contributions to the plan were \$16,379,194, which represents a \$1,125,133 change over the prior year. The employer share of contributions represents 64.66% of the total contributions made to the System.
- Benefits paid to plan participants changed by \$616,300 or 3.81%, totaling \$16,796,953. At December 31, 2020, there were 816 retirees and beneficiaries in receipt of pension benefits, as further discussed on page 9.
- The System's funded ratio (based on the System's GASB 68 valuation) as of the January 1, 2019 actuarial valuation was 95.93%, with 7 years remaining in its amortization period from July 1, 2021.

### **Financial Statement Analysis**

The following is a summary of financial statement data for the current and prior fiscal years:

### **FIDUCIARY NET POSITION**

	<u>2020</u>	<u>2019</u>
Assets Cash and receivables Investments	\$ 11,560,695 	\$ 9,121,860 263,055,443
Total Assets	302,479,002	272,177,303
<b>Liabilities</b> Accounts payable	131,961_	163,827
Net Position Restricted for pensions	\$_302,347,041_	\$ 272,013,476

The System's total assets as of December 31, 2020 were \$302,479,002 and were mostly comprised of cash and investments. Total assets increased by \$30,301,699, or 11.13%, from the prior year primarily due to an increase in investment value.

### **CHANGES IN FIDUCIARY NET POSITION**

	2020	2019
Additions		
Contributions	\$ 16,879,981	\$ 15,745,661
Investment income, net	31,531,596_	37,063,402
Total Additions	48,411,577	52,809,063
Deductions		
Benefit payments	16,796,953	16,180,653
Other	1,281,059	1,400,101
Total Deductions	18,078,012	17,580,754_
Changes in Net Position	30,333,565	35,228,309
Net Position Restricted for Pensions		
Beginning of Year	_272,013,476	236,785,167
End of Year	\$_302,347,041	\$ 272,013,476

The amount needed to finance benefits is accumulated through the collection of employers' and employee's contributions, reimbursements from the Commonwealth of Massachusetts for pre-1998 COLA and through earnings on investments. Contributions and net investment income for calendar year 2020 resulted in a net gain of \$48,411,577. Employers' contributions increased by \$715,000, or 7.01% in calendar year 2020. The System had net investment income of \$31,531,596 versus \$37,063,402 in 2019, primarily due to investments performing slightly less favorably in 2020.

The primary deductions of the System include the payment of pension benefits to participants and beneficiaries, refunds and transfers of member contributions, reimbursement payments in accordance with Massachusetts General Law, Chapter 32, Section 3(8)c, more commonly referred to as 3(8)c reimbursements, and the costs of administering the System. Total deductions for calendar year 2020 were \$18,078,012, which represents a change of \$497,258, or 2.83%, over deductions of \$17,580,754 in calendar year 2019. The payment of pension benefits changed by \$616,300 or 3.81% over the previous year.

# **Requests for Information**

This financial report is designed to provide a general overview of the Berkshire County Retirement System's finances. Questions concerning any of the information provided in this report, or requests for additional financial information, should be addressed to:

Ms. Sheila LaBarbera Executive Director Berkshire County Retirement System 29 Dunham Mall Pittsfield, MA 01201-6207

# Statement of Fiduciary Net Position December 31, 2020

Assets		
Cash and short-term investments	\$	10,538,437
Investments in external investment pools		290,918,307
Accounts receivable	12	1,022,258
Total Assets		302,479,002
Liabilities		
Accounts payable	_	131,961
Net Position		
Restricted for pensions	-	302,347,041
Total Net Position	\$_	302,347,041

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

# Statement of Changes in Fiduciary Net Position For the Year Ended December 31, 2020

Additions		
Contributions:		
Employers	\$	10,915,000
Plan members		5,464,194
Other systems and Commonwealth of Massachusetts	_	500,787
Total Contributions		16,879,981
Investment income:		
Increase in fair value of investments		32,810,175
Less: management fees	_	(1,278,579)
Net Investment Income	_	31,531,596
Total Additions		48,411,577
Deductions		
Benefit payments to plan members, beneficiaries,		
and other systems		16,796,953
Refunds to plan members		422,030
Transfers to other systems		402,356
Administrative expenses	-	456,673
Total Deductions	-	18,078,012
Net Increase		30,333,565
Net Position Restricted for Pensions		
Beginning of Year		272,013,476
End of Year	\$_	302,347,041

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

### **Notes to Financial Statements**

# 1. Description of Plan

Substantially all employees of the 46 member units in Berkshire County (except teachers and administrators under contract employed by the School Department) are members of the Berkshire County Retirement System (the System), a cost sharing, multiple employer public employee retirement system (PERS). Eligible employees must participate in the System. The pension plan provides pension benefits, deferred allowances, and death and disability benefits. Chapter 32 of the Massachusetts General Laws establishes the authority of the System, contribution percentages, and benefits paid. The Berkshire County Retirement Board does not have the authority to amend benefit provisions.

Membership of the plan consisted of the following at January 1, 2019 (the latest actuarial valuation):

Retirees and beneficiaries receiving benefits	816
Inactive members entitled to a return of	
employee contributions	171
Inactive members with a vested right to a	
deferred or immediate benefit	45
Active plan members	1,151
Total	2,183
Number of participating employers	46

# **Participant Contributions**

Participants contribute a set percentage of their gross regular compensation annually. Employee contribution percentages are specified in Chapter 32 of the Massachusetts General Laws. The employee's individual contribution percentage is determined by their date of entry into the system. In addition, all employees hired on or after January 1, 1979 contribute an additional 2% on all gross regular compensation over the rate of \$30,000 per year. The percentages are as follows:

Before January 1, 1975	5%
January 1, 1975 – December 31, 1983	7%
January 1, 1984 – June 30, 1996	8%
July 1, 1996 – present	9%

For those members entering a Massachusetts System on or after April 2, 2012 in Group 1, the contribution rate will be reduced to 6% when at least 30 years of creditable service has been attained.

### **Employer Contributions**

Employers are required to contribute at actuarially determined rates as accepted by the Public Employee Retirement Administration Commission (PERAC).

### **Participant Retirement Benefits**

A retirement allowance consists of two parts: an annuity and a pension. A member's accumulated total deductions and a portion of the interest they generate constitute the annuity. The difference between the total retirement allowance and the annuity is the pension. The average retirement benefit is approximately 80-85% pension and 15-20% annuity.

The System provides for retirement allowance benefits up to a maximum of 80% of a member's highest 3-year average annual rate of regular compensation for those hired prior to April 2, 2012 and the highest 5-year average annual rate of regular compensation for those first becoming members of the Massachusetts System on or after that date. However, per Chapter 176 of the Acts of 2011, for members who retire on or after April 2, 2012, if in the 5 years of creditable service immediately preceding retirement, the difference in the annual rate of regular compensation between any 2 consecutive years exceeds 100%, the normal yearly amount of the retirement allowance shall be based on the average annual rate of regular compensation received by the member during the period of 5 consecutive years preceding retirement. Benefit payments are based upon a member's age, length of creditable service, level of compensation, and group classification.

There are 4 classes of membership in the retirement system, but one of these classes, Group 3, is made up exclusively of the Massachusetts State Police. The other three classes are as follows:

- Group 1 General employees, including clerical, administrative, technical, and all other employees not otherwise classified.
- Group 2 Certain specified hazardous duty positions.
- Group 4 Police officers, firefighters, and other specified hazardous positions.

A retirement allowance may be received at any age, upon attaining 20 years of service. The plan also provides for retirement at age 55 if the participant was a member prior to January 1, 1978, with no minimum vesting requirements. If the participant was a member on or after January 1, 1978 and a member of Groups 1 or 2, then a retirement allowance may be received if the participant (1) has at least 10 years of creditable service, (2) is age 55, (3) voluntarily left System employment on or after that date, and (4) left accumulated annuity deductions in the fund. Members of Group 4 have no minimum vesting

requirements, however, must be at least age 55. Groups 2 and 4 require that participants perform the duties of the Group position for at least 12 months immediately prior to retirement.

A participant who became a member on or after April 2, 2012 is eligible for a retirement allowance upon 10 years creditable service and reaching ages 60 or 55 for Groups 1 and 2, respectively. Participants in Group 4 must be at least age 55. Groups 2 and 4 require that participants perform the duties of the Group position for at least 12 months immediately prior to retirement.

### Methods of Payment

A member may elect to receive his or her retirement allowance in one of three forms of payment as follows:

- Option A Total annual allowance, payable in monthly installments, commencing at retirement and terminating at the members death.
- Option B A reduced annual allowance, payable in monthly installments, commencing
  at retirement and terminating at the death of the member, provided however, that if
  the total amount of the annuity portion received by the member is less than the
  amount of his or her accumulated deductions, including interest, the difference or
  balance of his accumulated deductions will be paid in a lump sum to the retiree's
  beneficiary or beneficiaries of choice.
- Option C A reduced annual allowance, payable in monthly installments, commencing at retirement. At the death of the retired employee, 2/3 of the allowance is payable to the member's designated beneficiary (who may be the spouse, or former spouse who has not remarried, child, parent, sister, or brother of the employee) for the life of the beneficiary. For members who retired on or after January 12, 1988, if the beneficiary pre-deceases the retiree, the benefit payable increases (or "pops up" to Option A) based on the factor used to determine the Option C benefit at retirement. For members who retired prior to January 12, 1988, if the System has accepted Section 288 of Chapter 194 of the Acts of 1998 and the beneficiary pre-deceases the retiree, the benefit payable "pops up" to Option A in the same fashion. The Option C became available to accidental disability retirees on November 7, 1996.

### **Participant Refunds**

Employees who resign from service and who are not eligible to receive a retirement allowance are entitled to request a refund of their accumulated total deductions. Members voluntarily withdrawing with at least 10 years of service or involuntarily withdrawing, receive 100% of the regular interest that has accrued on those accumulated total deductions. Members voluntarily withdrawing with less than 10 years of service get credited interest each year at a rate of 3%.

# 2. Nature of Operations and Summary of Significant Accounting Policies

### **Nature of Operations**

The System is organized under Chapter 34B of the Massachusetts General Laws (MGL) and is subject to the provisions of Chapter 32 of the Massachusetts General Laws. The System is governed by a five-member board. The Board members are appointed or elected as specified by MGL Chapter 34B section 19(b) for terms ranging from 3 to 6 years. The System is also guided by an Advisory Council comprised of the official "Treasurers" of each member unit.

# **Summary of Significant Accounting Policies**

The accounting policies of the System as reflected in the accompanying financial statements for the year ended December 31, 2020 conform to generally accepted accounting principles for public employee retirement systems (PERS). The more significant accounting policies of the System are summarized below:

### **Basis of Accounting**

The System follows accounting policies mandated by the Commonwealth of Massachusetts. The accounting records are maintained on the accrual basis of accounting. Contributions from the members' employees are recognized as revenue in the period in which employees provide services to the respective member unit.

#### Investments

#### Investment Policy

Investments are reported at fair value in accordance with PERAC requirements. System assets are managed on a total return basis with a long-term objective of achieving and maintaining a fully funded status for the benefits provided through the pension plan.

### Rate of Return

For the year ended December 31, 2020, the annual money-weighted rate of return on pension plan investments, net of pension plan investment expenses, was 12.05%. The money-weighted rate of return expresses investment performance, net of investment expense, adjusted for the changing amounts actually invested throughout the year.

### 3. Cash and Short-Term Investments

# Custodial Credit Risk - Deposits

Custodial credit risk is the risk that in the event of a bank failure, the System's deposits may not be returned. Massachusetts General Law Chapter 32, Section 23, limits the System's deposits "in a bank or trust company to an amount not exceeding ten percent of the capital and surplus of such bank or trust company." The System does not have a deposit policy for custodial credit risk.

As of December 31, 2020, none of the System's bank balance of \$10,636,562 was exposed to custodial credit risk as uninsured or uncollateralized.

#### 4. Investments

All of the System's investments totaling \$290,918,307 are in an external investment pool (the PRIT Fund).\*

\* Fair value is the same as the value of the pool share. The Pension Reserves Investment Trust (PRIT) was created under Massachusetts General Law, Chapter 32, Section 22, in December 1983. The Pension Reserves Investment Trust is operated under contract with a private investment advisor, approved by the Pension Reserves Investment Management Board. The Pension Reserves Investment Management Board shall choose an investment advisor by requesting proposals from advisors and reviewing such proposals based on criteria adopted under Massachusetts General Law, Chapter 30B.

### Credit Risk - Investments of Debt Securities

Generally, credit risk is the risk that an issuer of an investment will not fulfill its obligation to the holder of the investment. Massachusetts General Law, Chapter 32, Section 23, limits the investment of System funds, to the extent not required for current disbursements, in the PRIT Fund or in securities, other than mortgages or collateral loans, which are legal for the investment of funds in savings banks under the laws of the Commonwealth, provided that no more than the established percentage of assets, is invested in any one security. The System does not have formal investment policies related to credit risk.

Due to their nature, none of the System's investments are subject to credit risk disclosure.

### **Custodial Credit Risk**

The custodial credit risk for investments is the risk that, in the event of the failure of the counterparty (e.g., broker-dealer) to a transaction, the System will not be able to recover the value of its investment or collateral securities that are in the possession of another party. The System does not have policies for custodial credit risk.

All of the System's investments are exempt from custodial credit risk disclosure.

Investments in external investment pools and in open-end mutual funds are not exposed to custodial credit risk because their existence is not evidenced by securities that exist in physical or book entry form.

# Concentration of Credit Risk

Concentration of credit risk is the risk of loss attributable to the magnitude of the System's investment in a single issuer. Massachusetts General Law Chapter 32, Section 23 limits the amount the System may invest in any one issuer or security type, with the exception of the PRIT Fund.

Investments issued or explicitly guaranteed by external investment pools are excluded from concentration of credit disclosure.

All of the System's investments are exempt from concentration or credit risk disclosure.

### Interest Rate Risk - Investments of Debt Securities

Interest rate risk is the risk that changes in market interest rates will adversely affect the fair value of an investment. Generally, the longer the maturity of an investment, the greater the sensitivity of its fair value to changes in market interest rates. The System does not have a formal investment policy that limits investment maturities as a means of managing its exposure to fair value losses arising from increasing interest rates.

Information about the sensitivity of the fair values of the System's investments to market interest rate fluctuations is not applicable as all of the System's investments are immediately liquid.

### Foreign Currency Risk

Foreign currency risk is the risk that changes in foreign exchange rates will adversely affect the fair value of an investment. The System does not have a formal investment policy related to foreign currency risk.

#### Fair Value

The System categorizes its fair value measurements within the fair value hierarchy established by Governmental Accounting Standards Board Statement No. 72 Fair Value Measurement and Application (GASB 72).

The hierarchy is based on the valuation inputs used to measure the fair value of the asset. The hierarchy categorizes the inputs to valuation techniques used for fair value measurement into three levels as follows:

- Level 1 Inputs that reflect quoted prices (unadjusted) in active markets for identical
  assets or liabilities that the fund has the ability to access at the measurement date.
- Level 2 Inputs other than quoted prices that are observable for an asset or liability either directly or indirectly, including inputs in markets that are not considered to be active. Because they must often be priced on the basis of transactions involving similar but not identical securities or do not trade with sufficient frequency, certain directly held securities are categorized as level 2.
- Level 3 Unobservable inputs based on the best information available, using assumptions in determining the fair value of investments and derivative instruments.

The net asset value (NAV) per share is the amount of net assets attributable to each share of capital stock outstanding at the close of the period. Investments measured at the NAV for fair value are not subject to level classification.

The System has the following fair value measurements as of December 31, 2020:

Investments measured at the net asset value (NAV):

External investment pool:

PRIT Core Fund \$ 290,918,307

			Redemption	
		Unfunded	Frequency (If currently	Redemption Notice
Description	<u>Value</u>	Commitments	eligible)	Period
External investment pool: PRIT Core Fund	\$ 290,918,307	\$ -	Monthly	30 Days
ran cole runu	3 230,318,307	3	MOTITIN	30 Days

### 5. Accounts Receivable

Annually the Public Employee Retirement Administration (PERAC) determines the amount of employer contributions (pension appropriations) to be made to the System. The accounts receivable balance primarily represents legal amounts due from employers for pension appropriation not received until after December 31, 2020.

# 6. Commitments and Contingencies

### COVID-19

The COVID-19 outbreak in the United States (and across the globe) has resulted in economic uncertainties. There is considerable uncertainty around the duration and scope of the economic disruption. The extent of the impact of COVID-19 on our operational and financial performance will depend on certain developments, including the duration and spread of the outbreak, impact on individuals served by the System, employees, and vendors, all of which are uncertain and cannot be predicted. At this point, the extent to which COVID-19 may impact our financial condition or results of operations is uncertain.

### **Outstanding Legal Issues**

On an ongoing basis, there are typically pending legal issues in which the System is involved. The System's management is of the opinion that the potential future settlement of these issues would not materially affect its financial statements taken as a whole.

### Unfunded Capital Commitments - Investments

As of December 31, 2020, the System had no outstanding capital commitments.

# 7. Net Pension Liability of Participating Employers

The net pension liability was based on an actuarial valuation dated January 1, 2019, and rolled forward to December 30, 2020.

# **Net Pension Liability of Employers**

The components of the net pension liability of the participating employers at December 31, 2020 were as follows (in thousands):

Total pension liability	\$	315,170
Plan fiduciary net position		(302,347)
Employers' net pension liability		12,823
Plan fiduciary net position as a percentage		

# **Actuarial Assumptions**

A summary of the actuarial assumptions as of the latest actuarial valuation is shown below:

Valuation date	1/1/2019
Actuarial cost method	<b>Entry Age Normal Cost Method</b>
Remaining amortization period	7 years remaining
Actuarial assumptions:	
Investment rate of return	7.00%
Projected salary increases: Group 1 and 2 Fire Police	4.25% 4.75% 4.75%
Inflation rate	Not explicitly stated
Post-retirement cost-of-living adjustment	3% of first \$14,000
Mortality rates:	
Pre-Retirement	Reflects the RP-2014 Blue Collar Employees table projected generationally with Scale MP-2018 (gender distinct)
Post-Retirement	Reflects the RP-2014 Blue Collar Healthy Annuitant table projected generationally with Scale MP-2018 (gender-distinct)
Disabled Retirees	Reflects the RP-2014 Blue Collar Healthy Annuitant table set forward 1 year projected generationally with Scale MP-2018 (gender distinct)

Actuarial valuations of the ongoing Systems involve estimates of the reported amounts and assumptions about probability of occurrence of events far into the future. Examples include assumptions about future employment mortality and future salary increases. Amounts determined regarding the net pension liability are subject to continual revision, as actual results are compared with past expectations and new estimates are made about the future.

### **Target Allocations**

The long-term expected rate of return on pension plan investments was determined using a building-block method in which best-estimates ranges of expected future real rates of return (expected returns, net of pension plan investment expense and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation. Best estimates of arithmetic real rates of return for each major asset class included in the System's targeted asset allocation as of December 31, 2020, are summarized in the following table:

		Long-Term
	Target	Expected
	Asset	Real Rate
Asset Class	Allocation	of Return
U.S. equity	23.10%	1.48%
International equities	14.40%	0.95%
Emerging equities	5.80%	0.49%
Hedge equity	8.80%	0.50%
Core fixed income	15.80%	1.49%
Value-added fixed income	7.40%	0.46%
Private equity	12.60%	1.29%
Real estate	8.30%	0.50%
Timberland	3.30%	0.22%
Portfolio completion PCS	0.50%	0.03%
Total	100.00%	

### **Discount Rate**

The discount rate used to measure the total pension liability was 7.00%. The projection of cash flows used to determine the discount rate assumed that contributions from participating employers will be made based on the actuarially determined rates based on the Board's funding policy, which establishes the contractually required rates by Statute. Based on those assumptions, the System's fiduciary net position was projected to be available to make all the projected future benefit payments of 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 total pension liability.

### Sensitivity of Discount Rate

The following presents the net pension liability of the participating employers calculated using the discount rate of 7.00%, as well as what the participating employers' net pension liability (asset) would be if it were calculated using a discount rate that is one

percentage-point lower or one percentage-point higher than the current rate (in thousands):

		Current		
1%		Discount		1%
Decrease		Rate		Increase
(6.00%)		(7.00%)		(8.00%)
\$ 49.404	Ś	12 823	Ś	(19.465)

# Deferred Outflows/Inflows of Resources

The following schedule reflects the deferred outflows/inflows of resources for the System for the year ended December 31, 2020 (in thousands):

	Ou	Deferred of the sources of the sources	in	Peferred flows of esources
Differences between expected and actual experience	\$	105	\$	(120)
Changes of assumptions		8,219		-
Net difference between projected and actual investment earnings on pension plan investments	-	-	61 <u></u>	(17,131)
Total	\$_	8,324	\$_	(17,251)

The following summarizes changes in deferred outflows/inflows, excluding employer-specific amounts (in thousands):

	Measurement <u>Year</u>	Amortization Period	Beginning Balance on Prior Measurement Period Deferrals	Current Measurement Period Additions	Amortization of Amounts Recognized in Current Period Pension Expense	End of Year <u>Balance</u>
Deferred Outflows of Resources Differences between expected						
and actual experience	2017	4.8	\$ 237	\$ -	\$ (132)	\$ 105
Changes of assumptions	2019	4.9	8,995	-	(2,306)	6,689
	2017	4.8	3,445	-	(1,915)	1,530
Total Deferred Outflows of Resou	rces		12,677	-	(4,353)	8,324
Deferred Inflows of Resources Differences between expected and actual experience	2019	4.9	(162)	-	42	(120)
Net difference between projected and actual investment earnings	1					
on pension plan investments	2020	5.0	9	(12,520)	2,504	(10,016)
	2019	5.0	(16,437)		4,109	(12,328)
	2018	5.0	13,820	82	(4,606)	9,214
	2017	5.0	(8,002)	1.5	4,001	(4,001)
	2016	5.0	83_		(83)	-
Total Deferred Inflows of Resource	es		(10,698)	(12,520)	5,967	(17,251)
Total Collective Deferred Outflows/	Inflows of Resour	ces	\$ 1,979	\$ (12,520)	\$ 1,614	\$ (8,927)

The following schedule reflects the amortization of the balance of deferred outflows/(inflows) of resources:

Fiscal	
Year *	<u>Total</u>
2021	\$ (2,106)
2022	258
2023	(4,575)
2024	 (2,504)
	\$ (8,927)

<sup>\*</sup> Presented by member units' fiscal year to fairly present the fiduciary impact of related deferred outflows/inflows in the fiscal year affecting the member unit.

BERKSHIRE COUNTY RETIREMENT SYSTEM

Schedule of Changes in the Net Pension Liability Required Supplementary Information

(Unaudited)
(Amounts expressed in thousands)

<u>2020</u> <u>2019</u> <u>2018</u> <u>2017</u> <u>2016</u> <u>2015</u>		\$ 8,080 \$ 7,732 \$ 7,101 \$ 6,795 \$ 6,366 \$ 6,092	19,491 18,049 18,094	- 632 -	- 11,300 - 9,190 - 9,600	0	(16,718)         (16,321)         (15,599)         (14,580)         (13,459)         (12,280)	12,527 22,114 10,993 20,086 11,001 17,193	302,643 280,529 269,536 249,450 238,449 221,256	315,170 302,643 280,529 269,536 249,450 238,449		10,915 10,203 9,741 9,297 8,880 8,431	5,062 4,690 4,783 4,546 4,061 4,129	31,519 37,056 (5,419) 35,165 14,456 1,249	Jo	(16,718) (16,321) (15,599) (14,581) (13,460) (12,280)	(457)     (432)     (431)     (437)     (403)     (400)	<u>13</u> 32 27 15 12 6	n 30,334 35,228 (6,898) 34,005 13,546 1,135	272,013         236,785         243,683         209,678         196,132         194,997	302,347 272,013 236,785 243,683 209,678 196,132	\$ 12.823 \$ 30.630 \$ 43.744 \$ 75.853 \$ 39.777 \$ 47.317
	Total Pension Liability	Service cost	Interest	Changes of benefit terms	Changes of assumptions	Benefit payments, including refunds of	member contributions	Net change in total pension liability	Total pension liability - beginning	Total pension liability - ending (a)	Plan Fiduciary Net Position	Contributions - employer	Contributions - member	Net investment income	Benefit payments, including refunds of	member contributions	Administrative expense	Other	Net change in plan fiduciary net position	Plan fiduciary net position - beginning	Plan fiduciary net position - ending (b)	Net Pension Liability - Ending (a-b)

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

See Independent Auditors' Report.

BERKSHIRE COUNTY RETIREMENT SYSTEM

Required Supplementary Information Schedules of the Net Pension Liability, Contributions, and Investment Returns

(Unaudited)
(Amounts expressed in thousands)

A Section 1985		2020		2019		2018		2017		2016		2015
Schedule of Net Pension Lability Total pension liability Plan fiduciary net position	ۍ ا	315,170 (302,347)	ς I	302,643 (272,013)	ς, I	280,529 (236,785)	۰ ا	269,536 (243,683)	sy	249,450 (209,678)	ss l	238,449 (196,312)
Net pension liability	·ν <sub>II</sub>	12,823	Ϋ́	30,630	∥	43,744	Υ	25,853	s> ∥	39,772	∿ <sub>∥</sub>	42,137
Plan fiduciary net position as a percentage of the total pension liability		95.93%		88.88%		84.41%		90.41%		84.06%		82.33%
Covered payroll	\$	47,203	٠,	47,203	\$	43,687	\$	43,687	\$	42,307	δ.	42,307
Participating employer net pension liability as a percentage of covered payroll		27.17%		64.89%		100.13%		59.18%		94.01%		%09'66
Schedule of Contributions Actuarially determined contribution	₩	10,915	₩.	10,203	<>>	9,741	<b>\$</b>	9,297	<>→	8,880	₹	8,482
Contributions in relation to the actualismy determined contribution		(10,915)	1	(10,203)	1	(9,741)	1	(9,297)	I	(8,880)	I	(8,482)
Contribution deficiency (excess)	<sub>ν</sub> "		∿ <sub>∥</sub>	.	∿ <sub>∥</sub>		∿ <sub>∥</sub>	i	ν		ν, I	
Covered payroll	\$	47,203	<>	47,203	s	43,687	s	43,687	\$	42,307	\$	42,307
Contributions as a percentage of covered payroll		23.12%		21.62%		22.30%		21.28%		20.99%		20.05%
Schedule of Investment Returns Annual money weighted rate of return, net of investment expense		12.05%		16.23%		-2.31%		17.28%		7.59%		%99.0

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

See Independent Auditors' Report.



### INDEPENDENT AUDITORS' REPORT

To the Retirement Board Berkshire County Retirement System

#### Report on Schedules

We have audited the accompanying schedule of employer allocations of the Berkshire County Retirement System as of and for the year December 31, 2020, and the related notes. We have also audited the columns titled net pension liability, total deferred outflows of resources excluding employer specific amounts, total deferred inflows of resources excluding employer specific amounts, and pension expense (specified column totals) included in the accompanying schedule of collective pension amounts of the Berkshire County Contributory Retirement System as of and for the year ended December 31, 2020.

### Management's Responsibility for the Schedules

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

### Auditors' Responsibility

Our responsibility is to express opinions on the schedule of employer allocations and the specified column totals included in the schedule of collective pension amounts based on our audit. We conducted our audit in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the schedule of employer allocations and specified column totals included in the schedule of collective pension amounts are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the schedule of employer allocations and specified column totals included in the schedule of collective pension amounts. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the schedule of employer allocations and specified column totals included in the schedule of collective pension

Merrimack, New Hampshire Andover, Massachusetts Greenfield, Massachusetts Ellsworth, Maine



amounts, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the schedule of employer allocations and specified column totals included in the schedule of pension amounts in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the schedule of employer allocations and specified column totals included in the schedule of collective pension amounts.

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

### **Opinions**

In our opinion, the schedules referred to above present fairly, in all material respects, the employer allocations and net pension liability, total deferred outflows of resources excluding employer specific amounts, total deferred inflows of resources excluding employer specific amounts, and pension expense for the Berkshire County Retirement System as of and for the year ended December 31, 2020, in accordance with accounting principles generally accepted in the United States of America.

#### **Restriction on Use**

Molanson

Our report is intended solely for the information and use of Berkshire County Retirement System management, the Retirement Board, System employers and their auditors as of and for the year ended December 31, 2020 and is not intended to be and should not be used by anyone other than these specified parties.

Greenfield, Massachusetts October 20, 2021

### Schedule of Employer Allocations

	FV 2024	
	FY 2021 Actual Employer	Allocation
Employer	Contributions	Percentage
Berkshire County Mosquito Control  Berkshire County Regional Housing Authority	\$ 12,978 140,596	0.12% 1.30%
Berkshire Hills Regional School District	825,192	7.63%
Central Berkshire Regional School District	645,661	5.97%
County of Berkshire	043,001	0.00%
Dalton Fire District	75,706	0.70%
Dalton Housing Authority	21,630	0.20%
District Department of Veteran Services	11,897	0.11%
Farmington River School District	128,700	1.19%
Great Barrington Fire District	59,483	0.55%
Lanesboro Village Fire &Water	24,875	0.23%
Lee Housing Authority	21,630	0.20%
Lenox Housing Authority	28,119	0.26%
Mount Greylock School District	429,359	3.97%
Mount Washington	30,282	0.28%
South Berkshire Regional School District	489,924	4.53%
Stockbridge Housing Authority	29,201	0.27%
Town of Alford	45,423	0.42%
Town of Becket	237,932	2.20%
Town of Chalabara	125,455	1.16% 1.47%
Town of Clarksburg Town of Dalton	158,982 501,821	4.64%
Town of Egremont	187,101	1.73%
Town of Florida	118,966	1.10%
Town of Great Barrington	931.180	8.61%
Town of Hancock	18,386	0.17%
Town of Hinsdale	156,819	1.45%
Town of Lanesborough	296,334	2.74%
Town of Lee (including schools)	1,084,754	10.03%
Town of Lenox (including schools)	1,149,645	10.63%
Town of Monterey	121,129	1.12%
Town of New Ashford	1,082	0.01%
Town of New Marlborough	150,330	1.39%
Town of Otis	187,101	1.73%
Town of Peru	41,097	0.38%
Town of Richmond	221,710	2.05%
Town of Sandisfield	95,173	0.88%
Town of Savoy	47,587	0.44%
Town of Sheffield Town of Stockbridge	250,910 391,507	2.32% 3.62%
Town of Tyringham	80,032	0.74%
Town of Washington	34,608	0.32%
Town of West Stockbridge	136,270	1.26%
Town of Williamstown	1,003,641	9.28%
Town of Windsor	45,423	0.42%
Williamstown Fire District	19,467	0.18%
Subtotal excluding ERI	10,815,098	100.00%
Town of Lanesborough	26,761	Sandra Carraga Sanda Carraga S
Town of Lee (including schools)	8,757	
Town of New Marlborough	13,535	
Town of Williamstown	37,307	
Williamstown Fire District	13,542	
Total	\$ 10,915,000	
	10,515,000	

 $See \ actuarial \ assumptions \ in \ the \ Berkshire \ County \ Retirement \ System's \ audited \ financial \ statements.$ 

BERKSHIRE COUNTY RETIREMENT SYSTEM

Schedule of Collective Pension Amounts As of and for the Year Ended December 31, 2020

						Plan	Pension	Expense	\$ 4,014
	Total	Deferred	in flows of	Resources	Excluding	Employer	Specific	Amounts	\$ 17,251
Jeleffed Inflows of nesources	Net Difference	Between	Projected	and Actual	Investment	Earnings on	Pension Plan	Investments	\$ 17,131
Deletred Initio							Changes of	Assumptions	\$
				Differences	Between	Expected	and Actual	Experience	\$ 120
	Total	Deferred	Outflows of	Resources	Excluding	Employer	Specific	Amounts	\$ 8,324
Deterred Outmows of Resources	Net Difference	Between	Projected	and Actual	Investment	Earnings on	Pension Plan	Investments	
Dererred Outilo							Changes of	Assumptions	\$ 8,219
				Differences	Between	Expected	and Actual	Experience	\$ 105
							Vet Pension	Liability	12,823

See actuarial assumptions in the Berkshire County Retirement System's audited financial statements.



Financial Statements, Required Supplementary Information, and Other Information

For the Year Ended December 31, 2019

# **TABLE OF CONTENTS**

	PAGE
INDEPENDENT AUDITORS' REPORT	2
MANAGEMENT'S DISCUSSION AND ANALYSIS	3
BASIC FINANCIAL STATEMENTS:	
Statement of Fiduciary Net Position	7
Statement of Changes in Fiduciary Net Position	8
Notes to Financial Statements	9
REQUIRED SUPPLEMENTARY INFORMATION:	
Schedule of Changes in the Net Pension Liability	22
Schedules of Net Pension Liability, Contributions, and Investment Returns	23
OTHER INFORMATION:	
Independent Auditors' Report	24
Schedule of Employer Allocations	26
Schedule of Collective Pension Amounts	27



### INDEPENDENT AUDITORS' REPORT

To the Retirement Board
Berkshire County Retirement System

We have audited the accompanying financial statements of the Berkshire County Retirement System (the System), as of and for the year ended December 31, 2019, and the related notes to the financial statements, which collectively comprise the basic financial statements as listed in the table of contents.

### Management's Responsibility for the Financial Statements

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

### **Auditors' Responsibility**

Our responsibility is to express 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. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

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

Nashua, New Hampshire Manchester, New Hampshire Andover, Massachusetts Greenfield, Massachusetts Ellsworth, Maine



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 Berkshire County Retirement System as of December 31, 2019, and the respective changes in fiduciary net position for the year then ended in accordance with accounting principles generally accepted in the United States of America.

### **Report on Summarized Comparative Information**

We have previously audited the System's 2018 financial statements, and we expressed an unmodified audit opinion on those audited financial statements in our report dated August 21, 2019. In our opinion, the summarized comparative information presented herein as of and for the year ended December 31, 2018 is consistent, in all material respects, with the audited financial statements from which it has been derived.

#### **Other Matters**

# Required Supplementary Information

Accounting principles generally accepted in the United States of America require that the Management's Discussion and Analysis, the Schedule of Changes in the Net Pension Liability, and the Schedules of Net Pension Liability, Contributions, and Investment Returns, listed in the foregoing table of contents, be presented to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board, who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with evidence sufficient to express an opinion or provide any assurance.

Greenfield, Massachusetts September 9, 2020

## **MANAGEMENT'S DISCUSSION AND ANALYSIS**

As management of the Berkshire County Retirement System (the System), we offer readers this narrative overview and analysis of the financial activities of the System for the year ended December 31, 2019.

## A. OVERVIEW OF THE FINANCIAL STATEMENTS

This discussion and analysis is intended to serve as an introduction to the basic financial statements. The basic financial statements are comprised of two components: (1) fund financial statements and (2) notes to financial statements. This report also contains other supplementary information in addition to the basic financial statements themselves.

<u>Fund financial statements</u>. A fund is a grouping of related accounts that is used to maintain control over resources that have been segregated for specific activities or objectives. Fund accounting is used to ensure and demonstrate compliance with finance-related legal requirements.

The Statement of Fiduciary Net Position presents information on the System's assets and liabilities and the resulting net position held in trust restricted for pension benefits. This statement reflects the System's investments at fair value, as well as cash, receivables, and liabilities.

The Statement of Changes in Fiduciary Net Position presents information showing how the System's net position restricted for pensions changed during the year ended December 31, 2019. It reflects contributions by members and participating employers, investment activity, along with deductions for retirement benefits, refunds, transfers, and administrative expenses.

<u>Notes to financial statements.</u> The Notes to Financial Statements provide additional information that is essential for the reader to gain a full understanding of the data provided in the financial statements.

The Required Supplementary Information includes this Management's Discussion and Analysis, the Schedule of Changes in the Net Pension Liability, and the Schedules of Net Pension Liability, Contributions, and Investment Returns.

#### **B. FINANCIAL HIGHLIGHTS**

- The System's total net position restricted for pensions was \$272,013,476 at December 31, 2019.
- The System's net position increased by \$35,228,309, which is primarily due to net investment gains during the year.

- Employer and employee contributions to the plan were \$15,050,409, which represents an increase of \$685,840 over the prior year. The employer share of contributions represents 64.8% of the total contributions made to the System.
- Benefits paid to plan participants increased by \$781,102 or 5.07%, totaling \$16,180,653. At December 31, 2019, there were 816 retirees and beneficiaries in receipt of pension benefits, as further discussed on page 9.
- The System's funded ratio (based on the System's GASB 68 valuation) as of the January 1, 2019 actuarial valuation was 89.9%, with 9 years remaining in its amortization period from July 1, 2020.

# C. FINANCIAL STATEMENT ANALYSIS

The following is a summary of financial statement data for the current and prior fiscal years (in thousands):

# FIDUCIARY NET POSITION

	2019		2018
Assets			
Cash and receivables	\$ 9,122	\$	7,206
Investments	263,055	9.0	229,687
Total Assets	272,177		236,893
Liabilities			
Accounts payable	164_	1	108
Total Liabilities	164		108
Net Position			
Restricted for Pensions	\$ 272,013	\$	236,785

The System's total assets as of December 31, 2019 were \$272,177,303 and were mostly comprised of cash and investments. Total assets increased by \$35,283,929 or 14.89% from the prior year primarily due to an increase in investment value.

## **CHANGES IN FIDUCIARY NET POSITION**

	2019	2018
Additions		
Contributions	\$ 15,746	\$ 15,224
Investment income / (loss), net	37,063	(5,418)
Total Additions	52,809	9,806
Deductions		
Benefit payments	16,181	15,400
Other	1,400	1,304_
Total Deductions	17,581_	16,704_
Changes in Net Position	35,228	(6,898)
Net Position Restricted for Pensions		
Beginning of Year	236,785	243,683
End of Year	\$ 272,013	\$_236,785_

The amount needed to finance benefits is accumulated through the collection of employers' and employees' contributions, reimbursements from the Commonwealth of Massachusetts for pre-1998 COLA and through earnings on investments. Contributions and net investment income for calendar year 2019 resulted in a net gain of \$52,809,063. Employers' contributions increased by \$451,926, or 4.63% in calendar year 2019. The System had a net investment income of \$37,063,402 in 2019, versus a loss of \$(5,417,698) in 2018, primarily due to the market performing more favorably in calendar year 2019.

The primary deductions of the System include the payment of pension benefits to participants and beneficiaries, refunds and transfers of member contributions, reimbursement payments in accordance with Massachusetts General Law, Chapter 32, Section 3(8)c, more commonly referred to as 3(8)c reimbursements, and the costs of administering the System. Total deductions for calendar year 2019 were \$17,580,754, which represents an increase of \$876,832, or 5.25%, over deductions of \$16,703,922 in calendar year 2018. The payment of pension benefits increased by \$781,102 or 5.07% over the previous year.

# **REQUESTS FOR INFORMATION**

This financial report is designed to provide a general overview of the Berkshire County Retirement System's finances. Questions concerning any of the information provided in this report, or requests for additional financial information, should be addressed to:

Ms. Sheila LaBarbera Executive Director Berkshire County Retirement System 29 Dunham Mall Pittsfield, MA 01201-6207

# Statement of Fiduciary Net Position

# December 31, 2019

Assets		
Cash and short-term investments	\$	6,138,042
Investments in external investment pool		263,055,443
Accounts receivable	_	2,983,818
Total Assets	\$_	272,177,303
Liabilities		
Accounts payable	\$	163,827
Net Position		
Restricted for pensions		272,013,476
Total Liabilities and Net Position	\$_	272,177,303

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

# Statement of Changes in Fiduciary Net Position

For the Year Ended December 31, 2019

Additions		
Contributions:		
Employers	\$ 1	0,202,891
Plan members		4,847,518
Other systems and Commonwealth of Massachusetts		671,024
Other	(1)	24,228
Total Contributions	1	5,745,661
Investment income:		
Appreciation in fair value of investments	3	8,345,660
Less: management fees		(1,282,258)
Net Investment Gain	3	7,063,402
Total Additions	5	2,809,063
Deductions		
Benefit payments to plan members and beneficiaries	1	.6,180,653
Refunds to plan members		605,077
Transfers to other systems		363,383
Administrative expenses		431,641
Total Deductions	1	17,580,754
Net Increase	3	35,228,309
Net Position Restricted for Pensions		
Beginning of Year	23	86,785,167
End of Year	\$2	72,013,476

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

#### **Notes to Financial Statements**

# 1. Description of Plan

Substantially all employees of the 46 member unit employers in Berkshire County (except teachers and administrators under contract employed by the School Departments) are members of the Berkshire County Retirement System (the System), a cost sharing, multiple employer public employee retirement system (PERS). Eligible employees must participate in the System. The pension plan provides pension benefits, deferred allowances, and death and disability benefits. Chapter 32 of the Massachusetts General Laws establishes the authority of the System, contribution percentages, and benefits paid. The Berkshire County Retirement Board does not have the authority to amend benefit provisions.

Membership of the plan consisted of the following at the latest actuarial valuation:

Retirees and beneficiaries receiving benefits	816
Inactive members entitled to a return of employee	474
contributions	171
Inactive members with a vested right to a deferred or	
immediate benefit	45
Active plan members	1,151
Total	2,183
Number of participating employers	46

## **Participant Contributions**

Participants contribute a set percentage of their gross regular compensation annually. Employee contribution percentages are specified in Chapter 32 of the Massachusetts General Laws. The employee's individual contribution percentage is determined by their date of entry into the system. In addition, all employees hired on or after January 1, 1979 contribute an additional 2% on all gross regular compensation over the rate of \$30,000 per year. The percentages are as follows:

Before January 1, 1975	5%
January 1, 1975 – December 31, 1983	7%
January 1, 1984 – June 30, 1996	8%
July 1 1996 – present	9%

For those members entering a Massachusetts System on or after April 2, 2012 in Group 1, the contribution rate will be reduced to 6% when at least 30 years of creditable service has been attained.

## **Employer Contributions**

Employers are required to contribute at actuarially determined rates as accepted by the Public Employee Retirement Administration Commission (PERAC).

#### Participant Retirement Benefits

A retirement allowance consists of two parts: an annuity and a pension. A member's accumulated total deductions and a portion of the interest they generate constitute the annuity. The difference between the total retirement allowance and the annuity is the pension. The average retirement benefit is approximately 80-85% pension and 15-20% annuity.

The System provides for retirement allowance benefits up to a maximum of 80% of a member's highest 3-year average annual rate of regular compensation for those hired prior to April 2, 2012 and the highest 5-year average annual rate of regular compensation for those first becoming members of the Massachusetts System on or after that date. However, per Chapter 176 of the Acts of 2011, for members who retire on or after April 2, 2012, if in the 5 years of creditable service immediately preceding retirement, the difference in the annual rate of regular compensation between any 2 consecutive years exceeds 100%, the normal yearly amount of the retirement allowance shall be based on the average annual rate of regular compensation received by the member during the period of 5 consecutive years preceding retirement. Benefit payments are based upon a member's age, length of creditable service, level of compensation, and group classification.

There are 4 classes of membership in the retirement system, but one of these classes, Group 3, is made up exclusively of the Massachusetts State Police. The other three classes are as follows:

- Group 1 General employees, including clerical, administrative, technical, and all other employees not otherwise classified.
- Group 2 Certain specified hazardous duty positions.
- Group 4 Police officers, firefighters, and other specified hazardous positions.

A retirement allowance may be received at any age, upon attaining 20 years of service. The plan also provides for retirement at age 55 if the participant was a member prior to January 1, 1978, with no minimum vesting requirements. If the participant was a member on or after January 1, 1978 and a member of Groups 1 or 2, then a retirement

allowance may be received if the participant (1) has at least 10 years of creditable service, (2) is age 55, (3) voluntarily left System employment on or after that date, and (4) left accumulated annuity deductions in the fund. Members of Group 4 have no minimum vesting requirements, however, must be at least age 55. Groups 2 and 4 require that participants perform the duties of the Group position for at least 12 months immediately prior to retirement.

A participant who became a member on or after April 2, 2012 is eligible for a retirement allowance upon 10 years creditable service and reaching ages 60 or 55 for Groups 1 and 2, respectively. Participants in Group 4 must be at least age 55. Groups 2 and 4 require that participants perform the duties of the Group position for at least 12 months immediately prior to retirement.

#### Methods of Payment

A member may elect to receive his or her retirement allowance in one of three forms of payment as follows:

- Option A Total annual allowance, payable in monthly installments, commencing at retirement and terminating at the members death.
- Option B A reduced annual allowance, payable in monthly installments, commencing at retirement and terminating at the death of the member, provided however, that if the total amount of the annuity portion received by the member is less than the amount of his or her accumulated deductions, including interest, the difference or balance of his accumulated deductions will be paid in a lump sum to the retiree's beneficiary or beneficiaries of choice.
- Option C A reduced annual allowance, payable in monthly installments, commencing at retirement. At the death of the retired employee, 2/3 of the allowance is payable to the member's designated beneficiary (who may be the spouse, or former spouse who has not remarried, child, parent, sister, or brother of the employee) for the life of the beneficiary. For members who retired on or after January 12, 1988, if the beneficiary pre-deceases the retiree, the benefit payable increases (or "pops up" to Option A) based on the factor used to determine the Option C benefit at retirement. For members who retired prior to January 12, 1988, if the System has accepted Section 288 of Chapter 194 of the Acts of 1998 and the beneficiary pre-deceases the retiree, the benefit payable "pops up" to Option A in the same fashion. The Option C became available to accidental disability retirees on November 7, 1996.

## **Participant Refunds**

Employees who resign from service and who are not eligible to receive a retirement allowance are entitled to request a refund of their accumulated total deductions. Members voluntarily withdrawing with at least 10 years of service or involuntarily withdrawing, receive 100% of the regular interest that has accrued on those accumulated total deductions. Members voluntarily withdrawing with less than 10 years of service get credited interest each year at a rate of 3%.

## 2. Nature of Operations and Summary of Significant Accounting Policies

#### Nature of Operations

The System is organized under Chapter 34B of the Massachusetts General Laws (MGL) and is subject to the provisions of Chapter 32 of the Massachusetts General Laws. The System is governed by a five-member board. The Board members are appointed or elected as specified by MGL Chapter 34B section 19(b) for terms ranging from 3 to 6 years. The System is also guided by an Advisory Council comprised of the official "Treasurers" of each member unit.

## **Summary of Significant Accounting Policies**

The accounting policies of the System as reflected in the accompanying financial statements for the year ended December 31, 2019 conform to generally accepted accounting principles for public employee retirement systems (PERS). The more significant accounting policies of the System are summarized below:

# **Basis of Accounting**

The System follows accounting policies mandated by the Commonwealth of Massachusetts. The accounting records are maintained on the accrual basis of accounting. Contributions from the members' employees are recognized as revenue in the period in which employees provide services to the respective member unit.

## Investments

#### Investment Policy

Investments are reported at fair value in accordance with PERAC requirements. System assets are managed on a total return basis with a long-term objective of achieving and maintaining a fully funded status for the benefits provided through the pension plan.

## Rate of Return

For the year ended December 31, 2019, the annual money-weighted rate of return on pension plan investments, net of pension plan investment expenses, was 16.23%. The money-weighted rate of return expresses investment performance, net of investment expense, adjusted for the changing amounts actually invested throughout the year.

## **Comparative Financial Information**

The financial statements include certain prior year summarized comparative information. Such information does not include sufficient detail to constitute a presentation in conformity with generally accepted accounting principles. Accordingly, such information should be read in conjunction with the System's financial statements for the year ended December 31, 2018.

# 3. Cash and Short-Term Investments

Custodial Credit Risk - Deposits. Custodial credit risk is the risk that in the event of a bank failure, the System's deposits may not be returned. Massachusetts General Law Chapter 32, Section 23, limits the System's deposits "in a bank or trust company to an amount not exceeding ten percent of the capital and surplus of such bank or trust company." The System does not have a deposit policy for custodial credit risk.

As of December 31, 2019, none of the System's bank balance of \$6,354,858 was exposed to custodial credit risk as uninsured or uncollateralized, and collateral held by pledging bank's trust department not in the System's name.

# 4. Investments

All of the System's investments totaling \$263,055,443 are in an external (State) investment pool. \*

\* Fair value is the same as the value of the pool share. The Pension Reserves Investment Trust (PRIT) was created under Massachusetts General Law, Chapter 32, Section 22, in December 1983. The Pension Reserves Investment Trust is operated under contract with a private investment advisor, approved by the Pension Reserves Investment Management Board. The Pension Reserves Investment Management Board shall choose an investment advisor by requesting proposals from advisors and reviewing such proposals based on criteria adopted under Massachusetts General Law, Chapter 30B.

# A. Credit Risk

Generally, credit risk is the risk that an issuer of an investment will not fulfill its obligation to the holder of the investment. Massachusetts General Law, Chapter 32, Section 23, limits the investment of System funds, to the extent not required for current disbursements, in the PRIT Fund or in securities, other than mortgages or collateral loans, which are legal for the investment of funds in savings banks under the laws of the Commonwealth, provided that no more than the established percentage of assets, is invested in any one security.

Due to their nature, none of the System's investments are subject to credit risk disclosure.

# B. Custodial Credit Risk

The custodial credit risk for investments is the risk that, in the event of the failure of the counterparty (e.g., broker-dealer) to a transaction, a government will not be able to recover the value of its investment or collateral securities that are in the possession of another party. The System does not have policies for custodial credit risk but manages custodial risk through diversification and the "prudent person" principles outlines in PERAC guidelines. The System manages this risk with SIPC and excess SIPC.

All of the System's investments are comprised of shares in the Pension Reserve Investment Trust (PRIT) Fund, which is exempt from custodial credit risk disclosure.

# C. Concentration of Credit Risk

Massachusetts General Law Chapter 32, Section 23 limits the amount the System may invest in any one issuer or security type, with the exception of the PRIT Fund.

Investments issued or explicitly guaranteed by the U.S government and investments in mutual funds, external investment pools, and other pooled investments are excluded from concentration of credit disclosure.

All of the System's investments are in the PRIT fund, which are exempt from concentration of credit risk disclosure.

# D. Interest Rate Risk

Interest rate risk is the risk that changes in market interest rates will adversely affect the fair value of an investment. Generally, the longer the maturity of an investment, the greater the sensitivity of its fair value to changes in market

interest rates. The System does not have a formal investment policy that limits investment maturities as a means of managing its exposure to fair value losses arising from increasing interest rates; however, the System's investments consist of pooled funds which are not subject to interest rate risk.

Information about the sensitivity of the fair values of the System's investments to market interest rate fluctuations is not applicable as all the System's investments are immediately liquid.

# E. Foreign Currency Risk

Foreign currency risk is the risk that changes in foreign exchange rates will adversely affect the fair value of an investment. The System does not have a formal investment policy related to foreign currency risk.

#### F. Fair Value

The System categorizes its fair value measurements within the fair value hierarchy established by Governmental Accounting Standards Board Statement No. 72 Fair Value Measurement and Application (GASB 72).

The hierarchy is based on the valuation inputs used to measure the fair value of the asset. The hierarchy categorizes the inputs to valuation techniques used for fair value measurement into three levels as follows:

- Level 1 Inputs that reflect quoted prices (unadjusted) in active markets for identical assets or liabilities that the fund has the ability to access at the measurement date.
- Level 2 Inputs other than quoted prices that are observable for an asset or liability either directly or indirectly, including inputs in markets that are not considered to be active. Because they must often be priced on the basis of transactions involving similar but not identical securities or do not trade with sufficient frequency, certain directly held securities are categorized as level 2.
- Level 3 Unobservable inputs based on the best information available, using assumptions in determining the fair value of investments and derivative instruments.

The net asset value (NAV) per share is the amount of net assets attributable to each share of capital stock outstanding at the close of the period. Investments measured at the NAV for fair value are not subject to level classification.

The System has the following fair value measurements as of December 31, 2019 (in thousands):

investments measured at the net		
asset value (NAV):		<u>Value</u>
External Investment Pools	<	263.05

External investment Pools	\$ 263,055			
			Redemption	
			Frequency	Redemption
		Unfunded	(If currently	Notice
Description	<u>Value</u>	Commitments	eligible)	<u>Period</u>
External Investment Pools	\$ 263,055	\$ -	Monthly	30 Days

# 5. Accounts Receivable

Annually the Public Employee Retirement Administration (PERAC) determines the amount of employer contributions (pension appropriations) to be made to the System. The accounts receivable balance primarily represents legal amounts due from employers for pension appropriation not received until after December 31, 2019.

## Accounts Payable

This balance represents calendar year 2019 expenditures paid by the System after year end. The expenditures consist of salaries, 3(8)c reimbursements, and refunds.

### 7. Contingencies

There are various pending claims arising in the ordinary course of operations; however, management believes that the probable liability resulting from such claims and litigation would not materially affect the System's financial position.

## 8. Subsequent Events

The COVID-19 outbreak in the United States (and across the globe) has resulted in economic uncertainties. The disruption is expected to be temporary, but there is considerable uncertainty around the duration and scope. The extent of the impact of COVID-19 on our operational and financial performance will depend on certain developments, including the duration and spread of the outbreak, impact on our

students served by the System, employees, and vendors, all of which are uncertain and cannot be predicted. At this point, the extent to which COVID-19 may impact our financial condition or results of operations is uncertain.

# 9. Net Pension Liability of Participating Employers

The net pension liability was based on an actuarial valuation dated January 1, 2019 and rolled forward to December 31, 2019.

# A. Net Pension Liability of Employers

The components of the net pension liability of the participating employers at December 31, 2019 were as follows (in thousands):

Total pension liability	\$	302,643
Plan fiduciary net position	-	(272,013)
Employers' net pension liability	\$_	30,630
Plan fiduciary net position as a percentage of total pension liability		89.9%

# B. Actuarial Assumptions

A summary of the actuarial assumptions as of the latest actuarial valuation is shown below:

Valuation date	1/1/2019
Actuarial cost method	Entry Age Normal Cost Method
Remaining amortization period	8 years
Actuarial assumptions:	
Investment rate of return	7.00%
Projected salary increases:	
Group 1 and 2	4.25%
Fire	4.75%
Police	4.75%
Inflation rate	Not explicitly stated
Post-retirement cost-of-living adjustment	3% of first \$14,000

Actuarial valuations of the ongoing System involve estimates of the reported amounts and assumptions about probability of occurrence of events far into the future. Examples include assumptions about future employment mortality and future salary increases. Amounts determined regarding the net pension liability are subject to continual revision, as actual results are compared with past expectations and new estimates are made about the future.

Mortality rates were based on the following:

Pre-retirement and beneficiary mortality: Based on RP-2014 Blue Collar Employees table projected generationally with Scale MP-2018 (gender distinct).

Mortality for retired members: Based on RP-2014 Blue Collar Health Annuitant table projected generationally with Scale MP-2018 (gender distinct).

Mortality for disabled members: Based on RP-2014 Blue Collar Healthy Annuitant table set forward 1 year projected generationally with Scale MP-2018 (gender distinct).

## **Changes of Assumptions**

The discount rate in 2019 changed to 7.0% compared to the discount rate of 7.25% in 2018. The mortality tables were also updated from the previous valuation. The System's total pension liability increased by approximately \$8.9 million as a result of these changes.

# C. Target Allocations

The long-term expected rate of return on pension plan investments was determined using a building-block method in which best-estimates ranges of expected future real rates of return (expected returns, net of pension plan investment expense and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation. Best estimates of arithmetic real rates of return for each major asset class included in the System's targeted asset allocation as of December 31, 2019, are summarized in the following table.

Real Long-Term Target Return Expected Arithmetic Real Rate Asset Asset Class **Allocation** <u>Basis</u> of Return 7.62% 0.99% U.S. equity 13.00% International equities 13.00% 7.80% 1.01% 0.47% **Emerging equities** 5.00% 9.31% 0.55% Hedged equity 8.00% 6.89% 4.37% 0.26% Core bonds 6.00% Short-term fixed income 2.00% 4.01% 0.08% 20+ yr. Treasury STRIPS 3.00% 3.50% 0.11% 4.00% 4.00% 0.16% Value-added fixed income 8.00% 7.58% 0.61% Private equity 13.00% 11.15% 1.45% Real estate 6 43% 0.64% 10.00% Timberland 0.28% 4.00% 7.00% Portfolio completion (PBC) 11.00% 6.76% 0.74% Total 100.00%

#### D. Discount Rate

The discount rate used to measure the total pension liability was 7.0%. The projection of cash flows used to determine the discount rate assumed that contributions from participating employers will be made based on the actuarially determined rates based on the Board's funding policy, which establishes the contractually required rates by Statute. Based on those assumptions, the System's fiduciary net position was projected to be available to make all the projected future benefit payments of 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 total pension liability.

# E. Sensitivity of Discount Rate

The following presents the net pension liability of the participating employers calculated using the discount rate of 7.0%, as well as what the participating employers' net pension liability would be if it were calculated using a discount rate that is one percentage-point lower or one percentage-point higher than the current rate (in thousands):

	Current	
1%	Discount	1%
Decrease	Rate	Increase
(6.0%)	(7.0%)	(8.0%)
\$64.664	\$30,630	\$1,777

# F. <u>Deferred Outflows/(Inflows) of Resources</u>

The following schedule reflects the deferred outflows/(inflows) of resources for the System for the year ended December 31, 2019 (in thousands):

	Deferred Outflows of <u>Resources</u>		Deferred (Inflows) of <u>Resources</u>	
Differences between expected and actual experience	\$	237	\$	(162)
Changes of assumptions		12,440		-
Net difference between projected and actual investment earnings on pension plan investments	2		_	(10,536)
Total	\$	12,677	\$_	(10,698)

The following summarizes changes in deferred outflows/(inflows), excluding employer-specific amounts (in thousands):

Beginning Amortization Balance Current of Amounts Recognized in on Prior Measurement Period Current Period End of Year Measurement Amortization Measurement <u>Year</u> Period Period Deferrals <u>Additions</u> Pension Expense <u>Balance</u> **Deferred Outflows of Resources:** Difference between expected and actual experience 2017 4.8 368 (131) 237 Change in assumptions: 2015 5.0 (1,920)1,920 (1,915) 3,445 2017 4.8 5.360 2019 4.9 (2,305) 8,995 11,300 Total Deferred Outflows of Resources 7,648 11,300 (6,271) 12,677 Deferred (Inflows) of Resources: Difference between expected and actual experience: 2015 5.0 (607)607 2019 4.9 (204)42 (162) Net differences between projected and actual earnings on pension plan investments: 2015 5.0 2,714 (2,714)2016 5.0 166 (83) 83 2017 5.0 (12,003) 4,001 (8,002) 2018 5.0 18,426 (4,606) 13,820 2019 5.0 (20,545) 4,108 (16,437) Total Deferred (Inflows) of Resources 8,696 (20,749) 1,355 (10,698) Total Collective Deferred Outflows (Inflows) of Resources \$ 16,344 \$ 1,979 (9,449) \$ (4,916)

The following schedule reflects the amortization of the balance of deferred outflows/(inflows) of resources (in thousands):

Fiscal <u>Year*</u>		<u>Total</u>
2021	\$	890
2022		398
2023		2,762
2024	_	(2,071)
	\$_	1,979

<sup>\*</sup> Presented by member units' fiscal year to fairly present the fiduciary impact of related deferred outflows/(inflows) in the fiscal year affecting the member unit.

BERKSHIRE COUNTY RETIREMENT SYSTEM

Required Supplementary Information Schedule of Changes in the Net Pension Liability (Amounts expressed in thousands)

(Unaudited)

	2019		2018	2017	2016	2015
Total Pension Liability						
Service cost	\$ 7,732	❖	7,101	\$ 6,795	\$ 6,366	\$ 6,092
Interest on unfunded liability - time value of money	19,607		19,491	18,049	18,094	16,812
Differences between expected and actual experience	(204)			632	,	(3,031)
Changes of assumptions	11,300			9,190	1	009'6
Benefit payments, including refunds of member contributions	(16,321)		(15,599)	(14,580)	(13,459)	(12,280)
Net Change in Total Pension Liability	22,114		10,993	20,086	11,001	17,193
Total Pension Liability - Beginning	280,529	-16	269,536	249,450	238,449	221,256
Total Pension Liability - Ending (a)	\$ 302,643	\$	280,529	\$ 269,536	\$ 249,450	\$ 238,449
Plan Fiduciary Net Position						
Contributions - employer	\$ 10,203	⋄	9,741	\$ 9,297	\$ 8,880	\$ 8,431
Contributions - member	4,690		4,783	4,546	4,061	4,129
Net investment income (loss)	37,056		(5,419)	35,165	14,456	1,249
Benefit payments, including refunds of member contributions	(16,321)		(15,599)	(14,581)	(13,460)	(12,280)
Administrative expense	(432)		(431)	(437)	(403)	(400)
Other	32		27	15		9
Net Change in Plan Fiduciary Net Position	35,228		(868'9)	34,005	13,546	1,135
Plan Fiduciary Net Position - Beginning	236,785	1	243,683	209,678	196,132	194,997
Plan Fiduciary Net Position - Ending {b}	\$ 272,013	δ.	236,785	\$ 243,683	\$ 209,678	\$ 196,132
Net Pension Liability (Asset) - Ending (a-b)	\$ 30,630	ν, I	43,744	\$ 25,853	\$ 39,772	\$ 42,317

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

See Independent Auditors' Report.

BERKSHIRE COUNTY RETIREMENT SYSTEM

Required Supplementary Information Schedules of Net Pension Liability, Contributions, and Investment Returns

(Amounts expressed in thousands)

С	u
4	5
	-
₹	3
	₹
-	_
Γ	Q
0	Ξ
	٦
-	•

Schedule of Net Pension Liability		2019		2018		2017		2016		2015
Total pension liability Plan fiduciary net position	» =4	302,643 (272,013)	\$	280,529 (236,785)	۰,	\$ 269,536 (243,683)	S.	249,450 (209,678)	S.	238,449 (196,132)
Net pension liability (asset)	\$	30,630	ş	43,744	S.	25,853	s,	39,772	Ş	42,317
Plan fiduciary net position as a percentage of the total pension liability	00	88.68	ω.	84.41%		90.41%		84.06%		82.25%
Covered payroll	<>	47,203	<>	43,687	<>→	43,687	\$	42,307	\$	42,307
Participating employer net pension liability (asset) as a percentage of covered payroll	9	64.89%	Н	100.13%		59.18%		94.01%		100.02%
Schedule of Contributions		2019		2018		2017		2016		2015
Actuarially determined contribution Contributions in relation to the actuarially	v.	10,203	₩.	9,741	s	9,297	\$	8,880	\$	8,482
determined contribution	٦	(10,203)		(9,741)	- 1	(9,297)		(8,880)	- 1	(8,482)
Contribution deficiency (excess)	\$	i	Š.		۰,	ī	\$		ۍ اا	
Covered payroll	\$	47,203	\$	43,687	₹\$	43,687	\$	42,307	s	42,307
Contributions as a percentage of covered payroll	2	21.62%		22.30%		21.28%		20.99%		20.05%
Schedule of Investment Returns Year Ended December 31		2019		2018		2017		2016		2015
Annual money weighted rate of return, net of investment expense	7	16.23%	_	(2.31%)		17.28%		7.59%		%99.0

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

See Independent Auditors' Report.



## INDEPENDENT AUDITORS' REPORT

To the Retirement Board Berkshire County Retirement System

#### **Report on Schedules**

We have audited the accompanying schedule of employer allocations of the Berkshire County Retirement System as of and for the year December 31, 2019, and the related notes. We have also audited the columns titled net pension liability, total deferred outflows of resources excluding employer specific amounts, total deferred inflows of resources excluding employer specific amounts, and total pension expense (specified column totals) included in the accompanying schedule of collective pension amounts of the Berkshire County Retirement System as of and for the year ended December 31, 2019.

# Management's Responsibility for the Schedules

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

# **Auditors' Responsibility**

Our responsibility is to express opinions on the schedule of employer allocations and the specified column totals included in the schedule of collective pension amounts based on our audit. We conducted our audit in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the schedule of employer allocations and specified column totals included in the schedule of collective pension amounts are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the schedule of employer allocations and specified totals included in the schedule of collective pension amounts. The procedures selected depend on the auditor's judgment,

Nashua, New Hampshire Manchester, New Hampshire Andover, Massachusetts Greenfield, Massachusetts Ellsworth, Maine

800.282.2440 | melansoncpas.com



including the assessment of the risks of material misstatement of the schedule of employer allocations and specified totals included in the schedule of collective pension amounts, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the schedule of employer allocations and specified column totals included in the schedule of collective pension amounts in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the schedule of employer allocations and specified column totals included in the schedule of collective pension amounts.

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

#### **Opinions**

In our opinion, the schedules referred to above present fairly, in all material respects, the employer allocations and net pension liability, total deferred outflows of resources excluding employer specific amounts, total deferred inflows of resources excluding employer specific amounts, and pension expense for the Berkshire County Retirement System as of and for the year ended December 31, 2019, in accordance with accounting principles generally accepted in the United States of America.

## **Restriction on Use**

Our report is intended solely for the information and use of Berkshire County Retirement System management, the Retirement Board, and System employers and their auditors as of and for the year ended December 31, 2019 and is not intended to be and should not be used by anyone other than these specified parties.

Greenfield, Massachusetts September 9, 2020

800.282.2440 | melansoncpas.com

# Schedule of Employer Allocations

# December 31, 2019

	CY 2019	
	Actual	
	Employer	Allocation
Employer	Contributions	<u>Percentage</u>
Town of Alford	\$ 43,429	0.43%
Town of Becket	219,163	2.17%
Berkshire County Mosquito Control	13,130	0.13%
Berkshire Hills Regional School District	753,437	7.46%
Berkshire County Regional Housing Authority	136,346	1.35%
Central Berkshire Regional School District	613,051	6.07%
Town of Cheshire	116,147	1.15%
Town of Clarksburg	156,545	1.55%
Town of Dalton	452,466	4.48%
Dalton Fire District	69,688	0.69%
Dalton Housing Authority	19,189	0.19%
District Department of Veteran Services	11,110	0.11%
Town of Egremont	171,695	1.70%
Farmington River School District	120,186	1.19%
Town of Florida	113,117	1.12%
Town of Great Barrington	867,564	8.59%
Great Barrington Fire District	56,558	0.56%
Town of Hancock	17,169	0.17%
Town of Hinsdale	143,416	1,42%
Lanesboro Village Fire & Water	23,229	0.23%
Town of Lanesborough	329,250	3.26%
Town of Lee (including Schools)	1,040,269	10.30%
Lee Housing Authority	19,189	0.19%
Town of Lenox (including Schools)	1,011,990	10.02%
Lenox Housing Authority	24,239	0.24%
Town of Monterey	112,107	1.11%
Mount Greylock School District	304,001	3.01%
Mount Washington	32,319	0.32%
Town of New Marlborough	144,426	1.43%
Town of Otis	170,685	1.69% 0.39%
Town of Peru	39,389 206,034	2.04%
Town of Richmond	74,738	0.74%
Town of Sandisfield	44,439	0.44%
Town of Savoy Town of Sheffield	245,423	2.43%
South Berkshire Regional School District	473,676	4.69%
Town of Stockbridge	361,569	3.58%
Stockbridge Housing Authority	26,259	0.26%
Town of Tyringham	74,738	0.74%
Town of Washington	30,299	0.30%
Town of West Stockbridge	125,236	1.24%
Town of Williamstown	1,031,179	10.21%
Williamstown Fire District	18,179	0.18%
Town of Windsor	43,429	0.43%
	1	100.00%
Subtotal excluding ERI	10,099,697	100.00%
Lanesborough	26,869	
Lee	8,792	
New Mariborough	13,589	
Williamstown	37,457	
Williamstown Fire District	13,596	
Total	\$ 10,200,000	

See actuarial assumptions in the Berkshire County Retirement System audited financial statements.

Schedule of Collective Pension Amounts

As of and for the Year Ended December 31, 2019

(Amounts expressed in thousands)

	٥	Deferred Outflows of Resources	Resources		Deferred Inflows of Resources	s of Resources	1
			Total		Net Difference	Total	
			Deferred		Between	Deferred	
			Outflows of		Projected	Inflows of	
	Differences		Resources	Differences	and Actual	Resources	
	Between		Excluding	Between	Investment	Excluding	
	Expected		Employer	Expected	Earnings on	Employer	Plan
Net Pension	and Actual	Changes of	Specific	and Actual	Pension Plan	Specific	Pension
Liability	Experience	Assumptions	Amounts	Experience	Investments	Amounts	Expense
\$ 30,630	\$ 237	\$ 12,440	\$ 12,677	\$ 162	30,630 \$ 237 \$ 12,440 \$ 12,677 \$ 162 \$ 10,536 \$ 10,698 \$ 11,455	\$ 10,698	\$ 11,455

See actuarial assumptions in the Berkshire County Retirement System's audited financial statements.

Financial Statements, Required Supplementary Information, and Other Information

For the Year Ended December 31, 2018

# TABLE OF CONTENTS

	<u>PAGE</u>
INDEPENDENT AUDITORS' REPORT	1
MANAGEMENT'S DISCUSSION AND ANALYSIS	3
BASIC FINANCIAL STATEMENTS:	
Statement of Fiduciary Net Position	6
Statement of Changes in Fiduciary Net Position	7
Notes to Financial Statements	8
REQUIRED SUPPLEMENTARY INFORMATION:	
Schedule of Changes in the Net Pension Liability	19
Schedules of Net Pension Liability, Contributions, and Investment Returns	20
OTHER INFORMATION:	
Independent Auditors' Report	21
Schedule of Employer Allocations	23
Schedule of Collective Pension Amounts	24



101 Munson Street Suite 120 Greenfield, MA 01301 (413)773-5405 phone (413)773-7304 fax melansonheath.com

Additional Offices:

Nashua, NH Manchester, NH Andover, MA Ellsworth, ME

## INDEPENDENT AUDITORS' REPORT

To the Honorable Retirement Board Berkshire County Retirement System

We have audited the accompanying financial statements of the Berkshire County Retirement System (the System), as of and for the year ended December 31, 2018, and the related notes to the financial statements, which collectively comprise the basic financial statements as listed in the table of contents.

# Management's Responsibility for the Financial Statements

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

# **Auditors' Responsibility**

Our responsibility is to express 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. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditors' judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion

on the effectiveness of the entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

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

## Opinion

In our opinion, the financial statements referred to above present fairly, in all material respects, the fiduciary net position of the Berkshire County Retirement System as of December 31, 2018, and the respective changes in fiduciary net position for the year then ended in accordance with accounting principles generally accepted in the United States of America.

## **Report on Summarized Comparative Information**

We have previously audited the System's fiscal year 2017 financial statements, and we expressed an unmodified audit opinion on those audited financial statements in our report dated August 31, 2018. In our opinion, the summarized comparative information presented herein as of and for the year ended December 31, 2017 is consistent, in all material respects, with the audited financial statements from which it has been derived.

#### **Other Matters**

Required Supplementary Information

Accounting principles generally accepted in the United States of America require that the Management's Discussion and Analysis, the Schedule of Changes in the Net Pension Liability, and the Schedules of Net Pension Liability, Contributions, and Investment Returns, listed in the foregoing table of contents, be presented to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board, who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with evidence sufficient to express an opinion or provide any assurance.

August 21, 2019

Melanson Heath

# **MANAGEMENT'S DISCUSSION AND ANALYSIS**

As management of the Berkshire County Retirement System (the System), we offer readers this narrative overview and analysis of the financial activities of the System for the year ended December 31, 2018.

# A. OVERVIEW OF THE FINANCIAL STATEMENTS

This discussion and analysis are intended to serve as an introduction to the basic financial statements. The basic financial statements are comprised of two components: (1) fund financial statements and (2) notes to financial statements. This report also contains other supplementary information in addition to the basic financial statements themselves.

<u>Fund financial statements</u>. A fund is a grouping of related accounts that is used to maintain control over resources that have been segregated for specific activities or objectives. Fund accounting is used to ensure and demonstrate compliance with finance-related legal requirements.

The Statement of Fiduciary Net Position presents information on the System's assets and liabilities and the resulting net position held in trust restricted for pension benefits. This statement reflects the System's investments at fair value, as well as cash, receivables, and liabilities.

The Statement of Changes in Fiduciary Net Position presents information showing how the System's net position restricted for pensions changed during the year ended December 31, 2018. It reflects contributions by members and participating employers, investment activity, along with deductions for retirement benefits, refunds, transfers, and administrative expenses.

Notes to financial statements. The Notes to Financial Statements provide additional information that is essential for the reader to gain a full understanding of the data provided in the financial statements.

The Required Supplementary Information includes this Management's Discussion and Analysis, the Schedule of Changes in the Net Pension Liability, and the Schedules of Net Pension Liability, Contributions, and Investment Returns.

## **B. FINANCIAL HIGHLIGHTS**

- The System's total net position restricted for pensions was \$236,785,167 at December 31, 2018.
- The System's net position decreased by \$(6,897,450), which is primarily due to net investment losses of (\$5.4 million).
- Employer and employee contributions to the plan were \$14,364,569, which
  represents a \$603,878 increase over the prior year. The employer share of
  contributions represents 64% of the total contributions made to the System.

- Benefits paid to plan participants increased by \$902,809 or 6.23%, and totaled \$15,399,551 in 2018. At December 31, 2018, there were 778 retirees and beneficiaries in receipt of pension benefits, as further discussed in footnote 1.
- The System's funded ratio (based on the System's GASB 68 valuation) as of the January 1, 2017 actuarial valuation was 84.4%, with 9 years remaining in its amortization period from July 1, 2019.

# C. FINANCIAL STATEMENT ANALYSIS

The following is a summary of financial statement data for the current and prior fiscal years:

# FIDUCIARY NET POSITION

	2018	2017
Assets Cash and receivables Investments	\$ 7,206 229,687	\$ 6,782 236,944
Total assets	236,893	243,726
Liabilities Accounts payable	108	43
Net Position Restricted for pensions	\$ 236,785	\$_243,683_

The System's total assets as of December 31, 2018 were \$236,893,374 and were mostly comprised of cash and investments. Total assets decreased \$(6,832,538) or 2.80% from the prior year primarily due to a decrease in investment values. Total liabilities increased by \$64,912 over the prior year.

# CHANGES IN FIDUCIARY NET POSITION

	2018		2017
Additions			
Contributions	\$ 15,224	\$	14,621
Investment income / (loss), net	(5,418)	2	35,172
Total additions	9,806		49,793
Deductions			
Benefit payments	15,400		14,497
Other	1,304	-	1,291
Total deductions	16,704		15,788
Changes in net position	(6,898)		34,005
Net Position Restricted for Pensions			
Beginning of year	243,683		209,678
End of year	\$ 236,785	\$_	243,683

The amount needed to finance benefits is accumulated through the collection of employers' and employees' contributions, reimbursements from the Commonwealth of Massachusetts for pre-1998 COLA and through earnings on investments. Contributions and net investment (loss) for calendar year 2018 resulted in total additions of approximately \$9.8 million. Employers' contributions increased by \$453,765, or 4.88% in calendar year 2018. The System had a net investment (loss) of \$(5,417,698) in 2018, versus a gain \$35,172,112 in 2017, primarily due to less favorable market conditions in 2018.

The primary deductions of the System include the payment of pension benefits to participants and beneficiaries, refunds and transfers of member contributions, reimbursement payments in accordance with Massachusetts General Law, Chapter 32, Section 3(8)c, more commonly referred to as 3(8)c reimbursements, and the costs of administering the System. Total deductions for calendar year 2018 were \$16,703,922, which represents an increase of \$915,714, or 5.80%, over deductions of \$15,788,208 in calendar year 2017. The payment of pension benefits increased by \$902,809 or 6.23% over the previous year, due to an increase in new retirees and 3(8)c reimbursements to other systems.

## REQUESTS FOR INFORMATION

This financial report is designed to provide a general overview of the Berkshire County Retirement System's finances. Questions concerning any of the information provided in this report, or requests for additional financial information, should be addressed to:

Ms. Sheila LaBarbera Executive Director Berkshire County Retirement System 29 Dunham Mall Pittsfield, MA 01201-6207

# Statement of Fiduciary Net Position

# December 31, 2018

# Assets

Cash and short-term investments	\$ 6,408,581
Investments:	
External investment pool	229,687,559
Accounts receivable	797,234
Total assets	\$ 236,893,374
Liabilities	
Accounts payable	\$ 108,207
Total liabilities	108,207
Net Position	
Restricted for pensions	236,785,167
Total liabilities and net position	\$ 236,893,374

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

# Statement of Changes in Fiduciary Net Position

# For the Year Ended December 31, 2018

Additions		
Contributions:		
Employers	\$	9,750,965
Plan members	Ψ	4,613,604
Other systems and Commonwealth of Massachusetts		842,497
Other		17,104
Total contributions	3	15,224,170
Investment income (loss):		
Appreciation (depreciation) in fair value of investments		(4,151,806)
Less: management fees	ñ	(1,265,892)
Net investment gain (loss)		(5,417,698)
Total additions		9,806,472
Deductions		
Benefit payments to plan members and beneficiaries		15,399,551
Refunds to plan members		651,640
Transfers to other systems		221,637
Administrative expenses		431,094
Total deductions		16,703,922
Net increase (decrease)		(6,897,450)
Net Position Restricted for Pensions		
Beginning of year	3	243,682,617
End of year	\$	236,785,167

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

#### Notes to Financial Statements

# 1. Description of Plan

Substantially all employees of the 46 member unit employers in Berkshire County (except teachers and administrators under contract employed by the School Departments) are members of the Berkshire County Retirement System (the System), a cost sharing, multiple employer public employee retirement system (PERS). Eligible employees must participate in the System. The pension plan provides pension benefits, deferred allowances, and death and disability benefits. Chapter 32 of the Massachusetts General Laws establishes the authority of the System, contribution percentages, and benefits paid. The Berkshire County Retirement Board does not have the authority to amend benefit provisions.

Membership of the plan consisted of the following at December 31, 2018:

Retirees and beneficiaries receiving benefits	778
Inactive members entitled to a return of employee	
contributions	210
Inactive members with a vested right to a deferred or	
immediate benefit	42
Active plan members	1,142
Total	2,172
Number of participating employers	46

# **Participant Contributions**

Participants contribute a set percentage of their gross regular compensation annually. Employee contribution percentages are specified in Chapter 32 of the Massachusetts General Laws. The employee's individual contribution percentage is determined by their date of entry into the system. In addition, all employees hired on or after January 1, 1979 contribute an additional 2% on all gross regular compensation over the rate of \$30,000 per year. The percentages are as follows:

Before January 1, 1975	5%
January 1, 1975 - December 31, 1983	7%
January 1, 1984 – June 30, 1996	8%
July 1, 1996 – present	9%

For those members entering a Massachusetts System on or after April 2, 2012 in Group 1, the contribution rate will be reduced to 6% when at least 30 years of creditable service has been attained.

# **Employer Contributions**

Employers are required to contribute at actuarially determined rates as accepted by the Public Employee Retirement Administration Commission (PERAC).

#### Participant Retirement Benefits

A retirement allowance consists of two parts: an annuity and a pension. A member's accumulated total deductions and a portion of the interest they generate constitute the annuity. The difference between the total retirement allowance and the annuity is the pension. The average retirement benefit is approximately 80-85% pension and 15-20% annuity.

The System provides for retirement allowance benefits up to a maximum of 80% of a member's highest 3-year average annual rate of regular compensation for those hired prior to April 2, 2012 and the highest 5-year average annual rate of regular compensation for those first becoming members of the Massachusetts System on or after that date. However, per Chapter 176 of the Acts of 2011, for members who retire on or after April 2, 2012, if in the 5 years of creditable service immediately preceding retirement, the difference in the annual rate of regular compensation between any 2 consecutive years exceeds 100%, the normal yearly amount of the retirement allowance shall be based on the average annual rate of regular compensation received by the member during the period of 5 consecutive years preceding retirement. Benefit payments are based upon a member's age, length of creditable service, level of compensation, and group classification.

There are 4 classes of membership in the retirement system, but one of these classes, Group 3, is made up exclusively of the Massachusetts State Police. The other three classes are as follows:

- Group 1 General employees, including clerical, administrative, technical, and all other employees not otherwise classified.
- Group 2 Certain specified hazardous duty positions.
- Group 4 Police officers, firefighters, and other specified hazardous positions.

A retirement allowance may be received at any age, upon attaining 20 years of service. The plan also provides for retirement at age 55 if the participant was a member prior to January 1, 1978, with no minimum vesting requirements. If the participant was a member on or after January 1, 1978 and a member of Groups 1 or 2, then a retirement allowance may be received if the participant (1) has at least 10 years of creditable service, (2) is age 55, (3) voluntarily left System employment on or after that date, and (4) left accumulated annuity deductions in the fund. Members of Group 4 have no minimum vesting requirements, however, must be at least age 55. Groups 2 and 4 require that participants perform the duties of the Group position for at least 12 months immediately prior to retirement.

A participant who became a member on or after April 2, 2012 is eligible for a retirement allowance upon 10 years creditable service and reaching ages 60 or 55 for Groups 1 and 2, respectively. Participants in Group 4 must be at least age 55. Groups 2 and 4 require that participants perform the duties of the Group position for at least 12 months immediately prior to retirement.

### Methods of Payment

A member may elect to receive his or her retirement allowance in one of three forms of payment as follows:

- Option A Total annual allowance, payable in monthly installments, commencing at retirement and terminating at the members death.
- Option B A reduced annual allowance, payable in monthly installments, commencing at retirement and terminating at the death of the member, provided however, that if the total amount of the annuity portion received by the member is less than the amount of his or her accumulated deductions, including interest, the difference or balance of his accumulated deductions will be paid in a lump sum to the retiree's beneficiary or beneficiaries of choice.
- Option C A reduced annual allowance, payable in monthly installments, commencing at retirement. At the death of the retired employee, 2/3 of the allowance is payable to the member's designated beneficiary (who may be the spouse, or former spouse who has not remarried, child, parent, sister, or brother of the employee) for the life of the beneficiary. For members who retired on or after January 12, 1988, if the beneficiary pre-deceases the retiree, the benefit payable increases (or "pops up" to Option A) based on the factor used to determine the Option C benefit at retirement. For members who retired prior to January 12, 1988, if the System has accepted Section 288 of Chapter 194 of the Acts of 1998 and the beneficiary pre-deceases the retiree, the benefit payable "pops up" to Option A in the same fashion. The Option C became available to accidental disability retirees on November 7, 1996.

### Participant Refunds

Employees who resign from service and who are not eligible to receive a retirement allowance are entitled to request a refund of their accumulated total deductions. Members voluntarily withdrawing with at least 10 years of service or involuntarily withdrawing, receive 100% of the regular interest that has accrued on those accumulated total deductions. Members voluntarily withdrawing with less than 10 years of service get credited interest each year at a rate of 3%.

### 2. Nature of Operations and Summary of Significant Accounting Policies

### Nature of Operations

The System is organized under Chapter 34B of the Massachusetts General Laws (MGL) and is subject to the provisions of Chapter 32 of the Massachusetts General Laws. The System is governed by a five-member board. The Board members are appointed or elected as specified by MGL Chapter 34B section 19(b) for terms ranging from 3 to 6 years. The System is also guided by an Advisory Council comprised of the official "Treasurers" of each member unit.

### Summary of Significant Accounting Policies

The accounting policies of the System as reflected in the accompanying financial statements for the year ended December 31, 2018 conform to generally accepted accounting principles for public employee retirement systems (PERS). The more significant accounting policies of the System are summarized below:

### Basis of Accounting

The System follows accounting policies mandated by the Commonwealth of Massachusetts. The accounting records are maintained on the accrual basis of accounting. Contributions from the members' employees are recognized as revenue in the period in which employees provide services to the respective member unit.

### Investments

### Investment Policy

Investments are reported at fair value in accordance with PERAC requirements. System assets are managed on a total return basis with a long-term objective of achieving and maintaining a fully funded status for the benefits provided through the pension plan.

### Rate of Return

For the year ended December 31, 2018, the annual money-weighted rate of return on pension plan investments, net of pension plan investment expenses, was (2.31)%. The money-weighted rate of return expresses investment performance, net of investment expense, adjusted for the changing amounts actually invested throughout the year.

### Comparative Financial Information

The financial statements include certain prior year summarized comparative information. Such information does not include sufficient detail to constitute a presentation in conformity with generally accepted accounting principles.

Accordingly, such information should be read in conjunction with the System's financial statements for the year ended December 31, 2017.

### 3. Cash and Short-Term Investments

Custodial Credit Risk - Deposits. Custodial credit risk is the risk that in the event of a bank failure, the System's deposits may not be returned. Massachusetts General Law Chapter 32, Section 23, limits the System's deposits "in a bank or trust company to an amount not exceeding ten percent of the capital and surplus of such bank or trust company." The System does not have a deposit policy for custodial credit risk.

As of December 31, 2018, none of the System's bank balance of \$6,321,743 was exposed to custodial credit risk as uninsured or uncollateralized, and collateral held by pledging bank's trust department not in the System's name.

### 4. Investments

### A. Credit Risk

Generally, credit risk is the risk that an issuer of an investment will not fulfill its obligation to the holder of the investment. Massachusetts General Law, Chapter 32, Section 23, limits the investment of System funds, to the extent not required for current disbursements, in the PRIT Fund or in securities, other than mortgages or collateral loans, which are legal for the investment of funds in savings banks under the laws of the Commonwealth, provided that no more than the established percentage of assets, is invested in any one security.

Due to their nature, none of the System's investments are subject to credit risk disclosure. Fair value of the PRIT fund is the same as the value of the pool share. The Pension Reserves Investment Trust (PRIT) was created under Massachusetts General Law, Chapter 32, Section 22, in December 1983. The PRIT is operated under contract with a private investment advisor, approved by the Pension Reserves Investment Management Board.

### B. Custodial Credit Risk

The custodial credit risk for investments is the risk that, in the event of the failure of the counterparty (e.g., broker-dealer) to a transaction, a government will not be able to recover the value of its investment or collateral securities that are in the possession of another party. The System does not have policies for custodial credit risk.

All of the System's investments are comprised of shares in the Pension Reserve Investment Trust (PRIT) Fund, which is exempt from custodial credit risk disclosure.

### C. Concentration of Credit Risk

Massachusetts General Law Chapter 32, Section 23 limits the amount the System may invest in any one issuer or security type, with the exception of the PRIT Fund.

As of December 31, 2018, the System did not have any investments subject to concentration of credit risk disclosure as all investments are in the PRIT fund.

### D. Interest Rate Risk

Interest rate risk is the risk that changes in market interest rates will adversely affect the fair value of an investment. Generally, the longer the maturity of an investment, the greater the sensitivity of its fair value to changes in market interest rates. The System does not have a formal investment policy that limits investment maturities as a means of managing its exposure to fair value losses arising from increasing interest rates; however, the System's investments consist of pooled funds which are not subject to interest rate risk.

### E. Foreign Currency Risk

Foreign currency risk is the risk that changes in foreign exchange rates will adversely affect the fair value of an investment. The System does not have a formal investment policy related to foreign currency risk.

### F. Fair Value

The System categorizes its fair value measurements within the fair value hierarchy established by Governmental Accounting Standards Board Statement No. 72 Fair Value Measurement and Application (GASB 72).

The hierarchy is based on the valuation inputs used to measure the fair value of the asset. The hierarchy categorizes the inputs to valuation techniques used for fair value measurement into three levels as follows:

- Level 1 Inputs that reflect quoted prices (unadjusted) in active markets for identical assets or liabilities that the fund has the ability to access at the measurement date.
- Level 2 Inputs other than quoted prices that are observable for an asset or liability either directly or indirectly, including inputs in markets that are not considered to be active. Because they must often be priced on the basis of transactions involving similar but not identical securities or do not trade with sufficient frequency, certain directly held securities are categorized as level 2.
- Level 3 Unobservable inputs based on the best information available, using assumptions in determining the fair value of investments and derivative instruments.

The net asset value (NAV) per share is the amount of net assets attributable to each share of capital stock outstanding at the close of the period. Investments measured at the NAV for fair value are not subject to level classification.

The System has the following fair value measurements as of December 31, 2018:

Investments measured at the net asset value (NAV) (in thousands):

External investment pools	\$ 229,688			
			Redemption	
			Frequency	Redemption
		Unfunded	(If currently	Notice
Description	<u>Value</u>	Commitments	eligible)	<u>Period</u>
PRIT Fund*	\$ 229.688	\$ -	Monthly	30 Days

<sup>\*</sup> Fair value is the same as the value of the pool share. The Pension Reserves Investment Trust (PRIT) was created under Massachusetts General Law, Chapter 32, Section 22, in December 1983. The Pension Reserves Investment Trust is operated under contract with a private investment advisor, approved by the Pension Reserves Investment Management Board. The Pension Reserves Investment Management Board shall choose an investment advisor by requesting proposals from advisors and reviewing such proposals based on criteria adopted under Massachusetts General Law, Chapter 30B.

### 5. Accounts Receivable

Annually the Public Employee Retirement Administration (PERAC) determines the amount of employer contributions (pension appropriations) to be made to the System. The accounts receivable balance primarily represents legal amounts due from employers for pension appropriation not received until after December 31, 2018.

### 6. Accounts Payable

This balance represents calendar year 2018 expenditures paid by the System after year end. The expenditures consist of salaries, 3(8)c reimbursements, and refunds.

### 7. Contingencies

There are various pending claims arising in the ordinary course of operations; however, management believes that the probable liability resulting from such claims and litigation would not materially affect the System's financial position.

### 8. Net Pension Liability of Participating Employers

The net pension liability was based on an actuarial valuation dated January 1, 2017 and rolled forward to December 31, 2018.

### A. Net Pension Liability of Employers

The components of the net pension liability of the participating employers at December 31, 2018 were as follows (in thousands):

Total pension liability	\$	280,529
Less Plan fiduciary net position		(236,785)
Employers' net pension liability	\$_	43,744
Plan fiduciary net position as a percentage of total pension liability		84.4%

### B. Actuarial Assumptions

A summary of the actuarial assumptions as of the latest actuarial valuation is shown below:

Valuation date	1/1/2017
Actuarial cost method	Entry Age Normal Cost Method
Remaining amortization period	9
Actuarial assumptions:	
Investment rate of return	7.25%
Projected salary increases:	
Group 1 and 2	4.25%
Fire	4.75%
Police	4.75%
Inflation rate	Not explicitly stated
Post-retirement cost-of-living adjustment	3% of first \$14,000

Actuarial valuations of the ongoing System involves estimates of the reported amounts and assumptions about probability of occurrence of events far into the future. Examples include assumptions about future employment mortality and future salary increases. Amounts determined regarding the net pension liability are subject to continual revision, as actual results are compared with past expectations and new estimates are made about the future.

Mortality rates were based on the following:

Pre-retirement and beneficiary mortality: Based on RP-2000 Employees table projected generationally with Scale BB and a base year of 2009 (gender distinct).

Mortality for retired members: Based on RP-2000 Health Annuitant table projected generationally with Scale BB and a base year of 2009 (gender distinct).

Mortality for disabled members: Based on RP-2000 Healthy Annuitant table projected generationally with Scale BB and a base year of 2012 (gender distinct).

### C. Target Allocations

The long-term expected rate of return on pension plan investments was determined using a building-block method in which best-estimates ranges of expected future real rates of return (expected returns, net of pension plan investment expense and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation. Best estimates of arithmetic real rates of return for each major asset class included in the System's targeted asset allocation as of December 31, 2018, are summarized in the following table.

		Real	Long-Term
	Target	Return	Expected
	Asset	Arithmetic	Real Rate
Asset Class	Allocation	<u>Basis</u>	of Return
U.S. equity	17.50%	7.62%	1.33%
International equities	15.50%	7.80%	1.21%
Emerging equities	6.00%	9.31%	0.56%
Core bonds	5.00%	4.37%	0.22%
20+ yr. Treasury STRIPS	2.00%	3.50%	0.07%
TIPS	5.00%	4.00%	0.20%
Value-added fixed income	10.00%	7.58%	0.76%
Private equity	12.00%	11.15%	1.34%
Real estate	10.00%	6.59%	0.66%
Timberland	4.00%	7.00%	0.28%
Portfolio completion (PBC)	13.00%	6.83%	0.89%
Total	100.00%		

### D. Discount Rate

The discount rate used to measure the total pension liability was 7.25%. The projection of cash flows used to determine the discount rate assumed that contributions from participating employers will be made based on the actuarially determined rates based on the Board's funding policy, which establishes the contractually required rates by Statute. Based on those assumptions, the System's fiduciary net position was projected to be available to make all the projected future benefit payments of 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 total pension liability.

### E. Sensitivity of Discount Rate

The following presents the net pension liability of the participating employers calculated using the discount rate of 7.25%, as well as what the participating employers' net pension liability would be if it were calculated using a discount rate that is one percentage-point lower or one percentage-point higher than the current rate (in thousands):

	Current	
1%	Discount	1%
Decrease	Rate	Increase
(6.25%)	<u>(7.25%)</u>	(8.25%)
\$76,578	\$43,744	\$14,786

### F. Deferred Outflows/(Inflows) of Resources

The following schedule reflects the deferred outflows/(inflows) of resources for the System for the year ended December 31, 2018 (excluding employer-specific amounts, which must be calculated separately by each member employer) (in thousands):

	_	Deferred Outflows of Resources	(In	Deferred iflows) of esources
Differences between expected and actual experience	\$	368	\$	(607)
Changes of assumptions		7,280		-
Net difference between projected and actual investment earnings on pension plan investments		9,303	_	
Total	\$	16,951	\$_	(607)

The following summarizes changes in deferred outflows/(inflows), excluding employer-specific amounts (in thousands):

	Measurement <u>Year</u>	Amortization <u>Period</u>	Beginning Balance on Prior Measurement Period Deferrals	Current Measurement Period Additions	Amortization of Amounts Recognized in Current Period Pension Expense	End of Year <u>Balance</u>
Deferred Outflows of Resources:						
Difference between expected						
and actual experience:	2017	4.8	\$ 500	\$ -	\$ (132)	\$ 368
Change in assumptions:	2015	5.0	3,840	-	(1,920)	1,920
	2017	4.8	7,275	-	(1,915)	5,360
Net differences between projected and actual earnings on pension plan						
investments:	2014	5.0	93	-	(93)	-
	2015	5.0	5,427	-	(2,713)	2,714
	2016	5.0	249	-	(83)	166
	2017	5.0	(16,004)	-	4,001	(12,003)
	2018	5.0		23,032	(4,606)	18,426
Total Deferred Outflows of Resources			1,380	23,032	(7,461)	16,951
Deferred (Inflows) of Resources:						
Difference between expected						
and actual experience:	2015	5.0	(1,213)	<u> </u>	606	(607)
Total Deferred (Inflows) of Resources			(1,213)		606	(607)
Total Collective Deferred Outflows (Inflows) of Resources			\$167_	\$ 23,032	\$ <u>(6,855)</u>	\$ 16,344

The following schedule reflects the amortization of the balance of deferred outflows/(inflows) of resources:  $\frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{2} \left( \frac{1}{2} \int_{-\infty}^$ 

Fiscal <u>Year*</u>		<u>Total</u>
2018	\$	6,762
2019		2,735
2020		2,242
2021	2	4,605
	\$	16,344

<sup>\*</sup> Presented by member units' fiscal year to fairly present the fiduciary impact of related deferred outflows/(inflows) in the fiscal year affecting the member unit.

BERKSHIRE COUNTY RETIREMENT SYSTEM Schedule of Changes in the Net Pension Liability Required Supplementary Information

For the Year Ended December 31, 2018

(Unaudited)

(Amounts expressed in thousands)

al Pension Liability Service cost Interest on unfunded liability - time value of money Differences between expected and actual experience
Changes of assumptions Benefit payments, including refunds of member contributions
\$ 280,529
↔
Benefit payments, including refunds of member contributions Administrative expense Other
⇔ ¯
⇔ <sup>®</sup>

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

BERKSHIRE COUNTY RETIREMENT SYSTEM

Schedules of Net Pension Liability, Contributions, and Investment Returns

Required Supplementary Information

For the Year Ended December 31, 2018

(Amounts expressed in thousands)

(Unaudited)

Schedule of Net Pension Liability		2018		2017		2016		2015	
Total pension liability Plan fiduciary net position	₩.	280,529 (236,785)	€9	269,536 (243,683)	69	249,450 (209,678)	<b>↔</b> '	238,449 (196,132)	
Net pension liability (asset)	' ↔ "	43,744	-∽∥	25,853	ω"	39,772	↔ "	42,317	
Plan fiduciary net position as a percentage of the total pension liability		84.41%		90.41%		84.06%		82.25%	
Covered payroll	↔	43,687	↔	43,687	↔	42,307	↔	42,307	
Participating employer net pension liability (asset) as a percentage of covered payroll		100.13%		59.18%		94.01%		100.02%	
Schedule of Contributions		2018		2017		2016		2015	
Actuarially determined contribution	↔	9,741	€9	9,297	↔	8,880	€9-	8,482	
Contributions in relation to the actuanally determined contribution	- 1	9,741	ı	9,297	1	8,880	3	8,482	
Contribution deficiency (excess)	မှာ		ωl		₩.		⇔"	1	
Covered payroll	€9-	43,687	₩	43,687	↔	42,307	↔	42,307	
Contributions as a percentage of covered payroll		22.30%		21.28%		20.99%		20.05%	
Schedule of Investment Returns									
Year Ended December 31		2018		2017		2016		2015	
Annual money weighted rate of return, net of investment expense		(2.31%)		17.28%		7.59%		0.66%	

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



101 Munson Street Suite 120 Greenfield, MA 01301 (413)773-5405 phone (413)773-7304 fax melansonheath.com

#### Additional Offices:

Nashua, NH Manchester, NH Andover, MA Ellsworth, ME

### INDEPENDENT AUDITORS' REPORT

To the Honorable Retirement Board Berkshire County Retirement System

### Report on Schedules

We have audited the accompanying schedule of employer allocations of the Berkshire County Retirement System as of and for the year December 31, 2018, and the related notes. We have also audited the columns titled net pension liability, total deferred outflows of resources excluding employer specific amounts, total deferred inflows of resources excluding employer specific amounts, and total pension expense (specified column totals) included in the accompanying schedule of collective pension amounts of the Berkshire County Retirement System as of and for the year ended December 31, 2018.

### Management's Responsibility for the Schedules

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

### **Auditors' Responsibility**

Our responsibility is to express opinions on the schedule of employer allocations and the specified column totals included in the schedule of collective pension amounts based on our audit. We conducted our audit in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the schedule of employer allocations and specified column totals included in the schedule of collective pension amounts are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the schedule of employer allocations and specified totals included in the schedule of collective pension amounts. The procedures selected depend on the

auditor's judgment, including the assessment of the risks of material misstatement of the schedule of employer allocations and specified totals included in the schedule of collective pension amounts, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the schedule of employer allocations and specified column totals included in the schedule of collective pension amounts in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the schedule of employer allocations and specified column totals included in the schedule of collective pension amounts.

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

### **Opinions**

In our opinion, the schedules referred to above present fairly, in all material respects, the employer allocations and net pension liability, total deferred outflows of resources excluding employer specific amounts, total deferred inflows of resources excluding employer specific amounts, and pension expense for the Berkshire County Retirement System as of and for the year ended December 31, 2018, in accordance with accounting principles generally accepted in the United States of America.

### **Restriction on Use**

Our report is intended solely for the information and use of Berkshire County Retirement System management, the Retirement Board, and System employers and their auditors as of and for the year ended December 31, 2018 and is not intended to be and should not be used by anyone other than these specified parties.

August 21, 2019

Melanson Heath

### BERKSHIRE COUNTY RETIREMENT SYSTEM

### Schedule of Employer Allocations

### December 31, 2018

Employer	CY 2018 Actual Employer Contributions	Allocation Percentage
Town of Alford	\$ 40,487	0.42%
Town of Becket	218,821	2.27%
Berk Cnty Mosg. Cont.	12,532	0.13%
Berk Hills Reg Sch. Dis.	709,482	7.36%
Berk Cnty Reg Hous Auth	121,460	1.26%
Cen Berk Reg School Dis	609,229	6.32%
Town of Cheshire	103,145	1.07%
Town of Clarksburg	149,415	1.55%
Town of Dalton	447,282	4.64%
Dalton Fire District	75,190	0.78%
Dalton Housing Auth	19,279	0.20%
Dist Dept of Veteran Serv	10,604	0,11%
Town of Egremont	163,875	1.70%
Farmington Riv Sch Dis	132,064	1.37%
Town of Florida	109,892	1.14%
Town of Great Barrington	787,563	8.17%
Great Barrington Fire Dist.	53,982	0.56%
Town of Hancock	18,315	0.19%
Town of Hinsdale	129,172	1.34%
Lanesboro Vil. Fire &Wat.	23,135	0.24%
Town of Lanesborough	321,966	3.34%
Town of Lee (incl. Schools)	968,789	10.05%
Lee Housing Authority	19,279	0.20%
Town of Lenox (incl. Schoo.ls)	961,078	9.97%
Lenox Housing Authority	24,099	0.25%
Town of Monterey	124,352	1.29%
Mnt. Greylock School Dist.	282,443	2.93%
Mount Washington	30,847	0.32%
Town of New Marlborough	131,100	1.36%
Town of Otis	158,091	1.64%
Town of Peru	44,343	0.46%
Town of Richmond	172,551	1.79%
Town of Sandisfield	75,190	0.78%
Town of Savoy	44,343	0.46%
Town of Sheffield	228,461	2.37%
So Berk Reg Sch Dist	463,669	4.81%
Town of Stockbridge	346,065	3.59%
Stockbridge Housing Auth	26,027	0.27%
Town of Tyringham	69,406	0.72%
Town of Washington	27,955	0.29%
Town of West Stockbridge	105,073	1.09%
Town of Williamstown	1,020,844	10.59%
Williamstown Fire Dist	17,351	0.18%
Town of Windsor	41,451	0.43%
Subtotal excluding ERI	9,639,697	100.00%
Lanesborough	26,869	
Lee	8,792	
New Marlborough	13,589	
Williamstown	37,457	
Williamstown fire district	13,596_	
Total	\$ 9,740,000	

See actuarial assumptions in the Berkshire County Retirement System audited financial statements.

BERKSHIRE COUNTY RETIREMENT SYSTEM Schedule of Collective Pension Amounts

As of and for the Year Ended December 31, 2018

(Amounts expressed in thousands)

						Plan	Pension	Expense	11,455
rces	Total	Deferred	Inflows of	Resources	Excluding	Employer	Specific	Amounts	8 209
Deferred Inflows of Resources							Changes of	Assumptions	
Deferre				Differences	Between	Expected	and Actual	Experience	\$ 209
	Total	Deferred	Outflows of	Resources	Excluding	Employer	Specific	Amounts	16,951 \$
of Resources							Changes of	Assumptions	7,280 \$
Deferred Outflows of Resources	Net Difference	Between	Projected	and Actual	Investment	Earnings on	Pension Plan	Investments	9,303 \$
	_								€>
				Differences	Between	Expected	and Actual	Experience	368
	5								↔
							Net Pension	Liability	43,744
							_		44

See actuarial assumptions in the Berkshire County Retirement System's audited financial statements.

24

### BERKSHIRE COUNTY RETIREMENT SYSTEM

Financial Statements, Required Supplementary Information, and Other Information

For the Year Ended December 31, 2017 (With Independent Auditors' Report Thereon)

### TABLE OF CONTENTS

	<u>PAGE</u>
INDEPENDENT AUDITORS' REPORT	1
MANAGEMENT DISCUSSION AND ANALYSIS	3
BASIC FINANCIAL STATEMENTS:	
Statement of Fiduciary Net Position	6
Statement of Changes in Fiduciary Net Position	7
Notes to Financial Statements	8
REQUIRED SUPPLEMENTAL INFORMATION	
Schedule of Changes in the Net Pension Liability	18
Schedules of Net Pension Liability, Contributions, and Investment Returns	19
OTHER INFORMATION	
Independent Auditors' Report	20
Schedule of Employer Allocations	22
Schedule of Collective Pension Amounts	23



101 Munson Street Suite 120 Greenfield, MA 01301 (413)773-5405 phone (413)773-7304 fax melansonheath.com

Additional Offices:

Nashua, NH Manchester, NH Andover, MA Ellsworth, ME

### INDEPENDENT AUDITORS' REPORT

To the Retirement System Board Berkshire County Retirement System

We have audited the accompanying financial statements of the Berkshire County Retirement System as of and for the year ended December 31, 2017, and the related notes to the financial statements, which collectively comprise the basic financial statements as listed in the table of contents.

### Management's Responsibility for the Financial Statements

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

### **Auditors' Responsibility**

Our responsibility is to express opinions on these financial statements based on our audit. We conducted our audit in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditors' judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk

assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

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

### Opinion

In our opinion, the financial statements referred to above present fairly, in all material respects, the fiduciary net position of the Berkshire County Retirement System as of December 31, 2017, and the respective changes in fiduciary net position for the year then ended in accordance with accounting principles generally accepted in the United States of America.

### Other Matters

Required Supplementary Information

Accounting principles generally accepted in the United State of America require that the Management's Discussion and Analysis and the Pension Schedules appearing on pages 18 to 19 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 evidence sufficient to express an opinion or provide any assurance.

August 31, 2018

Melanson Heath

### MANAGEMENT'S DISCUSSION AND ANALYSIS

As management of the Berkshire County Retirement System (the System), we offer readers this narrative overview and analysis of the financial activities of the System for the year ended December 31, 2017.

### A. OVERVIEW OF THE FINANCIAL STATEMENTS

This discussion and analysis is intended to serve as an introduction to the basic financial statements. The basic financial statements comprised of two components: (1) fund financial statements and (2) notes to financial statements. This report also contains other supplementary information in addition to the basic financial statements themselves.

<u>Fund financial statements</u>. A fund is a grouping of related accounts that is used to maintain control over resources that have been segregated for specific activities or objectives. Fund accounting is used to ensure and demonstrate compliance with finance-related legal requirements.

The Statement of Fiduciary Net Position presents information on the System's assets and liabilities and the resulting net position held in trust for pension benefits. This statement reflects the System's investments at fair value, as well as cash, receivables and other assets and liabilities.

The Statement of Changes in Fiduciary Net Position presents information showing how the System's net position available for benefits changed during the year ended December 31, 2017. It reflects contributions by members and participating employers along with deductions for retirement benefits, refunds and transfers, and administrative expenses. Investment income during the period is also presented showing income from investing.

The Notes to Financial Statements provide additional information that is essential for the reader to gain a full understanding of the data provided in the financial statements.

The Required Supplemental Information includes this management's discussion and analysis and Schedules of Changes in the Net Pension Liability, of Net Pension Liability, of Contributions, and of Investment Returns.

### **B. FINANCIAL HIGHLIGHTS**

• The System's total net position available for benefits was \$243,682,617 at December 31, 2017, which is a change of \$34,004,601, in comparison to the prior year.

- Employer and employee contributions to the plan were \$13,760,961 which represents a \$578,090 increase over the preceding year. The employer share of contributions represents 63.59% of total contributions.
- Benefits paid to plan participants were \$14,496,742. At December 31, 2017, there were 778 retirees and beneficiaries in receipt of pension benefits.
- The System's funded ratio as of the January 1, 2017 actuarial report (rolled forward to December 31, 2017) was 90.4%.

### C. FINANCIAL STATEMENT ANALYSIS

The following is a summary of financial statement data for the current and prior fiscal years (amounts in thousands).

### FIDUCIARY NET POSITION

Assets	2017	<u>2016</u>
Cash and receivables Investments	\$ 6,782 236,944	\$ 5,450 204,296
Total assets	243,726	209,746
Liabilities and Net Position		
Accounts payable	43	68
Net Position	\$ 243,683	\$_209,678_
CHANGES IN FIDUCIARY	NET POSITION	
Additions	<u>2017</u>	2016
Contributions	\$ 14,621	\$ 13,914
Investment income, net	35,172	14,457
Total Additions	49,793	28,371
Deductions		
Benefit payments	14,497	13,428
Other	1,291	1,397_
Total Deductions	15,788_	14,825_
Changes in net position	34,005	13,546
Net position - beginning of year	209,678	_196,132_
Net position - end of year	\$ 243,683	\$_209,678_

The System's total assets as of December 31, 2017 were \$243,725,912 and were mostly comprised of cash and investments. Total assets increased \$33,979,600 or 16.2% from the prior year. Total liabilities as of December 31, 2017 were \$43,295 and were comprised of accounts payable. Total liabilities decreased by \$25,001 over the prior year.

The System was 90.4% funded based on its actuarial valuation of January 1, 2017 rolled forward to December 31, 2017 with 10 years (from July 1, 2018) remaining in its amortization period.

The amount needed to finance benefits is accumulated through the collection of employers' and employees' contributions, reimbursements from the Commonwealth of Massachusetts for pre-1998 COLA and through earnings on investments. Contributions and net investment gain for calendar year 2017 resulted in total additions of \$49,792,809. Employers' contributions increased by \$416,964 in comparison to the prior year. The System had a net investment gain of \$35,172,112 versus a gain of \$14,456,949 in 2016.

The primary deductions of the System include the payment of pension benefits to participants and beneficiaries, refunds of contributions, and the costs of administering the System. Total deductions for 2017 were \$15,788,208, which represents an increase of 6.49% over deductions of \$14,825,406 in 2016. The payment of pension benefits increased by \$1,068,427 or 7.96% over the previous year.

### **REQUESTS FOR INFORMATION**

This financial report is designed to provide a general overview of the Berkshire County Retirement System's finances. Questions concerning any of the information provided in this report, or requests for additional financial information, should be addressed to:

Ms. Sheila LaBarbera Executive Director Berkshire County Retirement System 29 Dunham Mall Pittsfield, MA 01201-6207

### BERKSHIRE COUNTY RETIREMENT SYSTEM STATEMENT OF FIDUCIARY NET POSITION

December 31, 2017

### **ASSETS**

Cash and short-term investments	\$ 5,228,524
Investments - PRIT	236,944,319
Accounts receivable	1,553,069
Total Assets	243,725,912
LIABILITIES AND NET POSITION	
Accounts payable	43,295
Total Liabilities	43,295
Net position, designated for:	
Annuity Savings Fund	40,530,107
Annuity Reserve Fund	12,359,545
Military Service Fund	14,742
Pension Fund	35,317,352
Pension Reserve Fund	_155,460,871_
Total Net Position	\$_243,682,617

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

## BERKSHIRE COUNTY RETIREMENT SYSTEM STATEMENT OF CHANGES IN FIDUCIARY NET POSITION

### For the Year Ended December 31, 2017

Additions: Contributions:		
Employers	\$	9,297,200
Plan members		4,463,761
Other systems and Commonwealth of Massachusetts		852,552
Other		7,184
Total contributions	•	14,620,697
Investment income:		
Appreciation in fair value of investments		36,341,800
Less: management fees		(1,169,688)
Net investment loss		35,172,112
Total additions		49,792,809
Deductions:		
Benefit payments to plan members and beneficiaries		14,496,742
Refunds to plan members		520,119
Transfers to other systems		334,234
Administrative expenses	75 <u></u>	437,113
Total deductions	_	15,788,208
Net increase		34,004,601
Net position restricted for pensions:		
Beginning of year	-	209,678,016
End of year	\$_	243,682,617

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

### BERKSHIRE COUNTY RETIREMENT SYSTEM

### **Notes to Financial Statements**

### 1. Description of Plan

The System is a defined benefit multiple employer cost sharing pension plan covering the employees of 46-member units, except school department employees who serve in a teaching capacity. The pensions of such employees are administered by the Massachusetts Teachers' Retirement Board.

The System is a member of the Massachusetts Contributory Retirement System and is governed by Chapter 32 of the Massachusetts General Laws. Chapter 32 also establishes contribution percentages and benefits paid. The System does not have the authority to amend benefit provisions. As required by Massachusetts General Laws, the System issues a separate report annually to PERAC.

Eligible employees must participate in the System. The pension plan provides pension benefits, deferred allowances, and death and disability benefits.

Membership of each plan consisted of the following at December 31, 2017:

Retirees and beneficiaries receiving benefits	778
Terminated plan members entitled to but not yet	
receiving benefits	252
Active plan members	1,142
Total	2,172
Number of participating employers	46

### Participants Contributions

Participants contribute a set percentage of their gross regular compensation annually. Employee contribution percentages are specified in Chapter 32 of the Massachusetts General Laws. The employee's individual contribution percentage is determined by their date of entry into the system. In addition, all employees hired on or after January 1, 1979 contribute an additional 2% on all gross regular compensation over the rate of \$30,000 per year. The percentages are as follows:

Before January 1, 1975	5%
January 1, 1975 - December 31, 1983	7%
January 1, 1984 - June 30, 1996	8%
Beginning July 1, 1996	9%

For those members entering a Massachusetts System on or after April 2, 2012 in Group 1, the contribution rate will be reduced to 6% when at least 30 years of creditable service has been attained.

### **Employer Contributions**

Employers are required to contribute at actuarially determined rates as accepted by the Public Employee Retirement Administration Commission (PERAC).

### Participant Retirement Benefits

The System provides for retirement allowance benefits up to a maximum of 80% of a member's highest three-year average annual rate of regular compensation for those hired prior to April 2, 2012 and the highest five-year average annual rate of regular compensation for those first becoming members of the Massachusetts System on or after that date. However, per Chapter 176 of the Acts of 2011, for members who retire on or after April 2, 2012, if in the 5 years of creditable service immediately preceding retirement, the difference in the annual rate of regular compensation between any 2 consecutive years exceeds 10 percent, the normal yearly amount of the retirement allowance shall be based on the average annual rate of regular compensation received by the member during the period of 5 consecutive years preceding retirement. Benefit payments are based upon a member's age, length of creditable service, level of compensation and group classification.

If a participant was a member prior to April 1, 2012, a retirement allowance may be received at any age, upon attaining 20 years of service. The plan also provides for retirement at age 55 if the participant was a member prior to January 1, 1978, with no minimum vesting requirements. If the participant was a member on or after January 1, 1978 and a member of Groups 1 or 2, then a retirement allowance may be received if the participant (1) has at least 10 years of creditable service, (2) is age 55, (3) voluntarily left Town/City employment on or after that date, and (4) left accumulated annuity deductions in the fund. Members of Group 4, have no minimum vesting requirements, however, must be at least age 55. Groups 2 and 4 require that participants perform the duties of the Group position for at least 12 months immediately prior to retirement.

A participant who became a member on or after April 2, 2012 is eligible for a retirement allowance upon 10 years creditable service and reaching ages 60 or 55 for Groups 1 and 2, respectively. Participants in Group 4 must be at least age 55. Groups 2 and 4 require that participants perform the duties of the Group position for at least 12 months immediately prior to retirement.

A retirement allowance consists of two parts: an annuity and a pension. A member's accumulated total deductions and a portion of the interest they

generate constitute the annuity. The difference between the total retirement allowance and the annuity is the pension. The average retirement benefit is approximately 80-85% pension and 15-20% annuity.

### Participant Refunds

Employees who resign from service and who are not eligible to receive a retirement allowance are entitled to request a refund of their accumulated total deductions. Members voluntarily withdrawing with at least 10 years of service or involuntarily withdrawing, receive 100% of the regular interest that has accrued on those accumulated total deductions. Members voluntarily withdrawing with less than 10 years of service get credited interest each year at a rate of 3%.

### 2. Nature of Operations and Summary of Significant Accounting Policies

### Nature of Operations

The System is organized under Chapter 34B of the Massachusetts General Laws (MGL) and is subject to the provisions of Chapter 32 of the Massachusetts General Laws. The System is governed by a five-member Board. The Board members are appointed or elected as a specified by MGL Chapter 34B section 19(b) for terms ranging from 3 to 6 years. The System is also guided by an Advisory Council comprised of the official "Treasurers" of each member unit.

### Summary of Significant Accounting Policies

The accounting policies of the System as reflected in the accompanying financial statements for the year ended December 31, 2017 conform to generally accepted accounting principles for public employee retirement systems (PERS). The more significant accounting policies of the System are summarized below:

### **Basis of Accounting**

The System follows accounting policies mandated by the Commonwealth of Massachusetts. The accounting records are maintained on the accrual basis of accounting. Contributions from the member's employees are recognized as revenue in the period in which employees provide services.

### **Investments**

### Investment Policy

Investments are reported at fair value in accordance with PERAC requirements. System assets are managed on a total return basis with a long-

term objective of achieving and maintaining a fully funded status for the benefits provided through the pension plan.

### Rate of Return

For the year ended December 31, 2017, the annual money-weighted rate of return on pension plan investments, net of pension plan investment expenses, was 17.28%. The money-weighted rate of return expresses investment performance, net of investment expense, adjusted for the changing amounts actually invested.

### 3. Cash and Short-Term Investments

Custodial Credit Risk - Deposits. Custodial credit risk is the risk that in the event of a bank failure, the System's deposits may not be returned. Massachusetts General Law Chapter 32, Section 23, limits the System's deposits "in a bank or trust company to an amount not exceeding ten percent of the capital and surplus of such bank or trust company." The System does not have a deposit policy for custodial credit risk.

As of December 31, 2017, none of the System's bank balance of \$5,417,565 was exposed to custodial credit risk as uninsured, uncollateralized, and collateral held by pledging bank's trust department not in the System's name.

### 4. Investments

### A. Credit Risk

Generally, credit risk is the risk that an issuer of an investment will not fulfill its obligation to the holder of the investment. Massachusetts General Law, Chapter 32, Section 23, limits the investment of System funds, to the extent not required for current disbursements, in the PRIT Fund or in securities, other than mortgages or collateral loans, which are legal for the investment of funds in savings banks under the laws of the Commonwealth, provided that no more than the established percentage of assets, is invested in any one security.

All of the System's investments are reported at fair value\* and are comprised of shares in the Pension Reserve Investment Trust (PRIT) fund, which is exempt from credit risk disclosure.

\*Fair value is the same as the value of the pool share. The Pension Reserves Investment Trust (PRIT) was created under Massachusetts general law, chapter 32, section 22, in December 1983. PRIT is operated under contract with a private investment advisor, approved by the Pension Reserves Investment Management (PRIM) Board. The PRIM Board chooses an investment advisor by requesting proposals from advisors and reviewing such proposals based on criteria adopted under Massachusetts general law, chapter 30B.

### B. Custodial Credit Risk

The custodial credit risk for investments is the risk that, in the event of the failure of the counterparty (e.g. broker-dealer) to a transaction, a government will not be able to recover the value of its investment or collateral securities that are in the possession of another party. The System does not have policies for custodial credit risk.

All of the System's investments are comprised of shares in the Pension Reserve Investment Trust (PRIT) Fund, which is exempt from custodial credit risk disclosure.

### C. Concentration of Credit Risk

Massachusetts General Law Chapter 32, Section 23 limits the amount the System may invest in any one issuer or security type, with the exception of the PRIT Fund

All of the System's investments are in the PRIT fund.

### D. Interest Rate Risk

Interest rate risk is the risk that changes in market interest rates will adversely affect the fair value of an investment. Generally, the longer the maturity of an investment, the greater the sensitivity of its fair value to changes in market interest rates. The System does not have a formal investment policy that limits investment maturities as a means of managing its exposure to fair value losses arising from increasing interest rates.

Information about the sensitivity of the fair values of the System's investments to market interest rate fluctuations is not applicable as all of the System's investments are immediately liquid.

### E. Foreign Currency Risk

Foreign currency risk is the risk that changes in foreign exchange rates will adversely affect the fair value of an investment. The System does not have polices for foreign currency risk.

### F. Fair Value

The System categorizes its fair value measurements within the fair value hierarchy established by Governmental Accounting Standards Board Statement No. 72 Fair Value Measurement and Application (GASB 72). The hierarchy is based on the valuation inputs used to measure the fair value of the asset. Level 1 inputs are quoted prices in active markets for identical assets; Level 2 inputs are significant other observable inputs; Level 3 inputs are significant unobservable inputs.

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

The System has the following fair value measurements as of December 31, 2017:

### Description

Investments measured at the net asset value (NAV): External investment pool

\$ 236,944,319

			Redemption	
		Unfunded	Frequency (If currently	Redemption Notice
Description	<u>Amount</u>	Commitments	eligible)	Period
External investment pool	\$236,944,319	\$ -	Monthly	30 days

The System values its investments in good faith at the System's pro-rata interest in PRIT based upon audited financial statements or other information provided to the System by the underlying investment manager (PRIM). The estimated fair value of these investments may differ significantly from values that would have been used had a ready market existed.

### 5. Accounts Receivable

Annually the Public Employee Retirement Administration (PERAC) determines the amount of employer contributions (pension appropriations) to be made to the System. The accounts receivable balance represents legal amounts due from employers for pension appropriation not received until after December 31, 2017.

### 6. Accounts Payable

This balance represents calendar year 2017 expenditures paid by the System after year end.

### 7. Net Pension Liability of Participating Employers

The net pension liability was based on an actuarial valuation dated January 1, 2017 and rolled forward to December 31, 2017.

The components of the net pension liability of the participating employers at December 31, 2017 were as follows (in thousands):

### A. Net Pension Liability of Employers

Total pension liability \$ 269,536

Plan fiduciary net position (243,683)

Employers' net pension liability \$ 25,853

Plan fiduciary net postion as a percentage of total

pension liability 90.41%

### B. Actuarial Assumptions

A summary of the actuarial assumptions as of the latest actuarial valuation is shown below:

Valuation Date 1/1/2017

Actuarial cost method Entry Age Normal Cost Method

Actuarial assumptions:

Investment rate of return 7.25%

Projected salary increases 4.25% for Group 1, 4.75% for Group 4

Inflation rate Not explicitly assumed Post-retirement cost-of-living adjustment 3% of first \$14,000

Actuarial valuation of the ongoing Systems involves estimates of the reported amounts and assumptions about probability of occurrence of events far into the future. Examples include assumptions about future employment mortality and future salary increases. Amounts determined regarding the net pension liability are subject to continual revision as actual results are compared with past expectations and new estimates are made about the future. Explicitly

Pre-retirement rates for mortality were based on RP-2000 Employees table projected generationally with Scale BB and a base year of 2009 (gender distinct) and post-retirement rates for mortality were based on RP-2000 Health Annuitant table projected generationally with Scale BB and a base year of 2009 (gender distinct). For disabled retirees, the rates reflect the RP-2000 Healthy Annuitant table projected generationally with Scale BB and a base year of 2012 (gender distinct).

### C. Target Allocations

The long-term expected rate of return on pension plan investments was determined using a building-block method in which best-estimates ranges of expected future real rates of return (expected returns, net of pension plan investment expense and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation. Best estimates of arithmetic real rates of return for each major asset class included in the System's targeted asset allocation as of December 31, 2017, are summarized in the following table.

		Real	Long-term
	Target	Return	Expected
	Asset	Arithmetic	Real Rate
Asset Class	Allocation	Basis	of Return
Large Cap Equities	14.50%	7.50%	1.09%
Small/Mid Cap Equities	3.50%	7.75%	0.27%
Int'l Equities	16.00%	7.80%	1.25%
Emerging Int'l Equities	6.00%	9.30%	0.56%
Core Bonds	5.00%	3.75%	0.19%
20+ Yr. Treasury STRIPS	2.00%	3.50%	0.07%
15 Yr. Duration Treasuries	0.00%	0.00%	0.00%
TIPS	5.00%	3.75%	0.19%
High-Yield Bonds	1.50%	5.50%	0.08%
Bank Loans	2.50%	5.50%	0.14%
EMD (External)	1.00%	5.00%	0.05%
EMD (Local Currency)	0.00%	6.50%	0.00%
Distressed Debt	3.00%	8.80%	0.26%
Other Credit Opportunities	2.00%	6.50%	0.13%
Private Equity	11.00%	9.50%	1.05%
Real Estate (Core)	10.00%	6.70%	0.67%
Timber/Natural Resources	4.00%	6.25%	0.25%
Hedge Funds	13.00%	6.40%	0.83%
Portfolio Completion Strategies	0.00%	n/a	n/a
Total	100.00%		

### D. Discount Rate

The discount rate used to measure the total pension liability was 7.25%. The projection of cash flows used to determine the discount rate assumed that contributions from participating employers will be made based on the actuarially determined rates based on the Board's funding policy, which establishes the contractually required rates by Statute. Based on those assumptions, the System's fiduciary net position was projected to be available to make all the projected future benefit payments of 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 total pension liability.

### E. Sensitivity of Discount Rate

The following presents the net pension liability of the participating employers calculated using the discount rate of 7.25%, as well as what the participating employers' net pension liability would be if it were calculated using a discount rate that is 1 percentage-point lower (6.25%) or 1 percentage-point higher (8.25%) than the current rate:

		Current	
	1%	Discount	1%
	Decrease	Rate	Discount
	(6.25%)	(7.25%)	<u>(8.25%)</u>
Participating employers' net pension liabilty	\$57,401	\$25,853	(\$1,970)

### F. Deferred Outflows/Inflows of Resources

The following schedule reflects the deferred outflows/inflows of resources for the System for the year ended December 31, 2017 (in thousands):

	0	Deferred utflows of esources	Ir	Deferred of online of the sources
Differences between expected and actual experience	\$	500	\$	1,213
Changes of assumptions		11,115		-
Net difference between projected and actual earnings on pension plan investments	1. <u> </u>	-	_	10,235
Total	\$_	11,615	\$_	11,448

The following summarizes changes in deferred outflows/inflows, excluding employer-specific amounts:

	Measurement <u>Year</u>	Amortization Period	Balance on Prior Measurement Period Deferrals	Current Measurement Period Additions	of Amounts Recognized in Current Period Pension Expense	End of Year Balance
Deferred (Inflows) of Resources: Difference between expected and actual experience	2015	5	\$ (1,819)	\$ -	\$ 606	\$ (1,213)
Net Differences between projected and actual earnings on						
pension plan investments	2014	5	\$ 187	\$ -	\$ (93)	\$ 94
	2015	5	8,140	-	(2,713)	5,427
	2016	5	332	-	(83)	249
	2017	5		(20,005)	4,000	(16,005)
Total Deferred (Inflows) of Resources			\$6,840_	\$ (20,005)	\$ <u>1,717</u>	\$_(11,448)
Deferred Outflows of Resources Difference between expected						
and actual experience	2017	4.8	\$ -	\$ 632	\$ (132)	\$ 500
Observation of the state of the	2015	_	5 700		44 000	
Changes of assumptions	2015	5	5,760		(1,920)	3,840
	2017	4.8		9,190	(1,915)	7,275
Total Deferred Outflows of Resources	i		\$ 5,760	\$ 9,822	\$ (3,967)	\$ 11,615

The following schedule reflects the amortization of the balance of deferred outflows/inflows of resources, excluding employer-specific amounts, (in thousands):

Year ended June 30:

2018	\$	2,248
2019	Ψ	2,156
2020		(1,871)
2021		(2,366)
Total	\$	167

### BERKSHIRE COUNTRY RETIREMENT SYSTEM SCHEDULE OF CHANGES IN THE NET PENSION LIABILITY

(Unaudited)

### Amounts in thousands

Total Dansies Habilite	2017	2016	2015
Total Pension liability Service cost	\$ 6,795	\$ 6,366	\$ 6,092
Interest on unfunded liability - time value of \$	18,049	18,094	16,812
Differences between expected and actual experience	632	-	(3,031)
Changes of assumptions	9,190	-	9,600
Benefit payments, including refunds of	(44.500)	(40.450)	(40.000)
member contributions	(14,580)	(13,459)	(12,280)
Net change in total pension liability	20,086	11,001	17,193
Total pension liability - beginning	249,450	238,449	221,256
Total pension liability - ending (a)	\$ 269,536	\$ 249,450	\$_238,449
Plan fiduciary net position*			
Contributions - employer	\$ 9,297	\$ 8,880	\$ 8,431
Contributions - member	4,546	4,061	4,129
Net investment income	35,165	14,456	1,249
Benefit payments, including refunds of	(44.504)	(40,400)	(40.000)
member contributions	(14,581)	(13,460)	(12,280)
Administrative expense Other	(437) 15	(403) 12	(400)
Other			
Net change in plan fiduciary net position	34,005	13,546	1,135
Plan fiduciary net position - beginning	209,678	_196,132_	_194,997_
Plan fiduciary net position - ending (b)	\$_243,683_	\$_209,678_	\$ 196,132
Net pension liability (asset) - ending (a-b)	\$ 25,853	\$ 39,772	\$ 42,317

<sup>\*</sup> Reflects certain rounding and classification differences from page 7.

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

# BERKSHIRE COUNTRY RETIREMENT SYSTEM SCHEDULES OF NET PENSION LIABILITY, CONTRIBUTIONS, AND INVESTMENT RETURNS (Unaudited)

(Amount expressed in thousands)

Schedule of Net Pension Liability			
	<u>2017</u>	<u>2016</u>	<u>2015</u>
Total pension liability Plan fiduciary net position	\$ 269,536 243,683	\$ 249,450 209,678	\$ 238,449 196,132
Net pension liability (asset)	\$ 25,853	\$ 39,772	\$ 42,317
Plan fiduciary net position as a percentage of the total pension liability	90.41%	84.06%	82.25%
Covered employee payroll	\$ 43,687	\$ 42,307	\$ 42,307
Participating employer net pension liability (asset) as a percentage of covered employee payroll	59.18%	94.01%	100.02%
Schedule of Contributions			
	<u>2017</u>	<u>2016</u>	<u>2015</u>
Actuarially determined contribution  Contributions in relation to the actuarially determined contribution	\$ 9,297 9,297	\$ 8,880 8,880	\$ 8,482 8,482
Contribution deficiency (excess)	\$	\$	\$
Covered employee payroll	\$ 43,687	\$ 42,307	\$ 42,307
Contributions as a percentage of covered employee payroll	21.28%	20.99%	20.05%
Schedule of Investment Returns Year Ended December 31			
	<u>2017</u>	<u>2016</u>	<u>2015</u>
Annual money weighted rate of return, net of investment expense	17.28%	7.59%	0.66%

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



101 Munson Street Suite 120 Greenfield, MA 01301 (413)773-5405 phone (413)773-7304 fax melansonheath.com

### INDEPENDENT AUDITORS' REPORT

To the Retirement System Board Berkshire County Retirement System Additional Offices: Nashua, NH Manchester, NH Andover, MA Ellsworth, ME

### Report on Schedules

We have audited the accompanying schedule of employer allocations of the Berkshire County Retirement System as of and for the year ended December 31, 2017. We have also audited the columns titled net pension liability, total deferred outflows of resources excluding employer specific amounts, total deferred inflows of resources excluding employer specific amounts, and pension expense (specified column totals) included in the accompanying schedule of collective pension amounts of Berkshire County Retirement System as of and for the year ended December 31, 2017.

### Management's Responsibility for the Schedules

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

### **Auditors' Responsibility**

Our responsibility is to express opinions on the schedule of employer allocations and the specified column totals included in the schedule of collective pension amounts based on our audit. We conducted our audit in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the schedule of employer allocations and specified column totals included in the schedule of collective pension amounts are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the schedule of employer allocations and specified column totals included in the schedule of collective pension amounts. The procedures selected depend on the auditors' judgment, including the assessment of the risks of material

misstatement of the schedule of employer allocations and specified column totals included in the schedule of collective pension amounts, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the schedule of employer allocations and specified column totals included in the schedule of collective pension amounts in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the schedule of employer allocations and specified column totals included in the schedule of collective pension amounts.

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

### **Opinions**

\*

In our opinion, the schedules referred to above present fairly, in all material respects, the employer allocations and net pension liability, total deferred outflows of resources excluding employer specific amounts, total deferred inflows of resources excluding employer specific amounts, and pension expense for Berkshire County Retirement System as of and for the year ended December 31, 2017, in accordance with accounting principles generally accepted in the United States of America.

### Restriction on Use

Our report is intended solely for the information and use of Berkshire County Retirement System management, the Retirement Board, System employers and their auditors as of and for the year ended December 31, 2017, and is not intended to be and should not be used by anyone other than these specified parties.

August 31, 2018

Melanson Heath

### BERKSHIRE COUNTRY RETIREMENT SYSTEM CONTRIBUTORY RETIREMENT SYSTEM

### SCHEDULE OF EMPLOYER ALLOCATIONS

December 31, 2017

	2017			
	Actual	Employer		
	Employer	Allocation		
Employer	Appropriation	Percentage		
Town of Alford	\$ 38,635	0.42%		
Town of Becket	201,455	2.19%		
Berk Cnty Mosq. Cont.	11,958	0.13%		
Berk Hills Reg Sch. Dis.	634,720	6.90%		
Berk Cnty Reg Hous Auth	111,306	1.21%		
Cen Berk Reg School Dis	657,717	7.15%		
Town of Cheshire	92,908	1.01%		
Town of Clarksburg	138,902	1.51%		
Town of Dalton	431,425	4.69%		
Dalton Fire District	86,469	0.94%		
Dalton Housing Auth	17,478	0.19%		
Dist Dept of Veteran Serv	11,039	0.12%		
Town of Egremont	156,380	1,70%		
Farmington Riv Sch Dis	122,345	1.33%		
Town ofFlorida	104,867	1.14%		
Town of Great Barrington	757,064	8.23%		
Great Barrington Fire Dist.	50,594	0.55%		
Town of Hancock	16,558	0.18%		
Town of Hinsdale	90,149	0.98%		
Lanesboro Vil. Fire &Wat.	18,398	0.20%		
Town of Lanesborough	321,039	3.49%		
Town of Lee (incl. Schools)	952,080	10.35%		
Lee Housing Authority	16,558	0.18%		
Town of Lenox (incl. Schoo.ls)	890,447	9.68%		
~nox Bo.using Authority	21,157	0.23%		
Town of Monterey	105,787	1.15%		
Mnt. Greylock School Dist.	275,965	3.00%		
Mount Washington	27,597	0.30%		
Town of New Ashford	920	0.01%		
Town of New Marlborough	111,306	1.21%		
Town of Otis	160,060	1.74%		
Town of Peru	43,235	0.47%		
Town of Richmond	146,261	1.59%		
Town of Sandisfield	80,030	0.87%		
Town of Savoy	44,154	0.48%		
Town of Sheffield	229,051	2.49%		
So Berk Reg Sch Dist	448,903	4.88%		
Town of Stockbridge	329,318	3.58%		
Stockbridge Housing Auth	22,077	0.24%		
Town of Tyringham	71,751	0.78%		
Town of Washington	27,597	0.30%		
Town of West Stockbridge	101,187	1.10%		
Town of Williamstown	968,637	10.53%		
Williamstown Fire Dist	16,558	0.18%		
Town of Windsor	36,795	0.40%		
Total	\$ 9,198,837	100.00%		
		E45		

See actuarial assumptions in the Berkshire County Retirement Systems's audited financial statements

BERKSHIRE COUNTY RETIREMENT SYSTEM

SCHEDULE OF COLLECTIVE PENSION AMOUNTS

As of and for the year ended December 31, 2017

(Amounts expressed in thousands)

1		75	7	S	ō	er Plan	_	Expense	8) \$7,810
	Total	Deferred	Inflows	Resources	Excludin	Employe	Specific	Amounts	(\$10,948)
Deferred Inflows of Resources							Changes of	Assumptions	•
Deferred Inflov	Net Difference	Between	Projected	and Actual	Investment	Earnings on	Pension Plan	Investments	(\$10,236)
						Expected			(\$712)
es	Total	Deferred	Outflows of	Resources	Excluding			Amounts	\$11,115
ws of Resourc							Pension Plan Changes of	Assumptions	\$11,115
Deferred Outflows of Resources	Net Difference	Between	Projected	and Actual	Investment		Pension Plan	Investments	1
ă				Differences	Between	Expected	and Actual	Experience	ı
							Net Pension	Liability	\$25,853

See actuarial assumptions in the Berkshire County Retirement Systems's audited financial statements

