

PUBLIC EMPLOYEE
RETIREMENT ADMINISTRATION
COMMISSION



1 9 9 7
ANNUAL
REPORT

MASSACHUSETTS CONTRIBUTORY RETIREMENT
SYSTEMS for PUBLIC EMPLOYEES



PERAC



Mission Statement

THE PUBLIC EMPLOYEE RETIREMENT ADMINISTRATION COMMISSION (PERAC)

was created for and is dedicated to

the oversight, guidance, monitoring, and regulation

of the Massachusetts public pension systems.

The professional, prudent, and efficient administration of these systems

is the public trust of PERAC and each of the 106 public pension systems

for the mutual benefit of the public employees,

public employers, and citizens of Massachusetts.

The stewardship of the Trust Funds

for the sole purpose of providing the benefits guaranteed

to the public employees qualifying under the plans

is the fulfillment of the obligation of the people of the

to those who have dedicated their professional careers

to the service of the people of the Commonwealth.





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Commission



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Town Manager, Arlington



DIANNE HYDE RUSSELL
Senior Vice President, Imperial Bank

Letter



from the Chairman

On behalf of the Public Employee Retirement Administration Commission, (PERAC), I am pleased to present this Annual Report on the status of the Massachusetts Contributory Retirement Systems. More than 300,000 public employees, retirees, and their families rely upon the Commonwealth's 106 public pension systems for the retirement benefits earned in public service. PERAC was created in 1996 and is charged with a variety of tasks, including the oversight of these pension systems. Since its inception, PERAC has received the support of the Governor, the leadership of the House of Representatives and the Senate, and the Joint Committee on Public Service. That support has been gratifying for all of us and has played a vital role in our success.

I must also acknowledge the commitment of my fellow Commissioners. State Auditor Joseph DeNucci has provided insight and leadership to the Commission. His experience as a regulator has guided the Commission in its oversight role. Secretary of Administration and Finance Charles Baker has been a strong voice for responsible financing of the retirement systems. His intelligence and wit are irreplaceable. Commissioner Ken Donnelly, an active firefighter with more than twenty years of service, brought his thorough knowledge of retirement law to the Commission. His experience in this area has proven to be an invaluable asset to his fellow Commissioners. Commissioner Don Marquis, Arlington's Town Manager, heightened the Commission's awareness of the impact of retirement issues on municipal operations. Commissioner John Abbott, an active police officer, has offered insight into the unique retirement concerns of the law enforcement community. Commissioner Dianne Hyde Russell, serving as the private sector representative, has contributed her expertise in personnel matters and investments.

In addition, I would also like to acknowledge Executive Director Stalnaker and his staff for their hard work and dedication to the Commission's mission and varied responsibilities.

During the course of my service as a Commissioner, I have been most impressed with the efforts of the retirement boards—the front line in the protection of public employees' interests. The staff of these boards have administered our complex pension law in a professional and sensitive manner. The excellent investment performance and improvement in funding status revealed in this report are a testament to the efforts of the retirement boards. In fact, any success that the Commission has achieved is a result, not only of our own work, but also of the cooperation we have received from the boards. For that we are most grateful.

Elizabeth E. Laing, *Chairman*

Statement



from the Executive Director



ROBERT F. STALNAKER
Executive Director

The last year has been an eventful one for the Massachusetts public pension systems and their members. The reforms instituted by Chapter 306 of the Acts of 1996 began to impact the practices of the retirement boards as the Public Employee Retirement Administration Commission (PERAC) established itself and commenced the implementation of that important statute.

Other legislative initiatives significantly altered the structure of the pension law. Chapter 17 of the Acts of 1997 revised the method of granting Cost of Living Adjustments (COLAs) to retirees and survivors. As a result, in the event the statute is accepted at the local level, the retirement board will be vested with the power to decide each year whether a COLA will be awarded. Financial responsibility for future COLAs will also be the responsibility of the local governmental units, the employees of which are members of the retirement system. Pursuant to Chapter 17, PERAC filed a report with the Legislature on December 30, 1997 which estimated the fiscal effect of this change in the method of financing. In general, the report concluded that, due to recent progress in the funding of overall liabilities, the retirement systems are well positioned to include COLA in modified, but acceptable, funding schedules. As of July 1, 1998, 95 localities have accepted Chapter 17 and in most instances, PERAC has worked with the retirement board to develop a satisfactory funding schedule.

During the course of the year PERAC wrestled with the Early Intervention Program created by Chapter 306. In conjunction with the public pension community, recommendations for amending that aspect of the statute were submitted to the Legislature. In the latter stages of the legislative session that proposal was approved and became law. This represents a major accomplishment achieved after months of effort by PERAC, MACRS, the retirement boards and the members of the EIP Task Force. In addition, the support of Public Service Committee Chairs, Senator Richard Moore and Representative Timothy Toomey and their staffs; the House and Senate leadership; and the Office of Governor Cellucci enabled us to achieve this important goal. This development of a coalition approach to legislative initiatives provides a successful blueprint for future efforts.

PERAC has also moved forward aggressively in the revision of regulations governing the investment activities of the retirement boards and the disability retirement process. The new investment regulations recognize the increased professionalism in the management of system assets and make significant changes

in the regulatory process. The disability regulations focus on the implementation of Chapter 306 and the post retirement monitoring of disabled retirees.

In the past, this report has focussed exclusively on the investment activities of the retirement boards. This year we have instituted a new format that attempts to provide a more comprehensive picture of the condition of our retirement systems. Each system is profiled, enabling the members of that system and other interested parties to assess the overall condition of the system. The Commission believes that by incorporating actuarial and audit information the investment management role of the retirement boards will be placed in proper context, and the interrelated nature of the many different responsibilities of the board members will receive appropriate emphasis.

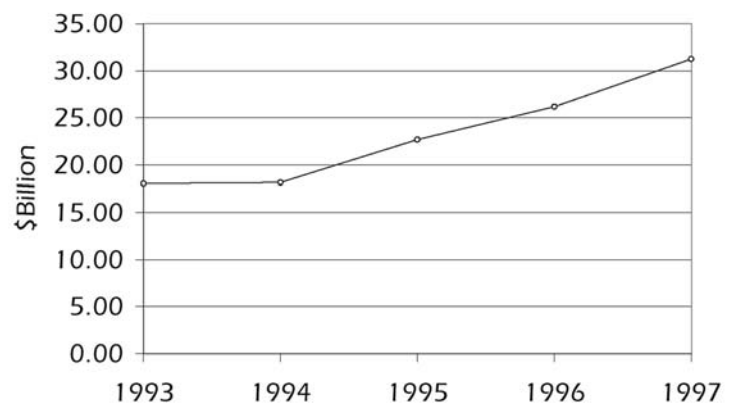
As will be outlined, dramatic progress has taken place in the financial condition of the retirement systems. One of the central contributors to this progress has been the return on investment achieved over the course of the last fifteen years. 1997 was no exception to this record. The average return for 1997 was 18.69%. In the last five years the annualized average return was 13.44%. Since the inception of the independent review of the investment performance of the systems, the annualized average return has been 12.18%.

Asset growth is a product of a number of factors including employee contribution rates, appropriations, and investment return. Although in this report we are not able to isolate the impact of each factor, on a statewide basis, assets increased from \$26.2 billion at the end of 1996 to \$31.3 billion at the end of 1997. In the five years from 1993–1997 assets have increased from \$18.1 billion to \$31.3 billion.

In this report we have included the actuarial assumptions for investment return used in the most recent actuarial valuation of each retirement system. To the extent that actual return exceeds that assumption the funding condition of the system has improved beyond the expectation. Also provided in the following tables is the funded ratio of each system as of its most recent actuarial valuation and as of its prior actuarial valuation. The funded ratio is a measure of the financial condition of the system based on the ratio that system assets bear to system liabilities. Thus a 100% funded ratio indicates a fully funded retirement system.

The purpose of setting forth the actuarial assumptions for the investment return and the systems' funded ratios is to put investment activity in its proper context. Raw investment return numbers provide only limited insight into the management of the retirement system. That return is a product of the asset allocation and risk inherent in the portfolio. As systems improve in their funded status, the goal of investment activity should be to achieve the actuarial assumed rate of return.

Five Year Statewide Asset Growth



Dramatic progress has taken place in the financial condition of the retirement systems.

This may lead to asset allocation decisions that do not seek to attain returns in excess of that assumption. As a result, a retirement board may, in fact, be managing assets in the best interest of members and beneficiaries although its comparative performance may be different from its peers.

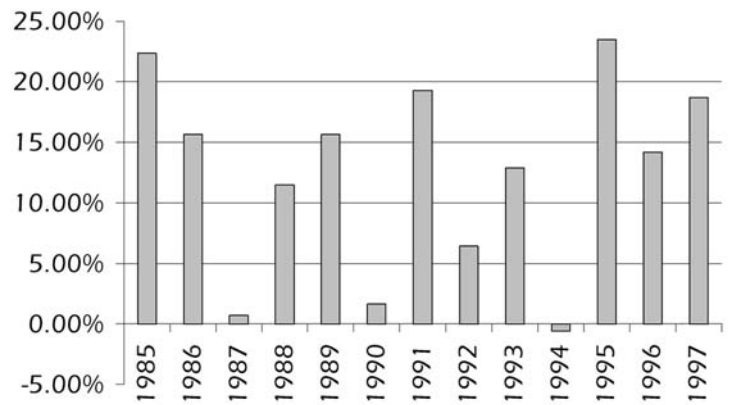
Retirement boards across the Commonwealth are bound by a fiduciary duty to manage the system in the best interest of the members of the systems and their beneficiaries. Essential to that role is to insure that resources exist to finance the hard-earned benefits that are guaranteed under Chapter 32. In this capacity the boards rely on actuarial analysis of the assets and liabilities of the system to determine funding needs. As can be seen in the funded ratio information, great progress has been made in the fiscal condition of the systems. This accomplishment is made more impressive by the fact that, until the late 1980s, contributions to the systems were determined by the “pay as you go” funding method which did not address the cost of future benefits. Ironically, this is the same method of financing that has jeopardized the Social Security System which federal policy makers are attempting to mandate on Massachusetts and its cities and towns.

Pursuant to Chapter 32 of the General Laws PERAC conducts an audit of each retirement system on a three-year cycle. That audit reviews the system’s compliance with the provisions of statute as well as regulations pertaining to financial accounting and record keeping established by the Commission. In this year’s report we have not included audit information. However, in future years, that information will be an integral part of the PERAC Annual Report.

In addition, we have made changes in the manner in which audit results are presented to retirement boards. PERAC Auditors will now review each audit finding directly with each retirement board. This process should enable boards to fully understand concerns raised and to respond expeditiously in clarifying information or in correcting any deficiencies cited in the audit. Also, over the course of the next year, the Commission would like to see an expanded role for the private audit community in conducting retirement board audits on an annual basis.

Similarly, PERAC conducts triennial actuarial valuations of the retirement systems. The PERAC Actuary will also begin to review each valuation personally with each retirement board to assure that the implications of the valuation results are fully understood. Those valuations form the basis of the funding schedules that set forth the payments necessary to finance retirement benefits. Over the course of the last year, the PERAC Actuary has worked with the private actuary community in developing funding schedules designed to cover the local assumption of COLA costs. The Commission firmly believes that an actuarial valuation of each retirement system should be conducted each year; if not, no less than every two years. This course of action allows for retirement systems to maintain more accurate data and insures that funding schedules are in fact accurately addressing system liabilities.

State Average Annual Return (%)



Conclusion

Recent history has proven that the environment in which the Massachusetts public pension systems operate is constantly changing. Throughout the 1980s and 1990s major legislative reforms have transformed the statutes embodying our pension law. In fact, retirement boards are being called upon to fulfill responsibilities such as child support enforcement that are unrelated to the primary function of managing the retirement systems.

It appears that this will continue. Today we are confronted by the specter of mandated Social Security coverage at the federal level, and the difficult task of implementing Return to Work and Pension Modification provisions of Chapter 306. In March, PERAC, at the request of the U. S. General Accounting Office, completed a study of the impact of mandated Social Security coverage on Massachusetts public employers and public employees. The conclusion of that report is that such a mandate would be a disaster for the state and its cities and towns as well as public employees. The progress retirement boards have made in the last two decades to insure the financial security of employee benefits and moderate the impact of pension costs on public budgets would be negated by the imposition of greater costs to finance diminished benefits. PERAC has estimated that for new employees only, the employer cost of Social Security coverage will be from \$210 to \$400 million. That expense would be doubled in order to establish a supplemental benefit structure to attract and retain qualified employees. This is necessary because Social Security benefits, depending on salary, pay out between 45% and 75% below the amount paid out under the current Chapter 32 system. The Commission is committed to opposing the mandate of Social Security coverage on Massachusetts' public employers and public employees and will convene a task force to coordinate our efforts with impacted employer and employee groups.

A major challenge for retirement boards as well as the world economy in general is the Year 2000 problem. Computer software developed in past years did not account for dates ending in 00. Consequently, in order to avoid a shutdown of programs and loss of data, boards must insure that software is Year 2000 compliant. To that end, PERAC invited the State Year 2000 Coordinator to make a presentation at the June 1998 MACRS Conference. That presentation introduced those who were unaware to the problem and outlined the steps that should be taken to achieve compliance.

Aside from these considerable challenges, retirement boards may be faced with a capital market environment that provides lower returns on investment than experienced over the last few years. The Asian Crisis has blunted further growth in

Throughout the 1980s and 1990s major legislative reforms have transformed the statutes embodying our pension law.

that area of the world and its impact has been felt in other developing economies. Slowing demand in Asia and other parts of the world has begun to pinch profits of multi-national corporations whose securities form the backbone of many investment portfolios. Many observers believe the U.S. stock market is overvalued. Other signs such as the Federal budget surplus and possible privatization of some aspects of Social Security paint a more positive picture. In any event it is unlikely that future experience will mirror the recent past. In fact, during the last month the markets have retreated from record highs.

This uncertain future comes at a time when many Massachusetts retirement systems have made great progress in funding status. PERAC has been discussing with the private actuarial community the transition from use of a market value of assets to using an actuarial value of assets in the development of funding schedules. Actuarial valuation of assets is a technique that attempts to smooth the volatility that can result from the use of market value. Assets are valued at some level below market value. Thus, actuarial value will provide systems with a cushion to guard against declines in the value of assets caused by a change in the capital market environment.

As these new issues arise, Retirement Board Members are being asked to maintain and expand upon the substantial progress already achieved in improving the financial condition of the retirement systems. We are confident that the dedication, professionalism, and expertise of the Members of the retirement boards will enable those boards to meet these challenges. The Commission, as always, stands ready to assist the boards in that effort.



Robert F. Stalnaker, *Executive Director*

Retirement Board

Financial Profiles



ADAMS

ACTUARIAL

Funded Ratio	73.9% [1/95]
	63.5% [1/92]

Date of Last Valuation	1/95
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Actuary	PERA
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Funding Schedule	Level
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Year Fully Funded	2009
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COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule do not reflect the COLA.

INVESTMENT

RETURN

1997	14.32%
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1993–1997	11.68%
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1985–1997	11.39%
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Actuarial Assumed Rate of Return	8.00%
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Average Investment Return Target	9.40%
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ASSET GROWTH

1997 Market Value	\$14 million
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1996 Market Value	\$12 million
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1995 Market Value	\$11 million
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1994 Market Value	\$9 million
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AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

AMESBURY

ACTUARIAL

Funded Ratio	61.1% [1/97]
	67.3% [1/94]

Date of Last Valuation	1/97
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Actuary	PERAC
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Funding Schedule	Level
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Year Fully Funded	2028
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COLA

The System has accepted the COLA legislation. Although the most recent funded ratio reflects the COLA, the funding schedule has not been updated to reflect its impact.

INVESTMENT

RETURN

1997	10.91%
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1993–1997	10.07%
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1985–1997	10.31%
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Actuarial Assumed Rate of Return	8.00%
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Average Investment Return Target	No Response
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ASSET GROWTH

1997 Market Value	\$19 million
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1996 Market Value	\$17 million
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1995 Market Value	\$16 million
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1994 Market Value	\$13 million
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AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

ANDOVER

ACTUARIAL

Funded Ratio	53.9%	[1/95]
	54.0%	[1/92]
Date of Last Valuation	1/95	
Actuary	PERA	
Funding Schedule	Split,	
	Increasing 4.5%	
Year Fully Funded	2008	[Retired]
	2025	[Active]

COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule do not reflect the COLA.

INVESTMENT

RETURN

1997	24.48%
1993–1997	11.82%
1985–1997	12.55%
Actuarial Assumed Rate of Return	8.50%
Average Investment Return Target	9.50%

ASSET GROWTH

1997 Market Value	\$49 million
1996 Market Value	\$38 million
1995 Market Value	\$31 million
1994 Market Value	\$25 million

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

ARLINGTON

ACTUARIAL

Funded Ratio	64.7%	[1/96]
	60.7%	[1/95]
Date of Last Valuation	1/96	
Actuary	Wyatt	
Funding Schedule	Level	
Year Fully Funded	2016	

COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule do not reflect the COLA.

INVESTMENT

RETURN

1997	21.97%
1993–1997	14.22%
1985–1997	12.68%
Actuarial Assumed Rate of Return	8.00%
Average Investment Return Target	8.00%

ASSET GROWTH

1997 Market Value	\$96 million
1996 Market Value	\$80 million
1995 Market Value	\$71 million
1994 Market Value	\$57 million

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

ATHOL

ACTUARIAL

Funded Ratio	54.4%	[1/98]
	56.1%	[1/96]
Date of Last Valuation	1/98	
Actuary	PERAC	
Funding Schedule	Increasing 4.5%	
Year Fully Funded	2024	

COLA
The System has accepted the COLA legislation. Although the most recent funded ratio reflects the COLA, the funding schedule has not been updated to reflect its impact.

INVESTMENT

RETURN	
1997	15.09%
1993–1997	9.01%
1985–1997	10.05%
Actuarial Assumed Rate of Return	8.00%
Average Investment Return Target	9.00%

ASSET GROWTH	
1997 Market Value	\$9 million
1996 Market Value	\$8 million
1995 Market Value	\$7 million
1994 Market Value	\$6 million

AUDIT FINDINGS

Findings
In further reports, this section will provide brief comments on significant findings from the Retirement Board’s most recent audit.

ATTLEBORO

ACTUARIAL

Funded Ratio	58.8%	[1/98]
	47.7%	[1/95]
Date of Last Valuation	1/98	
Actuary	Stone	
Funding Schedule	Increasing 2.5%	
Year Fully Funded	2021	

COLA
The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule reflect the COLA.

INVESTMENT

RETURN	
1997	19.22%
1993–1997	12.15%
1985–1997	11.65%
Actuarial Assumed Rate of Return	8.00%
Average Investment Return Target	9.08%

ASSET GROWTH	
1997 Market Value	\$39 million
1996 Market Value	\$32 million
1995 Market Value	\$28 million
1994 Market Value	\$23 million

AUDIT FINDINGS

Findings
In further reports, this section will provide brief comments on significant findings from the Retirement Board’s most recent audit.

BELMONT

ACTUARIAL

Funded Ratio	63.2% [1/98]
	59.5% [1/97]
Date of Last Valuation	1/98
Actuary	Buck
Funding Schedule	Increasing 4.5%
Year Fully Funded	2018

COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule reflect the COLA.

INVESTMENT

RETURN

1997	17.09%
1993–1997	13.47%
1985–1997	11.90%
Actuarial Assumed Rate of Return	8.50%
Average Investment Return Target	8.50%

ASSET GROWTH

1997 Market Value	\$40 million
1996 Market Value	\$35 million
1995 Market Value	\$31 million
1994 Market Value	\$26 million

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

BEVERLY

ACTUARIAL

Funded Ratio	45.3% [1/95]
	43.4% [1/92]
Date of Last Valuation	1/95
Actuary	PERA
Funding Schedule	Increasing 4.5%
Year Fully Funded	2028

COLA

The System has not accepted the COLA legislation.

INVESTMENT

RETURN

1997	12.92%
1993–1997	11.61%
1985–1997	10.75%
Actuarial Assumed Rate of Return	8.00%
Average Investment Return Target	8.50%

ASSET GROWTH

1997 Market Value	\$43 million
1996 Market Value	\$38 million
1995 Market Value	\$35 million
1994 Market Value	\$28 million

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

BLUE HILLS

ACTUARIAL

Funded Ratio	111.7% [1/95] 93.2% [1/94]
Date of Last Valuation	1/95
Actuary	PERA
Funding Schedule	No unfunded liability Normal cost
Year Fully Funded	N/A

COLA

The System has accepted the COLA legislation. The funded ratio does not reflect the COLA.

INVESTMENT

RETURN

1997	16.21%
1993–1997	12.24%
1985–1997	11.27%
Actuarial Assumed Rate of Return	8.00%
Average Investment Return Target	8.20%

ASSET GROWTH

1997 Market Value	\$5 million
1996 Market Value	\$4 million
1995 Market Value	\$4 million
1994 Market Value	\$3 million

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

BOSTON

ACTUARIAL

Funded Ratio	59.4% [1/97] 54.0% [1/94]
Date of Last Valuation	1/97
Actuary	Segal
Funding Schedule	Split, Level and Increasing 4.5%
Year Fully Funded	2013 [Retired] 2020 [Active]

COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule reflect the COLA.

INVESTMENT

RETURN

1997	18.70%
1993–1997	13.67%
1985–1997	12.27%
Actuarial Assumed Rate of Return	8.00%
Average Investment Return Target	14%

ASSET GROWTH

1997 Market Value	\$2.4 billion
1996 Market Value	\$2.1 billion
1995 Market Value	\$1.8 billion
1994 Market Value	\$1.5 billion

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

BRAINTREE

ACTUARIAL

Funded Ratio	66.8% [1/98] 58.0% [1/95]
Date of Last Valuation	1/98
Actuary	Stone
Funding Schedule	Increasing 4.5%
Year Fully Funded	2028

COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule reflect the COLA.

INVESTMENT

RETURN

1997	16.03%
1993–1997	10.35%
1985–1997	11.23%
Actuarial Assumed Rate of Return	8.00%
Average Investment Return Target	8.00%

ASSET GROWTH

1997 Market Value	\$69 million
1996 Market Value	\$59 million
1995 Market Value	\$54 million
1994 Market Value	\$43 million

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

BROCKTON

ACTUARIAL

Funded Ratio	51.3% [1/97] 54.9% [1/96]
Date of Last Valuation	1/97
Actuary	Stone
Funding Schedule	Split, Increasing 2.5%
Year Fully Funded	2028

COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule reflect the COLA.

INVESTMENT

RETURN

1997	18.64%
1993–1997	14.01%
1985–1997	11.68%
Actuarial Assumed Rate of Return	8.00%
Average Investment Return Target	11.51%

ASSET GROWTH

1997 Market Value	\$142 million
1996 Market Value	\$121 million
1995 Market Value	\$101 million
1994 Market Value	\$83 million

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

BROOKLINE

ACTUARIAL

Funded Ratio	69.8%	[1/98]
	59.7%	[1/96]
Date of Last Valuation	1/98	
Actuary	Coopers	
Funding Schedule	Split,	
	Increasing 4.5%	
Year Fully Funded	2007	[Retired]
	2024	[Active]

COLA

The System has not accepted the COLA legislation.

INVESTMENT

RETURN

1997	15.91%
1993–1997	12.35%
1985–1997	11.78%
Actuarial Assumed Rate of Return	8.00%
Average Investment Return Target	8.00%

ASSET GROWTH

1997 Market Value	\$120 million
1996 Market Value	\$105 million
1995 Market Value	\$95 million
1994 Market Value	\$76 million

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

CAMBRIDGE

ACTUARIAL

Funded Ratio	77.0%	[1/98]
	64.6%	[1/96]
Date of Last Valuation	1/98	
Actuary	KPMG	
Funding Schedule	Split, Level	
Year Fully Funded	2008	[Retired]
	2024	[Active]

COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule reflect the COLA.

INVESTMENT

RETURN

1997	25.77%
1993–1997	15.32%
1985–1997	12.55%
Actuarial Assumed Rate of Return	8.00%
Average Investment Return Target	9.48%

ASSET GROWTH

1997 Market Value	\$340 million
1996 Market Value	\$268 million
1995 Market Value	\$230 million
1994 Market Value	\$176 million

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

CHELSEA

ACTUARIAL

Funded Ratio	46.8% [1/97] 39.1% [1/95]
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Date of Last Valuation	1/97
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Actuary	PERAC
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Funding Schedule	Level
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Year Fully Funded	2022
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COLA

The System has not accepted the COLA legislation.

INVESTMENT

RETURN

1997	19.10%
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1993–1997	12.72%
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1985–1997	11.91%
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Actuarial Assumed Rate of Return	8.25%
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Average Investment Return Target	8.25%
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ASSET GROWTH

1997 Market Value	\$35 million
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1996 Market Value	\$29 million
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1995 Market Value	\$26 million
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1994 Market Value	\$21 million
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AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

CHICOPEE

ACTUARIAL

Funded Ratio	51.4% [1/97] 49.4% [1/95]
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Date of Last Valuation	1/97
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Actuary	PERAC
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Funding Schedule	Increasing 3.5%
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Year Fully Funded	2028
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COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule reflect the COLA.

INVESTMENT

RETURN

1997	19.47%
-------------	--------

1993–1997	12.76%
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1985–1997	11.55%
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Actuarial Assumed Rate of Return	8.00%
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Average Investment Return Target	9.90%
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ASSET GROWTH

1997 Market Value	\$84 million
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1996 Market Value	\$71 million
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1995 Market Value	\$64 million
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1994 Market Value	\$52 million
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AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

CLINTON

ACTUARIAL

Funded Ratio	62.8% [1/97]
	59.2% [1/94]

Date of Last Valuation	1/97
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Actuary	PERAC
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Funding Schedule	Increasing 4.5%
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Year Fully Funded	2028
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COLA

The System has accepted the COLA legislation. Although the most recent funded ratio reflects the COLA, the funding schedule has not been updated to reflect its impact.

INVESTMENT

RETURN

1997	17.97%
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1993–1997	11.73%
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1985–1997	10.17%
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Actuarial Assumed Rate of Return	8.00%
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Average Investment Return Target	12%
---	-----

ASSET GROWTH

1997 Market Value	\$11 million
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1996 Market Value	\$9 million
--------------------------	-------------

1995 Market Value	\$8 million
--------------------------	-------------

1994 Market Value	\$7 million
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AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

CONCORD

ACTUARIAL

Funded Ratio	84.1% [1/98]
	78.9% [1/96]

Date of Last Valuation	1/98
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Actuary	Stone
----------------	-------

Funding Schedule	Level
-------------------------	-------

Year Fully Funded	2014
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COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule reflect the COLA.

INVESTMENT

RETURN

1997	15.45%
-------------	--------

1993–1997	11.35%
------------------	--------

1985–1997	11.37%
------------------	--------

Actuarial Assumed Rate of Return	8.00%
---	-------

Average Investment Return Target	7.95%
---	-------

ASSET GROWTH

1997 Market Value	\$43 million
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1996 Market Value	\$37 million
--------------------------	--------------

1995 Market Value	\$34 million
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1994 Market Value	\$27 million
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AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

DANVERS

ACTUARIAL

Funded Ratio	70.4%	[1/98]
	69.5%	[1/96]
Date of Last Valuation	1/98	
Actuary	Buck	
Funding Schedule	Level and	
	Increasing 4.5%	
Year Fully Funded	2012	[Level]
	2038	[Increasing]

COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule reflect the COLA.

INVESTMENT

RETURN

1997	16.35%
1993–1997	11.07%
1985–1997	10.91%
Actuarial Assumed Rate of Return	8.50%
Average Investment Return Target	*

ASSET GROWTH

1997 Market Value	\$50 million
1996 Market Value	\$45 million
1995 Market Value	\$41 million
1994 Market Value	\$34 million

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

DEDHAM

ACTUARIAL

Funded Ratio	60.6%	[1/97]
	50.8%	[1/94]
Date of Last Valuation	1/97	
Actuary	PERAC	
Funding Schedule	Level	
Year Fully Funded	2020	

COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule reflect the COLA.

INVESTMENT

RETURN

1997	19.89%	[18.46%]
1993–1997	15.46%	
1985–1997	12.59%	
Actuarial Assumed Rate of Return	8.00%	
Average Investment Return Target	8.96%	

ASSET GROWTH

1997 Market Value	\$38 million
1996 Market Value	\$31 million
1995 Market Value	\$25 million
1994 Market Value	\$20 million

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

EASTHAMPTON

ACTUARIAL

Funded Ratio	71.4% [1/97]
	65.5% [1/94]

Date of Last Valuation	1/97
-------------------------------	------

Actuary	PERAC
----------------	-------

Funding Schedule	Level
-------------------------	-------

Year Fully Funded	2008
--------------------------	------

COLA

The System has not accepted the COLA legislation.

INVESTMENT

RETURN

1997	16.12%
-------------	--------

1993–1997	9.57%
------------------	-------

1985–1997	11.29%
------------------	--------

Actuarial Assumed Rate of Return	8.50%
---	-------

Average Investment Return Target	9.90%
---	-------

ASSET GROWTH

1997 Market Value	\$14 million
--------------------------	--------------

1996 Market Value	\$13 million
--------------------------	--------------

1995 Market Value	\$12 million
--------------------------	--------------

1994 Market Value	\$10 million
--------------------------	--------------

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

EVERETT

ACTUARIAL

Funded Ratio	53.4% [1/98]
	52.8% [1/97]

Date of Last Valuation	1/98
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Actuary	Coopers
----------------	---------

Funding Schedule	Increasing 2%
-------------------------	---------------

Year Fully Funded	2027
--------------------------	------

COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule reflect the COLA.

INVESTMENT

RETURN

1997	22.68%
-------------	--------

1993–1997	14.30%
------------------	--------

1985–1997	13.00%
------------------	--------

Actuarial Assumed Rate of Return	8.00%
---	-------

Average Investment Return Target	8.00%
---	-------

ASSET GROWTH

1997 Market Value	\$51 million
--------------------------	--------------

1996 Market Value	\$43 million
--------------------------	--------------

1995 Market Value	\$39 million
--------------------------	--------------

1994 Market Value	\$32 million
--------------------------	--------------

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

FAIRHAVEN

ACTUARIAL

Funded Ratio	60.1%	[1/97]
	57.5%	[1/94]
Date of Last Valuation	1/97	
Actuary	PERAC	
Funding Schedule	Split,	
	Increasing 3%	
Year Fully Funded	2008	[Retired]
	2018	[Active]

COLA

The System has accepted the COLA legislation. Although the most recent funded ratio reflects the COLA, the funding schedule has not been updated to reflect its impact.

INVESTMENT

RETURN

1997	19.58%	[18.15%]
1993–1997	15.19%	
1985–1997	12.14%	
Actuarial Assumed Rate of Return	8.50%	
Average Investment Return Target	8.96%	

ASSET GROWTH

1997 Market Value	\$15 million
1996 Market Value	\$12 million
1995 Market Value	\$10 million
1994 Market Value	\$8 million

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

FALL RIVER

ACTUARIAL

Funded Ratio	60.9%	[1/97]
	56.1%	[1/95]
Date of Last Valuation	1/97	
Actuary	Buck	
Funding Schedule	Level	
Year Fully Funded	2023	

COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule reflect the COLA.

INVESTMENT

RETURN

1997	19.59%
1993–1997	12.33%
1985–1997	12.33%
Actuarial Assumed Rate of Return	8.00%
Average Investment Return Target	8.00%

ASSET GROWTH

1997 Market Value	\$163 million
1996 Market Value	\$135 million
1995 Market Value	\$119 million
1994 Market Value	\$92 million

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

FALMOUTH

ACTUARIAL

Funded Ratio	59.6% [1/95]
	58.6% [1/93]

Date of Last Valuation	1/95
-------------------------------	------

Actuary	PERA
----------------	------

Funding Schedule	Increasing 4.5%
-------------------------	-----------------

Year Fully Funded	2028
--------------------------	------

COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule do not reflect the COLA.

INVESTMENT

RETURN

1997	22.36%
-------------	--------

1993–1997	14.08%
------------------	--------

1985–1997	13.06%
------------------	--------

Actuarial Assumed Rate of Return	8.00%
---	-------

Average Investment Return Target	9.09%
---	-------

ASSET GROWTH

1997 Market Value	\$44 million
--------------------------	--------------

1996 Market Value	\$36 million
--------------------------	--------------

1995 Market Value	\$31 million
--------------------------	--------------

1994 Market Value	\$23 million
--------------------------	--------------

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

FITCHBURG

ACTUARIAL

Funded Ratio	55.2% [1/97]
	53.9% [1/94]

Date of Last Valuation	1/97
-------------------------------	------

Actuary	PERAC
----------------	-------

Funding Schedule	Level
-------------------------	-------

Year Fully Funded	2020
--------------------------	------

COLA

The System has accepted the COLA legislation. Although the most recent funded ratio reflects the COLA, the funding schedule has not been updated to reflect its impact.

INVESTMENT

RETURN

1997	17.47%
-------------	--------

1993–1997	10.59%
------------------	--------

1985–1997	10.76%
------------------	--------

Actuarial Assumed Rate of Return	8.00%
---	-------

Average Investment Return Target	8.60%
---	-------

ASSET GROWTH

1997 Market Value	\$52 million
--------------------------	--------------

1996 Market Value	\$45 million
--------------------------	--------------

1995 Market Value	\$41 million
--------------------------	--------------

1994 Market Value	\$34 million
--------------------------	--------------

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

FRAMINGHAM

ACTUARIAL

Funded Ratio	56.6% [1/97]
	53.6% [1/95]

Date of Last Valuation	1/97
-------------------------------	------

Actuary	PERAC
----------------	-------

Funding Schedule	Increasing 4.5%
-------------------------	-----------------

Year Fully Funded	2028
--------------------------	------

COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule reflect the COLA.

INVESTMENT

RETURN

1997	21.16%
-------------	--------

1993–1997	14.42%
------------------	--------

1985–1997	12.57%
------------------	--------

Actuarial Assumed Rate of Return	8.00%
---	-------

Average Investment Return Target	12.80%
---	--------

ASSET GROWTH

1997 Market Value	\$106 million
--------------------------	---------------

1996 Market Value	\$85 million
--------------------------	--------------

1995 Market Value	\$73 million
--------------------------	--------------

1994 Market Value	\$55 million
--------------------------	--------------

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

GARDNER

ACTUARIAL

Funded Ratio	51.9% [1/95]
	46.8% [1/92]

Date of Last Valuation	1/95
-------------------------------	------

Actuary	PERA
----------------	------

Funding Schedule	Increasing 4.5%
-------------------------	-----------------

Year Fully Funded	2018
--------------------------	------

COLA

The System has not accepted the COLA legislation.

INVESTMENT

RETURN

1997	20.00% [18.54%]
-------------	-----------------

1993–1997	15.50%
------------------	--------

1985–1997	12.31%
------------------	--------

Actuarial Assumed Rate of Return	8.00%
---	-------

Average Investment Return Target	8.96%
---	-------

ASSET GROWTH

1997 Market Value	\$22 million
--------------------------	--------------

1996 Market Value	\$18 million
--------------------------	--------------

1995 Market Value	\$15 million
--------------------------	--------------

1994 Market Value	\$13 million
--------------------------	--------------

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

GLOUCESTER

ACTUARIAL

Funded Ratio	53.1%	[1/96]
	47.8%	[1/93]
Date of Last Valuation	1/96	
Actuary	Coopers	
Funding Schedule	Split,	
	Increasing 4.5%	
Year Fully Funded	2008	[Retired]
	2025	[Active]

COLA

The System has accepted the COLA legislation. Although the most recent funded ratio reflects the COLA, the funding schedule has not been updated to reflect its impact.

INVESTMENT

RETURN

1997	19.99%
1993–1997	13.31%
1985–1997	12.64%
Actuarial Assumed Rate of Return	8.50%
Average Investment Return Target	8.75%

ASSET GROWTH

1997 Market Value	\$40 million
1996 Market Value	\$34 million
1995 Market Value	\$30 million
1994 Market Value	\$24 million

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

GREATER LAWRENCE

ACTUARIAL

Funded Ratio	124.1%	[1/97]
	121.8%	[1/94]
Date of Last Valuation	1/97	
Actuary	PERAC	
Funding Schedule	No unfunded liability	
	Normal cost	
Year Fully Funded	N/A	

COLA

The System has accepted the COLA legislation. The funded ratio reflects the COLA.

INVESTMENT

RETURN

1997	13.59%
1993–1997	10.06%
1985–1997	8.93%
Actuarial Assumed Rate of Return	8.00%
Average Investment Return Target	**

ASSET GROWTH

1997 Market Value	\$6 million
1996 Market Value	\$5 million
1995 Market Value	\$5 million
1994 Market Value	\$4 million

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

GREENFIELD

ACTUARIAL

Funded Ratio	69.0% [1/98]
	65.6% [1/96]

Date of Last Valuation	1/98
-------------------------------	------

Actuary	Stone
----------------	-------

Funding Schedule	Increasing 2.5%, 4.5% COLA
-------------------------	-------------------------------

Year Fully Funded	2028
--------------------------	------

COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule reflect the COLA.

INVESTMENT

RETURN

1997	19.96%
-------------	--------

1993–1997	12.03%
------------------	--------

1985–1997	11.36%
------------------	--------

Actuarial Assumed Rate of Return	8.50%
---	-------

Average Investment Return Target	9.10%
---	-------

ASSET GROWTH

1997 Market Value	\$24 million
--------------------------	--------------

1996 Market Value	\$20 million
--------------------------	--------------

1995 Market Value	\$17 million
--------------------------	--------------

1994 Market Value	\$14 million
--------------------------	--------------

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

HAVERHILL

ACTUARIAL

Funded Ratio	60.4% [1/98]
	57.3% [1/96]

Date of Last Valuation	1/98
-------------------------------	------

Actuary	Segal
----------------	-------

Funding Schedule	Increasing 4.5%
-------------------------	-----------------

Year Fully Funded	2028 [non-COLA]
	2038 [COLA]

COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule reflect the COLA.

INVESTMENT

RETURN

1997	17.47%
-------------	--------

1993–1997	13.04%
------------------	--------

1985–1997	12.57%
------------------	--------

Actuarial Assumed Rate of Return	8.50%
---	-------

Average Investment Return Target	12%
---	-----

ASSET GROWTH

1997 Market Value	\$100 million
--------------------------	---------------

1996 Market Value	\$87 million
--------------------------	--------------

1995 Market Value	\$75 million
--------------------------	--------------

1994 Market Value	\$60 million
--------------------------	--------------

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

HINGHAM

ACTUARIAL

Funded Ratio	57.1% [1/96]
	50.7% [1/95]
Date of Last Valuation	1/96
Actuary	Buck
Funding Schedule	Increasing variable (under 2%)
Year Fully Funded	2017

COLA

The System has not accepted the COLA legislation.

INVESTMENT

RETURN

1997	19.83% [18.40%]
1993–1997	15.28%
1985–1997	11.98%
Actuarial Assumed Rate of Return	8.00%
Average Investment Return Target	8.96%

ASSET GROWTH

1997 Market Value	\$34 million
1996 Market Value	\$29 million
1995 Market Value	\$23 million
1994 Market Value	\$18 million

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

HOLYOKE

ACTUARIAL

Funded Ratio	64.1% [1/98]
	61.9% [1/96]
Date of Last Valuation	1/98
Actuary	Buck
Funding Schedule	Split, Increasing 4.5%
Year Fully Funded	2008 [Retired]
	2021 [Active]

COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule reflect the COLA.

INVESTMENT

RETURN

1997	19.64%
1993–1997	12.92%
1985–1997	12.73%
Actuarial Assumed Rate of Return	8.50%
Average Investment Return Target	9.38%

ASSET GROWTH

1997 Market Value	\$103 million
1996 Market Value	\$85 million
1995 Market Value	\$76 million
1994 Market Value	\$61 million

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

HULL

ACTUARIAL

Funded Ratio	39.5% [1/96]
	34.0% [1/93]
Date of Last Valuation	1/96
Actuary	PERA
Funding Schedule	Increasing 4.5%
Year Fully Funded	2028

COLA

The System has not accepted the COLA legislation.

INVESTMENT

RETURN

1997	20.36%
1993–1997	11.58%
1985–1997	10.11%
Actuarial Assumed Rate of Return	8.00%
Average Investment Return Target	No Response

ASSET GROWTH

1997 Market Value	\$11 million
1996 Market Value	\$9 million
1995 Market Value	\$8 million
1994 Market Value	\$7 million

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

LAWRENCE

ACTUARIAL

Funded Ratio	47.7% [1/97]
	51.5% [1/96]
Date of Last Valuation	1/97
Actuary	Stone
Funding Schedule	Increasing 2.5%
Year Fully Funded	2028

COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule reflect the COLA.

INVESTMENT

RETURN

1997	26.97%
1993–1997	12.71%
1985–1997	11.58%
Actuarial Assumed Rate of Return	8.50%
Average Investment Return Target	9.00%

ASSET GROWTH

1997 Market Value	\$79 million
1996 Market Value	\$63 million
1995 Market Value	\$56 million
1994 Market Value	\$46 million

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

LEOMINSTER

ACTUARIAL

Funded Ratio	50.1% [1/95]
	46.6% [1/92]

Date of Last Valuation	1/95
-------------------------------	------

Actuary	PERA
----------------	------

Funding Schedule	Increasing 4.5%
-------------------------	-----------------

Year Fully Funded	2018
--------------------------	------

COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule do not reflect the COLA.

INVESTMENT

RETURN

1997	17.65%
-------------	--------

1993–1997	11.17%
------------------	--------

1985–1997	10.94%
------------------	--------

Actuarial Assumed Rate of Return	8.00%
---	-------

Average Investment Return Target	8.70%
---	-------

ASSET GROWTH

1997 Market Value	\$41 million
--------------------------	--------------

1996 Market Value	\$35 million
--------------------------	--------------

1995 Market Value	\$31 million
--------------------------	--------------

1994 Market Value	\$25 million
--------------------------	--------------

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

LEXINGTON

ACTUARIAL

Funded Ratio	80.4% [1/96]
	69.6% [1/94]

Date of Last Valuation	1/96
-------------------------------	------

Actuary	PERAC
----------------	-------

Funding Schedule	Split, Increasing 4.5%
-------------------------	---------------------------

Year Fully Funded	2008 [Retired]
	2025 [Active]

COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule do not reflect the COLA.

INVESTMENT

RETURN

1997	20.97%
-------------	--------

1993–1997	13.42%
------------------	--------

1985–1997	12.50%
------------------	--------

Actuarial Assumed Rate of Return	8.00%
---	-------

Average Investment Return Target	***
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ASSET GROWTH

1997 Market Value	\$61 million
--------------------------	--------------

1996 Market Value	\$50 million
--------------------------	--------------

1995 Market Value	\$45 million
--------------------------	--------------

1994 Market Value	\$35 million
--------------------------	--------------

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

LOWELL

ACTUARIAL

Funded Ratio	60.0% [1/98]
	39.8% [1/95]

Date of Last Valuation	1/98
-------------------------------	------

Actuary	Buck
----------------	------

Funding Schedule	Level
-------------------------	-------

Year Fully Funded	2028
--------------------------	------

COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule reflect the COLA.

INVESTMENT

RETURN

1997	28.83%
-------------	--------

1993–1997	15.55%
------------------	--------

1985–1997	12.28%
------------------	--------

Actuarial Assumed Rate of Return	8.50%
---	-------

Average Investment Return Target	11.70%
---	--------

ASSET GROWTH

1997 Market Value	\$125 million
--------------------------	---------------

1996 Market Value	\$96 million
--------------------------	--------------

1995 Market Value	\$82 million
--------------------------	--------------

1994 Market Value	\$65 million
--------------------------	--------------

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

LYNN

ACTUARIAL

Funded Ratio	48.4% [1/97]
	50.0% [1/94]

Date of Last Valuation	1/97
-------------------------------	------

Actuary	PERAC
----------------	-------

Funding Schedule	Increasing 2.5%
-------------------------	-----------------

Year Fully Funded	2028
--------------------------	------

COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule reflect the COLA.

INVESTMENT

RETURN

1997	18.00%
-------------	--------

1993–1997	10.58%
------------------	--------

1985–1997	11.25%
------------------	--------

Actuarial Assumed Rate of Return	8.50%
---	-------

Average Investment Return Target	9.56%
---	-------

ASSET GROWTH

1997 Market Value	\$122 million
--------------------------	---------------

1996 Market Value	\$105 million
--------------------------	---------------

1995 Market Value	\$96 million
--------------------------	--------------

1994 Market Value	\$78 million
--------------------------	--------------

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

M H F A

A C T U A R I A L

Funded Ratio	109.4% [1/96] 122.3% [1/94]
Date of Last Valuation	1/96
Actuary	PERA
Funding Schedule	No unfunded liability Normal cost
Year Fully Funded	N/A

COLA

The System has accepted the COLA legislation. The funded ratio does not reflect the COLA.

I N V E S T M E N T

RETURN

1997	18.88%
1993–1997	11.93%
1985–1997	9.61%
Actuarial Assumed Rate of Return	8.00%
Average Investment Return Target	8.67%

ASSET GROWTH

1997 Market Value	\$32 million
1996 Market Value	\$27 million
1995 Market Value	\$24 million
1994 Market Value	\$19 million

A U D I T F I N D I N G S

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

M W R A

A C T U A R I A L

Funded Ratio	100.0% [1/98] 75.8% [1/94]
Date of Last Valuation	1/98
Actuary	Buck
Funding Schedule	No unfunded liability Normal cost
Year Fully Funded	N/A

COLA

The System has accepted the COLA legislation. The funded ratio reflects the COLA.

I N V E S T M E N T

RETURN

1997	16.77%
1993–1997	11.25%
1985–1997	N/A
Actuarial Assumed Rate of Return	8.00%
Average Investment Return Target	10.60%

ASSET GROWTH

1997 Market Value	\$78 million
1996 Market Value	\$61 million
1995 Market Value	\$48 million
1994 Market Value	\$33 million

A U D I T F I N D I N G S

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

MALDEN

ACTUARIAL

Funded Ratio	54.8% [1/96] 49.2% [1/95]
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Date of Last Valuation	1/96
-------------------------------	------

Actuary	PERA
----------------	------

Funding Schedule	Level
-------------------------	-------

Year Fully Funded	2023
--------------------------	------

COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule do not reflect the COLA.

INVESTMENT

RETURN

1997	27.50%
-------------	--------

1993–1997	13.02%
------------------	--------

1985–1997	12.31%
------------------	--------

Actuarial Assumed Rate of Return	8.00%
---	-------

Average Investment Return Target	8.00%
---	-------

ASSET GROWTH

1997 Market Value	\$71 million
--------------------------	--------------

1996 Market Value	\$57 million
--------------------------	--------------

1995 Market Value	\$50 million
--------------------------	--------------

1994 Market Value	\$39 million
--------------------------	--------------

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

MARBLEHEAD

ACTUARIAL

Funded Ratio	73.8% [1/96] 57.3% [1/92]
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Date of Last Valuation	1/96
-------------------------------	------

Actuary	KPMG
----------------	------

Funding Schedule	Level
-------------------------	-------

Year Fully Funded	2004
--------------------------	------

COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule do not reflect the COLA.

INVESTMENT

RETURN

1997	18.55%
-------------	--------

1993–1997	13.22%
------------------	--------

1985–1997	11.95%
------------------	--------

Actuarial Assumed Rate of Return	8.50%
---	-------

Average Investment Return Target	8.96%
---	-------

ASSET GROWTH

1997 Market Value	\$42 million
--------------------------	--------------

1996 Market Value	\$36 million
--------------------------	--------------

1995 Market Value	\$31 million
--------------------------	--------------

1994 Market Value	\$24 million
--------------------------	--------------

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

MARLBOROUGH

ACTUARIAL

Funded Ratio	50.2% [1/97] 45.7% [1/95]
---------------------	------------------------------

Date of Last Valuation	1/97
-------------------------------	------

Actuary	Coopers
----------------	---------

Funding Schedule	Increasing 3.0%
-------------------------	-----------------

Year Fully Funded	2028
--------------------------	------

COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule reflect the COLA.

INVESTMENT

RETURN

1997	16.63%
-------------	--------

1993–1997	11.51%
------------------	--------

1985–1997	11.23%
------------------	--------

Actuarial Assumed Rate of Return	8.00%
---	-------

Average Investment Return Target	8.00%
---	-------

ASSET GROWTH

1997 Market Value	\$39 million
--------------------------	--------------

1996 Market Value	\$32 million
--------------------------	--------------

1995 Market Value	\$29 million
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1994 Market Value	\$23 million
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AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

MASSPORT

ACTUARIAL

Funded Ratio	134.3% [1/97] 119.3% [1/95]
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Date of Last Valuation	1/97
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Actuary	Stone
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Funding Schedule	No unfunded liability Normal cost
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Year Fully Funded	N/A
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COLA

The System has accepted the COLA legislation. The funded ratio reflects the COLA.

INVESTMENT

RETURN

1997	16.37%
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1993–1997	11.27%
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1985–1997	12.51%
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Actuarial Assumed Rate of Return	8.00%
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Average Investment Return Target	**
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ASSET GROWTH

1997 Market Value	\$215 million
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1996 Market Value	\$184 million
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1995 Market Value	\$164 million
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1994 Market Value	\$133 million
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AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

MASS TURNPIKE

ACTUARIAL

Funded Ratio	94.9% [1/97] 101.0% [1/95]
Date of Last Valuation	1/97
Actuary	Mercer
Funding Schedule	No unfunded liability Normal cost
Year Fully Funded	N/A

COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule reflect the COLA.

INVESTMENT

RETURN

1997	13.87%
1993–1997	10.21%
1985–1997	11.34%
Actuarial Assumed Rate of Return	8.50%
Average Investment Return Target	8.50%

ASSET GROWTH

1997 Market Value	\$150 million
1996 Market Value	\$134 million
1995 Market Value	\$119 million
1994 Market Value	\$98 million

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

MAYNARD

ACTUARIAL

Funded Ratio	52.0% [1/96] 47.3% [1/93]
Date of Last Valuation	1/96
Actuary	PERA
Funding Schedule	Increasing 4.5%
Year Fully Funded	2028

COLA

The System has accepted the COLA legislation. Although the funding schedule reflects the COLA, the most recent funded ratio does not reflect its impact.

INVESTMENT

RETURN

1997	19.59%
1993–1997	12.54%
1985–1997	10.11%
Actuarial Assumed Rate of Return	8.00%
Average Investment Return Target	12.00%

ASSET GROWTH

1997 Market Value	\$11 million
1996 Market Value	\$9 million
1995 Market Value	\$8 million
1994 Market Value	\$6 million

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

MEDFORD

ACTUARIAL

Funded Ratio	49.9% [1/96]
	49.9% [1/95]
Date of Last Valuation	1/96
Actuary	Coopers
Funding Schedule	Increasing 4.5%
Year Fully Funded	2022

COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule reflect the COLA.

INVESTMENT

RETURN

1997	19.87%
1993–1997	12.72%
1985–1997	11.75%
Actuarial Assumed Rate of Return	7.50%
Average Investment Return Target	8.00%

ASSET GROWTH

1997 Market Value	\$83 million
1996 Market Value	\$69 million
1995 Market Value	\$61 million
1994 Market Value	\$50 million

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

MELROSE

ACTUARIAL

Funded Ratio	60.2% [1/98]
	51.2% [1/95]
Date of Last Valuation	1/98
Actuary	PERAC
Funding Schedule	Increasing 3.5%
Year Fully Funded	2020

COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule reflect the COLA.

INVESTMENT

RETURN

1997	17.13%
1993–1997	11.68%
1985–1997	11.64%
Actuarial Assumed Rate of Return	8.00%
Average Investment Return Target	8.50%

ASSET GROWTH

1997 Market Value	\$36 million
1996 Market Value	\$31 million
1995 Market Value	\$28 million
1994 Market Value	\$22 million

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

METHUEN

ACTUARIAL

Funded Ratio	63.7%	[1/97]
	65.0%	[1/96]
Date of Last Valuation	1/97	
Actuary	Buck	
Funding Schedule	Increasing 4.5%	
Year Fully Funded	2019	[Retired]
	2028	[Active]

COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule reflect the COLA.

INVESTMENT

RETURN

1997	14.60%
1993–1997	11.65%
1985–1997	10.70%
Actuarial Assumed Rate of Return	8.00%
Average Investment Return Target	9.53%

ASSET GROWTH

1997 Market Value	\$49 million
1996 Market Value	\$43 million
1995 Market Value	\$37 million
1994 Market Value	\$29 million

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

MILFORD

ACTUARIAL

Funded Ratio	78.6%	[1/98]
	59.6%	[1/96]
Date of Last Valuation	1/98	
Actuary	PERAC	
Funding Schedule	Increasing 4.5%	
Year Fully Funded	2028	

COLA

The System has accepted the COLA legislation. Although the most recent funded ratio reflects the COLA, the funding schedule has not been updated to reflect its impact.

INVESTMENT

RETURN

1997	20.14%
1993–1997	12.88%
1985–1997	11.19%
Actuarial Assumed Rate of Return	8.00%
Average Investment Return Target	11.17%

ASSET GROWTH

1997 Market Value	\$33 million
1996 Market Value	\$27 million
1995 Market Value	\$23 million
1994 Market Value	\$19 million

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

MILTON

ACTUARIAL

Funded Ratio	69.9% [1/97]
	58.9% [1/94]
Date of Last Valuation	1/97
Actuary	John Hancock
Funding Schedule	Increasing 4.5%
Year Fully Funded	2015

COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule reflect the COLA.

INVESTMENT

RETURN

1997	20.09% [18.65%]
1993–1997	15.51%
1985–1997	12.48%
Actuarial Assumed Rate of Return	8.50%
Average Investment Return Target	8.96%

ASSET GROWTH

1997 Market Value	\$41 million
1996 Market Value	\$35 million
1995 Market Value	\$30 million
1994 Market Value	\$24 million

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

MINUTEMAN

ACTUARIAL

Funded Ratio	116.6% [1/96]
	101.1% [1/93]
Date of Last Valuation	1/96
Actuary	PERA
Funding Schedule	No unfunded liability Normal cost
Year Fully Funded	N/A

COLA

The System has accepted the COLA legislation. The funded ratio does not reflect the COLA.

INVESTMENT

RETURN

1997	19.82% [18.37%]
1993–1997	15.34%
1985–1997	12.54%
Actuarial Assumed Rate of Return	8.00%
Average Investment Return Target	8.96%

ASSET GROWTH

1997 Market Value	\$6 million
1996 Market Value	\$5 million
1995 Market Value	\$4 million
1994 Market Value	\$3 million

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

MONTAGUE

ACTUARIAL

Funded Ratio	60.4% [1/98] 49.0% [1/95]
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Date of Last Valuation	1/98
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Actuary	Stone
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Funding Schedule	Increasing 3.5%
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Year Fully Funded	2028
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COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule reflect the COLA.

INVESTMENT

RETURN

1997	19.78% [18.37%]
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1993–1997	15.29%
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1985–1997	11.63%
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Actuarial Assumed Rate of Return	8.00%
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Average Investment Return Target	8.96%
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ASSET GROWTH

1997 Market Value	\$9 million
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1996 Market Value	\$8 million
--------------------------	-------------

1995 Market Value	\$7 million
--------------------------	-------------

1994 Market Value	\$5 million
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AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

NATICK

ACTUARIAL

Funded Ratio	67.2% [1/97] 54.3% [1/95]
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Date of Last Valuation	1/97
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Actuary	KPMG
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Funding Schedule	Split, Increasing 4.5%
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Year Fully Funded	2012 [Retired] 2024 [Active]
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COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule reflect the COLA.

INVESTMENT

RETURN

1997	22.14%
-------------	--------

1993–1997	13.78%
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1985–1997	12.99%
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Actuarial Assumed Rate of Return	8.00%
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Average Investment Return Target	No Response
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ASSET GROWTH

1997 Market Value	\$55 million
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1996 Market Value	\$45 million
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1995 Market Value	\$40 million
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1994 Market Value	\$32 million
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AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

NEEDHAM

ACTUARIAL

Funded Ratio	71.2% [1/97] 66.1% [1/95]
Date of Last Valuation	1/97
Actuary	Coopers
Funding Schedule	Increasing 4.5%
Year Fully Funded	2028

COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule reflect the COLA.

INVESTMENT

RETURN

1997	19.77% [18.19%]
1993–1997	15.48%
1985–1997	13.02%
Actuarial Assumed Rate of Return	8.50%
Average Investment Return Target	8.96%

ASSET GROWTH

1997 Market Value	\$64 million
1996 Market Value	\$55 million
1995 Market Value	\$48 million
1994 Market Value	\$40 million

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

NEW BEDFORD

ACTUARIAL

Funded Ratio	53.3% [1/98] 44.4% [1/94]
Date of Last Valuation	1/98
Actuary	Coopers
Funding Schedule	Increasing 4.5%
Year Fully Funded	2028

COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule reflect the COLA.

INVESTMENT

RETURN

1997	17.96%
1993–1997	11.94%
1985–1997	9.75%
Actuarial Assumed Rate of Return	8.50%
Average Investment Return Target	8.50%

ASSET GROWTH

1997 Market Value	\$124 million
1996 Market Value	\$104 million
1995 Market Value	\$92 million
1994 Market Value	\$76 million

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

NEWBURYPORT

ACTUARIAL

Funded Ratio	52.7% [1/97]
	59.1% [1/96]

Date of Last Valuation	1/97
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Actuary	John Hancock
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Funding Schedule	Increasing 4.5%
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Year Fully Funded	2028
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COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule reflect the COLA.

INVESTMENT

RETURN

1997	17.37%
-------------	--------

1993–1997	10.98%
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1985–1997	10.51%
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Actuarial Assumed Rate of Return	8.50%
---	-------

Average Investment Return Target	8.00%
---	-------

ASSET GROWTH

1997 Market Value	\$21 million
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1996 Market Value	\$18 million
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1995 Market Value	\$16 million
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1994 Market Value	\$13 million
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AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

NEWTON

ACTUARIAL

Funded Ratio	67.6% [1/98]
	67.4% [1/97]

Date of Last Valuation	1/98
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Actuary	Buck
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Funding Schedule	N/A
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Year Fully Funded	N/A
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COLA

The System has accepted the COLA legislation. The most recent funded ratio reflects the COLA.

INVESTMENT

RETURN

1997	21.62%
-------------	--------

1993–1997	14.32%
------------------	--------

1985–1997	12.06%
------------------	--------

Actuarial Assumed Rate of Return	7.50%
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Average Investment Return Target	9.56%
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ASSET GROWTH

1997 Market Value	\$188 million
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1996 Market Value	\$159 million
--------------------------	---------------

1995 Market Value	\$141 million
--------------------------	---------------

1994 Market Value	\$116 million
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AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

NORTH ADAMS

ACTUARIAL

Funded Ratio	65.6%	[1/96]
	58.7%	[1/93]
Date of Last Valuation	1/96	
Actuary	PERA	
Funding Schedule	Split, Level, COLA Increasing 4.5%	
Year Fully Funded	2008	[Retired]
	2028	[COLA]

COLA

The System has accepted the COLA legislation. Although the funding schedule reflects the COLA, the most recent funded ratio does not reflect its impact.

INVESTMENT

RETURN

1997	27.42%
1993–1997	12.82%
1985–1997	12.17%
Actuarial Assumed Rate of Return	8.00%
Average Investment Return Target	8.00%

ASSET GROWTH

1997 Market Value	\$23 million
1996 Market Value	\$18 million
1995 Market Value	\$17 million
1994 Market Value	\$14 million

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

NORTH ATTLEBORO

ACTUARIAL

Funded Ratio	80.4%	[1/97]
	65.7%	[1/94]
Date of Last Valuation	1/97	
Actuary	PERAC	
Funding Schedule	Level	
Year Fully Funded	2009	

COLA

The System has not accepted the COLA legislation.

INVESTMENT

RETURN

1997	20.82%
1993–1997	13.70%
1985–1997	11.57%
Actuarial Assumed Rate of Return	8.00%
Average Investment Return Target	3.50% ****

ASSET GROWTH

1997 Market Value	\$30 million
1996 Market Value	\$24 million
1995 Market Value	\$21 million
1994 Market Value	\$17 million

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

NORTHAMPTON

ACTUARIAL

Funded Ratio	56.7% [1/96]
	51.3% [1/93]

Date of Last Valuation	1/96
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Actuary	PERA
----------------	------

Funding Schedule	Increasing 4.5%
-------------------------	-----------------

Year Fully Funded	2028
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COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule do not reflect the COLA.

INVESTMENT

RETURN

1997	25.61%
-------------	--------

1993–1997	12.35%
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1985–1997	11.72%
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Actuarial Assumed Rate of Return	8.00%
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Average Investment Return Target	8.00%
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ASSET GROWTH

1997 Market Value	\$32 million
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1996 Market Value	\$26 million
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1995 Market Value	\$22 million
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1994 Market Value	\$18 million
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AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

NORTHBRIDGE

ACTUARIAL

Funded Ratio	58.4% [1/96]
	52.3% [1/93]

Date of Last Valuation	1/96
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Actuary	SGS & Assoc.
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Funding Schedule	Split, Increasing 4.5%
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Year Fully Funded	2008 [Retired]
	2025 [Active]

COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule do not reflect the COLA.

INVESTMENT

RETURN

1997	19.78% [18.42%]
-------------	-----------------

1993–1997	15.42%
------------------	--------

1985–1997	12.13%
------------------	--------

Actuarial Assumed Rate of Return	8.00%
---	-------

Average Investment Return Target	8.96%
---	-------

ASSET GROWTH

1997 Market Value	\$8 million
--------------------------	-------------

1996 Market Value	\$7 million
--------------------------	-------------

1995 Market Value	\$6 million
--------------------------	-------------

1994 Market Value	\$4 million
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AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

NORWOOD

ACTUARIAL

Funded Ratio	90.4% [1/97]
	94.9% [1/94]
Date of Last Valuation	1/97
Actuary	PERAC
Funding Schedule	No unfunded liability
	Normal cost
Year Fully Funded	N/A

COLA

The System has accepted the COLA legislation. The funded ratio reflects the COLA.

INVESTMENT

RETURN

1997	19.15%
1993–1997	13.78%
1985–1997	12.14%
Actuarial Assumed Rate of Return	8.00%
Average Investment Return Target	8.00%

ASSET GROWTH

1997 Market Value	\$74 million
1996 Market Value	\$64 million
1995 Market Value	\$57 million
1994 Market Value	\$46 million

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

PEABODY

ACTUARIAL

Funded Ratio	61.0% [1/98]
	51.3% [1/95]
Date of Last Valuation	1/98
Actuary	Buck
Funding Schedule	Increasing 4.5%
Year Fully Funded	2014

COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule reflect the COLA.

INVESTMENT

RETURN

1997	20.68%
1993–1997	13.62%
1985–1997	12.34%
Actuarial Assumed Rate of Return	8.50%
Average Investment Return Target	10%

ASSET GROWTH

1997 Market Value	\$72 million
1996 Market Value	\$61 million
1995 Market Value	\$56 million
1994 Market Value	\$46 million

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

PITTSFIELD

ACTUARIAL

Funded Ratio	59.0% [1/98]
	59.0% [1/97]

Date of Last Valuation	1/98
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Actuary	KPMG
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Funding Schedule	Increasing 2.5%
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Year Fully Funded	2026
-------------------	------

COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule reflect the COLA.

INVESTMENT

RETURN

1997	17.95%
------	--------

1993–1997	12.19%
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1985–1997	11.55%
-----------	--------

Actuarial Assumed Rate of Return	8.50%
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Average Investment Return Target	9.80%
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ASSET GROWTH

1997 Market Value	\$63 million
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1996 Market Value	\$54 million
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1995 Market Value	\$52 million
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1994 Market Value	\$42 million
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AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

PLYMOUTH

ACTUARIAL

Funded Ratio	62.4% [1/97]
	56.9% [1/95]

Date of Last Valuation	1/97
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Actuary	Stone
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Funding Schedule	Split,
	Increasing 4.132%

Year Fully Funded	2028
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COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule reflect the COLA.

INVESTMENT

RETURN

1997	15.36%
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1993–1997	11.33%
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1985–1997	12.24%
-----------	--------

Actuarial Assumed Rate of Return	8.50%
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Average Investment Return Target	8.50%
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ASSET GROWTH

1997 Market Value	\$60 million
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1996 Market Value	\$52 million
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1995 Market Value	\$45 million
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1994 Market Value	\$35 million
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AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

QUINCY

ACTUARIAL

Funded Ratio	54.7% [1/97]
	54.4% [1/94]
Date of Last Valuation	1/97
Actuary	PERAC
Funding Schedule	Increasing 4.5%
Year Fully Funded	2023

COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule reflect the COLA.

INVESTMENT

RETURN

1997	20.98%
1993–1997	12.77%
1985–1997	10.85%
Actuarial Assumed Rate of Return	8.00%
Average Investment Return Target	9.00%

ASSET GROWTH

1997 Market Value	\$200 million
1996 Market Value	\$163 million
1995 Market Value	\$144 million
1994 Market Value	\$115 million

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

READING

ACTUARIAL

Funded Ratio	56.8% [7/97]
	59.5% [1/96]
Date of Last Valuation	7/97
Actuary	Segal
Funding Schedule	Increasing 1.5%
Year Fully Funded	2028

COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule reflect the COLA.

INVESTMENT

RETURN

1997	20.00% [18.57%]
1993–1997	15.46%
1985–1997	11.99%
Actuarial Assumed Rate of Return	8.00%
Average Investment Return Target	8.96%

ASSET GROWTH

1997 Market Value	\$43 million
1996 Market Value	\$35 million
1995 Market Value	\$30 million
1994 Market Value	\$23 million

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

REVERE

ACTUARIAL

Funded Ratio	46.4% [1/98]
	37.5% [1/95]
Date of Last Valuation	1/98
Actuary	PERAC
Funding Schedule	Increasing 2.5%
Year Fully Funded	2019

COLA

The System has stated that it has accepted the COLA legislation. The most recent funded ratio and the funding schedule reflect the COLA.

INVESTMENT

RETURN

1997	18.10%
1993–1997	12.32%
1985–1997	10.16%
Actuarial Assumed Rate of Return	8.00%
Average Investment Return Target	8.96%

ASSET GROWTH

1997 Market Value	\$50 million
1996 Market Value	\$43 million
1995 Market Value	\$38 million
1994 Market Value	\$32 million

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

SALEM

ACTUARIAL

Funded Ratio	55.5% [1/97]
	57.2% [1/94]
Date of Last Valuation	1/97
Actuary	Coopers
Funding Schedule	Increasing 4.0%
Year Fully Funded	2028

COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule reflect the COLA.

INVESTMENT

RETURN

1997	18.37%
1993–1997	12.44%
1985–1997	11.31%
Actuarial Assumed Rate of Return	8.50%
Average Investment Return Target	9.30%

ASSET GROWTH

1997 Market Value	\$57 million
1996 Market Value	\$49 million
1995 Market Value	\$45 million
1994 Market Value	\$38 million

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

SAUGUS

ACTUARIAL

Funded Ratio	62.8%	[1/97]
	43.4%	[1/95]
Date of Last Valuation	1/97	
Actuary	KPMG	
Funding Schedule	Split,	
	Increasing 4.5%	
Year Fully Funded	2006	[Retired]
	2023	[Active]

COLA

The System has not accepted the COLA legislation.

INVESTMENT

RETURN

1997	19.77%	[18.34%]
1993–1997	15.33%	
1985–1997	11.81%	
Actuarial Assumed Rate of Return	8.50%	
Average Investment Return Target	8.96%	

ASSET GROWTH

1997 Market Value	\$26 million
1996 Market Value	\$22 million
1995 Market Value	\$19 million
1994 Market Value	\$15 million

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

SHREWSBURY

ACTUARIAL

Funded Ratio	64.1%	[1/97]
	60.0%	[1/94]
Date of Last Valuation	1/97	
Actuary	Coopers	
Funding Schedule	Increasing 3.0%	
Year Fully Funded	2022	

COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule reflect the COLA.

INVESTMENT

RETURN

1997	20.56%	[20.48%]
1993–1997	13.29%	
1985–1997	11.88%	
Actuarial Assumed Rate of Return	8.50%	
Average Investment Return Target	8.50%	

ASSET GROWTH

1997 Market Value	\$32 million
1996 Market Value	\$26 million
1995 Market Value	\$23 million
1994 Market Value	\$19 million

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

SOMERVILLE

ACTUARIAL

Funded Ratio	61.0%	[1/98]
	57.6%	[1/96]
Date of Last Valuation	1/98	
Actuary	Coopers	
Funding Schedule	Increasing 3.5%	
Year Fully Funded	2023	

COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule reflect the COLA.

INVESTMENT

RETURN

1997	18.18%
1993–1997	12.71%
1985–1997	11.25%
Actuarial Assumed Rate of Return	8.50%
Average Investment Return Target	8.95%

ASSET GROWTH

1997 Market Value	\$96 million
1996 Market Value	\$83 million
1995 Market Value	\$74 million
1994 Market Value	\$59 million

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

SOUTHBRIDGE

ACTUARIAL

Funded Ratio	47.0%	[1/97]
	40.0%	[1/95]
Date of Last Valuation	1/97	
Actuary	Coopers	
Funding Schedule	Increasing 4.5%	
Year Fully Funded	2028	

COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule reflect the COLA.

INVESTMENT

RETURN

1997	19.82%
1993–1997	13.48%
1985–1997	11.31%
Actuarial Assumed Rate of Return	8.00%
Average Investment Return Target	9.80%

ASSET GROWTH

1997 Market Value	\$13 million
1996 Market Value	\$11 million
1995 Market Value	\$8 million
1994 Market Value	\$7 million

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

SPRINGFIELD

ACTUARIAL

Funded Ratio	55.0% [1/98]
	55.2% [1/94]
Date of Last Valuation	1/98
Actuary	Coopers
Funding Schedule	Increasing 4.0%
Year Fully Funded	2023

COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule reflect the COLA.

INVESTMENT

RETURN

1997	18.86%
1993–1997	12.29%
1985–1997	12.13%
Actuarial Assumed Rate of Return	8.50%
Average Investment Return Target	8.50%

ASSET GROWTH

1997 Market Value	\$231 million
1996 Market Value	\$200 million
1995 Market Value	\$180 million
1994 Market Value	\$149 million

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

STONEHAM

ACTUARIAL

Funded Ratio	57.7% [1/97]
	62.7% [1/96]
Date of Last Valuation	1/97
Actuary	Coopers
Funding Schedule	Increasing 4.5%
Year Fully Funded	2020

COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule reflect the COLA.

INVESTMENT

RETURN

1997	16.51%
1993–1997	11.08%
1985–1997	11.48%
Actuarial Assumed Rate of Return	8.00%
Average Investment Return Target	8.00%

ASSET GROWTH

1997 Market Value	\$33 million
1996 Market Value	\$27 million
1995 Market Value	\$24 million
1994 Market Value	\$20 million

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

SWAMPSCOTT

ACTUARIAL

Funded Ratio	46.8% [1/98]
	52.0% [1/96]

Date of Last Valuation	1/98
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Actuary	Buck
----------------	------

Funding Schedule	Increasing 4.5%
-------------------------	-----------------

Year Fully Funded	2024
--------------------------	------

COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule reflect the COLA.

INVESTMENT

RETURN

1997	20.71%
-------------	--------

1993–1997	11.44%
------------------	--------

1985–1997	11.94%
------------------	--------

Actuarial Assumed Rate of Return	8.00%
---	-------

Average Investment Return Target	No Response
---	-------------

ASSET GROWTH

1997 Market Value	\$19 million
--------------------------	--------------

1996 Market Value	\$16 million
--------------------------	--------------

1995 Market Value	\$14 million
--------------------------	--------------

1994 Market Value	\$12 million
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AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

TAUNTON

ACTUARIAL

Funded Ratio	63.3% [1/98]
	50.2% [1/95]

Date of Last Valuation	1/98
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Actuary	Buck
----------------	------

Funding Schedule	Split, Increasing 4.5%
-------------------------	---------------------------

Year Fully Funded	2007 [Retired]
	2026 [Active]

COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule reflect the COLA.

INVESTMENT

RETURN

1997	20.84%
-------------	--------

1993–1997	12.98%
------------------	--------

1985–1997	13.31%
------------------	--------

Actuarial Assumed Rate of Return	8.50%
---	-------

Average Investment Return Target	9.63%
---	-------

ASSET GROWTH

1997 Market Value	\$81 million
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1996 Market Value	\$66 million
--------------------------	--------------

1995 Market Value	\$57 million
--------------------------	--------------

1994 Market Value	\$44 million
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AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

WAKEFIELD

ACTUARIAL

Funded Ratio	57.3% [1/97] 60.0% [1/96]
Date of Last Valuation	1/97
Actuary	Stone
Funding Schedule	Increasing 4.5%
Year Fully Funded	2028

COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule reflect the COLA.

INVESTMENT

RETURN

1997	19.79% [18.42%]
1993–1997	15.43%
1985–1997	12.92%
Actuarial Assumed Rate of Return	8.00%
Average Investment Return Target	8.96%

ASSET GROWTH

1997 Market Value	\$43 million
1996 Market Value	\$36 million
1995 Market Value	\$30 million
1994 Market Value	\$24 million

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

WALTHAM

ACTUARIAL

Funded Ratio	54.9% [1/97] 52.2% [1/94]
Date of Last Valuation	1/97
Actuary	Coopers
Funding Schedule	Increasing 3.0%
Year Fully Funded	2028

COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule reflect the COLA.

INVESTMENT

RETURN

1997	21.80%
1993–1997	13.65%
1985–1997	12.99%
Actuarial Assumed Rate of Return	8.00%
Average Investment Return Target	11.45%

ASSET GROWTH

1997 Market Value	\$101 million
1996 Market Value	\$84 million
1995 Market Value	\$74 million
1994 Market Value	\$62 million

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

WATERTOWN

ACTUARIAL

Funded Ratio	64.0%	[1/98]
	58.7%	[1/96]
Date of Last Valuation	1/98	
Actuary	Coopers	
Funding Schedule	Level	
Year Fully Funded	2013	

COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule reflect the COLA.

INVESTMENT

RETURN

1997	17.75%
1993–1997	13.17%
1985–1997	11.34%
Actuarial Assumed Rate of Return	8.00%
Average Investment Return Target	8.50%

ASSET GROWTH

1997 Market Value	\$52 million
1996 Market Value	\$44 million
1995 Market Value	\$39 million
1994 Market Value	\$31 million

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

WEBSTER

ACTUARIAL

Funded Ratio	56.1%	[1/96]
	42.2%	[1/92]
Date of Last Valuation	1/96	
Actuary	PERA	
Funding Schedule	Split, Increasing 4.5%	
Year Fully Funded	2008	[Retired]
	2025	[Active]

COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule do not reflect the COLA.

INVESTMENT

RETURN

1997	14.16%
1993–1997	12.06%
1985–1997	9.86%
Actuarial Assumed Rate of Return	8.00%
Average Investment Return Target	*****

ASSET GROWTH

1997 Market Value	\$10 million
1996 Market Value	\$8 million
1995 Market Value	\$8 million
1994 Market Value	\$6 million

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

WELLESLEY

ACTUARIAL

Funded Ratio	100.6% [1/97] 100.1% [1/95]
Date of Last Valuation	1/97
Actuary	Coopers
Funding Schedule	No unfunded liability Normal cost
Year Fully Funded	N/A

COLA

The System has accepted the COLA legislation. The funded ratio reflects the COLA.

INVESTMENT

RETURN

1997	21.83%
1993–1997	16.14%
1985–1997	14.59%
Actuarial Assumed Rate of Return	7.50%
Average Investment Return Target	7.50%

ASSET GROWTH

1997 Market Value	\$102 million
1996 Market Value	\$87 million
1995 Market Value	\$76 million
1994 Market Value	\$62 million

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

WEST SPRINGFIELD

ACTUARIAL

Funded Ratio	60.0% [1/98] 48.1% [1/95]
Date of Last Valuation	1/98
Actuary	Stone
Funding Schedule	Increasing 4.5%
Year Fully Funded	2028

COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule reflect the COLA.

INVESTMENT

RETURN

1997	19.43%
1993–1997	11.06%
1985–1997	10.82%
Actuarial Assumed Rate of Return	8.00%
Average Investment Return Target	8.30%

ASSET GROWTH

1997 Market Value	\$32 million
1996 Market Value	\$27 million
1995 Market Value	\$24 million
1994 Market Value	\$19 million

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

WESTFIELD

ACTUARIAL

Funded Ratio	70.3% [1/97] 66.0% [1/94]
Date of Last Valuation	1/97
Actuary	PERAC
Funding Schedule	Increasing 4.0%
Year Fully Funded	2028

COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule reflect the COLA.

INVESTMENT

RETURN

1997	20.94%
1993–1997	13.49%
1985–1997	12.31%
Actuarial Assumed Rate of Return	8.00%
Average Investment Return Target	10.10%

ASSET GROWTH

1997 Market Value	\$76 million
1996 Market Value	\$62 million
1995 Market Value	\$54 million
1994 Market Value	\$43 million

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

WEYMOUTH

ACTUARIAL

Funded Ratio	55.3% [1/97] 50.1% [1/94]
Date of Last Valuation	1/97
Actuary	Stone
Funding Schedule	Increasing 3.5%
Year Fully Funded	2028

COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule reflect the COLA.

INVESTMENT

RETURN

1997	19.66% [18.26%]
1993–1997	15.57%
1985–1997	13.56%
Actuarial Assumed Rate of Return	8.00%
Average Investment Return Target	8.96%

ASSET GROWTH

1997 Market Value	\$67 million
1996 Market Value	\$56 million
1995 Market Value	\$47 million
1994 Market Value	\$38 million

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

WINCHESTER

ACTUARIAL

Funded Ratio	81.3% [1/98]
	72.2% [1/96]

Date of Last Valuation	1/98
Actuary	Coopers
Funding Schedule	Level

Year Fully Funded	2013
--------------------------	------

COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule reflect the COLA.

INVESTMENT

RETURN

1997	21.59%
1993–1997	13.52%
1985–1997	12.51%
Actuarial Assumed Rate of Return	8.00%
Average Investment Return Target	8.70%

ASSET GROWTH

1997 Market Value	\$44 million
1996 Market Value	\$36 million
1995 Market Value	\$32 million
1994 Market Value	\$26 million

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

WINTHROP

ACTUARIAL

Funded Ratio	60.0% [1/97]
	51.2% [1/95]

Date of Last Valuation	1/97
Actuary	John Hancock
Funding Schedule	Increasing 4.5%

Year Fully Funded	2009 [non-COLA]
	2027 [COLA]

COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule reflect the COLA.

INVESTMENT

RETURN

1997	22.15%
1993–1997	15.10%
1985–1997	12.64%
Actuarial Assumed Rate of Return	8.25%
Average Investment Return Target	10.00%

ASSET GROWTH

1997 Market Value	\$19 million
1996 Market Value	\$16 million
1995 Market Value	\$14 million
1994 Market Value	\$11 million

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

WO BURN

ACTUARIAL

Funded Ratio	70.9% [1/98] 47.0% [1/95]
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Date of Last Valuation	1/98
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Actuary	Coopers
----------------	---------

Funding Schedule	Increasing 4.0%
-------------------------	-----------------

Year Fully Funded	2023
--------------------------	------

COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule reflect the COLA.

INVESTMENT

RETURN

1997	17.43%
-------------	--------

1993–1997	11.91%
------------------	--------

1985–1997	12.44%
------------------	--------

Actuarial Assumed Rate of Return	7.75%
---	-------

Average Investment Return Target	7.75%
---	-------

ASSET GROWTH

1997 Market Value	\$54 million
--------------------------	--------------

1996 Market Value	\$43 million
--------------------------	--------------

1995 Market Value	\$41 million
--------------------------	--------------

1994 Market Value	\$31 million
--------------------------	--------------

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

WORCESTER

ACTUARIAL

Funded Ratio	56.0% [1/98] 53.3% [1/96]
---------------------	------------------------------

Date of Last Valuation	1/98
-------------------------------	------

Actuary	PERA
----------------	------

Funding Schedule	Increasing .75% and 4.5%
-------------------------	-----------------------------

Year Fully Funded	2028 [non-COLA] 2028 [COLA]
--------------------------	--------------------------------

COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule reflect the COLA.

INVESTMENT

RETURN

1997	16.90%
-------------	--------

1993–1997	12.86%
------------------	--------

1985–1997	11.61%
------------------	--------

Actuarial Assumed Rate of Return	8.50%
---	-------

Average Investment Return Target	8.51%
---	-------

ASSET GROWTH

1997 Market Value	\$263 million
--------------------------	---------------

1996 Market Value	\$228 million
--------------------------	---------------

1995 Market Value	\$201 million
--------------------------	---------------

1994 Market Value	\$168 million
--------------------------	---------------

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

STATE

ACTUARIAL

Funded Ratio	66.3% [1/96]
	58.2% [1/95]

Date of Last Valuation	1/96
-------------------------------	------

Actuary	PERA
----------------	------

Funding Schedule	Level
-------------------------	-------

Year Fully Funded	2017
--------------------------	------

COLA

COLAs are determined annually by the legislature.

INVESTMENT

RETURN

1997	18.50%
-------------	--------

1993–1997	14.04%
------------------	--------

1985–1997	12.50%
------------------	--------

Actuarial Assumed Rate of Return	8.25%
---	-------

Average Investment Return Target	8.96%
---	-------

ASSET GROWTH

1997 Market Value	\$10.2 billion
--------------------------	----------------

1996 Market Value	\$8.5 billion
--------------------------	---------------

1995 Market Value	\$7.4 billion
--------------------------	---------------

1994 Market Value	\$5.9 billion
--------------------------	---------------

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

STATE TEACHERS

ACTUARIAL

Funded Ratio	73.7% [1/96]
	61.9% [1/95]

Date of Last Valuation	1/96
-------------------------------	------

Actuary	PERA
----------------	------

Funding Schedule	Level
-------------------------	-------

Year Fully Funded	2017
--------------------------	------

COLA

COLAs are determined annually by the legislature.

INVESTMENT

RETURN

1997	18.51%
-------------	--------

1993–1997	13.83%
------------------	--------

1985–1997	12.52%
------------------	--------

Actuarial Assumed Rate of Return	8.25%
---	-------

Average Investment Return Target	8.96%
---	-------

ASSET GROWTH

1997 Market Value	\$10.5 billion
--------------------------	----------------

1996 Market Value	\$8.8 billion
--------------------------	---------------

1995 Market Value	\$7.6 billion
--------------------------	---------------

1994 Market Value	\$6.0 billion
--------------------------	---------------

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

BARNSTABLE COUNTY

ACTUARIAL

Funded Ratio	56.9% [1/96] 47.8% [1/94]
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Date of Last Valuation	1/96
-------------------------------	------

Actuary	PERA
----------------	------

Funding Schedule	Increasing 4.5%
-------------------------	-----------------

Year Fully Funded	2028
--------------------------	------

COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule do not reflect the COLA.

INVESTMENT

RETURN

1997	19.81%
-------------	--------

1993–1997	12.59%
------------------	--------

1985–1997	10.05%
------------------	--------

Actuarial Assumed Rate of Return	8.00%
---	-------

Average Investment Return Target	9.20%
---	-------

ASSET GROWTH

1997 Market Value	\$236 million
--------------------------	---------------

1996 Market Value	\$190 million
--------------------------	---------------

1995 Market Value	\$158 million
--------------------------	---------------

1994 Market Value	\$121 million
--------------------------	---------------

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

BERKSHIRE COUNTY

ACTUARIAL

Funded Ratio	66.3% [1/96] 56.3% [1/93]
---------------------	------------------------------

Date of Last Valuation	1/96
-------------------------------	------

Actuary	PERA
----------------	------

Funding Schedule	Increasing 4.5%
-------------------------	-----------------

Year Fully Funded	2015
--------------------------	------

COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule do not reflect the COLA.

INVESTMENT

RETURN

1997	18.95%
-------------	--------

1993–1997	12.31%
------------------	--------

1985–1997	11.52%
------------------	--------

Actuarial Assumed Rate of Return	8.00%
---	-------

Average Investment Return Target	8.96%
---	-------

ASSET GROWTH

1997 Market Value	\$57 million
--------------------------	--------------

1996 Market Value	\$47 million
--------------------------	--------------

1995 Market Value	\$42 million
--------------------------	--------------

1994 Market Value	\$33 million
--------------------------	--------------

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

BRISTOL COUNTY

ACTUARIAL

Funded Ratio	56.2%	[1/96]
	55.1%	[1/94]
Date of Last Valuation	1/96	
Actuary	PERA	
Funding Schedule	Split,	
	Increasing 4.5%	
Year Fully Funded	2010	[Retired]
	2027	[Active]

COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule do not reflect the COLA.

INVESTMENT

RETURN

1997	26.64%
1993–1997	13.52%
1985–1997	11.64%
Actuarial Assumed Rate of Return	8.50%
Average Investment Return Target	8.50%

ASSET GROWTH

1997 Market Value	\$185 million
1996 Market Value	\$143 million
1995 Market Value	\$125 million
1994 Market Value	\$95 million

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

DUKES COUNTY

ACTUARIAL

Funded Ratio	51.5%	[1/96]
	40.8%	[1/93]
Date of Last Valuation	1/96	
Actuary	PERA	
Funding Schedule	Increasing 4.5%	
Year Fully Funded	2028	

COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule do not reflect the COLA.

INVESTMENT

RETURN

1997	19.51%
1993–1997	12.59%
1985–1997	9.66%
Actuarial Assumed Rate of Return	8.00%
Average Investment Return Target	8.58%

ASSET GROWTH

1997 Market Value	\$21 million
1996 Market Value	\$17 million
1995 Market Value	\$14 million
1994 Market Value	\$10 million

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

ESSEX COUNTY

ACTUARIAL

Funded Ratio	60.5%	[1/98]
	59.9%	[1/97]
Date of Last Valuation	1/98	
Actuary	Segal	
Funding Schedule	Increasing 4.5%	
Year Fully Funded	2028	[non-COLA]
	2038	[COLA]

COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule reflect the COLA.

INVESTMENT

RETURN

1997	18.96%
1993–1997	12.67%
1985–1997	12.10%
Actuarial Assumed Rate of Return	8.50%
Average Investment Return Target	9.21%

ASSET GROWTH

1997 Market Value	\$152 million
1996 Market Value	\$122 million
1995 Market Value	\$108 million
1994 Market Value	\$85 million

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

FRANKLIN COUNTY

ACTUARIAL

Funded Ratio	55.4%	[1/90]
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Date of Last Valuation	1/90
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Actuary	KPMG
----------------	------

Funding Schedule	Level
-------------------------	-------

Year Fully Funded	2022
--------------------------	------

COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule do not reflect the COLA.

INVESTMENT

RETURN

1997	19.14%
1993–1997	11.71%
1985–1997	10.46%
Actuarial Assumed Rate of Return	8.00%
Average Investment Return Target	No Response

ASSET GROWTH

1997 Market Value	\$31 million
1996 Market Value	\$26 million
1995 Market Value	\$24 million
1994 Market Value	\$18 million

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

HAMPDEN COUNTY

ACTUARIAL

Funded Ratio	63.4% [1/98] 46.8% [1/95]
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Date of Last Valuation	1/98
-------------------------------	------

Actuary	Coopers
----------------	---------

Funding Schedule	Increasing 4.5%
-------------------------	-----------------

Year Fully Funded	2028
--------------------------	------

COLA

The System has accepted the COL A legislation. The most recent funded ratio and the funding schedule reflect the COLA.

INVESTMENT

RETURN

1997	20.05%
-------------	--------

1993–1997	12.60%
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1985–1997	11.82%
------------------	--------

Actuarial Assumed Rate of Return	8.00%
---	-------

Average Investment Return Target	9.06%
---	-------

ASSET GROWTH

1997 Market Value	\$146 million
--------------------------	---------------

1996 Market Value	\$119 million
--------------------------	---------------

1995 Market Value	\$105 million
--------------------------	---------------

1994 Market Value	\$82 million
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AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

HAMPSHIRE COUNTY

ACTUARIAL

Funded Ratio	47.6% [1/97] 52.6% [1/96]
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Date of Last Valuation	1/97
-------------------------------	------

Actuary	PERAC
----------------	-------

Funding Schedule	Increasing 4.5%
-------------------------	-----------------

Year Fully Funded	2028
--------------------------	------

COLA

The System has accepted the COLA legislation. Although the most recent funded ratio reflects the COLA, the funding schedule has not been updated to reflect its impact.

INVESTMENT

RETURN

1997	15.18%
-------------	--------

1993–1997	12.46%
------------------	--------

1985–1997	11.16%
------------------	--------

Actuarial Assumed Rate of Return	8.00%
---	-------

Average Investment Return Target	8.21%
---	-------

ASSET GROWTH

1997 Market Value	\$88 million
--------------------------	--------------

1996 Market Value	\$75 million
--------------------------	--------------

1995 Market Value	\$65 million
--------------------------	--------------

1994 Market Value	\$51 million
--------------------------	--------------

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

MIDDLESEX COUNTY

ACTUARIAL

Funded Ratio	62.5% [1/98] 63.7% [1/97]
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Date of Last Valuation	1/98
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Actuary	Coopers
----------------	---------

Funding Schedule	Increasing 4.5%
-------------------------	-----------------

Year Fully Funded	2028
--------------------------	------

COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule reflect the COLA.

INVESTMENT

RETURN

1997	13.85%
-------------	--------

1993–1997	12.37%
------------------	--------

1985–1997	12.17%
------------------	--------

Actuarial Assumed Rate of Return	8.50%
---	-------

Average Investment Return Target	10.81%
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ASSET GROWTH

1997 Market Value	\$476 million
--------------------------	---------------

1996 Market Value	\$424 million
--------------------------	---------------

1995 Market Value	\$376 million
--------------------------	---------------

1994 Market Value	\$307 million
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AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

NORFOLK COUNTY

ACTUARIAL

Funded Ratio	65.9% [1/97] 55.5% [1/95]
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Date of Last Valuation	1/97
-------------------------------	------

Actuary	Coopers
----------------	---------

Funding Schedule	Increasing 4.5%
-------------------------	-----------------

Year Fully Funded	2028
--------------------------	------

COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule do not reflect the COLA.

INVESTMENT

RETURN

1997	17.84%
-------------	--------

1993–1997	13.30%
------------------	--------

1985–1997	12.18%
------------------	--------

Actuarial Assumed Rate of Return	8.50%
---	-------

Average Investment Return Target	11.48%
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ASSET GROWTH

1997 Market Value	\$313 million
--------------------------	---------------

1996 Market Value	\$262 million
--------------------------	---------------

1995 Market Value	\$224 million
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1994 Market Value	\$179 million
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AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

PLYMOUTH COUNTY

ACTUARIAL

Funded Ratio	64.2% [1/98] 62.0% [1/96]
Date of Last Valuation	1/98
Actuary	Coopers
Funding Schedule	Increasing 4.5%
Year Fully Funded	2027

COLA

The System has accepted the COLA legislation. The most recent funded ratio and the funding schedule reflect the COLA.

INVESTMENT

RETURN

1997	17.20%
1993–1997	13.81%
1985–1997	12.44%
Actuarial Assumed Rate of Return	8.50%
Average Investment Return Target	**

ASSET GROWTH

1997 Market Value	\$314 million
1996 Market Value	\$266 million
1995 Market Value	\$226 million
1994 Market Value	\$181 million

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

WORCESTER COUNTY

ACTUARIAL

Funded Ratio	49.6% [1/97] 55.6% [1/95]
Date of Last Valuation	1/97
Actuary	PERAC
Funding Schedule	Split, Increasing 4.5%
Year Fully Funded	2006 [Retired] 2023 [Active]

COLA

The System has accepted the COLA legislation. Although the most recent funded ratio reflects the COLA, the funding schedule has not been updated to reflect its impact.

INVESTMENT

RETURN

1997	21.80%
1993–1997	12.47%
1985–1997	11.65%
Actuarial Assumed Rate of Return	8.00%
Average Investment Return Target	9.70%

ASSET GROWTH

1997 Market Value	\$238 million
1996 Market Value	\$195 million
1995 Market Value	\$169 million
1994 Market Value	\$136 million

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Retirement Board's most recent audit.

PENSION RESERVES INVESTMENT MANAGEMENT (PRIM) BOARD

ALL SYSTEMS

INVESTMENT

RETURN

1997	18.43%
1993–1997	14.94%
1985–1997	12.81%
Actuarial Assumed Rate of Return	N/A
Average Investment Return Target	8.96%

ASSET GROWTH

1997 Market Value	\$21.3 billion
1996 Market Value	\$8.5 billion
1995 Market Value	\$6.9 billion
1994 Market Value	\$4.9 billion

INVESTMENT

RETURN

1997	18.69%
1993–1997	13.44%
1985–1997	12.18%
Actuarial Assumed Rate of Return	N/A
Average Investment Return Target	N/A

ASSET GROWTH

1997 Market Value	\$31.3 billion
1996 Market Value	\$26.2 billion
1995 Market Value	\$22.7 billion
1994 Market Value	\$18.2 billion

AUDIT FINDINGS

Findings

In further reports, this section will provide brief comments on significant findings from the Board's most recent audit.

NOTES TO BOARD PROFILES

INVESTMENT

*	The Board has recently engaged the services of Alex Brown as consultants and are undergoing the approval process.
**	To outperform by 1% or greater a composite performance index consisting of 30% of the S&P 500 index and 70% of the Government/Corporate Bond index.
***	Bonds 2% premium and Stock 5% premium over long term inflation.
****	Real Rate of Return
*****	To outperform by 1% or greater a composite performance index consisting of 40% of the S&P 500 index and 60% of the Government/Corporate Bond index.
Note:	Two return numbers are listed for systems that have participated in or are participating in PRIT (Dedham, Fairhaven, Gardner, Hingham, Milton, Minuteman, Montague, Needham, Northbridge, Reading, Saugus, Shrewsbury, Wakefield, and Weymouth) and as a result received state funds in 1997. The number in brackets represents the return on investment. The unbracketed number includes the impact of state funds provided to those systems.



Staff

Administration

Robert F. Stalnaker, *Executive Director*
 Joseph I. Martin, *Deputy Executive Director*
 Joseph E. Connarton, *Deputy Executive Director*
 Ann O'Brien, *Assistant Executive Director*
 Caroline J. Carcia, *Human Resource Specialist*
 Julie A. Gile, *Executive Secretary*
 Leslie Tougas, *Administrative Assistant to Joseph Martin*
 Mandi Kmiec, *Administrative Assistant*

Actuarial Unit

James Lamenzo, *Actuary*
 John Boorack, *Actuarial Analyst*
 Stella Ren, *Actuarial Analyst*

Communications Unit

Sarah Kelly, *Communications Director*
 Frank E. Valeri, *Legislative Liaison/Press Liaison*
 Jonathan L. Follett, *Publications Specialist*
 Isabelle N. Tran, *Webmaster*

Disability Unit

Barbara Lagorio, *Director of Disability*
 Pat Lowery, *Assistant Director of Disability*
 Maria Pugatch, *Nurse Case Manager I*
 Carol McLaughlin, *Nurse Case Manager I*
 Kate Hogan, *Case Manager II*
 Victoria Geschwind, *Case Manager I*
 Cheryl Sandler, *Case Manager I*
 Regina Manning, *Administrative Assistant*

Finance Unit

James Waldman, *Director*
 Amy Fu, *Accountant*
 Lillian Vo, *Accounting Clerk*

AUDIT STAFF

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 Brian Bowler, *Computer Auditor*
 Anthony Cannava, *Retirement Examiner*
 Harry Chadwick, *Retirement Examiner*
 Richard Greco, *Retirement Examiner*
 Charles McQuade, *Retirement Examiner*

Fraud Unit

Robert A. Panico, *Fraud Investigation Manager*
 Sandra Jones, *Administrative Assistant*

Information Systems

James F. Lawson, *Information Systems Manager*
 Tony Tse, *LAN Administrator*

Investment Unit

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 Victoria Marcorelle, *Assistant Director*
 Rose Cipriani, *Administrative Assistant*
 Rosamond Cotter, *Accountant*
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