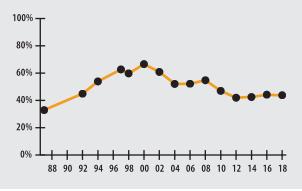
Fitchburg

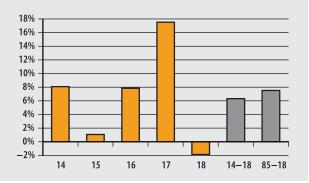
166 Boulder Drive, Suite 108 Fitchburg, MA 01420 Phone 978-829-1843 Fax 978-345-9698 Board Members Calvin Brooks*, Ellen Jerszyk, John Curran, Thomas Dateo, Norman LeBlanc *indicates Chairperson

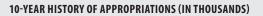
Board Administrator Tina Schneider Board Meeting Fourth Tuesday of the month at 10:00 am

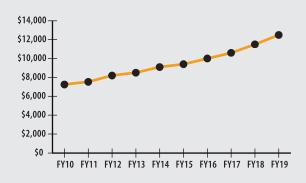
FUNDED RATIO (1987-2018)



INVESTMENT RETURN (2014-2018, 5 YEAR AND 34 YEAR AVERAGES)







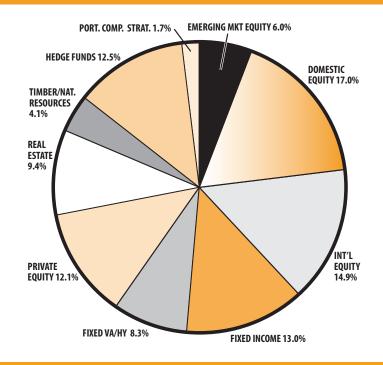
INVESTMENT RETURN HISTORY

<u>34 years 2018</u>	<u>33 years 2017</u>	<u>32 years 2016</u>
7.54%	7.84%	7.55%
<u>10 years 2018</u>	<u>10 years 2017</u>	<u>10 years 2016</u>
8.57%	5.39%	4.68%
<u>5 years 2018</u>	<u>5 years 2017</u>	<u>5 years 2016</u>
6.34%	9.70%	8.90%

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Funded Ratio		43.8%
Date of Last Valuation		1/1/18
Actuary		Stone
Assumed Rate of Return		7.25%
Funding Schedule		Varies Total Increasing
Year Fully Funded	2033	
Unfunded Liability	\$147.1 M	
Total Pension Appropriation (Fiscal 2019)		\$12.5 M
	ACTIVE	RETIRED
Number of Members	665	587
Total Payroll/Benefit	\$32.6 M	\$15.5 M
Average Salary/Benefit	\$49,000	\$26,500
Average Age	46	73
Average Service	11.4 years	NA

ASSET ALLOCATION (12/31/18)



► 2018 Return ► 2018 Market Value \$	-1.85% 116.0 M
 Total Amount of Refund Due 	\$0.00
Number of Excess Earners	0
Number Who Reported Earnings	12
Number of Disability Retirees	52
EARNED INCOME OF DISABILITY RETIREES (2017)	

▶ 2014-2018 (Annualized)	6.34%
▶ 1985-2018 (Annualized)	7.54%