

Michigan State Employees Retirement System

Pension Actuarial Valuation Results
as of September 30, 2009

GRS

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Actuarial Valuation Process

Member Data

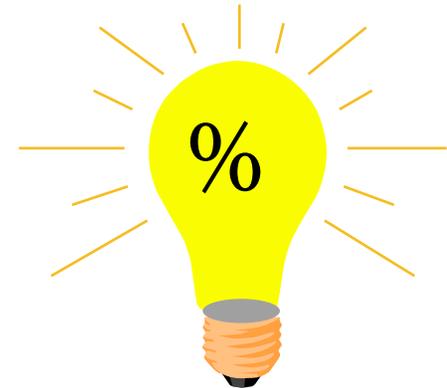


Financial Data



**Actuarial
Valuation**

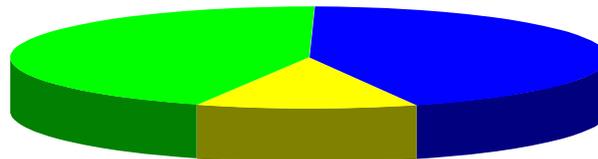
Actuarial Assumptions



Plan Provisions

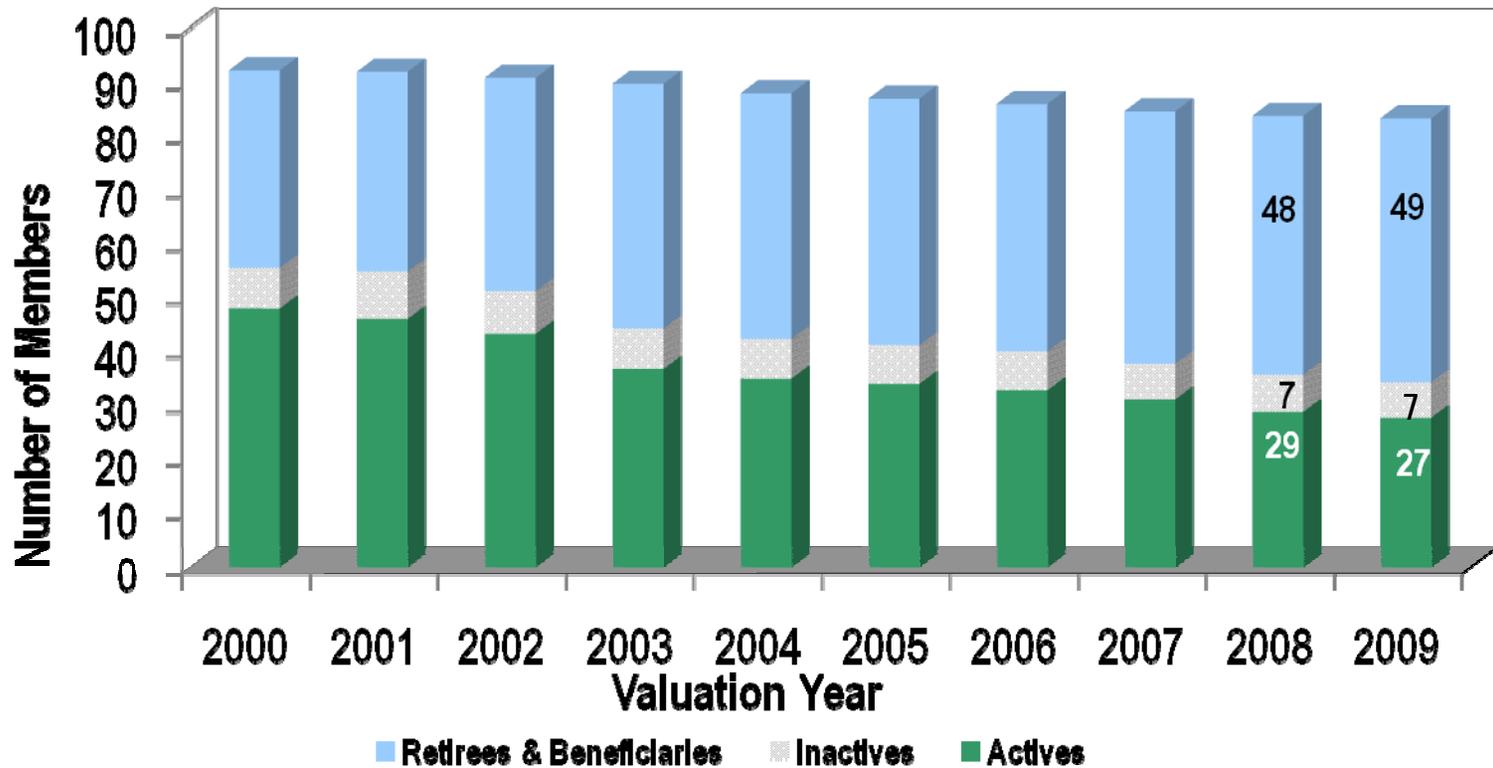


Actuarial Cost Method



Membership Data

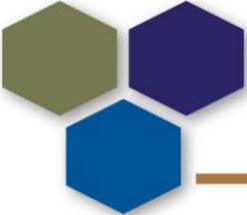
(Counts in Thousands)



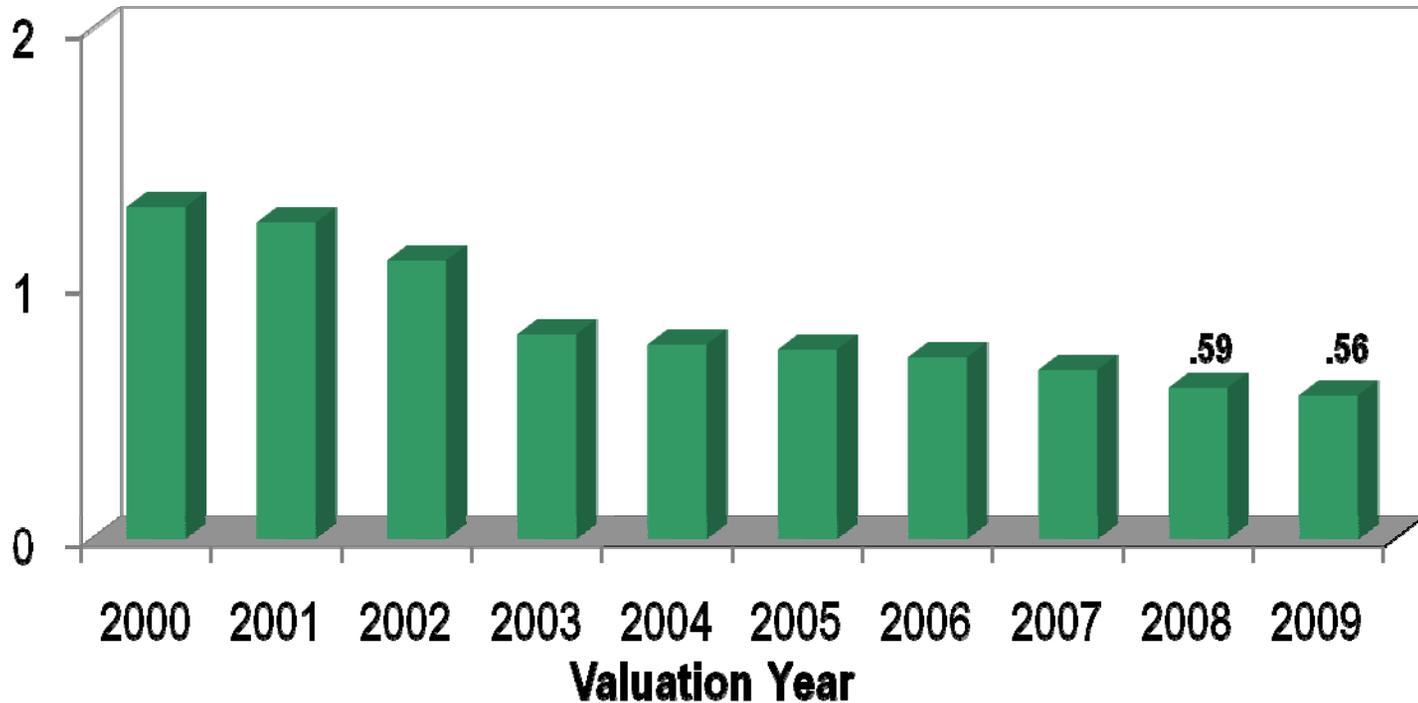
Active Members by Classification

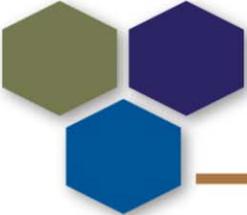
(Counts in Thousands)



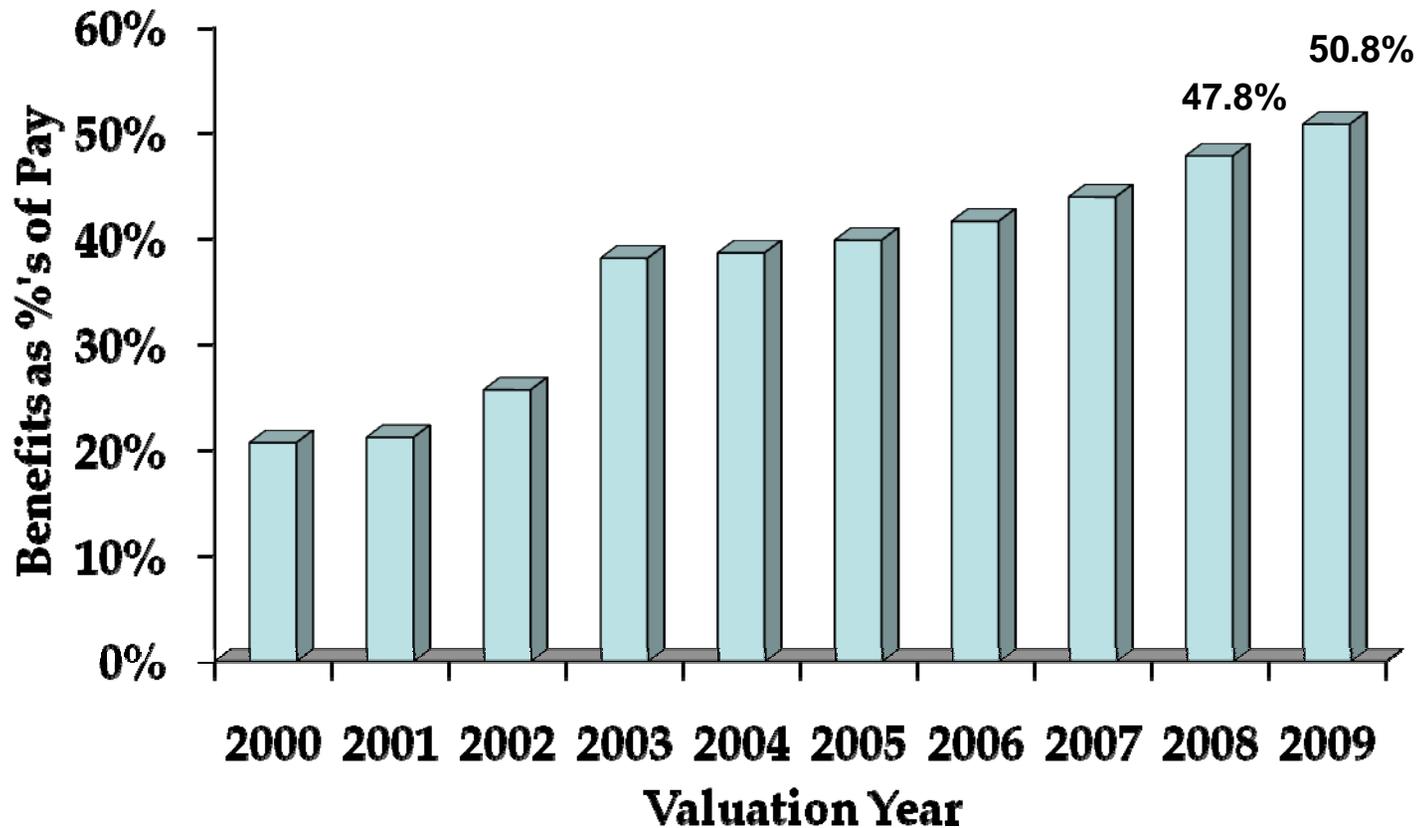


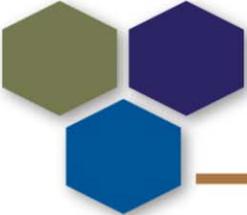
Ratio of Active Members to Pension Benefit Recipients



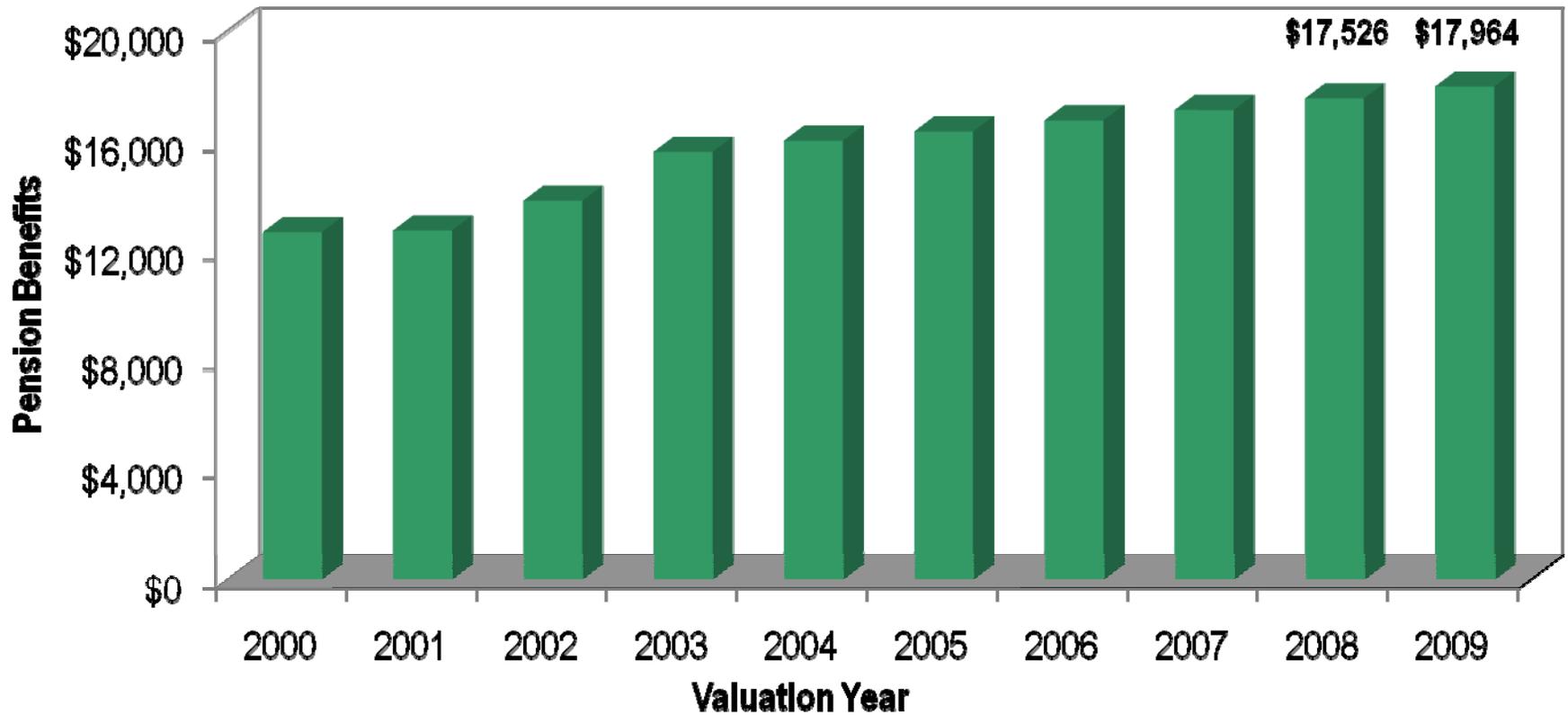


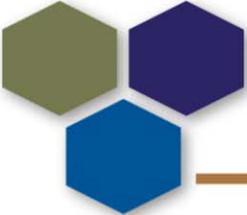
Pension Benefits Expressed as %'s of Active Member Pay



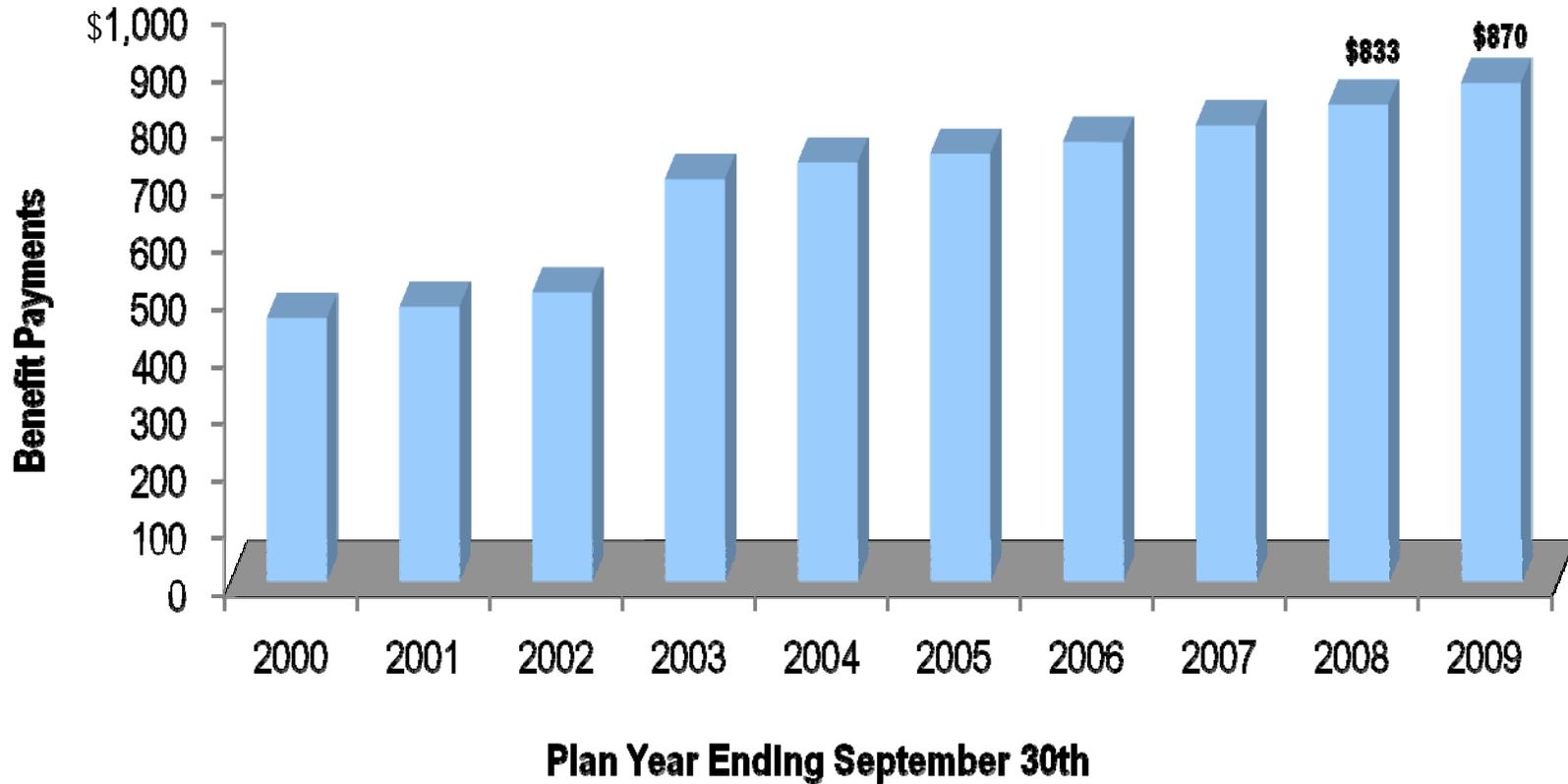


Average Annual Pensions



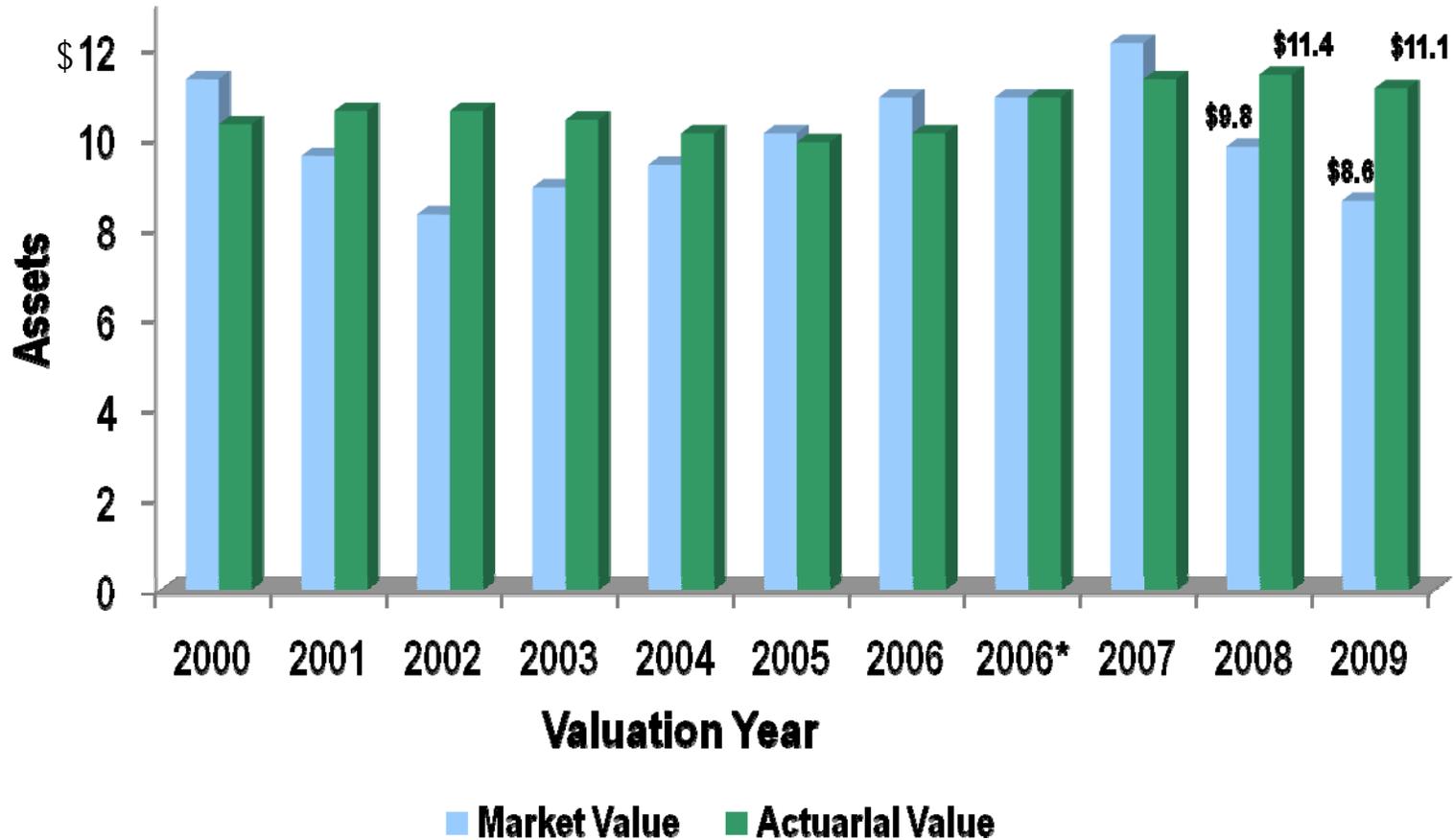


Pension Benefit Payments by Fiscal Year (Amounts in Millions)



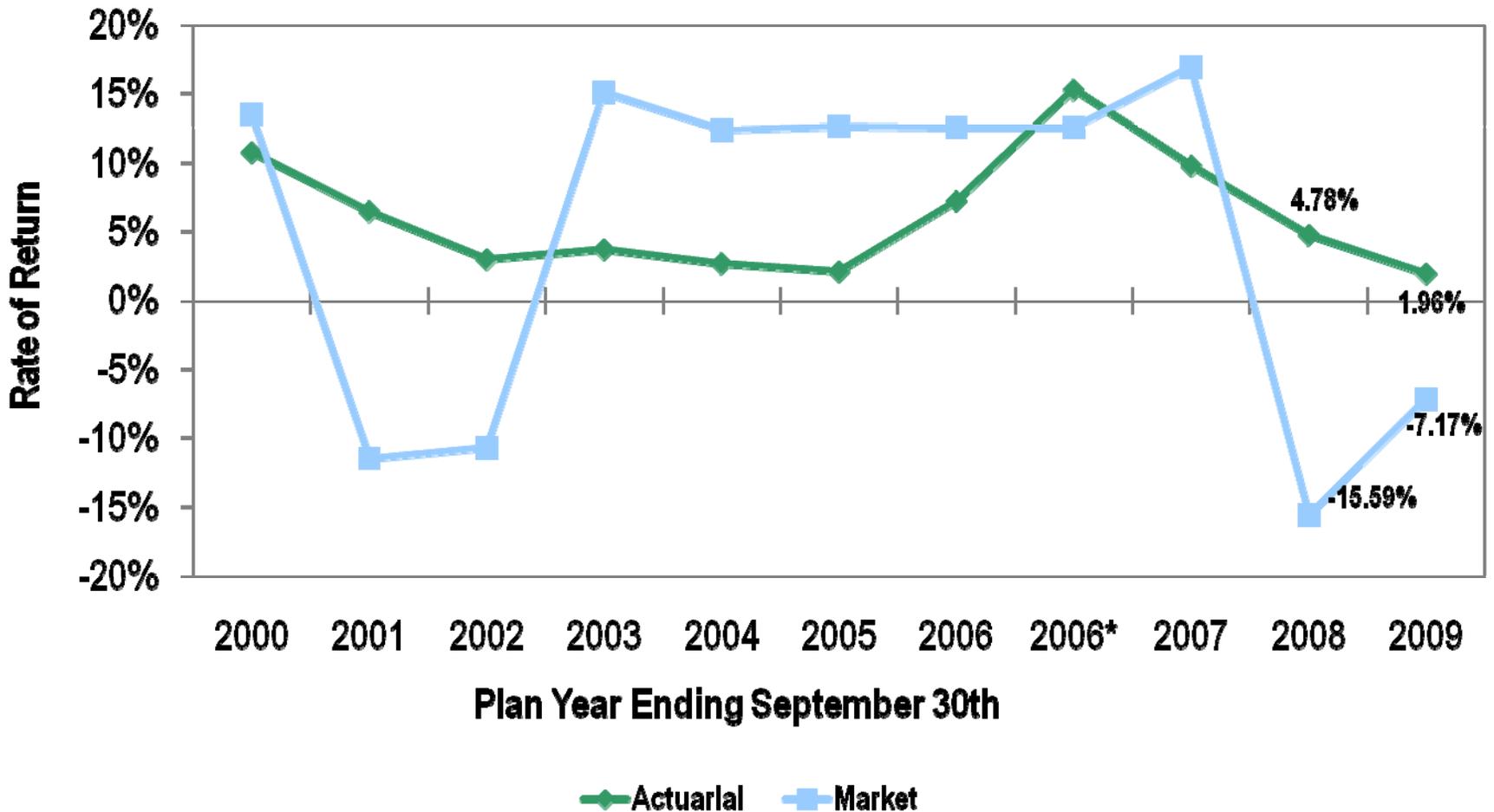
Growth of Pension Assets

(Amounts in Billions)



* After adjusting to market value.

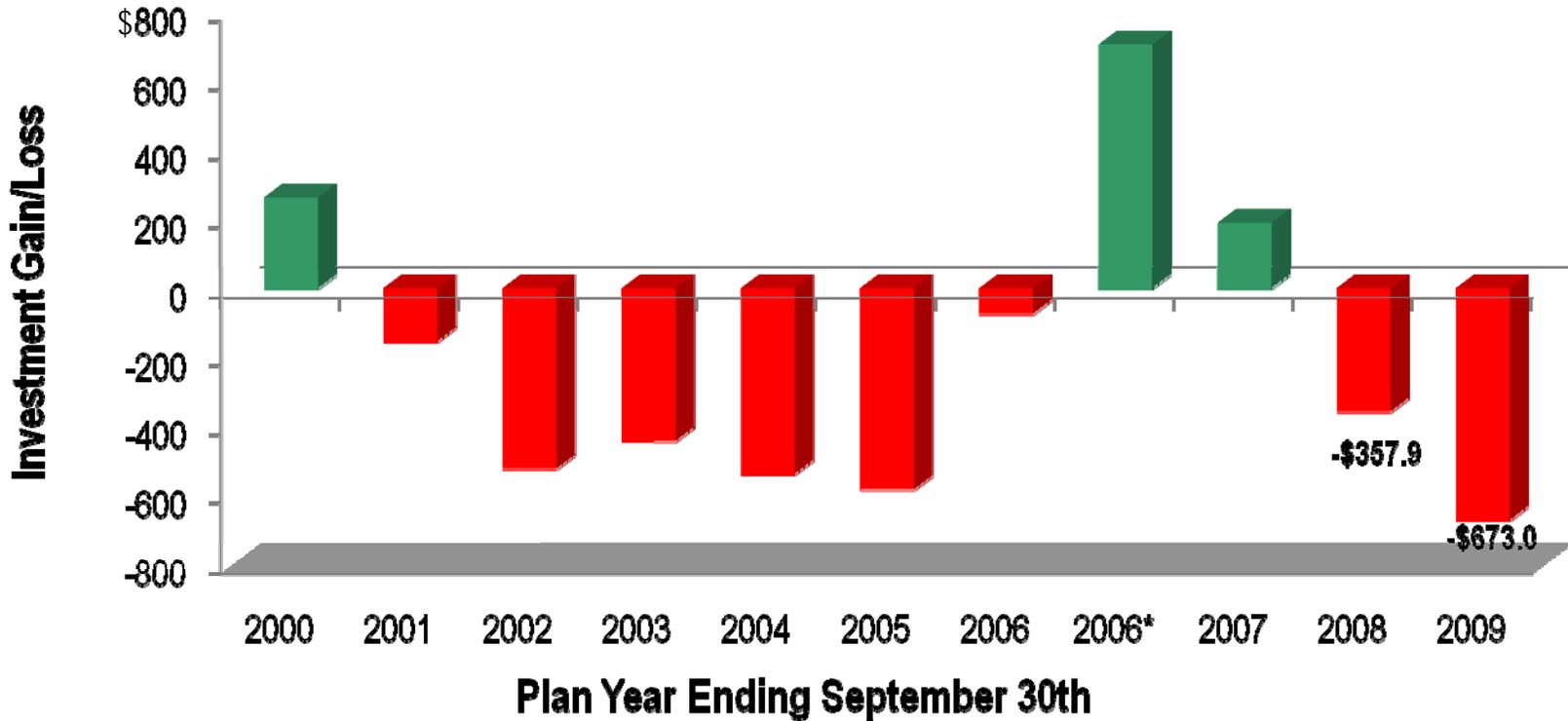
Actuarial & Market Net Rates of Return



* After adjusting to market value.

Investment Gain/Loss

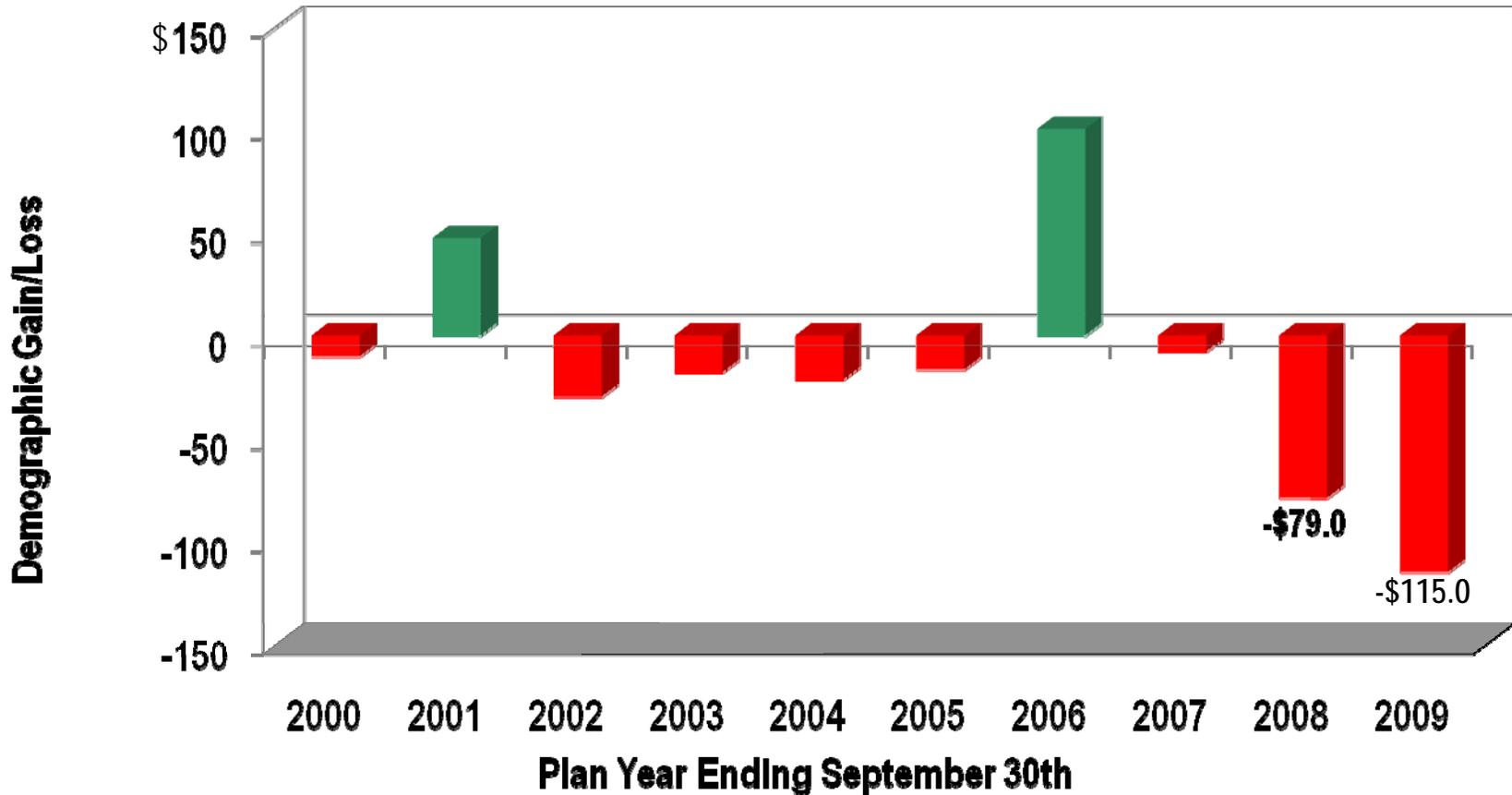
(Amounts in Millions)

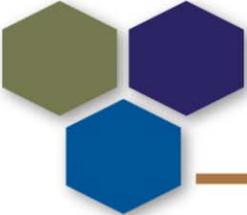


* After adjusting to market value.

Demographic Gain/Loss

(Amounts in Millions)



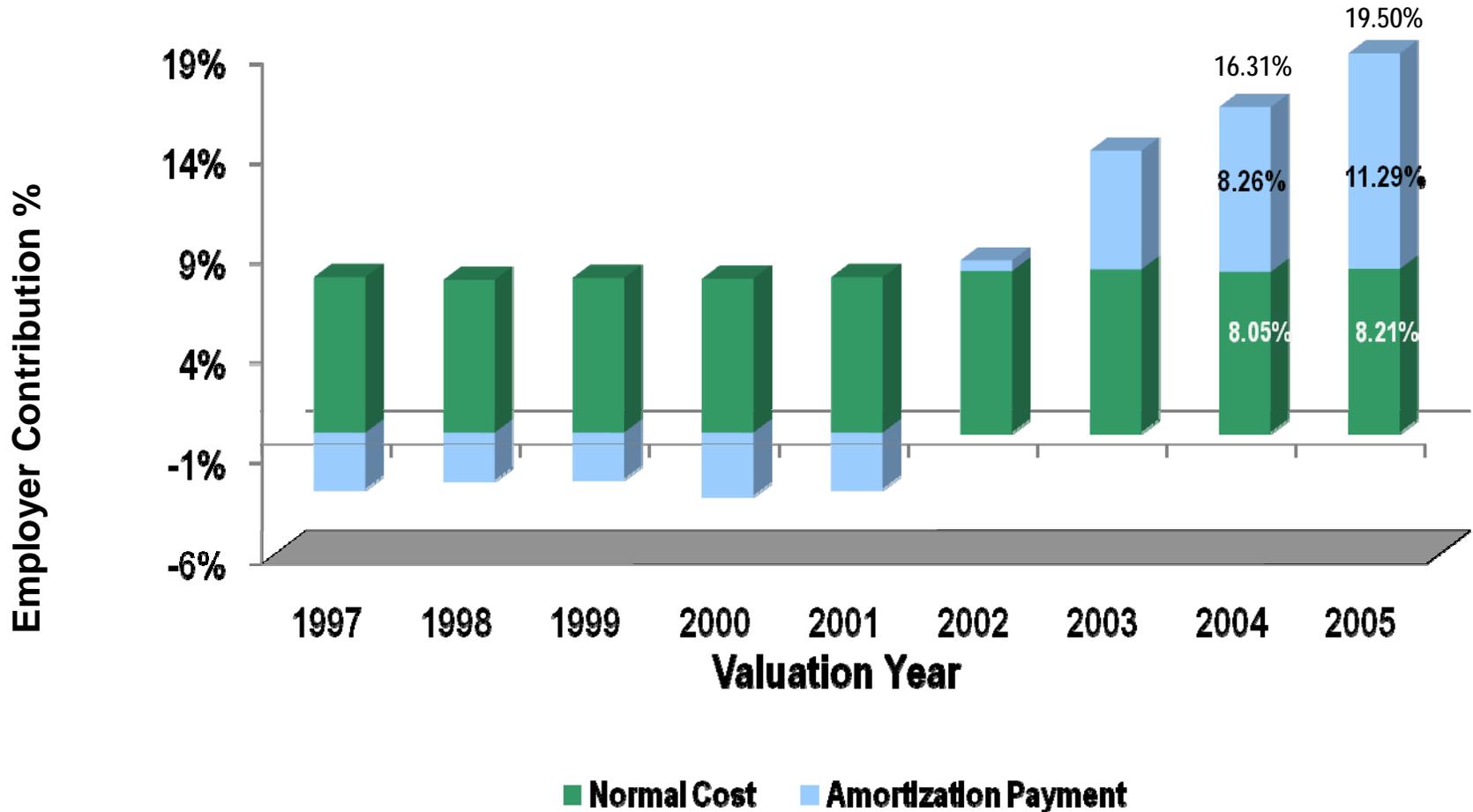


Gain/(Loss) by Type of Activity

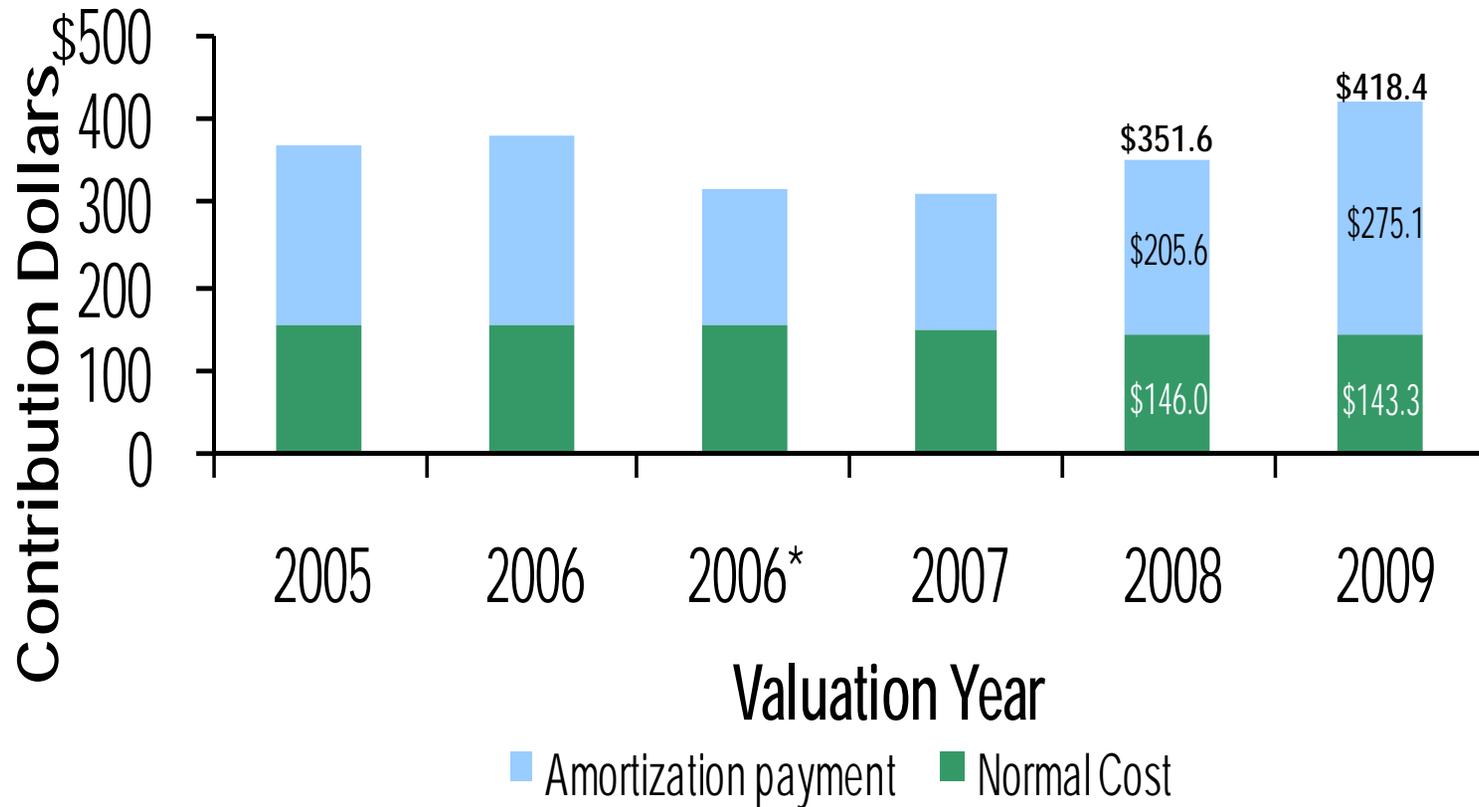
(Amounts in Millions)

Plan Year					
Ending 9/30	2009	2008	2007	2006	2005
Rehires	\$ (52.28)	\$ (1.85)	\$ (6.79)	\$(20.89)	\$ (37.78)
Retiree Deaths	(80.10)	(38.48)	21.93	2.57	(43.76)
Investments	(672.97)	(357.93)	189.88	(73.43)	(583.96)
Pay Increases	59.58	(14.66)	(8.35)	80.54	57.58
Withdrawal	(6.44)	20.07	5.75	(2.24)	(3.11)
Retirements	17.89	(5.09)	(0.66)	8.72	28.12
Other	(53.63)	(38.96)	(19.77)	31.68	(17.62)
Total	(787.95)	(436.90)	181.99	26.95	(600.53)

Historical Employer Contribution %'s Valuation as of September 30

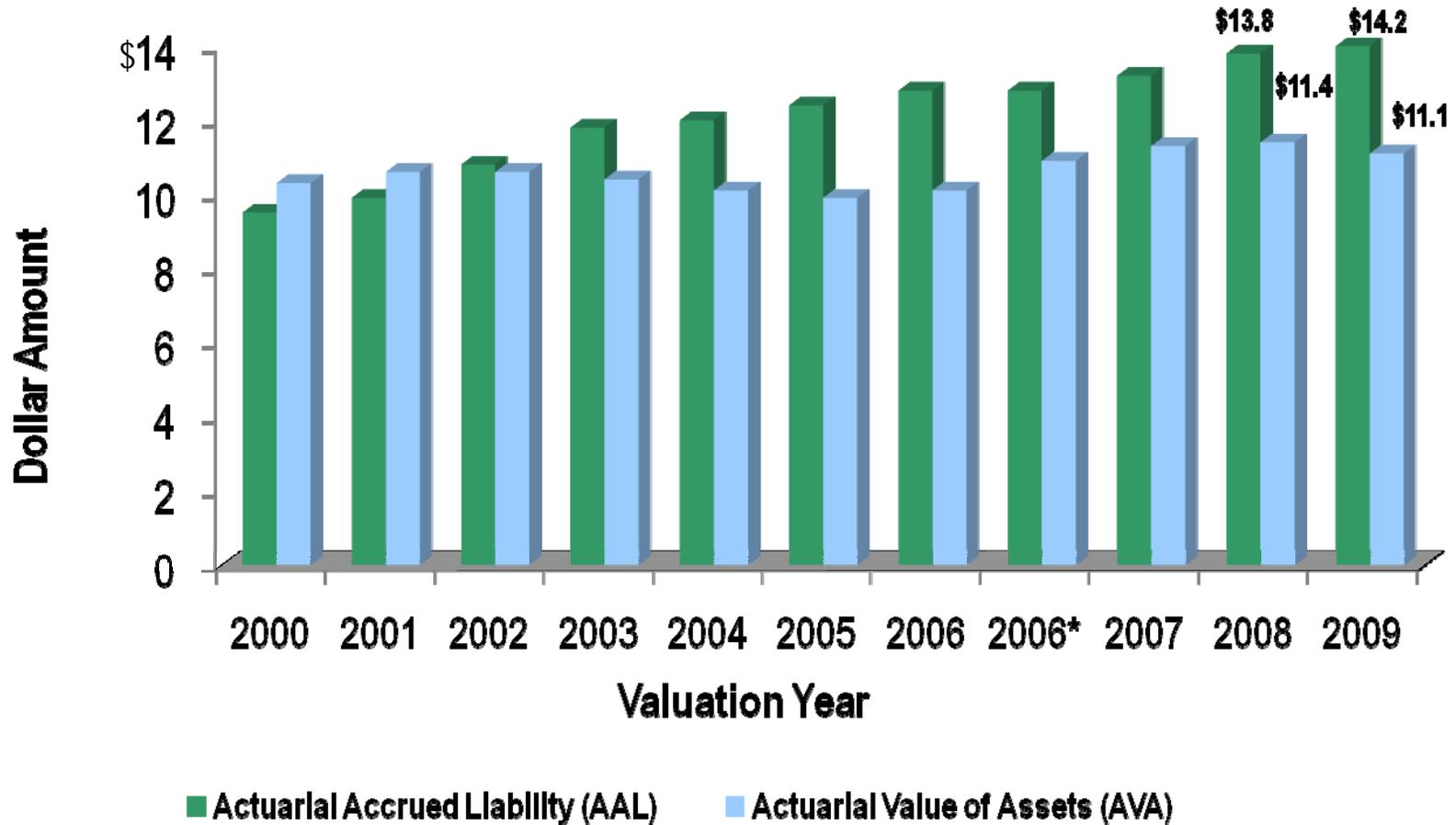


Employer Contribution Dollars (in Millions) Valuation as of September 30



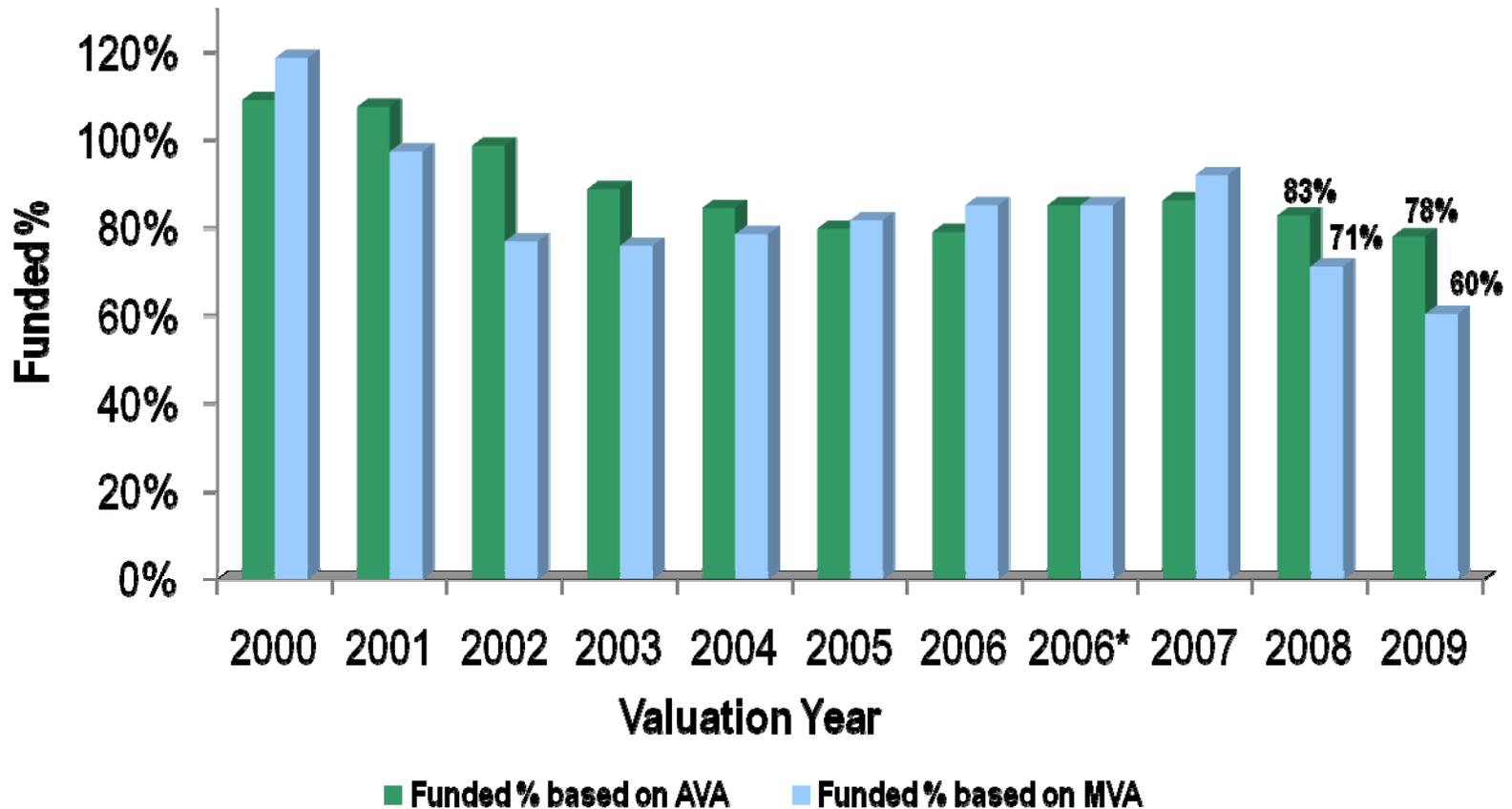
* After adjusting to market value.

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

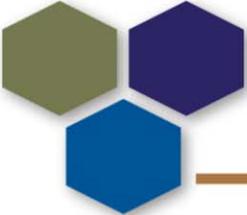


* After adjusting to market value.

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

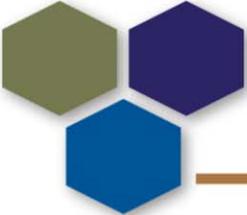


* After adjusting to market value.



Comments on the Investment Markets

- ◆ Investment markets have been very volatile.
- ◆ Valuation is based on a 5-year smoothed value of assets.
 - Reduces the volatility of the valuation results.
- ◆ 9/30/2009 smoothed value of assets was higher than market value.
 - Meeting the actuarial assumption will require average future market returns over 8%.
- ◆ 9/30/2009 valuation results based on market value:
 - Funded percent would be 60.3% (instead of 78.0%).
 - Employer contribution would be \$640.5 million (instead of \$418.4 million).



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