



# Michigan Public School Employees Retirement System

Pension Actuarial Valuation Results  
as of September 30, 2007

**GRS**

Gabriel Roeder Smith & Company  
Consultants & Actuaries  
[www.gabrielroeder.com](http://www.gabrielroeder.com)

# Actuarial Valuation Process

*Member Data*

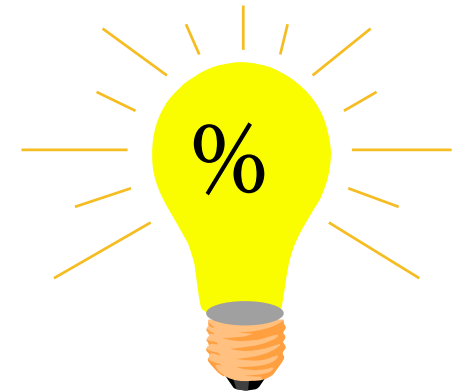


*Financial Data*



**Actuarial  
Valuation**

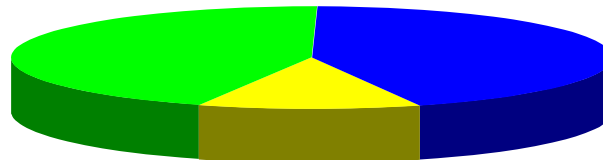
*Actuarial Assumptions*



*Plan Provisions*

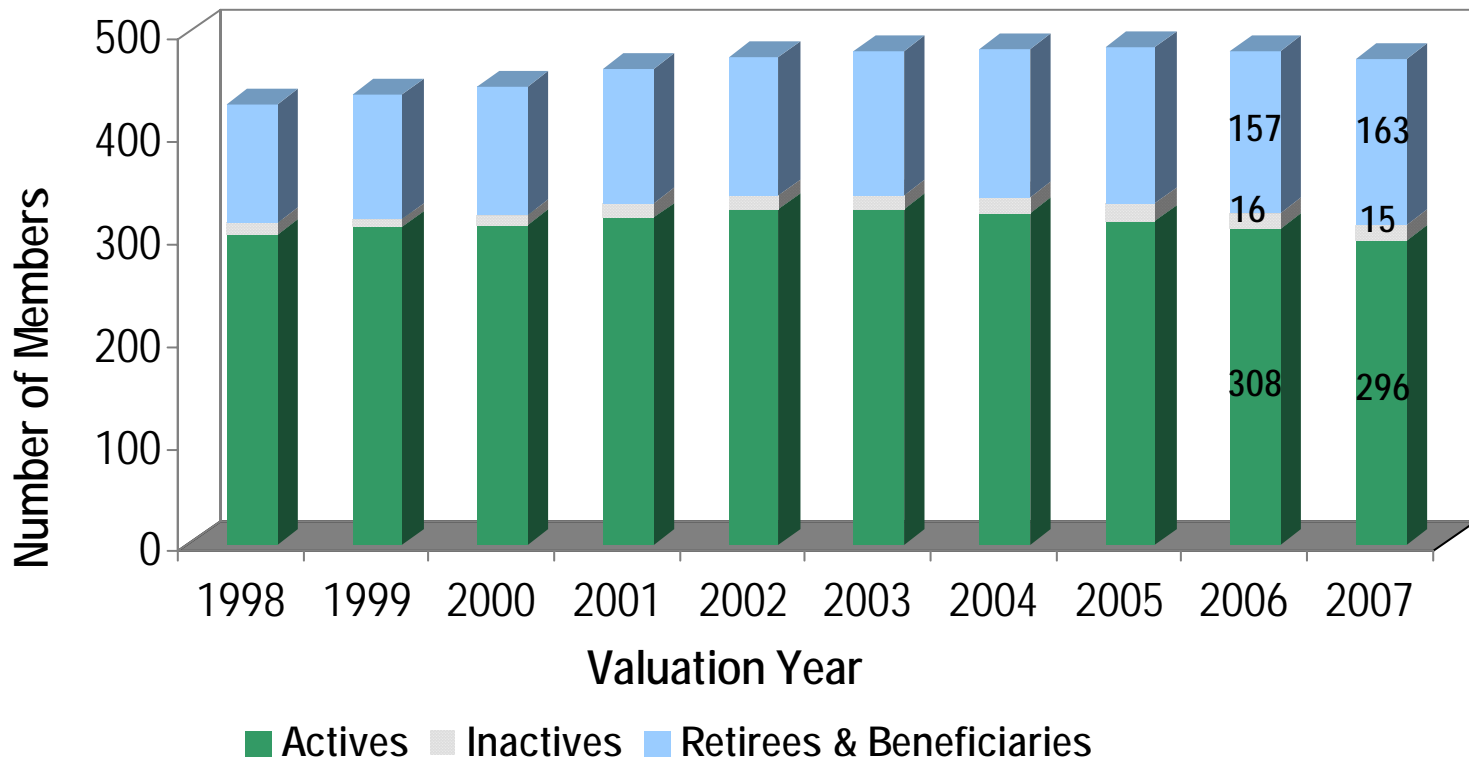


*Actuarial Cost Method*



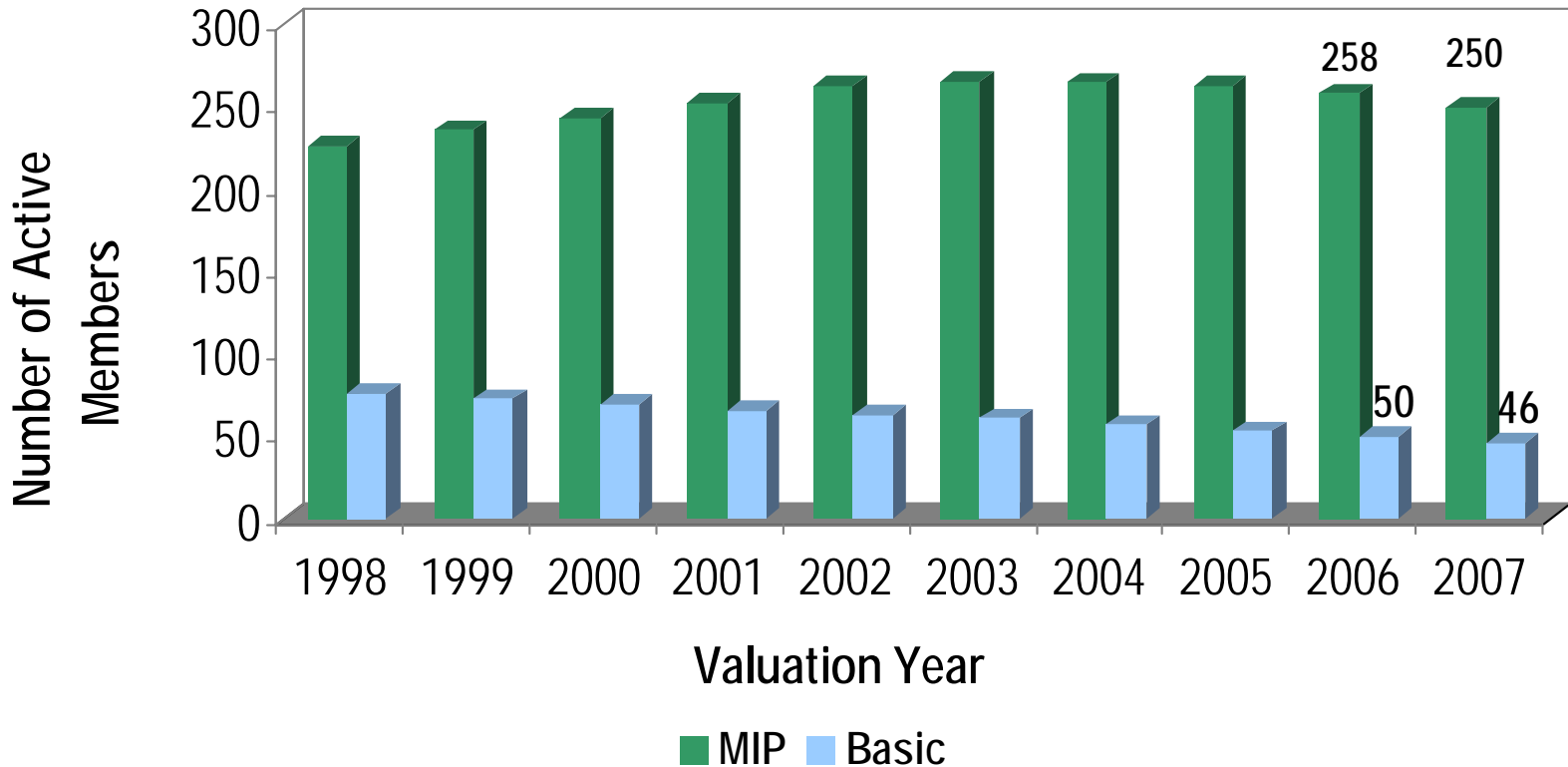
# Membership Data

(Counts in Thousands)



# Active Members by Plan

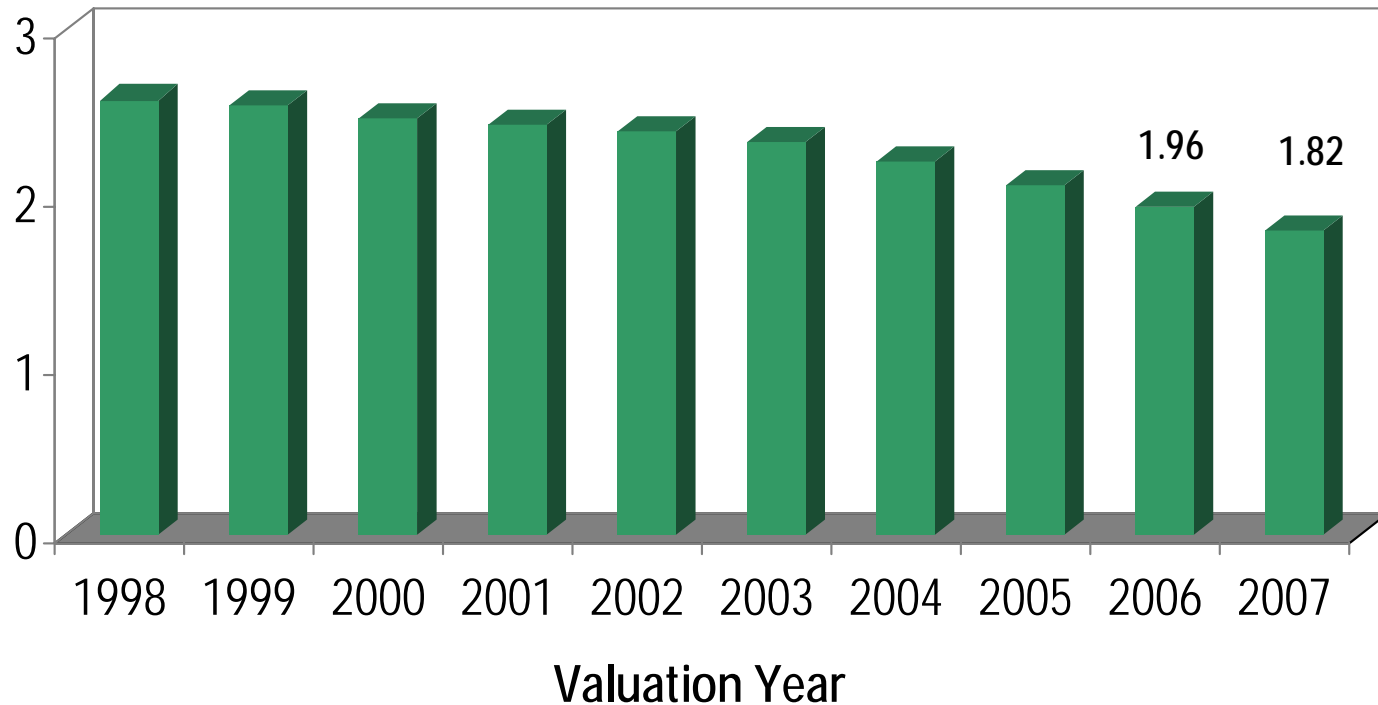
(Counts in Thousands)





# Ratio of Active Members to Pension Benefit Recipients

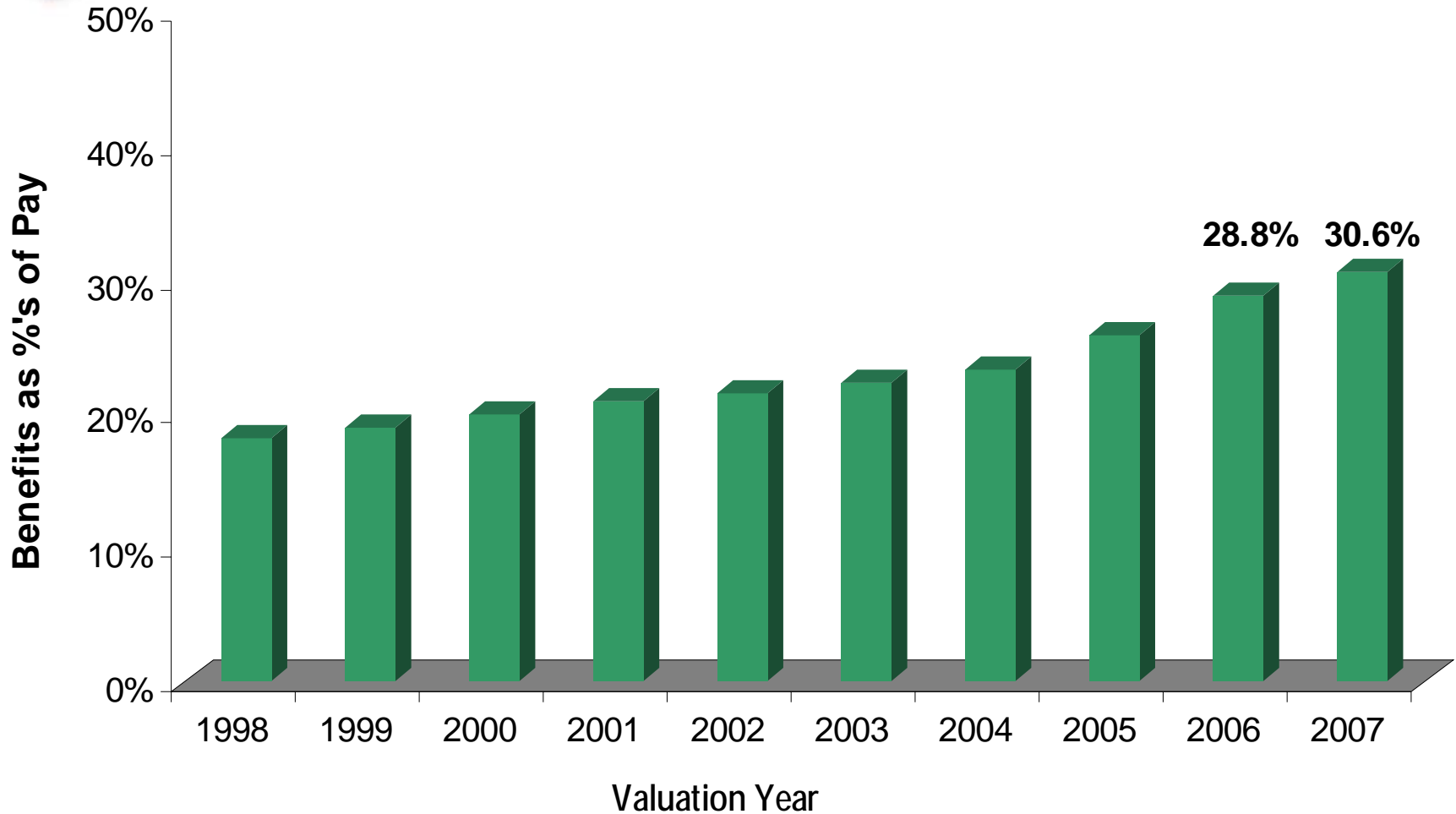
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# Pension Benefits Expressed as %'s of Active Member Pay

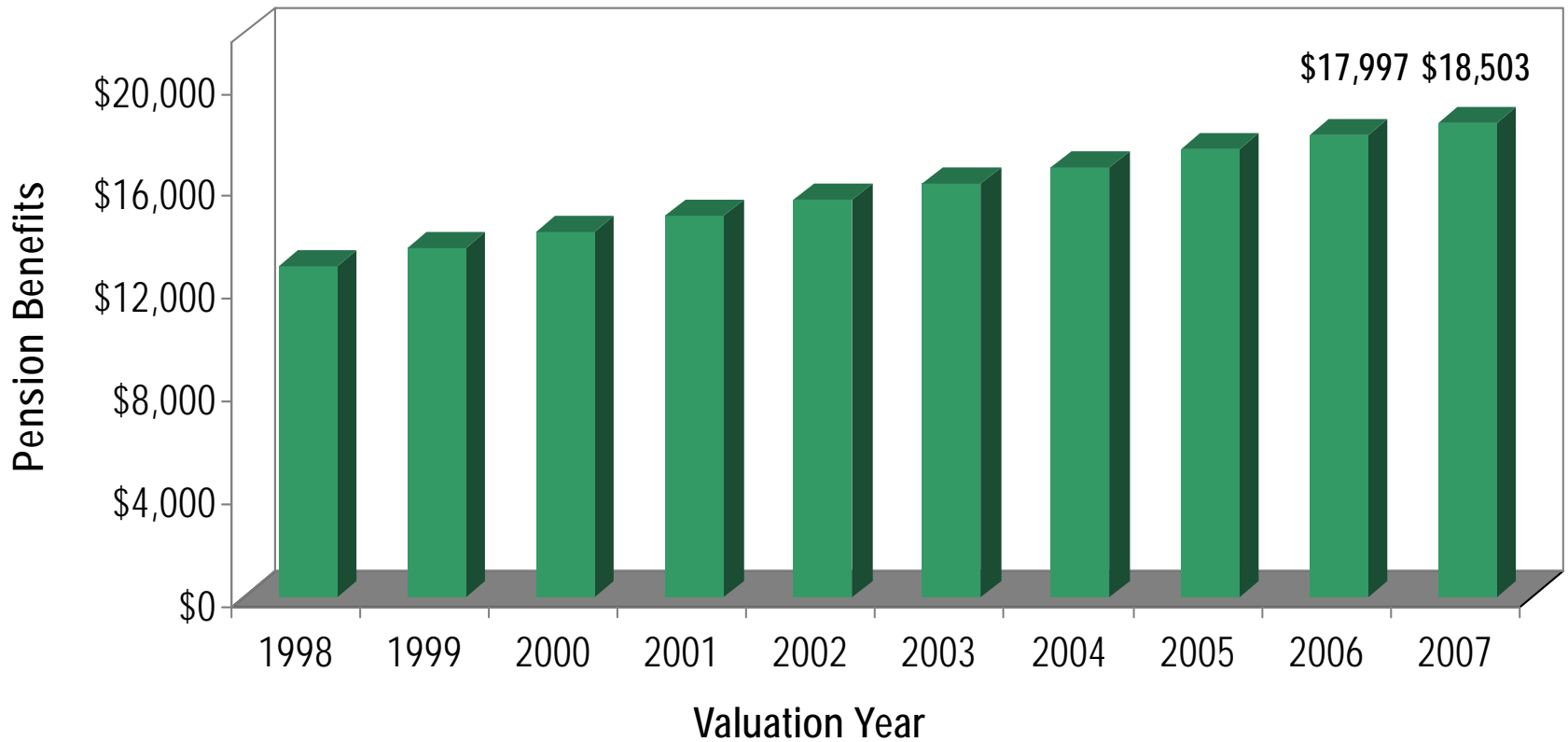
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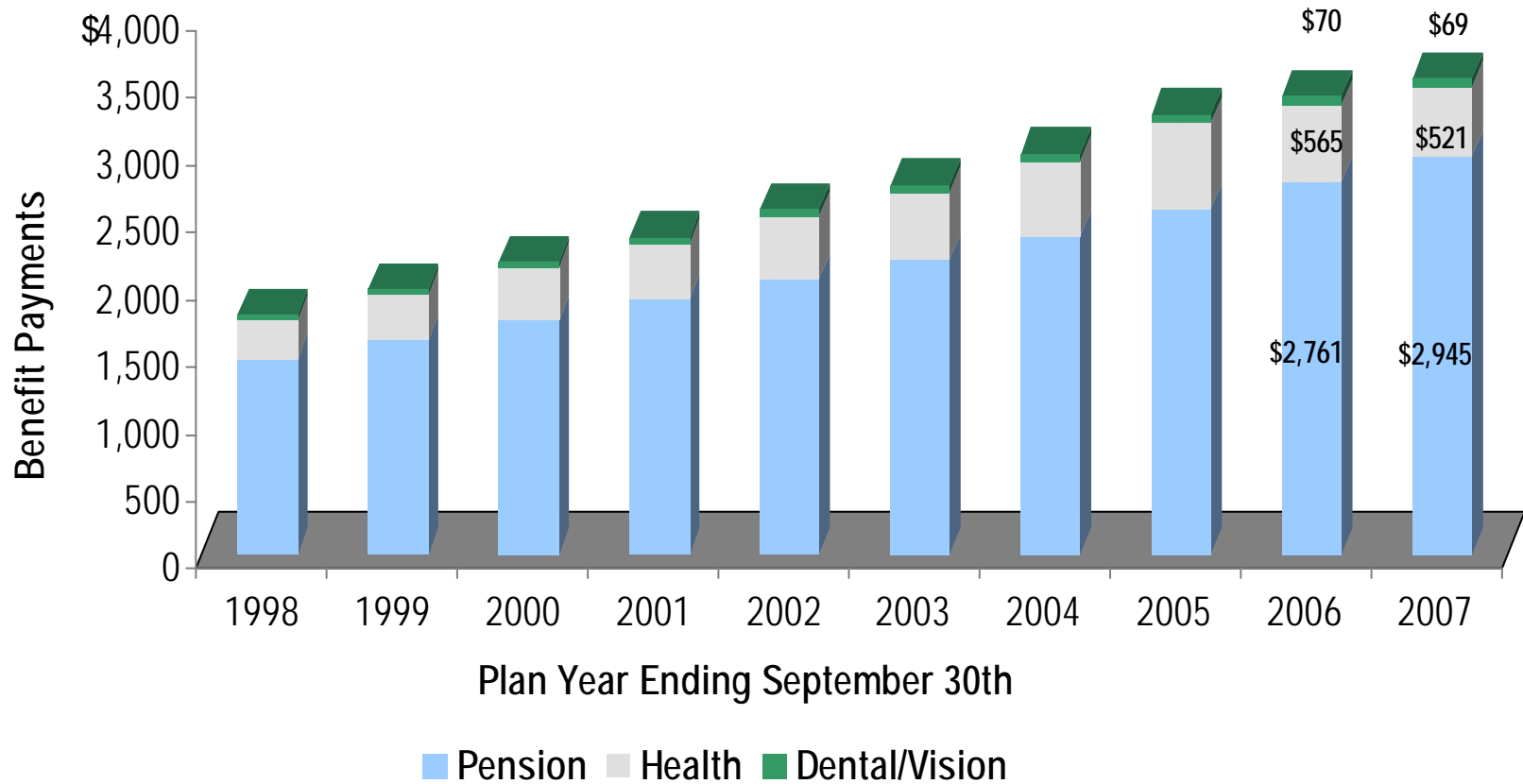
# Average Annual Pensions

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# Benefit Payments by Fiscal Year

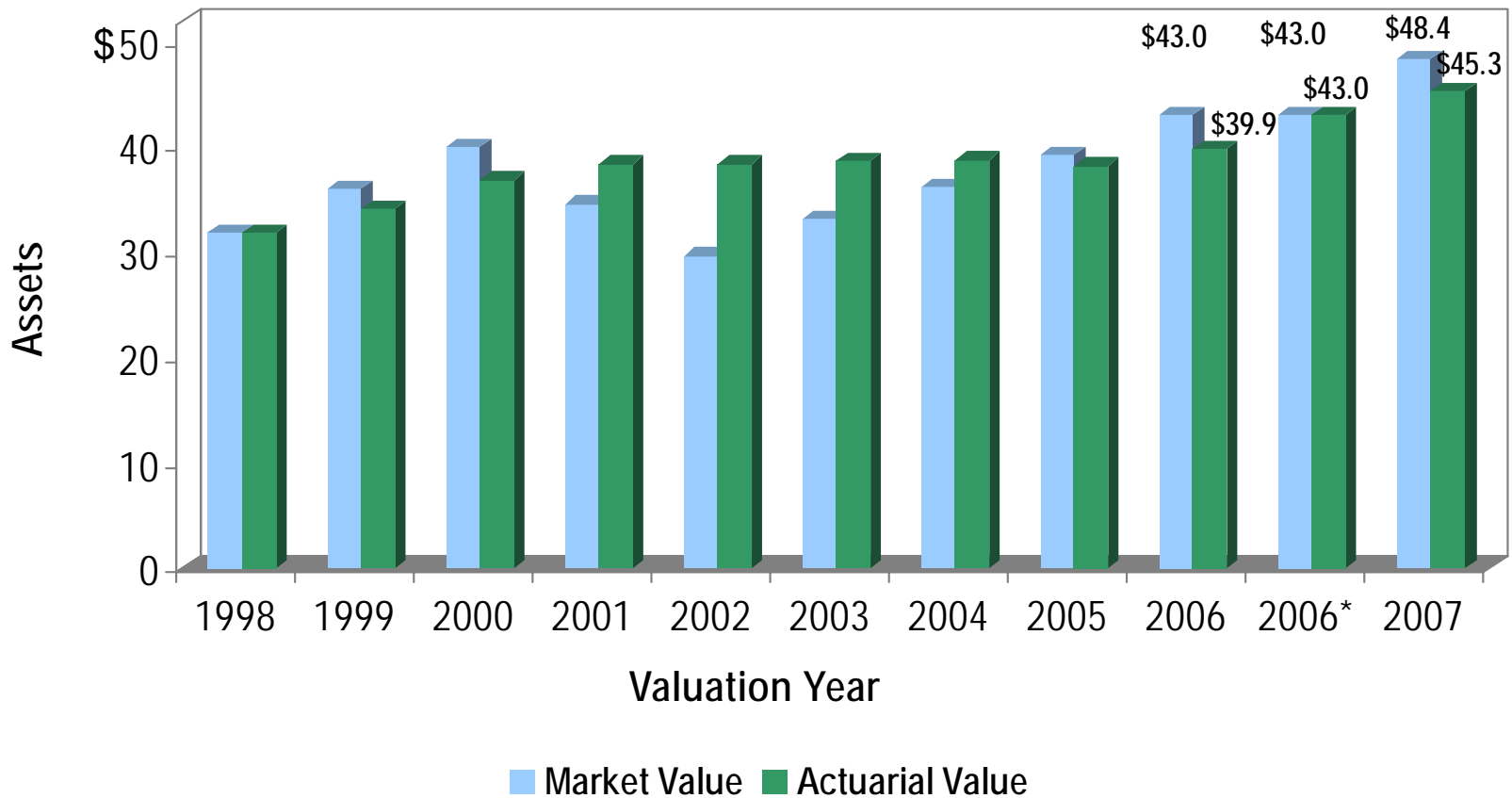
(Amounts in Millions)





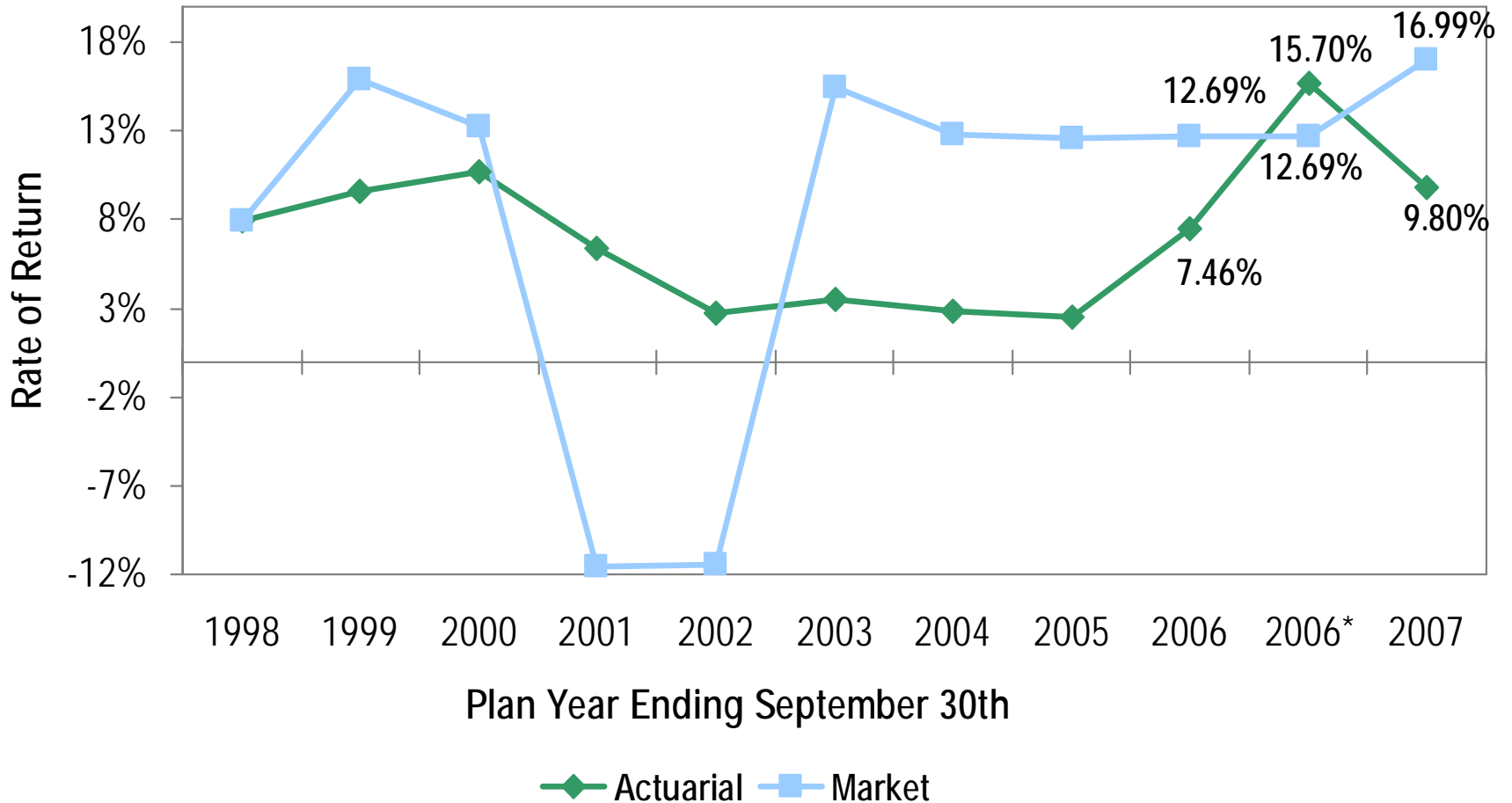
# Growth of Pension Assets

(Amounts in Billions)



\* After adjusting to market value.

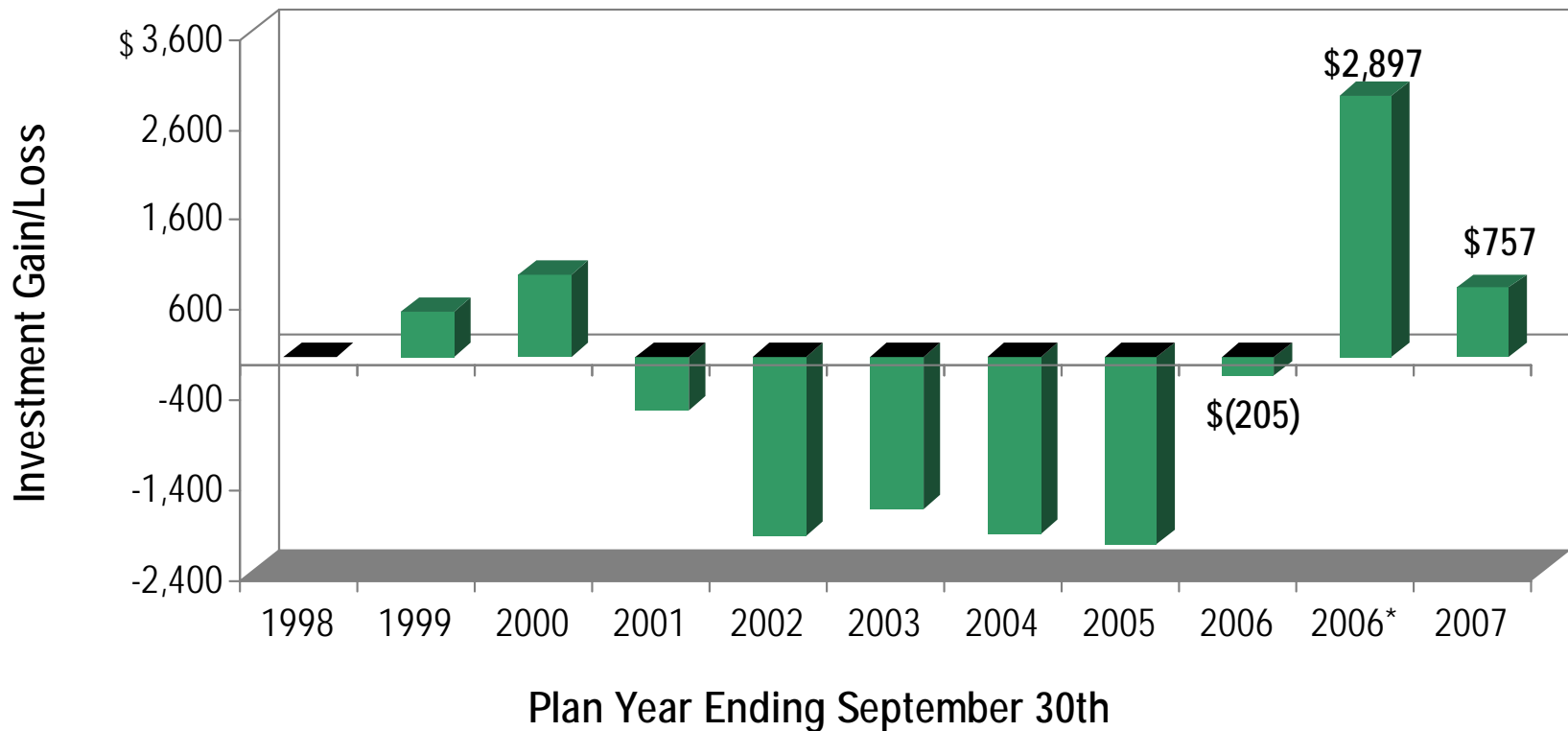
# Actuarial & Market Net Rates of Return



\* After adjusting to market value.

# Investment Gain/Loss

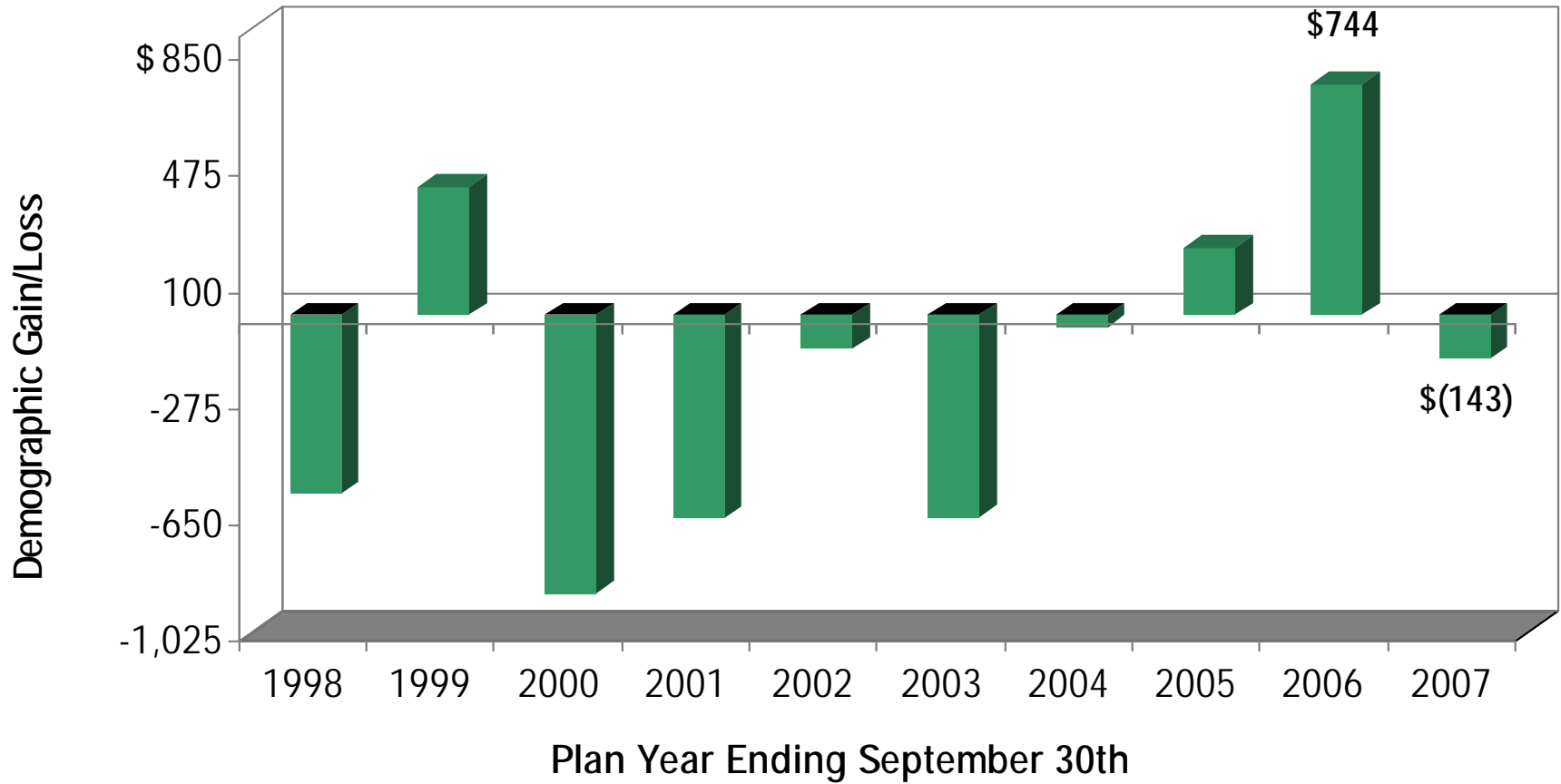
(Amounts in Millions)



\* After adjusting to market value.

# Demographic Gain/Loss

(Amounts in Millions)





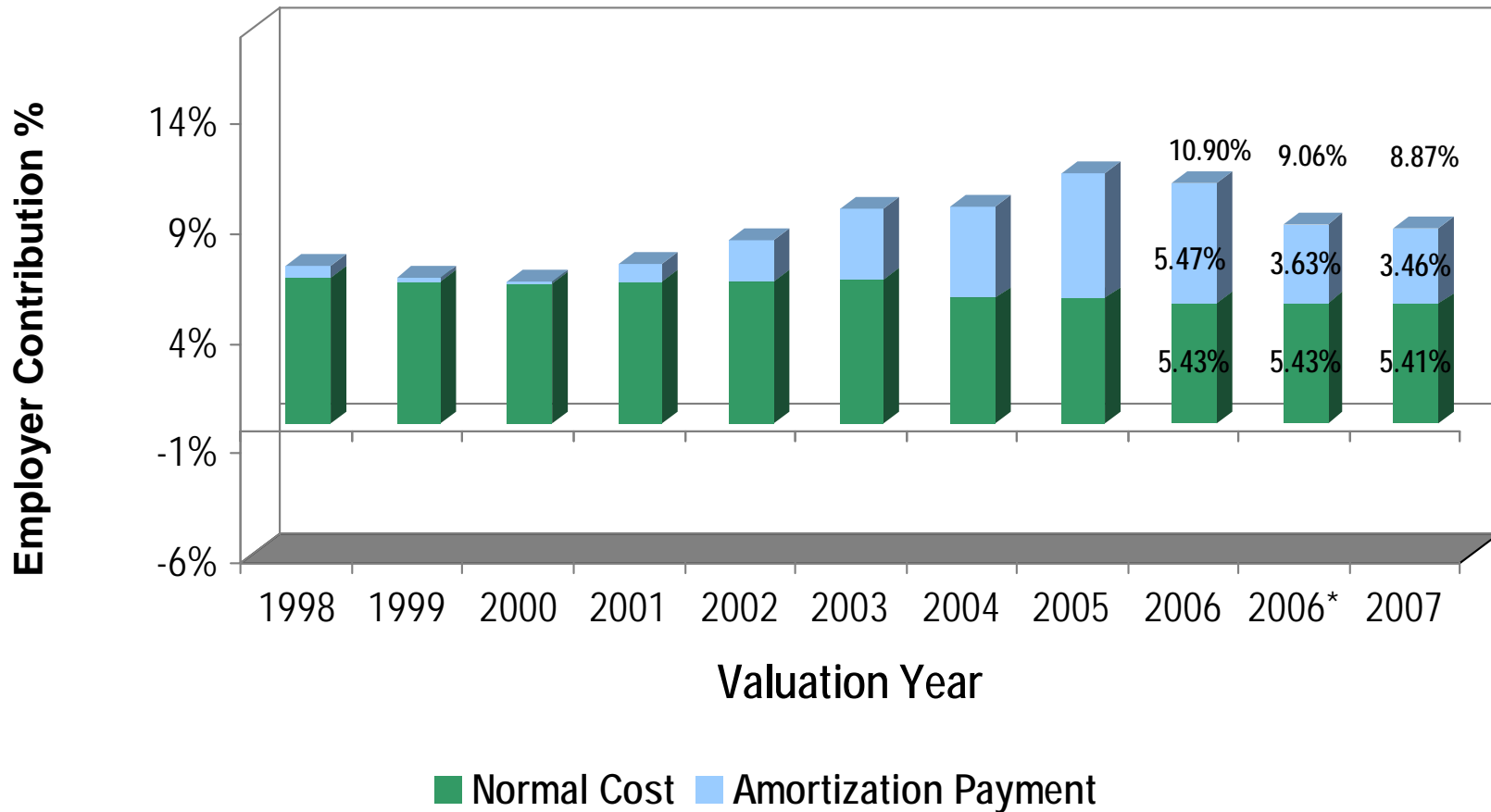
# Gain/(Loss) by Type of Activity

(Amounts in Millions)

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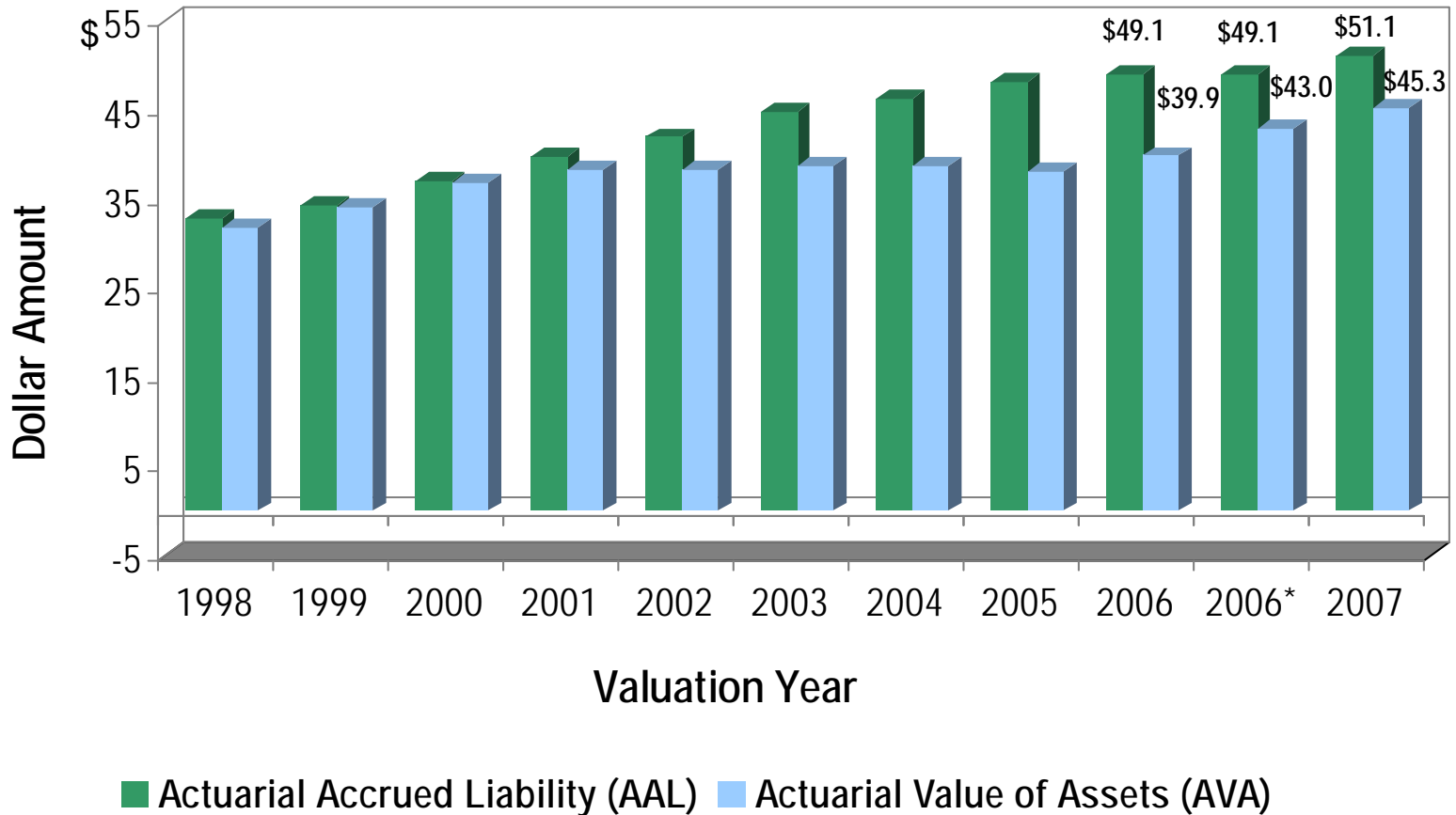
<b>Plan Year</b>					
<b>Ending 9/30</b>	<b>2007</b>	<b>2006</b>	<b>2005</b>	<b>2004</b>	<b>2003</b>
New Entrants	\$ (90.0)	\$ (98.7)	\$ (68.3)	\$ (46.4)	\$ (169.5)
Retiree Deaths	(231.4)	(49.2)	(84.2)	(127.3)	(16.0)
Investments	756.8	(204.6)	(2,085.5)	(1,959.6)	(1,684.1)
Pay Increases	17.1	691.6	68.7	(162.4)	112.6
Withdrawal	3.1	(5.9)	26.0	43.8	24.8
Retirements	35.4	46.2	64.6	12.3	24.0
Other	123.0	160.0	211.1	239.1	(628.2)
<b>Total</b>	<b>614.0</b>	<b>539.4</b>	<b>(1,867.6)</b>	<b>(2,000.5)</b>	<b>(2,336.4)</b>

# Historical Employer Contribution %'s Valuation as of September 30



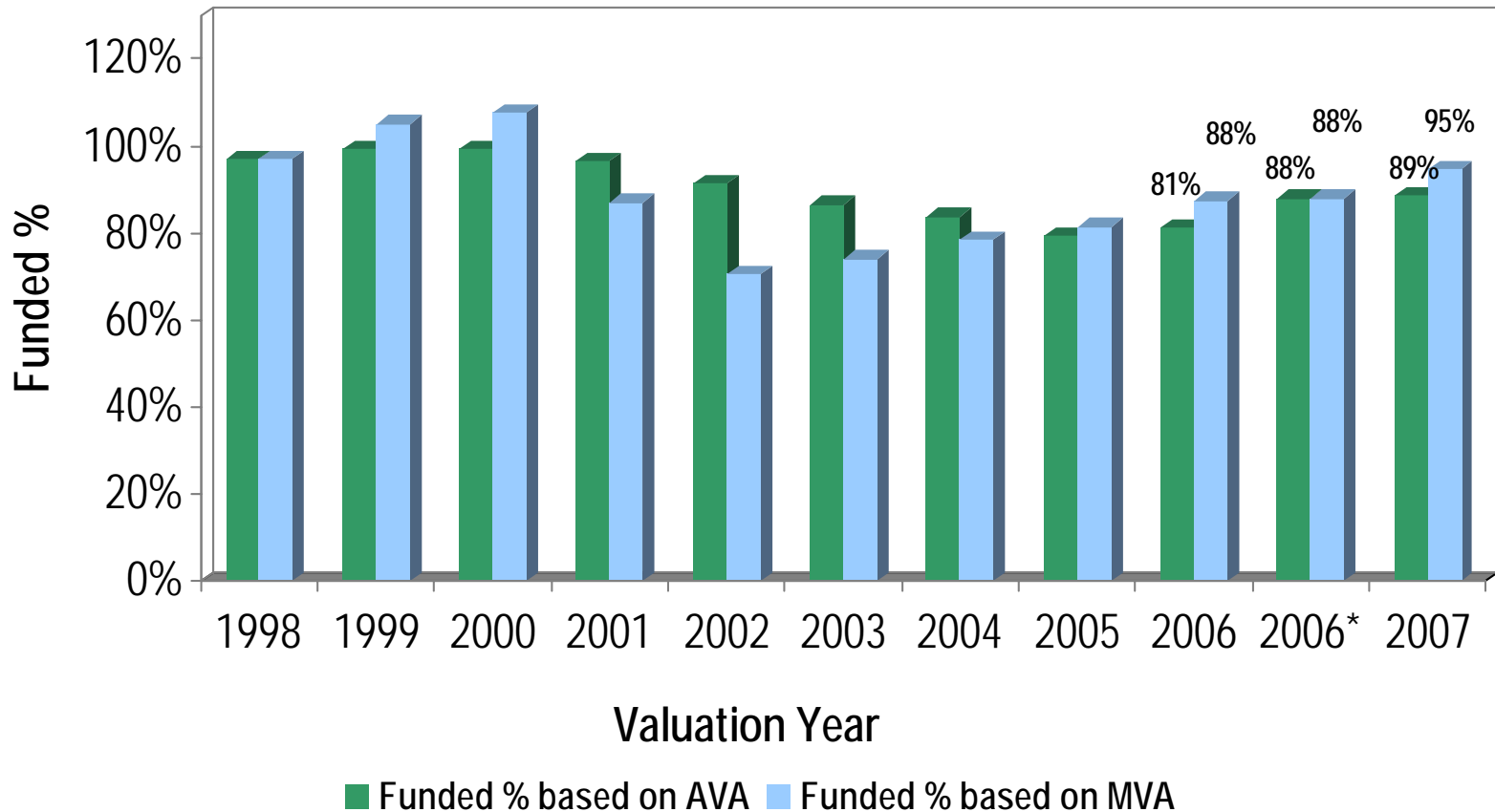
\* After adjusting to market value.

# Actuarial Accrued Liability Compared to Actuarial Value of Assets (in Billions)



\* After adjusting to market value.

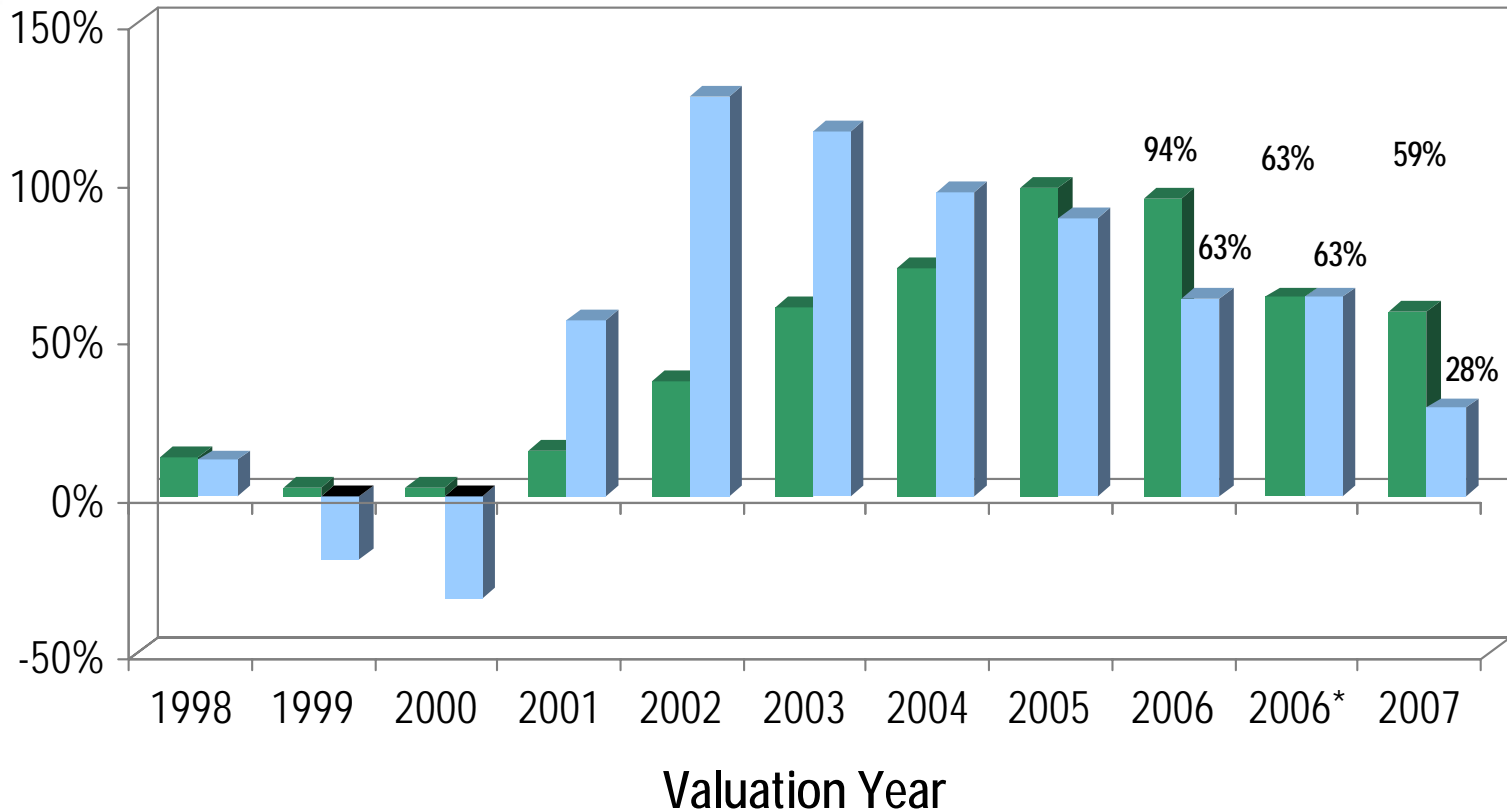
# Retirement System Funded % Based on Actuarial Value and Market Value of Assets



\* After adjusting to market value.



# Unfunded as Percentage of Payroll



■ UAAL(AVA) as % of Payroll    ■ UAAL(MVA) as % of Payroll

\* After adjusting to market value.



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