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## Letter from Executive Director

## John W. Parsons

<sup>66</sup>This summary report allows readers to review the current and long-term performance of our systems and the steady, positive progress being made towards the full funding of our systems.<sup>99</sup>

We are pleased to release this Investment Report for 2021. Each year, PERAC publishes the returns and annualized past returns of each Massachusetts public retirement system, in addition to their funded ratio. This summary report allows readers to review the current and long-term performance of our systems along with their steady, positive progress towards full funding. Our Annual Report will provide a more comprehensive view of our systems, both individually and collectively.

Following the adoption of Chapter 68 of the Acts of 2007, the Public Employee Retirement Administration Commission (PERAC) began issuing an Investment Report containing investment and funding results prior to the issuance of our Annual Report. Chapter 68 of the Acts of 2007 mandates that systems must meet certain investment and funding standards or they shall transfer their assets to the Pension Reserves Investment Management Board (PRIM) to invest in the Pension Reserves Investment Trust Fund (PRIT). In light of the impact that these results may have on some systems, the Commission believes that it is imperative that this data be disseminated as soon as possible.

The two Chapter 68 standards are a funded ratio of 65% and investment returns within 200 basis points (2%) of PRIM's 10-year investment performance. Based on investment performance results for 2021, the investment standard is 9.02% (PRIM 10-year return of 11.02% minus 2.00%).

This report delineates investment returns for several periods: 2021, 2017-2021 inclusive, 2012-2021 inclusive, and since inception through 2021. The funded ratios are as of the date of the most recent valuation available to PERAC. Ratios based on actuarial valuations received after April 1, 2022 have not been included in this Report. However, such valuations will be used to conduct the Chapter 68 analysis.

PERAC has completed its analysis of system funded status and investment performance in accordance with Chapter 68 of the Acts of 2007. Applying the tests set forth in that statute and PERAC Memo #35 of 2007, PERAC has determined that no retirement board will be ordered to transfer its assets to the Pension Reserves Investment Trust Fund (PRIT) based on 2021 results. This Report is the result of the efforts of PERAC's Investment, Compliance, Audit, and Communications Units. On behalf of the Commission, I would like to thank Senior Investment Analysts Veronica Colon and Sarita Yee for their efforts in preparing this Report. Lastly, we express our appreciation to the administrative staff at our retirement boards for their efforts in providing the detailed data that allows us to issue this report in a timely and accurate manner.

I hope you find the Report informative and helpful as you assess the state of our retirement systems.

Sincerely,

Jóhn W. Parsons, Esq. Executive Director

## 2021 RETURNS & ANNUALIZED PAST RETURNS (%) | FUNDED RATIOS

	•			
	Return	5-Year	10-Year	_
	(2021)	Return	Return	Return
ADAMS	20.22%	10.71%	8.30%	8.09%
AMESBURY	20.00%	12.67%	10.89%	8.55%
ANDOVER	19.22%	12.61%	10.88%	8.85%
ARLINGTON	20.01%	12.35%	10.59%	8.83%
ATTLEBORO	16.12%	13.40%	11.38%	9.43%
BARNSTABLE COUNTY	20.44%	12.98%	11.09%	8.15%
BELMONT	17.37%	11.21%	10.24%	9.59%
BERKSHIRE COUNTY	20.18%	12.71%	10.91%	9.43%
BEVERLY	20.37%	12.84%	11.08%	9.07%
BLUE HILLS REGIONAL	20.09%	12.63%	10.85%	9.13%
BOSTON (CITY)	13.03%	10.63%	9.24%	9.04%
BOSTON (TEACHERS)	19.96%	12.61%	10.87%	N/A
BRAINTREE	15.60%	11.64%	9.75%	8.98%
BRISTOL COUNTY	16.72%	11.92%	10.56%	9.19%
BROCKTON	17.84%	10.77%	9.08%	8.89%
BROOKLINE	22.83%	12.57%	10.33%	9.13%
CAMBRIDGE	17.74%	11.83%	10.90%	9.56%
CHELSEA	20.43%	12.84%	11.00%	8.54%
CHICOPEE	15.10%	11.24%	10.62%	8.98%
CLINTON	21.32%	13.01%	11.03%	8.35%
CONCORD	17.51%	10.95%	10.10%	8.88%
DANVERS	17.40%	11.25%	9.66%	8.39%
DEDHAM	20.47%	12.89%	11.08%	9.90%
DUKES COUNTY	19.32%	13.85%	11.89%	8.57%
EASTHAMPTON	20.67%	12.86%	11.01%	8.81%
ESSEX REGIONAL	20.24%	12.60%	10.97%	9.20%
EVERETT	20.35%	12.90%	11.09%	8.97%
FAIRHAVEN	20.39%	12.81%	10.99%	9.70%
FALL RIVER	20.09%	12.47%	10.77%	8.85%
FALMOUTH	18.26%	10.93%	10.43%	9.23%
FITCHBURG	20.17%	12.75%	10.81%	8.24%
FRAMINGHAM	19.97%	12.67%	10.92%	9.65%
FRANKLIN REGIONAL	20.40%	12.32%	11.26%	8.89%
GARDNER	20.45%	12.78%	10.98%	9.77%
GLOUCESTER	20.38%	12.85%	11.01%	9.32%
GREATER LAWRENCE	19.07%	15.32%	12.23%	8.55%

	Date of		
	Date of Most		
Funded Ratio	Recent Valuation		
67.4%	1/1/20		
57.2%	1/1/20		
46.9%	1/1/21		
58.1%	1/1/21		
62.2%	1/1/20		
60.8%	1/1/20		
60.4%	1/1/20		
87.4%	1/1/21		
61.0%	1/1/20		
73.8%	1/1/20		
75.6%	1/1/20		
43.0%	1/1/21		
67.7%	1/1/20		
60.1%	1/1/20		
60.6%	1/1/20		
59.6%	1/1/20		
85.8%	1/1/20		
77.7%	1/1/20		
85.7%	1/1/21		
74.2%	1/1/21		
89.0%	1/1/21		
60.3%	1/1/20		
83.1%	1/1/20		
78.2%	1/1/20		
74.9%	1/1/20		
53.8%	1/1/20		
62.9%	1/1/20		
74.5%	1/1/20		
44.5%	1/1/21		
67.1%	1/1/20		
47.6%	1/1/20		
72.8%	1/1/20		
74.4%	1/1/20		
63.7%	1/1/21		
49.1%	1/1/20		
97.0%	1/1/21		
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**NOTE:** Numbers are subject to change as board data is updated.

## 2021 RETURNS & ANNUALIZED PAST RETURNS (%) | FUNDED RATIOS

	Return			
· · · ·		5-Year	10-Year	37-Year
	(2021)	Return	Return	Return
GREENFIELD	20.41%	12.93%	11.12%	9.02%
HAMPDEN COUNTY REGIONAL	19.95%	12.50%	10.73%	9.05%
HAMPSHIRE COUNTY	19.09%	12.22%	10.11%	8.73%
HAVERHILL	22.53%	13.14%	10.92%	10.29%
HINGHAM	20.39%	12.90%	10.37%	9.52%
HOLYOKE	16.07%	12.82%	11.90%	9.80%
HULL	20.38%	12.82%	11.00%	8.49%
LAWRENCE	20.30%	12.78%	10.95%	8.38%
LEOMINSTER	20.46%	12.36%	11.54%	9.06%
LEXINGTON	13.54%	12.20%	10.34%	9.12%
LOWELL	19.85%	12.49%	10.70%	9.46%
LYNN	20.33%	12.50%	10.86%	8.55%
MALDEN	9.79%	12.77%	10.10%	9.82%
MARBLEHEAD	20.37%	12.81%	11.00%	9.63%
MARLBOROUGH	14.24%	10.91%	9.30%	8.66%
MASS. HOUSING FINANCE AGENCY (MHFA)	16.62%	12.00%	9.52%	7.99%
MASSPORT	15.66%	12.62%	10.56%	9.41%
MASS. TEACHERS' RETIREMENT SYSTEM (MTRS)	20.50%	12.90%	11.07%	9.84%
MASS. WATER RESOURCES AUTHORITY (MWRA)	13.46%	11.06%	9.70%	8.47%*
MAYNARD	17.71%	11.58%	10.49%	8.37%
MEDFORD	18.11%	11.08%	9.12%	9.01%
MELROSE	19.44%	12.22%	10.43%	8.81%
METHUEN	20.39%	12.92%	11.25%	8.58%
MIDDLESEX COUNTY	20.11%	12.48%	10.62%	8.86%
MILFORD	20.25%	12.66%	10.85%	8.73%
MILTON	20.43%	12.79%	10.99%	9.76%
MINUTEMAN REGIONAL	20.17%	12.55%	10.69%	9.79%
MONTAGUE	20.31%	12.76%	10.97%	9.53%
NATICK	20.46%	13.00%	11.57%	8.72%
NEEDHAM	20.22%	12.69%	10.89%	9.97%
NEW BEDFORD	18.11%	13.08%	11.16%	8.65%
NEWBURYPORT	20.35%	12.71%	10.88%	8.74%
NEWTON	19.76%	12.51%	10.81%	9.06%
NORFOLK COUNTY	19.40%	11.49%	10.14%	8.94%
NORTH ADAMS	10.53%	13.19%	10.63%	9.82%
NORTH ATTLEBORO	16.06%	12.57%	11.19%	9.12%

	Date of
Funded	Most Recent
Ratio	Valuation
59.9%	1/1/21
48.7%	1/1/20
62.4%	1/1/20
53.0%	1/1/20
70.4%	1/1/20
69.0%	1/1/20
69.6%	1/1/20
55.4%	1/1/20
110.3%	1/1/21
76.6%	1/1/21
58.7%	1/1/21
58.5%	1/1/21
72.9%	1/1/20
62.3%	1/1/20
79.0%	1/1/21
94.8%	1/1/21
95.1%	1/1/21
53.0%	1/1/21
88.2%	1/1/21
75.0%	1/1/21
61.3%	1/1/20
60.8%	1/1/21
56.2%	1/1/20
48.1%	1/1/20
65.8%	1/1/21
88.6%	1/1/21
94.2%	1/1/21
78.1%	1/1/20
70.4%	1/1/21
65.6%	1/1/20
46.9%	1/1/20
64.9%	1/1/20
57.4%	1/1/21
63.5%	1/1/20
83.3%	1/1/21
73.2%	1/1/20

\* Based on 36-year return

**NOTE:** Numbers are subject to change as board data is updated.

## 2021 RETURNS & ANNUALIZED PAST RETURNS (%) | FUNDED RATIOS

	Return (2021)	5-Year Return	10-Year Return	37-Year Return
NORTHAMPTON	9.82%	13.00%	10.48%	9.63%
NORTHBRIDGE	20.50%	12.93%	11.07%	9.75%
NORWOOD	18.07%	13.53%	11.02%	9.59%
PEABODY	20.39%	12.84%	11.02%	9.11%
PITTSFIELD	19.99%	12.37%	10.74%	8.68%
PLYMOUTH	21.19%	12.48%	11.36%	9.25%
PLYMOUTH COUNTY	16.88%	11.69%	10.07%	9.36%
QUINCY	14.34%	11.40%	9.42%	8.52%
READING	20.70%	12.73%	10.99%	9.66%
REVERE	20.16%	12.68%	10.87%	8.87%
SALEM	20.13%	12.68%	10.68%	8.64%
SAUGUS	19.05%	12.62%	10.91%	9.59%
SHREWSBURY	19.64%	12.95%	11.55%	9.57%
SOMERVILLE	18.89%	16.79%	12.97%	9.84%
SOUTHBRIDGE	20.22%	12.77%	10.85%	8.59%
SPRINGFIELD	20.44%	12.96%	11.15%	8.92%
STATE	20.50%	12.92%	11.08%	9.84%
STONEHAM	17.26%	10.88%	10.18%	9.04%
SWAMPSCOTT	19.59%	12.85%	11.29%	9.46%
TAUNTON	17.97%	12.24%	10.80%	9.88%
WAKEFIELD	20.31%	12.81%	11.04%	10.00%
WALTHAM	15.80%	11.74%	10.70%	9.03%
WATERTOWN	16.24%	11.93%	10.45%	8.72%
WEBSTER	15.45%	10.72%	10.02%	8.42%
WELLESLEY	20.37%	12.81%	11.03%	10.26%
WEST SPRINGFIELD	9.73%	12.65%	10.33%	8.56%
WESTFIELD	14.86%	11.99%	11.46%	9.19%
WEYMOUTH	18.49%	12.58%	10.92%	10.11%
WINCHESTER	20.47%	12.27%	9.96%	9.35%
WINTHROP	20.39%	12.84%	10.84%	9.13%
WOBURN	20.78%	12.57%	11.09%	9.74%
WORCESTER	21.13%	12.53%	10.16%	9.20%
WORCESTER REGIONAL	20.38%	12.75%	10.87%	8.70%
COMPOSITE	19.51%	12.62%	10.86%	9.58%
PRIM	20.67%	12.90%	11.02%	9.91%

	Date of
Funded	Most
Ratio	Recent Valuation
69.2%	1/1/20
72.8%	1/1/20
78.4%	1/1/20
49.3%	1/1/20
52.0%	1/1/21
51.9%	1/1/20
61.0%	1/1/20
45.9%	1/1/20
75.5%	1/1/21
63.5%	1/1/21
59.2%	1/1/20
83.2%	1/1/21
101.4%	1/1/21
69.7%	1/1/21
62.9%	1/1/20
28.9%	1/1/20
66.4%	1/1/21
78.1%	1/1/20
62.4%	1/1/21
74.5%	1/1/20
64.7%	1/1/20
61.5%	1/1/21
98.3%	1/1/21
58.4%	1/1/20
84.9%	1/1/21
66.4%	1/1/20
73.5%	1/1/21
65.6%	1/1/20
84.7%	1/1/21
92.7%	1/1/21
61.1%	1/1/20
67.1%	1/1/21
46.4%	1/1/20
NOT APP	LICABLE

**NOTE:** Numbers are subject to change as board data is updated.



# Notes

# 2021

### COMMONWEALTH OF MASSACHUSETTS

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