

**STATE OF WYOMING
RETIREMENT SYSTEM**

**REPORT ON ACTUARIAL VALUATION
AS OF JANUARY 1, 2005**

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STATE OF WYOMING RETIREMENT SYSTEM

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STATE OF WYOMING RETIREMENT SYSTEM

I. INTRODUCTION

This report summarizes the results of our actuarial valuation of the State of Wyoming Retirement System (the Retirement System) as of January 1, 2005. The contribution requirements presented in Section VI of the report are based on the following:

1. The benefit provisions of the Retirement System as of January 1, 2005.
2. The characteristics of covered active employees, inactive nonretired participants, and pensioners and beneficiaries as of December 31, 2004.
3. The assets of the Retirement System as of December 31, 2004.
4. Economic actuarial assumptions regarding future salary increases and investment earnings.
5. Other actuarial assumptions regarding employee termination, retirement, disability, death, etc.

One purpose of the actuarial valuation is to determine the contribution sufficient to meet the long-term obligations to the participants covered by the Retirement System in accordance with the benefit provisions of the Wyoming Retirement Act.

If each of the actuarial assumptions were to be exactly fulfilled, the true actuarial cost of the Retirement System would equal the cost projected by the actuarial calculations. However, because of the length of time for which projections are made, and because of the great number of variables which can affect the emerging costs, the actual experience of the Retirement System will not match the assumptions. The costs, expressed as a percentage of payroll, will increase if the Retirement System experiences net actuarial losses and will decrease if the Retirement System experiences net actuarial gains.

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II. SUMMARY OF VALUATION RESULTS

This section summarizes financial results for the Retirement System Plan based upon actuarial valuations as of January 1, 2005 and January 1, 2004.

Results of the 2005 actuarial valuation are presented with and without an automatic Cost-of-Living Adjustment (COLA). One set of results assumes no future COLAs will be given, while the second set is calculated assuming the maximum COLA assumption of 3.0% annually is granted.

	January 1, 2005 3.0% COLA	January 1, 2005 0.0% COLA	January 1, 2004 3.0% COLA
Contribution Requirements (as % of pay)			
Total Normal Cost	11.07%	9.23%	11.24%
Employee Contributions	<u>5.57%</u>	<u>5.57%</u>	<u>5.57%</u>
Employer Share	5.50%	3.66%	5.67%
Amortization of Unfunded Liability	4.35%	(1.60%)	2.95%
Administrative Expenses	<u>0.15%</u>	<u>0.15%</u>	<u>0.14%</u>
Total Employer Cost	10.00%	2.21%	8.76%
Total Cost (Employee + Employer)	15.57%	7.78%	14.33%
Funded Status			
Actuarial Value of Assets (AV)	\$ 4,704,299,000	\$ 4,704,299,000	\$ 4,657,898,000
Actuarial Accrued Liability (AAL)	5,536,192,000	4,397,301,000	5,077,443,000
AAL Funded Percentage on AV Basis (AV + AAL)	85.0%	107.0%	91.7%
Market Value of Assets (MV)	4,693,824,000	4,693,824,000	4,299,955,000
AAL Funded Percentage on MV Basis (MV + AAL)	84.8%	106.7%	84.7%

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III. MEMBERSHIP CHARACTERISTICS

As of December 31, 2004, there were 32,134 employees in active service covered under the provisions of the Retirement System. The significant age, service, valuation salary and accumulated contribution information for the active employees are summarized below along with comparative figures from the previous year.

	2004	2003
Number of active employees	32,134	31,494
Average age	46.1	45.9
Average years of service	10.5	10.5
Total annual valuation salary*	\$1,086,736,244	\$1,032,259,432
Average annual salary	\$ 33,819	\$ 32,776
Total accumulated contributions	\$ 840,104,831	\$ 795,274,433 ✓
Average accumulated contributions	\$ 26,144	\$ 25,252

*Includes assumed salary increase for one-half year during the valuation years, respectively.

During 2004, the average age increased slightly, average service remained the same, and the number of active employees increased by about 2%.

* * * * *

In addition to the data received on active employees, data were provided on 4,847 vested inactive nonretired members who did not elect to receive their accumulated contributions when they left covered employment. The significant age, service (on date of termination) and accumulated contribution information for these inactive members are summarized below with comparative figures from the previous year.

	2004	2003
Number of inactive employees	4,847	4,745
Average age	50.8	50.5
Average years of service	9.2	9.3
Total accumulated contributions	\$ 118,525,918	\$ 112,313,934
Average accumulated contributions	\$ 24,453	\$ 23,670

The average age increased from last year while average service decreased slightly. The number of inactive members increased by 2.1% since last year. The total accumulated contributions for these members increased by 5.5% since last year.

* * * * *

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Detailed summaries of the census data for active and inactive participants are shown in the tables contained in the Appendix to this report. The first page of the Appendix contains the index of the tables contained therein.

For these tables, the salaries shown for active employees are the actual 2004 salaries reported. For calculating active employee liabilities, the actual 2004 salaries reported were increased by 2.50% (one half of the 5.0% salary scale) to approximate a pay rate, as of January 1, 2005.

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IV. BENEFIT EXPERIENCE

During the year ended December 31, 2004, the Board approved 893 pension awards. Of that total, approximately 24% commenced before becoming eligible for unreduced benefits. 32% of new retirees have unreduced benefits due solely to reaching age 60 while 18% of new retirees have attained the rule of 85 without reaching age 60. The remaining 26% of new retirees have both age 60 and rule of 85.

On December 31, 2004, a total of 14,413 pensioners were receiving retirement benefits from the Plan. The average monthly benefit for the pensioners was \$1,062 compared to \$1,012 as of the end of 2003. In addition, 1,538 beneficiaries were receiving monthly payments at December 31, 2004.

Detailed summaries of the census data for pensioners and beneficiaries are shown in the tables contained in the Appendix to this report. The information presented may be summarized as follows:

- ◆ Total annual benefits in force as of December 31, 2004 for the 15,951 pensioners and beneficiaries were \$199.7 million.
- ◆ Of the 15,951 pensioners and beneficiaries, approximately 30% are under age 65, 38% are 65 through 74 and 32% are 75 or older.
- ◆ Approximately 44% of the 14,413 pensioners are receiving benefits in either a 50% or 100% joint and survivor annuity, including those with a pop-up feature (options 2, 3, 6 or 7).
- ◆ Approximately 40% of the 15,951 pensioners and beneficiaries were receiving monthly benefits of less than \$600 and 39% were receiving at least \$1,000 per month.
- ◆ For members retiring from active service during 2004, the average age of early and normal retirements was 60.4.
- ◆ Benefit payments from Plan assets in 2004 totaled \$201,772,174, including refund payments of \$9,139,323. In 2003, benefit payments were \$185,826,481, including refund payments of \$9,460,758.

The actuarial accrued liability for pension benefits to the 15,951 pensioners and beneficiaries amounted to over \$2,345 million as of January 1, 2005. This liability is the actuarially estimated amount necessary to pay benefits to the pensioners and beneficiaries assuming that the assets would earn 8.0% interest per year until they are expended in benefit payments. This amount includes the 3.0% annual cost-of-living increases.

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V. ASSETS

As shown in the auditor's report as of December 31, 2004, net assets totaled \$4,693,824,018 at market value, compared to a value of \$4,299,955,244 as of December 31, 2003. However, assets are taken at a somewhat different value for the actuarial valuation. Effective January 1, 2001, we are using a method that adjusts to market value gradually as follows:

Appreciation and depreciation in excess of the expected appreciation, whether realized or unrealized, is spread over five years beginning with the year of occurrence. Interest, dividends, and other income are recognized immediately. The procedure results in recognition of all changes in market value after five years.

The procedure is applied to all investments. The determination of the actuarial value of investments is shown in Table A that follows. There was approximately \$10 million of deferred depreciation that will be recognized in future years. A statement of the actuarial assets for the years ended December 31, 2004 and 2003 is provided in Table B. The asset value on this basis is \$4,704,299,324 and \$4,657,897,625, respectively.

The amount of write-up or write-down (which reflects changing market values) is considered part of the investment income for the year. This procedure treats realized and unrealized capital gains or losses equally. In other words, the sale of a security -- either at a gain or loss -- has no effect on the value of assets for actuarial purposes. If the market value has gone up, the increase is gradually reflected in the value of the fund's assets; it does not have to be sold for the appreciation to be *realized*. This *automatic* reflection of market value appreciation or depreciation should eliminate any need for making investment decisions for the explicit purpose of meeting the investment return assumption.

Chart 1 is a graph showing the historical asset values on both actuarial and market value bases. This graph illustrates that the growth of the market value of assets has also been reflected in the actuarial value of assets.

The investment portfolio is summarized in Table C. On December 31, 2004, 63% of the assets at market value consisted of equities.

Income and disbursements for 2004 and 2003 on the actuarial value basis are given in Table D. The progress of the fund for the last nineteen years is provided in Table E. It shows that assets have increased consistently from year to year, although the amount of the increase has varied with fluctuations in investment income. Benefit payments have consistently increased, confirming the growth in assets needed to finance lifetime benefits for current pensioners and those participants who will retire in the future.

Table F shows the components of investment earnings over the last nineteen years. Over the full period, the earnings of \$4,344,743,000 on an actuarial value basis represents an average annual return of 10.1%.

These investment results are used to determine whether investment experience is meeting the Retirement System's actuarially assumed return. They do not, however, necessarily indicate the relative success of the Retirement System's investment program. Rather than on the smoothed actuarial value of assets, comparisons of performance (with other funds, investment institutions and market indices) are generally based on rates of return that reflect market changes in full.

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Market Value Results

The estimated investment returns for the last sixteen years on a *market value basis* as reported by your investment advisors are as follows:

<u>Year</u>	<u>Rate of Return</u>	<u>Year</u>	<u>Rate of Return</u>
1989	18.00%	1997	20.92%
1990	5.30%	1998	19.02%
1991	20.30%	1999	13.88%
1992	8.57%	2000	(0.99)%
1993	10.24%	2001	(4.47)%
1994	(2.78)%	2002	(9.29)%
1995	25.90%	2003	21.00%
1996	11.73%	2004	11.54%

These values can be used to illustrate the smoothing effect that results from using an actuarial value of assets. Chart 2 illustrates that the volatility of market values is reduced by using an actuarial value of assets. By using an actuarial value that reduces the year-to-year fluctuations in investment return, the volatility in cost from year-to-year is reduced.

The difference between the investment return rates at market value, when compared to similar return rates on the actuarial valuation basis, stems from the inclusion in the market value figures of all capital appreciation or depreciation whereas the results based on the actuarial valuation basis reflect only the write-up/down in accordance with the adopted valuation procedure.

The rates of return, based on full market value changes as presented herein, should not be taken as a truly adequate measure of the Retirement System's investment performance. There are many reasons for differences among portfolios in return rates based on market value and among managers during a given time period. While a manager's investment choices are an important factor, consideration must also be given to the effects of established policy guidelines and any special characteristics of the Plan that influence investment decisions. Those other factors, commonly dealt with in an investment performance study, are beyond the scope of this report.

TABLE A

DETERMINATION OF WRITE-UP (DOWN) AMOUNT AND ACTUARIAL VALUE OF INVESTMENTS AS OF DECEMBER 31, 2004 AND 2003

Year Ending	Total Appreciation (Depreciation)	Expected Appreciation	Difference From Expected	PORTION OF TOTAL APPRECIATION/(DEPRECIATION)			
				December 31, 2004	December 31, 2003	% Deferred	% Deferred
12/31/00	(174,445,845)	230,318,773	(404,764,618)	0%	0	20%	(80,952,924)
12/31/01	(319,713,854)	223,300,711	(543,014,565)	20%	(108,602,913)	40%	(217,205,826)
12/31/02	(494,704,675)	212,650,620	(707,355,295)	40%	(282,942,118)	60%	(424,413,177)
12/31/03	634,778,699	178,991,767	455,786,932	60%	273,472,159	80%	364,629,546
12/31/04	377,711,695	243,214,738	134,496,957	80%	<u>107,597,566</u>	-	-
(a) Total Deferred as of Valuation Date					\$ (10,475,306)		\$ (357,942,381)
(b) Total Appreciation (Depreciation) for Last Five Plan Years					(1,064,850,589)		(798,338,870)
(c) Write-Up/(Down) Amount for the Year-- Equals 20% of (b) Plus Rounding Adjustment					(212,970,118)		(159,667,774)
Market Value of Investments					January 1, 2005		January 1, 2004
Less: Deferred Appreciation (Depreciation)					\$ 4,831,045,164		\$ 4,427,411,397
Preliminary Actuarial Value of Investments					<u>(10,475,306)</u>		<u>(357,942,381)</u>
Adjustment for 20% Corridor					\$ 4,841,520,470		\$ 4,785,353,778
Actuarial Value of Investments*					0		0
					\$ 4,841,520,470		\$ 4,785,353,778

* See Table B for actuarial value of assets.



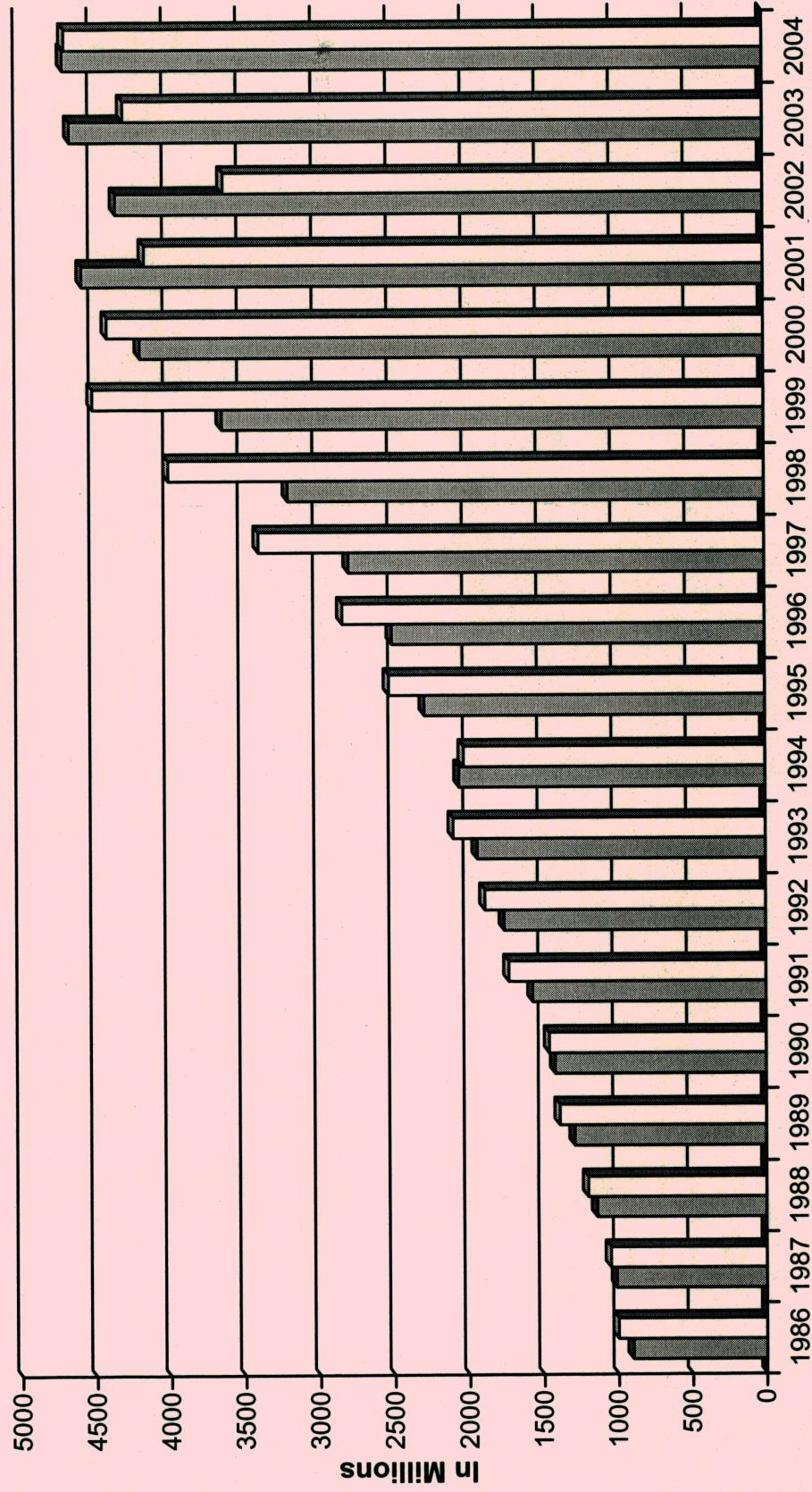
TABLE B**ASSETS OF THE FUND AS OF DECEMBER 31, 2004 AND 2003
(ACTUARIAL VALUE BASIS)**

	December 31,	
	2004	2003
Net Accounts Receivable/(Payable)	\$ (137,221,146)	\$ (127,456,153)
Preliminary Actuarial Value of Investments	\$ 4,841,520,470	\$ 4,785,353,778
Net Assets	\$ 4,704,299,324	\$ 4,657,897,625
Market Value of Assets	\$ 4,693,824,018	\$ 4,299,955,244
80% Minimum Actuarial Value	\$ 3,755,059,215	\$ 3,439,964,196
120% Maximum Actuarial Value	\$ 5,632,588,821	\$ 5,159,946,292
Adjustment for 20% Corridor	\$ 0	\$ 0
Actuarial Value of Assets	\$ 4,704,299,324	\$ 4,657,897,625

CHART 1

Value of Assets

■ Actuarial □ Market



Year Ended December 31



TABLE C

INVESTMENT PORTFOLIO

Type of Investment	December 31, 2004		December 31, 2003	
	Market Value	Percentage Distribution	Market Value	Percentage Distribution
Cash Investments	\$ 265,746,282	5.5%	\$ 259,290,402	5.9%
Fixed Income Investments	\$ 1,400,760,120	29.0%	\$ 1,387,556,802	31.3%
Equity Investments	\$ 3,050,981,015	63.2%	\$ 2,780,564,193	62.8%
Real Estate Investments	\$ 113,557,747	2.3%	\$ 0	0.0%
Total Investments*	\$ 4,831,045,164	100.0%	\$ 4,427,411,397	100.0%

* Total market value of assets (after adjusting for accruals) is \$4,693,824,018 and \$4,299,955,244 as of December 31, 2004 and 2003.

**SUMMARY STATEMENT OF INCOME AND DISBURSEMENTS
FOR THE YEARS ENDED DECEMBER 31, 2004 AND 2003
(ACTUARIAL VALUE BASIS)**

	2004	2003
Contribution Income:		
Employer Contributions	\$ 60,264,416	\$ 55,056,552
Employee Contributions	61,412,824	60,848,296
Other	309,254	307,236
Total Contribution Income	\$ 121,986,494	\$ 116,212,084
Less: Administrative Expenses	(1,644,382)	(1,435,922)
Net Contribution Income	\$ 120,342,112	\$ 114,776,162
Investment Income:		
Interest and Dividends	\$ 106,368,374	\$ 117,141,004
Less: Investment Expenses	(9,681,500)	(8,813,197)
Net Interest and Dividends	\$ 96,686,874	\$ 108,327,807
Gross Write-Up of Assets	(212,970,118)	(159,667,774)
Expected Appreciation	243,214,738	178,991,767
Prior Year Adjustment No Longer Included	0	247,993,120
Net Adjustment for 20% Corridor Around Market Value	0	0
Net Investment Income	126,931,494	375,644,920
Net Income from Securities Lending	900,267	879,222
Total Income Available for Benefit Payments and Reserves	\$ 248,173,873	\$ 491,300,304
Benefit Payments:		
Pension Benefits	\$(192,632,851)	\$(176,365,723)
Refunds	(9,139,323)	(9,460,758)
Total Benefit Payments	(201,772,174)	(185,826,481)
Addition to Reserve for Future Benefit Payments	\$ 46,401,699	\$ 305,473,823
Actuarial Value of Assets, Beginning of Year	4,657,897,625	4,352,423,802
Actuarial Value of Assets, End of Year	\$ 4,704,299,324	\$ 4,657,897,625



TABLE E

**PROGRESS OF THE FUND THROUGH DECEMBER 31, 2004
(ACTUARIAL VALUE BASIS)**

Plan Year	Employer Contributions*	Employee Contributions	Administrative Expenses	Net Investment Income**	Benefit Payments	Transfers Out	Fund at Year End
19 Years Through December 31, 2004	\$ 867,539,464	\$ 867,651,918	\$ (18,988,605)	\$ 4,344,744,107	\$ (2,015,882,838)	\$(106,998,719)	\$ 4,704,299,324
As of							
12/31/1985	--	--	--	--	--	--	766,233,997***
12/31/1986	41,364,465	36,365,804	(782,000)	98,998,090	(42,082,765)		900,097,591
12/31/1987	39,901,834	36,039,418	(808,023)	91,374,783	(50,604,364)		1,016,001,239
12/31/1988	38,414,939	33,222,264	(444,343)	103,025,282	(48,627,479)		1,141,591,902
12/31/1989	36,139,394	36,231,108	(424,136)	128,370,680	(55,459,353)		1,286,449,595
12/31/1990	38,668,634	38,960,372	(850,148)	114,218,588	(61,154,261)		1,416,292,780
12/31/1991	38,903,350	39,288,267	(863,301)	148,064,188	(69,348,501)		1,572,336,783
12/31/1992	42,354,843	42,883,874	(909,653)	175,246,400	(75,211,430)		1,756,700,817
12/31/1993	41,596,571	42,266,219	(801,026)	189,281,426	(82,480,713)		1,946,563,294
12/31/1994	42,791,243	43,415,880	(888,518)	136,210,578	(89,707,717)		2,078,384,760
12/31/1995	43,714,263	44,435,762	(937,480)	230,731,781	(99,689,985)		2,296,639,101
12/31/1996	43,495,146	44,761,611	(1,028,163)	233,212,720	(108,536,621)		2,508,543,794
12/31/1997	44,958,544	46,152,691	(1,147,818)	314,340,179	(117,126,096)		2,795,721,294
12/31/1998	46,183,091	47,366,181	(1,074,562)	436,098,461	(123,858,991)		3,200,435,474
12/31/1999	48,681,209	50,106,535	(1,182,899)	475,758,627	(132,428,572)		3,641,370,374
12/31/2000	50,539,675	51,868,059	(1,096,747)	592,379,739	(144,620,949)		4,190,440,151****
12/31/2001	56,517,377	53,792,429	(1,387,930)	439,286,379	(156,189,100)		4,582,462,306
12/31/2002	57,377,428	58,234,324	(1,281,554)	(66,209,697)	(171,160,286)	(106,998,719)	4,352,423,802
12/31/2003	55,363,788	60,848,296	(1,435,922)	376,524,142	(185,826,481)		4,657,897,625
12/31/2004	60,573,670	61,412,824	(1,644,382)	127,831,761	(201,772,174)		4,704,299,324

* Includes other state funding sources.

** Net of Investment Expenses.

*** Includes contributions and investment income net of expenses and benefit payments through December 31, 1985.

**** Includes the effect of the change in actuarial asset method.



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TABLE F

**SUMMARY OF INVESTMENT RESULTS
(ACTUARIAL VALUE BASIS)**

Plan Year	Average Amount of Assets in Fund	Assumed Investment Income		Net Dividends & Interest Income*	Appreciation Recognized**	Total Investment Income		Investment Gain (Loss)
		Amount	%			Amount	%	
1986	\$ 783,667,000	\$ 58,775,000	7.50%	\$ 75,380,000	\$ 23,618,000	\$ 98,998,000	12.6%	\$ 40,223,000
1987	912,362,000	68,427,000	7.50	76,183,000	15,192,000	91,375,000	10.0	22,948,000
1988	1,027,284,000	77,046,000	7.50	86,933,000	16,092,000	103,025,000	10.0	25,979,000
1989	1,149,835,000	86,238,000	7.50	88,865,000	39,506,000	128,371,000	11.7	42,133,000
1990	1,294,112,000	103,529,000	8.00	94,715,000	19,504,000	114,219,000	8.9	10,690,000
1991	1,420,283,000	113,623,000	8.00	99,550,000	48,514,000	148,064,000	10.4	34,441,000
1992	1,576,896,000	126,152,000	8.00	104,559,000	70,687,000	175,246,000	11.2	49,094,000
1993	1,757,392,000	140,591,000	8.00	106,022,000	83,259,000	189,281,000	10.8	48,690,000
1994	1,944,813,000	155,585,000	8.00	110,883,000	25,327,000	136,210,000	7.0	(19,375,000)
1995	2,072,615,000	165,809,000	8.00	117,721,000	113,011,000	230,732,000	11.1	64,923,000
1996	2,286,238,000	182,899,000	8.00	125,022,000	108,191,000	233,213,000	10.2	50,314,000
1997	2,495,225,000	199,618,000	8.00	123,671,000	190,669,000	314,340,000	12.6	114,722,000
1998	2,780,566,000	222,445,000	8.00	98,831,000	337,268,000	436,098,000	15.7	213,654,000
1999	3,183,615,000	254,689,000	8.00	133,493,000	342,266,000	475,759,000	14.9	221,070,000
2000	3,620,264,000	289,621,000	8.00	124,283,000	468,097,000	592,380,000	16.4	302,759,000***
2001	4,167,502,000	333,400,000	8.00	123,241,000	316,045,000	439,286,000	10.5	105,886,000
2002	4,501,189,000	360,095,000	8.00	112,650,000	(178,860,000)	(66,210,000)	(1.5)	(426,305,000)
2003	4,317,617,000	345,409,000	8.00	109,207,000	267,317,000	376,524,000	8.7	31,115,000
2004	4,617,183,000	369,375,000	8.00	97,587,000	30,245,000	127,832,000	2.8	(241,543,000)
Total Amount		\$3,653,326,000		\$ 2,008,796,000	\$ 2,335,947,000	\$ 4,344,743,000		\$ 691,417,000
Average Rate of Investment Income Over Period								10.1%

* Includes securities lending income, and net of rebates, fees, and investment expenses.

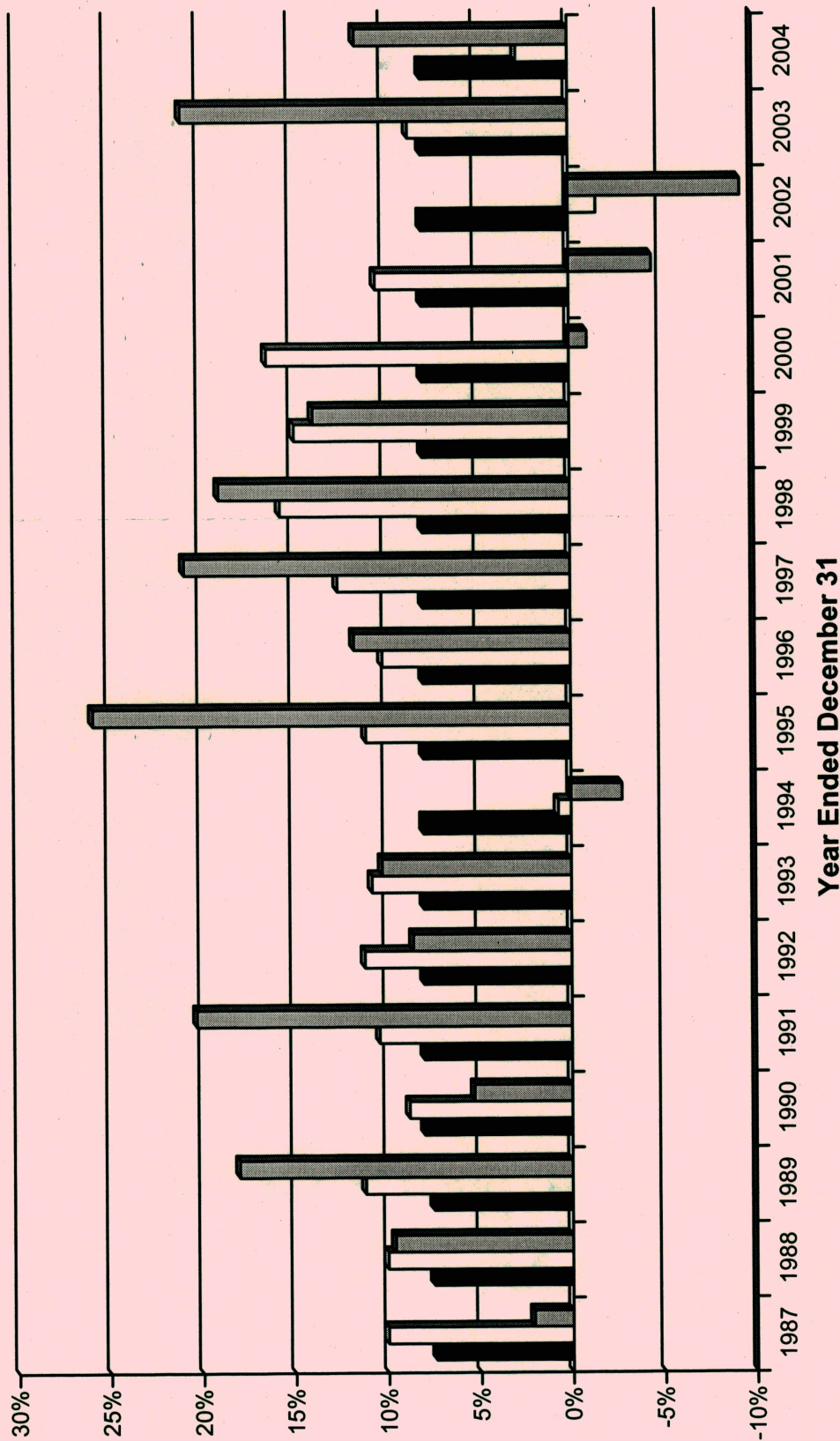
** Recognizes write-up of assets on an actuarial value basis and any adjustments necessary to bring the actuarial value within the 80% to 120% of market value corridor.

*** Includes effect of change in actuarial asset method



Investment Rate of Return

Actuarial Assumption
 Actuarial Value
 Market Value



STATE OF WYOMING RETIREMENT SYSTEM

VI. RESULTS OF ACTUARIAL VALUATION

We have utilized an actuarial cost procedure known as the entry age normal cost method for funding all benefits. This method is used in situations where a cost is desired that will relatively remain level as a percentage of the participating payroll.

Under the entry age normal method, the total contribution requirement has three components: an annual normal cost, an allowance for expenses and a payment with respect to the unfunded actuarial accrued liability (UAAL).

The annual normal cost is calculated as the level percentage of pay required over each employee's period of covered employment to fund the total expected benefits. If the average entry age remains stable, the total normal cost rate should remain a level percentage of payroll.

The normal cost payments are not sufficient to finance the benefit program because credit is given for periods of prior service during which the normal cost contributions were not paid. Additional actuarial liability was also created by changes in the benefits, actuarial assumptions, funding method and by experience which differed from that projected by the actuarial assumptions.

We have calculated the cost of funding (or amortizing) this unfunded actuarial accrued liability over an open period of 30 years as of January 1, 2005. The amortization method uses payments that are assumed to increase at 4.0% per annum, the rate at which total covered payroll is assumed to grow.

Also, the use of a level percentage of payroll amortization can result in an increase in cost on a percentage of payroll basis if the growth in aggregate payroll is less than assumed. This is because, in this situation, the amortization payment would be spread over a lower-than-expected aggregate payroll.

The contribution requirements are shown below.

Contribution Requirements

3.0% COLA	2005 Cost as a % of Salaries	2005 Dollar Cost*	2004 Cost as a % of Salaries
1. Entry Age Normal Cost			
a. Total employee and employer	11.07%	\$ 120,334,000	11.24%
b. Employee share	<u>5.57%</u>	<u>60,531,000</u>	<u>5.57%</u>
c. Employer share equals (a) - (b)	5.50%	\$ 59,803,000	5.67%
2. Cost to Amortize Unfunded Actuarial Accrued Liability	4.35%	47,249,000	2.95%
3. Administrative Expenses	<u>0.15%</u>	<u>1,655,000</u>	<u>0.14%</u>
4. Total Employer Cost	10.00%	\$ 108,707,000	8.76%
5. Total Cost (Employee + Employer)	15.57%	\$ 169,238,000	14.33%

0.0% COLA	2005 Cost as a % of Salaries	2005 Dollar Cost*
1. Entry Age Normal Cost		
a. Total employee and employer	9.23%	\$ 100,351,000
b. Employee share	<u>5.57%</u>	<u>60,531,000</u>
c. Employer share equals (a) - (b)	3.66%	\$ 39,820,000
2. Cost to Amortize Unfunded Actuarial Accrued Liability	(1.60%)	(17,436,000)
3. Administrative Expenses	<u>0.15%</u>	<u>1,655,000</u>
4. Total Employer Cost	2.21%	\$ 24,039,000
5. Total Cost (Employee + Employer)	7.78%	\$ 84,570,000

* Dollar costs based on 2005 estimated payroll of \$1,086,736,000.

STATE OF WYOMING RETIREMENT SYSTEM

VI. RESULTS OF ACTUARIAL VALUATION (continued)

The total employer cost of \$108,707,000 is 10.00% of payroll. This is more than the statutory contribution rate of 5.68% covered payroll. Hence, the current contribution does not meet the contribution requirements based upon the actuarial assumptions, actuarial method and financing objectives accepted by the Board.

Please note that the cost of the system exceeds its funding sources. There are three basic options for addressing this. First, increase contributions. Second, reduce benefits. Third, do nothing and hope that future experience is more favorable than assumed. The asset performance on a market value basis in 2004 was somewhat favorable but there are still unrecognized asset losses.

As of January 1, 2004, the employer cost rate was 8.76%. An explanation of the change since the previous actuarial valuation is as follows:

Employer Cost Rate as of January 1, 2004	8.76%
Increase due to plan or assumption change	0.87%
Increase due to actuarial investment return less than 8%	1.55%
Increase due to contributions below the actuarially determined rate	0.14%
Decrease due to increase in amortization period	(1.4%)
Increase due to other experience factors	<u>0.08%</u>
Employer Cost Rate as of January 1, 2005	10.00%

STATE OF WYOMING RETIREMENT SYSTEM

VII. FUNDING STATUS

One measure of the progress of funding a retirement Plan is by benefit security ratios. The benefit security ratio is the ratio of Plan assets to Plan liabilities. The greater the ratio, the better funded the retirement Plan. This ratio can be calculated using different measures of the retirement Plan's liabilities.

Funding Basis -- Actuarial Accrued Liability

This measure of liabilities is used in calculating pension costs. It uses the Entry Age Normal Actuarial Cost method that spreads costs as a level percentage of payroll over a participant's working career.

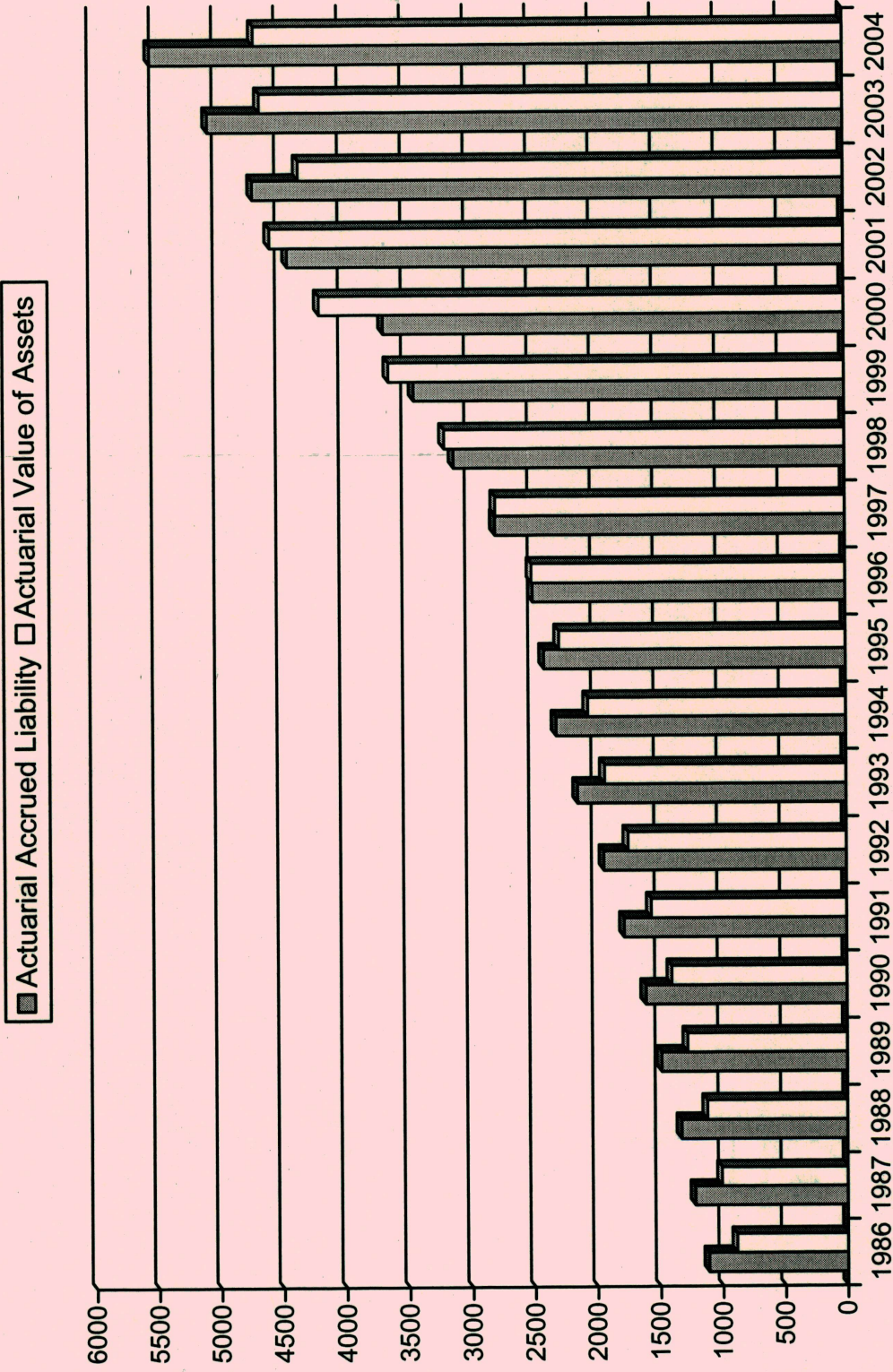
For determining Plan costs, a smoothed value of assets (called actuarial value) is used. Hence, for this ratio, the actuarial value of assets is used.

Historical Results

A comparison of the Actuarial Accrued Liabilities and Actuarial Values of Assets for the last nineteen years are graphed in Chart 3. These ratios are developed in Table G. The graphs show that on a funding basis, the benefit security ratio has steadily improved until 2001. The benefit ratio has decreased since then due to benefit improvements and investment return lower than expected from 2000 through 2002.

Funding ratios change over time due to several factors. These factors include the level of contributions, actual experience (including investment returns), Plan amendments and changes in assumptions.

Actuarial Accrued Liability vs Actuarial Value of Assets



Year Ended December 31



Mellon

TABLE G

BENEFIT SECURITY RATIOS

As of Jan. 1	Actuarial Accrued Liability	Actuarial Value of Assets	Unfunded Actuarial Accrued Liability (UAAL)	Benefit Security Ratio	Covered Payroll	UAAL as % of Covered Payroll
1987	\$ 1,119,666,000	\$ 900,098,000	\$ 219,568,000	80.4%	\$ 700,527,000	31.3%
1988	1,225,515,000	1,016,001,000	209,514,000	82.9	679,401,000	30.8
1989	1,334,110,000	1,141,592,000	192,518,000	85.6	681,101,000	28.3
1990	1,482,235,000	1,286,450,000	195,785,000	86.8	712,693,000	27.5
1991	1,627,934,000	1,416,293,000	211,641,000	87.0	712,860,000	29.7
1992	1,777,417,000	1,572,337,000	205,080,000	88.5	743,632,000	27.6
1993	1,944,477,000	1,756,701,000	187,776,000	90.3	756,248,000	24.8
1994	2,151,784,000	1,946,563,000	205,221,000	90.5	760,859,000	27.0
1995	2,310,624,000	2,078,385,000	232,239,000	90.0	793,782,000	29.3
1996	2,408,980,000	2,296,639,000	112,341,000	95.3	789,639,000	14.2
1997	2,500,667,000	2,508,544,000	(7,877,000)	100.3	803,239,000	(1.0)
1998	2,799,891,000	2,795,721,000	4,170,000	99.9	827,991,000	0.5
1999	3,125,121,000	3,200,435,000	(75,314,000)	102.4	873,530,000	(8.6)
2000	3,440,152,000	3,641,370,000	(201,218,000)	105.8	862,512,000	(23.3)
2001	3,683,174,000	4,190,440,000	(507,266,000)	113.8	897,641,000	(56.5)
2002	4,442,033,000	4,582,462,000	(140,429,000)	103.2	964,121,000	(14.6)
2003	4,718,618,000	4,352,424,000	366,194,000	92.2	988,135,000	37.1
2004	5,077,443,000	4,657,898,000	419,545,000	91.7	1,032,259,000	40.6
2005	5,536,192,000	4,704,299,000	831,893,000	85.0	1,086,736,000	76.5



STATE OF WYOMING RETIREMENT SYSTEM

VIII. ACTUARIAL ASSUMPTIONS AND COST METHOD

The actuarial assumptions and cost method used in this actuarial valuation are the same as that used in the previous valuation. The assumptions and cost method applied in the valuation are described below.

Investment Return

The actuarial calculations are based on the assumption that the effective return on the assets of the Retirement System will be 8.0% per annum net of investment expenses. This includes 3.0% for inflation and 5.0% real rate of return.

Salary Increases and Inflation

A salary scale is used in an actuarial valuation to estimate the salary progression of employees in the future.

The long-term salary increase assumption is 5.0% per year. It includes 3.0% for inflation, as assumed in the investment yield. There is an allowance for 1.0% for standard-of-living growth per year and 1.0% annually for merit, promotion and longevity.

The salary scale used in this actuarial valuation does not necessarily take full account of general across-the-board increases in salaries resulting from inflation and other factors under short-term current conditions. This is because actuarial assumptions are meant to be reasonable over the long-term and should not be unduly influenced by short-term economic conditions.

The following is a summary of the long-term economic assumptions applied in this valuation:

Investment yield	8.00%
Salary increases	5.00%
Inflation	3.00%

Demographic Assumptions

Assumptions as to retirement incidence, withdrawal, disability and mortality are specified in Exhibit III of the actuarial certification.

Funding Method

For purposes of determining pension costs, the entry age normal actuarial cost method has been used. It is used in situations where a cost is desired that will remain relatively level as a percentage of the participating payroll.

Under the entry age normal actuarial cost method, the total contribution requirement has three components: an annual normal cost, an operating expense component and a payment with respect to the unfunded actuarial accrued liability.

The annual normal cost is calculated for each employee as the level percentage of pay required over the employee's period of covered employment to pay the total expected benefits. If the actuarial assumptions remain unchanged and actuarial experience matches them, the normal cost rate for each employee will remain a level percentage of payroll.

STATE OF WYOMING RETIREMENT SYSTEM

VIII. ACTUARIAL ASSUMPTIONS AND COST METHOD (continued)

Unfunded actuarial accrued liability amounts are created by actuarial losses, changes in the actuarial assumptions and liberalizations in the benefit provisions. The unfunded liability is amortized over an open 30-year period from January 1, 2005, using payments that rise 4.0% per annum. Such payments should remain a level percentage of aggregate salaries, since covered payroll is assumed to increase at the combined inflation and standard-of-living growth of 4.0% annually.

Assets

The assets are valued on a moving market-related basis for actuarial purposes. Interest and dividends are recognized immediately. The actuarial value includes the difference between expected appreciation and actual appreciation and depreciation, whether realized or not, spread over five years beginning with the year of occurrence. This procedure results in recognition of all changes in market value after five years. If the actuarial asset value is less than 80% of market value, or more than 120%, an adjustment will be made to bring it within that range.

Beginning January 1, 2001, the amount smoothed is the difference between the actual appreciation or depreciation and the expected appreciation, based on the market value of assets and on 8% total investment return.



May 11, 2005

STATE OF WYOMING RETIREMENT SYSTEM

Actuarial Valuation Certificate

This is to certify that we have prepared an Actuarial Valuation of the Plan as of January 1, 2005, in accordance with generally accepted actuarial principles and practices.

The certificate contains the following attached exhibits:

- I. Actuarial Valuation Results
- II. Changes in Actuarial Assumptions and Methods
- III. Actuarial Assumptions and Cost Method
- IV. Plan Amendments
- V. Summary of Plan Provisions

The valuation is based on information supplied by the Retirement Office with respect to participants and by McGee, Hearne & Paiz, LLP for financial data. We have not verified, and customarily would not verify, such information, but we have had no reason to doubt its substantial accuracy.

In our opinion, the assumptions used in the aggregate: (a) are reasonably related to the experience of the Plan and to reasonable expectations; and (b) represent our best estimate of anticipated experience under the Plan.

David H. Slisinsky, ASA, EA, MAAA
Principal and Consulting Actuary

Elena V. Black, FSA, EA, MAAA
Senior Consultant, Actuary

ACTUARIAL VALUATION RESULTS

	<u>3.0% COLA</u>	<u>0.0% COLA</u>
1. Actuarial Accrued Liability on January 1, 2005:		
a. Active employees	\$ 2,944,033,000	\$ 2,371,088,000
b. Retired members and beneficiaries	2,344,578,000	1,820,116,000
c. Inactive nonretired members	<u>247,581,000</u>	<u>206,097,000</u>
d. Total	\$ 5,536,192,000	\$ 4,397,301,000
2. Assets of the Fund on December 31, 2004 at actuarial value*	\$ 4,704,299,000	\$ 4,704,299,000
3. Unfunded actuarial accrued liability -- equals (1) - (2)	\$ 831,893,000	\$ (306,998,000)
4. Employee and employer normal cost for ensuing year	\$ 120,334,000	\$ 100,351,000
5. Estimated annual salaries of covered employees.....	\$ 1,086,736,000	\$ 1,086,736,000
6. Employee normal cost	\$ 60,531,000	\$ 60,531,000
7. Employer normal cost for ensuing year equals (4) - (6)	\$ 59,803,000	\$ 39,820,000
8. Amortization payment - equals 30-year amortization of item (3) as a level percent of aggregate salary	\$ 47,249,000	\$ (17,436,000)
9. Expected Administrative expenses	\$ 1,655,000	\$ 1,655,000
10. Total employer cost for ensuing year -- equals (7) + (8) + (9).....	\$ 108,707,000	\$ 24,039,000
11. Total employer cost as percentage of payroll -- equals (10) ÷ (5).....	10.00%	2.21%

* \$4,693,824,018 at market value.

The current statutory contribution rate is sufficient to fund an annual cost-of-living adjustment (COLA) of 1.42% per year on an actuarially sound basis. When liabilities are measured with a COLA of 1.42%, the funded ratio on an Actuarial Value of Assets basis is 96.0%, while on a Market Value of Assets basis it is 95.8%.

CHANGES IN ACTUARIAL ASSUMPTIONS & METHODS

It was adopted by the WRS Retirement Board during the May 21, 2004 Board Meeting to apply an open 30-year amortization period to amortize the Unfunded Actuarial Accrued Liability starting with the January 1, 2005 valuation.

One of the strong recommendations of Milliman's Actuarial Audit was to change the method of valuing deferred vested participants benefits. They felt that valuing this group's liability by using their accumulated contributions with interest was understating the true liability for this population. Their recommendation in absence of calculating all deferred vested benefits was to apply a loading multiplicative factor to the accumulated contributions to estimate the present value of the deferred benefits for this population. To improve the accuracy of measuring liabilities for deferred vested participants, starting with the January 1, 2005 valuation we have included a load on accumulated member contributions. We estimated this load factor by comparing the present value of deferred benefits versus their accumulated contributions with interest for the group of new vested terminations during the past two years for the State System.

ACTUARIAL ASSUMPTIONS AND COST METHOD

Mortality Rates:

Healthy Lives: 1994 Group Annuity Mortality Table (with margins)

Disabled Lives: 1979 PBGC Disabled Lives Receiving Social Security

Termination Rates before retirement:

Sample Rates:

RATE					
Death				Withdrawal	
Age	Male	Female	Disability	Male	Female
25	.07%	.03%	--	31.91%	36.56%
30	.08%	.04%	.01%	18.38%	22.50%
35	.09%	.05%	.01%	10.03%	13.10%
40	.11%	.07%	.01%	7.61%	10.72%
45	.16%	.10%	.06%	7.29%	10.32%
50	.26%	.14%	.16%	6.32%	8.43%
55	.44%	.23%	.40%	4.62%	6.2%
60	.80%	.44%	--	--	--

Retirement Rates:

<u>Age</u>	<u>Rate of Retirement (Examples Shown)</u>
50	2%
55	6%
60	15%
62	25%
65	33%
70	100%

ACTUARIAL ASSUMPTIONS AND COST METHOD

Interest Rate:	8.0% per annum, net of investment expenses
Salary Scale:	5.0% per annum
Payroll Growth:	4.0% per annum
Inflation:	3.0% per annum
Increase in Section 415 Maximum Pension and Section 401(a)(17) Limit on Compensation:	3.0% per annum
Interest on Member Contributions:	5.5% per annum
Cost Method:	Entry Age Normal Actuarial Cost Method

Liability for Vested Inactive Non Retired Members:

No data is available for members entitled to deferred benefits. The present value of benefits expected to be paid to vested inactive nonretired members is approximated as (a) 190% of accumulated member contribution balances for benefits valued with a 3% COLA, and (b) 160% of accumulated member contribution balances for benefits valued with no (0%) COLA.

Actuarial Value of Assets:

Adjusted market value that immediately recognizes interest and dividends. The procedure recognizes 20% of each plan year's total appreciation (depreciation) in excess of the expected return on a market value basis beginning with the year of occurrence. After five years, the appreciation (depreciation) is fully recognized. If the adjusted market value is less than 80% of market value, or more than 120%, an adjustment will be made to bring it within that range.

Administrative Expenses:

Annual administrative expenses are assumed to increase 5% per year. Expenses for the valuation year are projected at this rate based on the prior two years' average adjusted expenses.

Cost-of-Living Adjustments:

It is assumed that the maximum 3.0% COLA will be awarded every year. In addition, results are presented assuming no future COLAs are granted. Whenever the maximum COLA cannot be provided, we include the COLA level that can be provided on an actuarially sound basis.

Benefit Commencement Age:

It is assumed that members who terminate with a vested deferred benefit will commence payment at age 60.

PLAN AMENDMENTS

As of January 1, 2005, there were no amendments to the plan provisions since the last actuarial valuation as of January 1, 2004.

SUMMARY OF PLAN PROVISIONS

Following are the major benefit provisions of the State of Wyoming Retirement System. This summary is not intended to be a complete statement of all provisions of the Retirement System.

1. Service Retirement

Eligibility Members may retire from active service with age 60 and at least four years of service or combined age plus service of 85 or more points and receive full benefits. Members may take early retirement at age 50 with at least four years of service, or any age with at least 25 years of service, with benefits reduced by 5.0% per year for retirement prior to 60.

Benefit Calculated in two parts, (A) plus (B)

A. **Pre-1975 Benefits.** The larger of the monthly benefits calculated under the following two formulas (1) and (2):

1. The amount of employee and matching employer contributions, with interest (currently 5.5%), is used to *purchase* an annuity based upon a unisex actuarial factor. The monthly benefit thus obtained is increased as approved by the 1967, 1973 and 1975 legislature as follows:
 - 1967 increase -- 25% (but not more than \$25 per month)
 - 1973 increase -- 40%
 - 1975 increase -- 20%
2. Calculate pre-1975 benefits as 2.125% of the average earnings for the three highest years of service, times years of service prior to July 1, 1975, for the first 15 years of service credit, plus 2.25% of the average earnings for the three highest years of service for any years of service credit exceeding 15 years. This amount is reduced by 5.0% per year for retirement prior to age 60. However, members retiring with a combined age and service of 85 receive an unreduced benefit prior to age 60.

B. **Post-1975 Benefits.** The larger of the monthly benefits calculated under the following two formulas (1) and (2):

1. The same formula as for 1953-1975 benefits, except that the 20% increase does not apply.

2. 2.125% of the average earnings for the three highest years of service, times years of service after July 1, 1975, for the first 15 years of service credit, plus 2.25% of the average earnings for the three highest years of service for any years of service credit exceeding 15 years. This amount is reduced by 5.0% per year for retirement prior to age 60. However, members retiring with a combined age and service of 85 receive an unreduced benefit prior to age 60.

NOTE: Employees hired on and after July 1, 1981 will only be entitled to the benefit described under B.2. above.

2. Options

Option 1 Monthly benefit for life, with a lump-sum death benefit equal to the excess (if any) of the employee contributions with interest over the total monthly benefits received. A choice of any option other than Option 1 changes the monthly benefit payable.

Option 2 Monthly benefit for life, with 100% of the benefit continuing for the life of the beneficiary.

Option 3 Monthly benefit for life, with 50% of the benefit continuing for the life of the beneficiary.

Option 4 Monthly benefit for life, with a guarantee of 120 monthly payments.

Option 5 Monthly benefit for life, with no death benefit. The choice of this option increases the monthly benefit slightly.

Option 6 Monthly benefit for life, with 100% of the benefit continuing for the life of the beneficiary. Benefit reverts to Option 1 amount but without cash refund feature at beneficiary's death.

Option 7 Monthly benefit for life, with 50% of the benefit continuing for the life of the beneficiary. Benefit reverts to Option 1 amount but without cash refund feature at beneficiary's death.

3. Disability Retirement

Eligibility Disability prior to age 60, after 10 or more years of service.

Benefit 100% of the service retirement benefit, calculated using Option 1 as if the employee were 60 years of age and service as of date of disability.



4. Vesting

An employee who terminates after at least 48 months of service can elect either to leave his contributions in the Retirement System and receive a service retirement benefit as described above, or to receive a lump-sum return of his contributions (including employer subsidies) with interest. An employee who terminates with less than 48 months of service is eligible only for the lump-sum benefit.

5. Preretirement Death Benefit

The beneficiary of a vested employee can elect either to receive a monthly benefit based on the beneficiary's age and the calculation method described above for service retirement, or to receive a lump-sum payment of two times the employee contributions, with interest. The beneficiary of an employee who dies prior to achieving vested status is eligible for the lump-sum benefit only.

6. Contributions

Currently 5.57% of salary by employee and 5.68% of salary by employer. The employer may subsidize all or part of the employee contributions. Interest is currently being credited at the rate of 5.50% on accumulated contributions.

7. Ad Hoc Benefit Increases to Retirees

Ad hoc adjustments have been made to benefit payments. The most recent one was effective July 2001, for all retirees and beneficiaries. This increased pensions by \$3 monthly per year of service.

8. Cost-of-Living Adjustments

Benefits will increase by the lesser of 3.0% per year, or the increase in the Consumer Price Index. The Board may elect not to grant the full cost-of-living increase in any given year if the System's actuary determines such increases would not be actuarially sound. If the increase in the CPI exceeds the actual COLA granted in any year, the excess increase will be set aside and applied toward any future year in which the CPI increase is less than 3.0%. The first increase for a retiree is on the July 1 following two years of retirement. The first adjustments occurred in 1991.

CENSUS TABLES

Table Designation

I. Active Employees

A. Number of active employees grouped by five-year age and service cells

Males	1-A
Females	1-B
Males and Females, combined	1-C

B. Salaries of active employees grouped by five-year age and service cells

All Members	2
-------------	---

II. Inactive Participants

A. Number of inactive participants grouped by five-year age and service cells

Males	3-A
Females	3-B
Males and Females, combined	3-C

III. Retired Participants

A. Summary of all retired participants by benefit option and sex

4

B. Distribution of pensions in force by amount of benefit and benefit option

5

C. Distribution of pensions in force by age and benefit option

Males	6-A
Females	6-B
Males and Females, combined	6-C

D. Distribution of pensions awarded during 2004 by amount of benefit and benefit option

7

E. Distribution of pensions awarded during 2004 by age and benefit option

8

F. Average monthly benefit by years elapsed since retirement and years of service at retirement

9

G. Distribution of retired participants by date of retirement

10

NOTE: See page 30 for description of benefit options by Code number.



CENSUS OF EMPLOYEES IN ACTIVE SERVICE ON DECEMBER 31, 2004

MALES

Age Last Birthday	Years of Service								Total
	0-4	5-9	10-14	15-19	20-24	25-29	30-34	Over 34	
15-19	20	-	-	-	-	-	-	-	20
20-24	279	4	-	-	-	-	-	-	283
25-29	634	92	-	-	-	-	-	-	728
30-34	549	350	60	-	-	-	-	-	959
35-39	507	339	294	81	2	-	-	-	1,223
40-44	494	303	277	257	150	12	-	-	1,493
45-49	502	291	257	297	413	129	5	-	1,894
50-54	464	270	257	307	357	415	78	-	2,148
55-59	402	217	231	242	271	261	169	34	1,827
60-64	186	127	92	109	107	74	57	49	801
Over 64	107	67	48	29	27	22	7	11	318
Total	4,144	2,060	1,518	1,322	1,327	913	316	94	11,694

Average Age = 46.8 Average Service = 11.4



CENSUS OF EMPLOYEES IN ACTIVE SERVICE ON DECEMBER 31, 2004

FEMALES

Age Last Birthday	Years of Service										Total
	0-4	5-9	10-14	15-19	20-24	25-29	30-34	Over 34			
15-19	33	-	-	-	-	-	-	-	-	-	33
20-24	588	4	-	-	-	-	-	-	-	-	592
25-29	1,229	150	1	-	-	-	-	-	-	-	1,380
30-34	1,089	522	103	1	-	-	-	-	-	-	1,715
35-39	1,079	490	347	83	5	-	-	-	-	-	2,004
40-44	1,211	767	428	338	168	9	-	-	-	-	2,921
45-49	1,084	828	653	476	492	260	9	-	-	-	3,802
50-54	788	706	632	588	609	479	119	1	-	-	3,922
55-59	513	390	416	418	461	365	141	16	-	-	2,720
60-64	196	152	149	181	193	132	53	21	-	-	1,077
Over 64	90	37	56	32	23	18	11	7	-	-	274
Total	7,900	4,046	2,785	2,117	1,951	1,263	333	45	20,440		

Average Age = 45.8 Average Service = 10.1



CENSUS OF EMPLOYEES IN ACTIVE SERVICE ON DECEMBER 31, 2004

MALES AND FEMALES COMBINED

Age Last Birthday	Years of Service									Total
	0-4	5-9	10-14	15-19	20-24	25-29	30-34	Over 34		
15-19	53	-	-	-	-	-	-	-	-	53
20-24	867	8	-	-	-	-	-	-	-	875
25-29	1,863	242	3	-	-	-	-	-	-	2,108
30-34	1,638	872	163	1	-	-	-	-	-	2,674
35-39	1,586	829	641	164	7	-	-	-	-	3,227
40-44	1,705	1,070	705	595	318	21	-	-	-	4,414
45-49	1,586	1,119	910	773	905	389	14	-	-	5,696
50-54	1,252	976	889	895	966	894	197	1	-	6,070
55-59	915	607	647	660	732	626	310	50	-	4,547
60-64	382	279	241	290	300	206	110	70	-	1,878
Over 64	197	104	104	61	50	40	18	18	-	592
Total	12,044	6,106	4,303	3,439	3,278	2,176	649	139	139	32,134

Average Age = 46.1 Average Service = 10.5

SALARIES OF EMPLOYEES IN ACTIVE SERVICE ON DECEMBER 31, 2004
ALL MEMBERS

Age Last Birthday	Years of Service										Total		
	0-4	5-9	10-14	15-19	20-24	25-29	30-34	Over 34					
15-19	Number 53	-	-	-	-	-	-	-	-	-	-	-	53
	Tot Salary 524,819	-	-	-	-	-	-	-	-	-	-	-	524,819
	Avg. Salary 9,902	-	-	-	-	-	-	-	-	-	-	-	9,902
20-24	Number 867	8	-	-	-	-	-	-	-	-	-	-	875
	Tot Salary 16,394,717	191,493	-	-	-	-	-	-	-	-	-	-	16,586,210
	Avg. Salary 18,910	23,937	-	-	-	-	-	-	-	-	-	-	18,956
25-29	Number 1,863	242	3	-	-	-	-	-	-	-	-	-	2,108
	Tot Salary 46,841,880	7,433,474	96,677	-	-	-	-	-	-	-	-	-	54,372,031
	Avg. Salary 25,143	30,717	32,226	-	-	-	-	-	-	-	-	-	25,793
30-34	Number 1,638	872	163	1	-	-	-	-	-	-	-	-	2,674
	Tot Salary 41,465,360	30,055,626	5,967,895	28,928	-	-	-	-	-	-	-	-	77,517,809
	Avg. Salary 25,315	34,467	36,613	28,928	-	-	-	-	-	-	-	-	28,989
35-39	Number 1,586	829	641	164	7	-	-	-	-	-	-	-	3,227
	Tot Salary 39,151,849	28,266,812	26,476,101	6,747,308	250,836	-	-	-	-	-	-	-	100,892,906
	Avg. Salary 24,686	34,097	41,304	41,142	35,834	-	-	-	-	-	-	-	31,265
40-44	Number 1,705	1,070	705	595	318	21	-	-	-	-	-	-	4,414
	Tot Salary 40,241,707	31,902,592	26,512,656	25,419,766	14,124,605	827,250	-	-	-	-	-	-	139,028,576
	Avg. Salary 23,602	29,816	37,607	42,722	44,417	39,393	-	-	-	-	-	-	31,497
45-49	Number 1,586	1,119	910	773	905	389	14	-	-	-	-	-	5,696
	Tot Salary 39,626,072	32,810,446	31,706,844	31,446,157	42,876,210	17,687,004	563,943	-	-	-	-	-	196,716,676
	Avg. Salary 24,985	29,321	34,843	40,681	47,377	45,468	40,282	-	-	-	-	-	34,536
50-54	Number 1,252	976	889	895	966	894	197	1	-	-	-	-	6,070
	Tot Salary 31,946,623	27,595,114	31,062,421	34,699,492	43,155,937	44,918,621	9,944,245	33,412	-	-	-	-	223,355,865
	Avg. Salary 25,516	28,274	34,941	38,770	44,675	50,245	50,478	33,412	-	-	-	-	36,797
55-59	Number 915	607	647	660	732	626	310	50	-	-	-	-	4,547
	Tot Salary 24,467,342	18,397,665	22,594,527	25,208,912	31,095,467	29,543,181	16,022,328	2,603,392	-	-	-	-	169,932,814
	Avg. Salary 26,740	30,309	34,922	38,195	42,480	47,194	51,685	52,068	-	-	-	-	37,373
60-64	Number 382	279	241	290	300	206	110	70	-	-	-	-	1,878
	Tot Salary 9,426,147	7,716,323	7,312,564	10,565,918	11,835,307	8,904,206	5,960,854	3,622,001	-	-	-	-	65,343,320
	Avg. Salary 24,676	27,657	30,343	36,434	39,451	43,224	54,190	51,743	-	-	-	-	34,794
Over 64	Number 197	104	104	61	50	40	18	18	-	-	-	-	592
	Tot Salary 3,113,579	2,458,231	3,141,555	2,073,637	1,803,692	1,583,156	915,795	934,412	-	-	-	-	16,024,057
	Avg. Salary 15,805	23,637	30,207	33,994	36,074	39,579	50,877	51,912	-	-	-	-	27,068
Total	Number 12,044	6,106	4,303	3,439	3,278	2,176	649	139	-	-	-	-	32,134
	Tot Salary 293,200,095	186,827,776	154,871,240	136,190,118	145,142,054	103,463,418	33,407,165	7,193,217	-	-	-	-	1,060,295,083
	Avg. Salary 24,344	30,597	35,991	39,602	44,278	47,548	51,475	51,750	-	-	-	-	32,996

Average Age = 46.1 Average Service = 10.5



CENSUS OF DEFERRED VESTED PARTICIPANTS ON DECEMBER 31, 2004

MALES

Age Last Birthday	Years of Service										Total	
	0-4	5-9	10-14	15-19	20-24	25-29	30-34	Over 34				
15-19	-	-	-	-	-	-	-	-	-	-	-	-
20-24	-	-	-	-	-	-	-	-	-	-	-	-
25-29	6	1	-	-	-	-	-	-	-	-	-	7
30-34	20	24	1	-	-	-	-	-	-	-	-	45
35-39	25	57	16	-	-	-	-	-	-	-	-	98
40-44	38	93	43	20	-	-	-	-	-	-	-	194
45-49	31	113	73	58	20	1	-	-	-	-	-	296
50-54	50	175	105	62	30	13	1	-	-	-	-	436
55-59	48	136	92	43	22	8	1	-	-	-	-	350
60-64	21	69	26	8	4	2	1	-	-	-	-	131
Over 64	23	30	10	-	1	-	-	-	-	-	-	64
Total	262	698	366	191	77	24	3	-	-	-	-	1,621

Average Age = 51.5 Average Service = 10.1

CENSUS OF DEFERRED VESTED PARTICIPANTS ON DECEMBER 31, 2004

FEMALES

Age Last Birthday	Years of Service								Total
	0-4	5-9	10-14	15-19	20-24	25-29	30-34	Over 34	
15-19	-	-	-	-	-	-	-	-	-
20-24	-	-	-	-	-	-	-	-	-
25-29	10	14	-	-	-	-	-	-	24
30-34	38	72	1	-	-	-	-	-	111
35-39	43	139	27	2	-	-	-	-	211
40-44	82	177	91	14	4	-	-	-	368
45-49	103	289	162	55	20	1	-	-	630
50-54	93	372	194	86	55	12	-	-	812
55-59	93	276	172	93	31	12	1	-	678
60-64	37	121	51	20	7	3	1	-	240
Over 64	41	77	23	9	1	1	-	-	152
Total	540	1,537	721	279	118	29	2	-	3,226

Average Age = 51.3 Average Service = 9.4

CENSUS OF DEFERRED VESTED PARTICIPANTS ON DECEMBER 31, 2004

MALES AND FEMALES COMBINED

Age Last Birthday	Years of Service								Total
	0-4	5-9	10-14	15-19	20-24	25-29	30-34	Over 34	
15-19	-	-	-	-	-	-	-	-	-
20-24	-	-	-	-	-	-	-	-	-
25-29	16	15	-	-	-	-	-	-	31
30-34	58	96	2	-	-	-	-	-	156
35-39	68	196	43	2	-	-	-	-	309
40-44	120	270	134	34	4	-	-	-	562
45-49	134	402	235	113	40	2	-	-	926
50-54	143	547	299	148	85	25	1	-	1,248
55-59	141	412	264	136	53	20	2	-	1,028
60-64	58	190	77	28	11	5	2	-	371
Over 64	64	107	33	9	2	1	-	-	216
Total	802	2,235	1,087	470	195	53	5	-	4,847

Average Age = 50.8 Average Service = 9.2

RETIRES AS OF DECEMBER 31, 2004

	NUMBER		MONTHLY AMOUNT	
	Male	Female	Total	Total
<u>Pensioners</u>				
Option 1	1,618	4,479	6,097	\$ 1,870,718 \$ 3,807,065 \$ 5,677,783
Option 2	2,876	1,389	4,265	3,906,727 1,162,728 5,069,455
Option 3	486	279	765	860,077 299,117 1,159,194
Option 4	282	398	680	315,477 300,110 615,587
Option 5	296	1,001	1,297	337,751 792,438 1,130,189
Option 6	515	476	991	675,881 486,437 1,162,318
Option 7	145	173	318	263,393 234,601 497,994
<u>Total</u>	6,218	8,195	14,413	8,230,024 7,082,496 15,312,520
<u>Beneficiaries</u>	238	1,300	1,538	175,094 1,152,927 1,328,021
Grand Total	6,456	9,495	15,951	8,405,118 8,235,423 16,640,541

RETIREE BENEFITS IN FORCE BY AMOUNT AND OPTION TYPE

	PENSION OPTION						
	1	2	3	4	5	6	7
Males							
Total	456	141	195	9	28	42	39
Under \$200		141	195	9	28	42	39
\$200-\$399	768	246	349	24	37	39	65
\$400-\$599	779	242	335	44	43	44	63
\$600-\$799	644	182	279	48	36	34	53
\$800-\$999	515	150	237	33	19	25	41
\$1,000-\$1,499	997	270	454	103	53	37	60
\$1,500-\$1,999	757	160	386	72	32	27	60
\$2,000-\$2,499	692	116	352	79	18	30	73
\$2,500 & Over	848	177	400	108	26	31	65
Total	6,456	1,684	2,987	520	292	309	519

Females							
Total	1,101	535	256	16	61	183	47
Under \$200		535	256	16	61	183	47
\$200-\$399	1,805	915	438	65	95	204	78
\$400-\$599	1,531	798	357	53	66	166	68
\$600-\$799	1,232	641	288	60	55	113	57
\$800-\$999	844	421	196	47	41	71	48
\$1,000-\$1,499	1,379	654	356	84	50	129	69
\$1,500-\$1,999	727	347	177	40	17	66	51
\$2,000-\$2,499	501	222	123	29	22	46	43
\$2,500 & Over	375	182	75	9	13	47	29
Total	9,495	4,715	2,266	403	420	1,025	490

Males & Females							
Total	15,951	6,399	5,253	923	712	1,334	1,009
Under \$200		676	451	25	89	225	86
\$200-\$399	2,573	1,161	787	89	132	243	143
\$400-\$599	2,310	1,040	692	97	109	210	131
\$600-\$799	1,876	823	567	108	91	147	110
\$800-\$999	1,359	571	433	80	60	96	89
\$1,000-\$1,499	2,376	924	810	187	103	166	129
\$1,500-\$1,999	1,484	507	563	112	49	93	111
\$2,000-\$2,499	1,193	338	475	108	40	76	116
\$2,500 & Over	1,223	359	475	117	39	78	94
Total	15,951	6,399	5,253	923	712	1,334	1,009



**PENSIONS IN FORCE ON DECEMBER 31, 2004
BY OPTION AND NEAREST AGE ON THAT DATE**

MALES

Age Last Birthday	Pension Option							Total
	1	2	3	4	5	6	7	
0-49	8	8	2	1	-	-	-	19
50-54	37	61	5	10	3	18	3	137
55-59	147	254	26	26	29	89	21	592
60-64	301	568	74	67	58	179	45	1,292
65-69	326	674	114	50	80	137	43	1,424
70-74	284	581	115	47	49	77	23	1,176
75-79	273	433	102	56	49	17	10	940
80-84	186	252	63	23	25	1	-	550
Over 84	122	156	19	12	16	1	-	326
Total	1,684	2,987	520	292	309	519	145	6,456

PENSIONS IN FORCE ON DECEMBER 31, 2004
BY OPTION AND NEAREST AGE ON THAT DATE

FEMALES

Age Last Birthday	Pension Option							Total
	1	2	3	4	5	6	7	
0-49	24	28	4	4	1	1	-	62
50-54	106	69	3	24	12	28	4	246
55-59	328	188	32	59	64	136	27	834
60-64	743	394	59	91	148	167	66	1,668
65-69	937	391	82	87	218	109	53	1,877
70-74	812	373	83	77	192	37	19	1,593
75-79	737	369	67	36	188	10	5	1,412
80-84	504	254	48	31	111	1	2	951
Over 84	524	200	25	11	91	1	-	852
Total	4,715	2,266	403	420	1,025	490	176	9,495

**PENSIONS IN FORCE ON DECEMBER 31, 2004
BY OPTION AND NEAREST AGE ON THAT DATE**

MALES & FEMALES COMBINED

Age Last Birthday	Pension Option							Total
	1	2	3	4	5	6	7	
0-49	32	36	6	5	1	1	0	81
50-54	143	130	8	34	15	46	7	383
55-59	475	442	58	85	93	225	48	1,426
60-64	1,044	962	133	158	206	346	111	2,960
65-69	1,263	1,065	196	137	298	246	96	3,301
70-74	1,096	954	198	124	241	114	42	2,769
75-79	1,010	802	169	92	237	27	15	2,352
80-84	690	506	111	54	136	2	2	1,501
Over 84	646	356	44	23	107	2	0	1,178
Total	6,399	5,253	923	712	1,334	1,009	321	15,951

PENSIONS AWARDED IN 2004 BY OPTION AND MONTHLY AMOUNT

MALES & FEMALES COMBINED

Monthly Amount	Pension Option							Total
	1	2	3	4	5	6	7	
0-199	22	14		5	8	20	1	70
200-399	32	20	1	5	4	18	3	83
400-599	30	23	4	3	8	15	4	87
600-799	25	20	4	1	11	12	3	76
800-999	22	24	1	2	5	10	-	64
1000-1499	43	40	3	2	13	16	5	122
1500-1999	38	39	6	1	9	23	6	122
2000-2499	31	28	8	2	7	25	7	108
Over 2499	34	75	9	9	10	18	6	161
Total	277	283	36	30	75	157	35	893

**PENSIONS AWARDED IN 2004
BY OPTION AND NEAREST AGE ON THAT DATE**

MALES & FEMALES COMBINED

Nearest Age	Pension Option							Total
	1	2	3	4	5	6	7	
0-49	2	8	1	-	-	-	-	11
50-54	28	32	3	5	8	22	2	100
55-59	76	81	14	10	21	53	14	269
60-64	124	119	16	10	29	65	15	378
65-69	43	30	2	3	14	17	4	113
70-74	3	12	-	2	2	-	-	19
75-79	1	1	-	-	1	-	-	3
80-84	-	-	-	-	-	-	-	-
Over 84	-	-	-	-	-	-	-	-
Total	277	283	36	30	75	157	35	893

TABLE 9

AVERAGE MONTHLY BENEFIT OF RETIREES AS OF DECEMBER 31, 2004, BY YEARS ELAPSED SINCE RETIREMENT AND BY YEARS OF SERVICE AT RETIREMENT (EACH CELL INCLUDES NUMBER OF RETIREES AND AVERAGE BENEFIT)

Service at Retirement	Years Elapsed Since Retirement										Total
	0-4	5-9	10-14	15-19	20-24	25-29	30-34	Over 34			
0-4	153	176	169	186	124	42	12	-	862		
Avg. Benefit	188.00	207.42	148.87	163.92	172.24	171.95	211.18		176.37		
5-9	569	543	591	567	324	198	90	3	2,885		
Avg. Benefit	360.88	319.47	304.34	321.96	289.20	276.69	257.79	212.38	316.66		
10-14	610	727	690	519	239	193	62	9	3,049		
Avg. Benefit	600.11	597.80	564.16	551.67	455.64	456.07	385.99	440.57	557.91		
15-19	675	779	524	438	229	103	62	3	2,813		
Avg. Benefit	935.65	904.09	865.00	846.76	693.34	617.18	595.26	693.42	860.76		
20-24	667	601	366	374	156	116	30	1	2,311		
Avg. Benefit	1,330.92	1,290.49	1,227.16	1,195.37	915.41	835.90	765.95	751.67	1,221.56		
25-29	685	557	283	296	141	43	11	2	2,018		
Avg. Benefit	1,972.14	1,824.58	1,804.55	1,544.41	1,196.53	984.53	951.52	825.70	1,763.23		
30-34	540	426	281	244	68	14	3	-	1,576		
Avg. Benefit	2,603.67	2,486.94	2,498.29	2,115.74	1,644.31	1,195.25	859.29		2,420.56		
35-39	116	87	113	43	12	6	6	3	386		
Avg. Benefit	3,199.09	2,979.64	2,986.75	2,390.90	2,040.52	1,145.98	1,214.86	1,250.17	2,883.51		
40 and over	14	15	6	7	3	5	1	-	51		
Avg. Benefit	3,581.40	3,328.59	2,345.54	2,475.61	1,812.54	1,350.47	1,403.47		2,844.40		
Total	4,029	3,911	3,023	2,674	1,296	720	277	21	15,951		
Avg. Benefit	1,314.86	1,152.99	1,012.56	901.58	645.05	532.30	473.97	611.24	1,043.33		

Average Service at Retirement = 17.5 Average Years Since Retirement = 11.5



**DISTRIBUTION OF RETIRED PARTICIPANTS BY DATE OF RETIREMENT
BASED ON CALENDAR YEARS**

<u>Year of Retirement</u>	<u>Counts</u>	<u>Year of Retirement</u>	<u>Counts</u>
1956	1	1981	255
1957	0	1982	234
1958	0	1983	258
1959	0	1984	357
1960	0	1985	410
1961	0	1986	468
1962	0	1987	716
1963	2	1988	568
1964	2	1989	512
1965	2	1990	517
1966	2	1991	541
1967	6	1992	678
1968	3	1993	621
1969	3	1994	666
1970	9	1995	1,062
1971	65	1996	690
1972	45	1997	712
1973	70	1998	711
1974	88	1999	736
1975	95	2000	721
1976	119	2001	792
1977	146	2002	766
1978	173	2003	858
1979	187	2004	892
1980	192		

Total: 15,951



Key Findings of Actuarial Valuation

- Investments returned 11.5% in 2004 measured on Market Value
- On smoothed basis, a.k.a. Actuarial Value, investments returned 2.8%
- Funding levels acceptable in Paid Fire systems, but others are in shortfall
 - Maximum COLA's not affordable except for Law Enforcement
- This is due to recent improvements in benefits along with two years of negative returns being recognized
- Wyoming Retirement System Funding Margin shortfall is 4.32% (based on 3% COLA)
- Reduced COLA's need to be considered again this year
- Continued rebound in assets for positive funding margin needed to grant maximum COLA

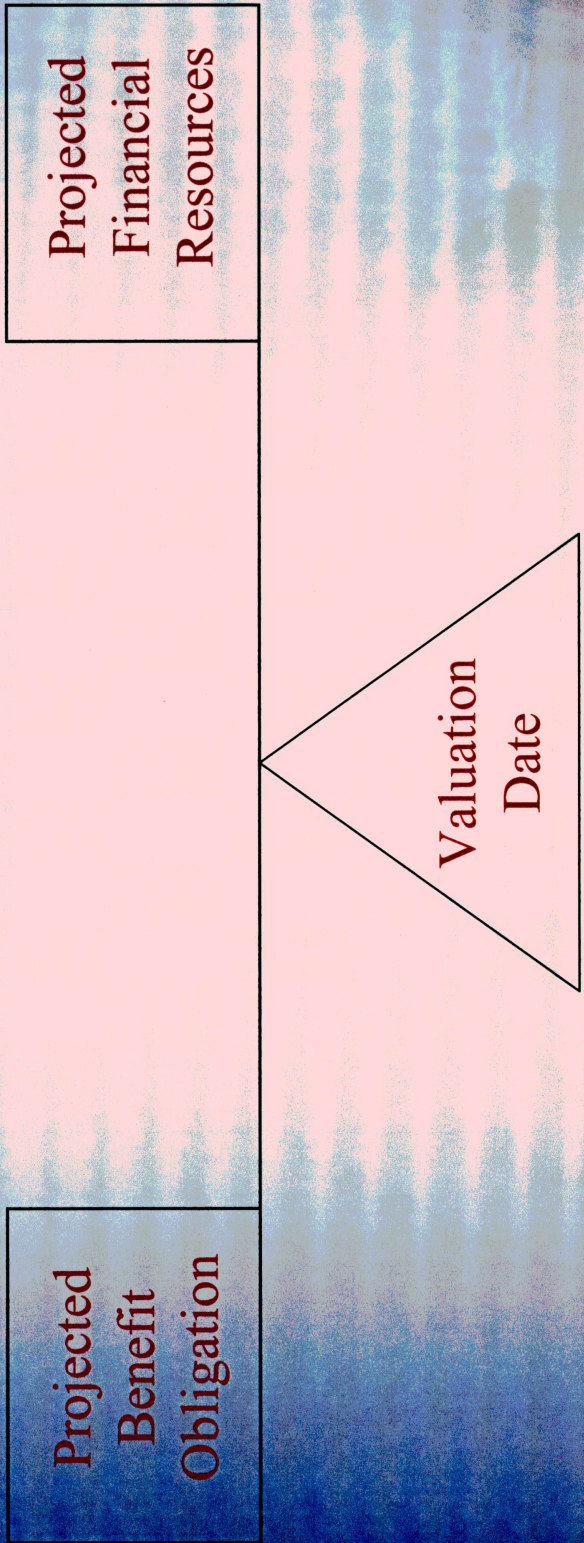
Actuarial Valuation Review

- What is it?
 - A snapshot of the actuarial position of a pension plan at a given point in time
 - Includes a measurement of the benefit obligation
 - Calculations performed on each member and summed
 - Compares benefit obligation with financial resources
 - Determines annual contribution or actuarial soundness
- What does it provide?
 - A basis for the projection of the long term cost of benefit obligations
 - Understanding and confidence in the current financial soundness of a pension system
 - Early warning system for potential funding problems

Actuarial Valuation Review

- What does the process include?
 - Membership data.
 - Financial data.
 - Benefit structure.
 - Actuarial assumptions.
 - Cost method.
 - Asset valuation method.
- What it doesn't tell you:
 - Actuarial position on future dates.
 - Effect of future new members.
 - Impact of future plan changes.

Actuarial Balance



*Over the life of a pension system,
Benefits + Expenses = Contributions + Investment Return*

Actuarial Methods

- Entry Age Normal Cost Method
 - Unfunded liability
 - Normal cost
 - Gains/Losses adjust unfunded
- Unfunded Liability is amortized over rolling 30-year period
 - Total payroll assumed to increase 4.0% annually for ongoing, pay related plans
 - Amortization methodology meets GASB parameters
- Asset Valuation Method
 - 5-Year smoothing of appreciation or depreciation
- Actuarial Contribution is equal to the Normal Cost plus an amortization payment toward the Unfunded Liability

Funding Process

Present Value of Future Benefits (PVFB)

Present Value of Future Normal Cost (PVFNC)

Contribution as % of Pay

X%

Past Service Cost
or
Accrued Liability

Date of Hire

0%

Annual Normal Cost

Future Normal Cost

Valuation Date (VD) (01/05)

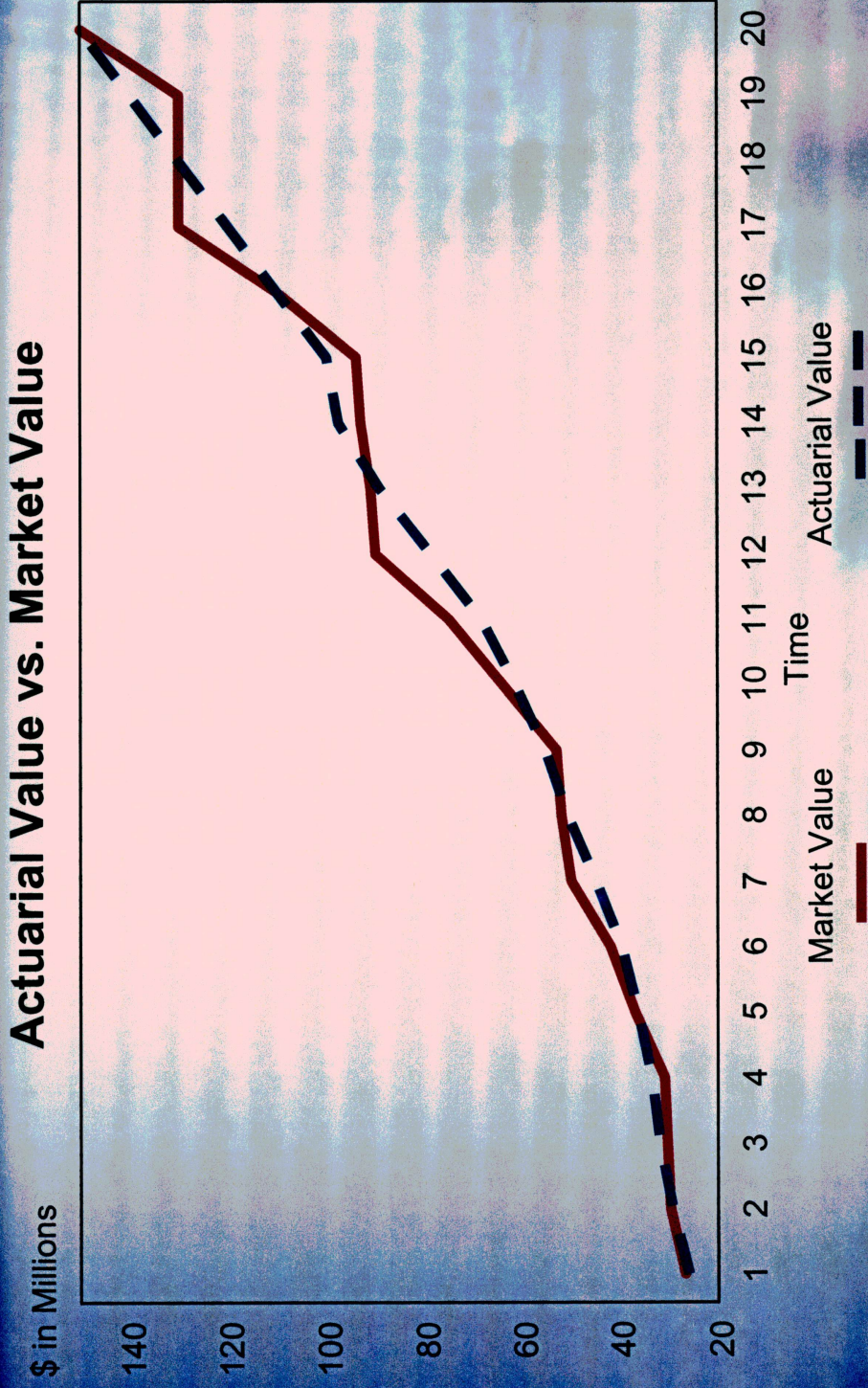
01/06

Date of Retirement

Service Period

Accrued Liability - Assets = Unfunded/(Surplus)

Example of Asset Smoothing Method



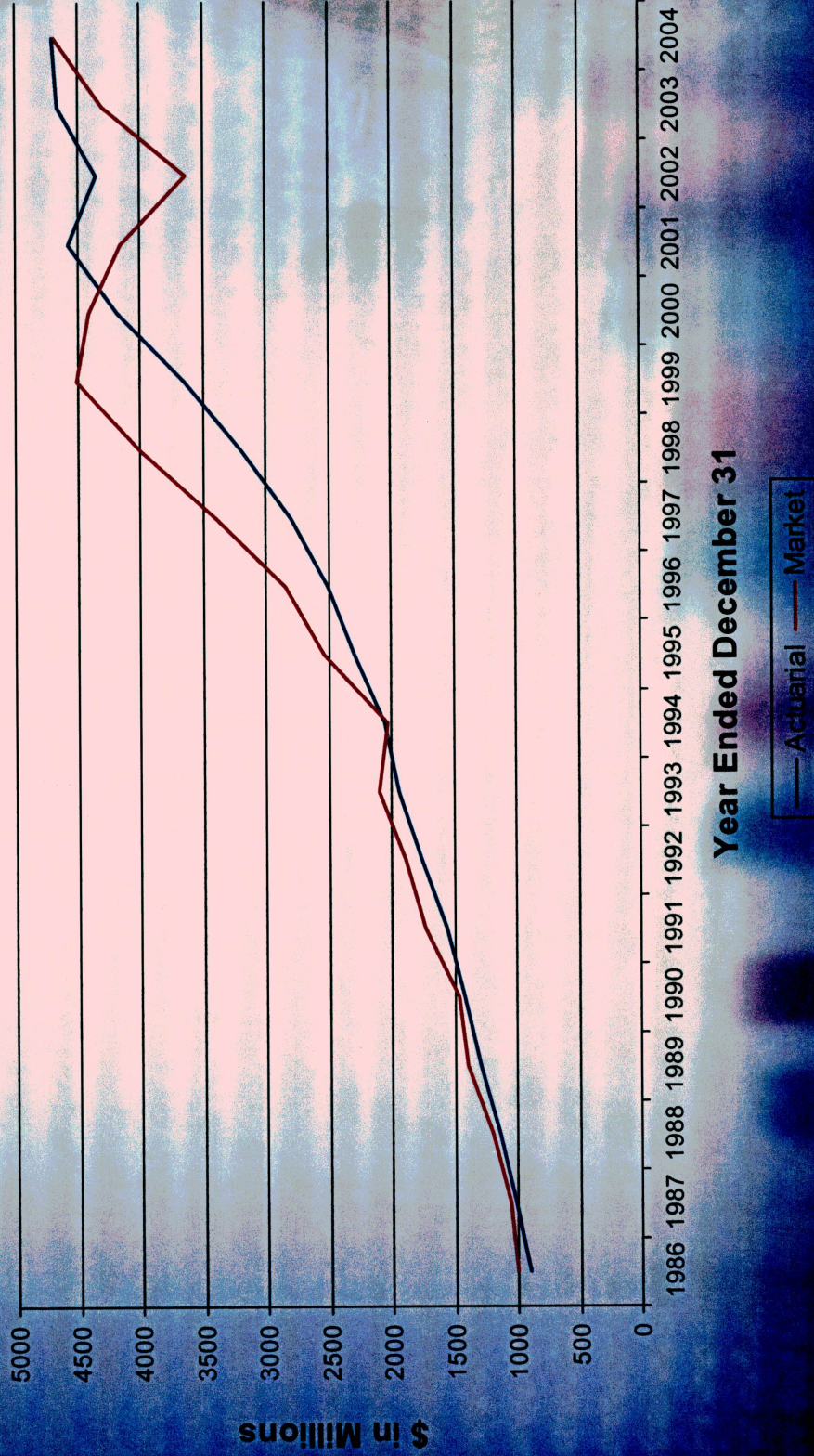
Actuarial Value is expected to be:

- ◆ Below Market when market is doing well
- ◆ Above Market when market is doing poorly



Wyoming Retirement System Actual History (1986 – 2004)

Actuarial Value vs. Market Value



Wyoming Retirement System Plans

Summary of Funding Position

	Actuarial Value of Assets	Actuarial Accrued Liability	Funded Percentage*
<i>As of January 1, 2005</i>			
- Wyoming Retirement System	\$4,704	\$5,536	85%
- Law Enforcement	231	260	89%
- Paid Fire Plan A	192	186	103%
- Paid Fire Plan B	47	41	115%
- Warden and Patrol	86	96	90%
- Judicial	5	9	59%
<i>As of January 1, 2004</i>			
- Wyoming Retirement System	\$4,658	\$5,077	92%
- Law Enforcement	205	236	87%
- Paid Fire Plan A	200	181	110%
- Paid Fire Plan B	43	35	123%
- Warden and Patrol	85	90	94%
- Judicial	4	8	43%

Max
Based on giving allowed

All \$ figures are in millions
 Some numbers do not match the report due to rounding.



Principal Actuarial Assumptions Big System

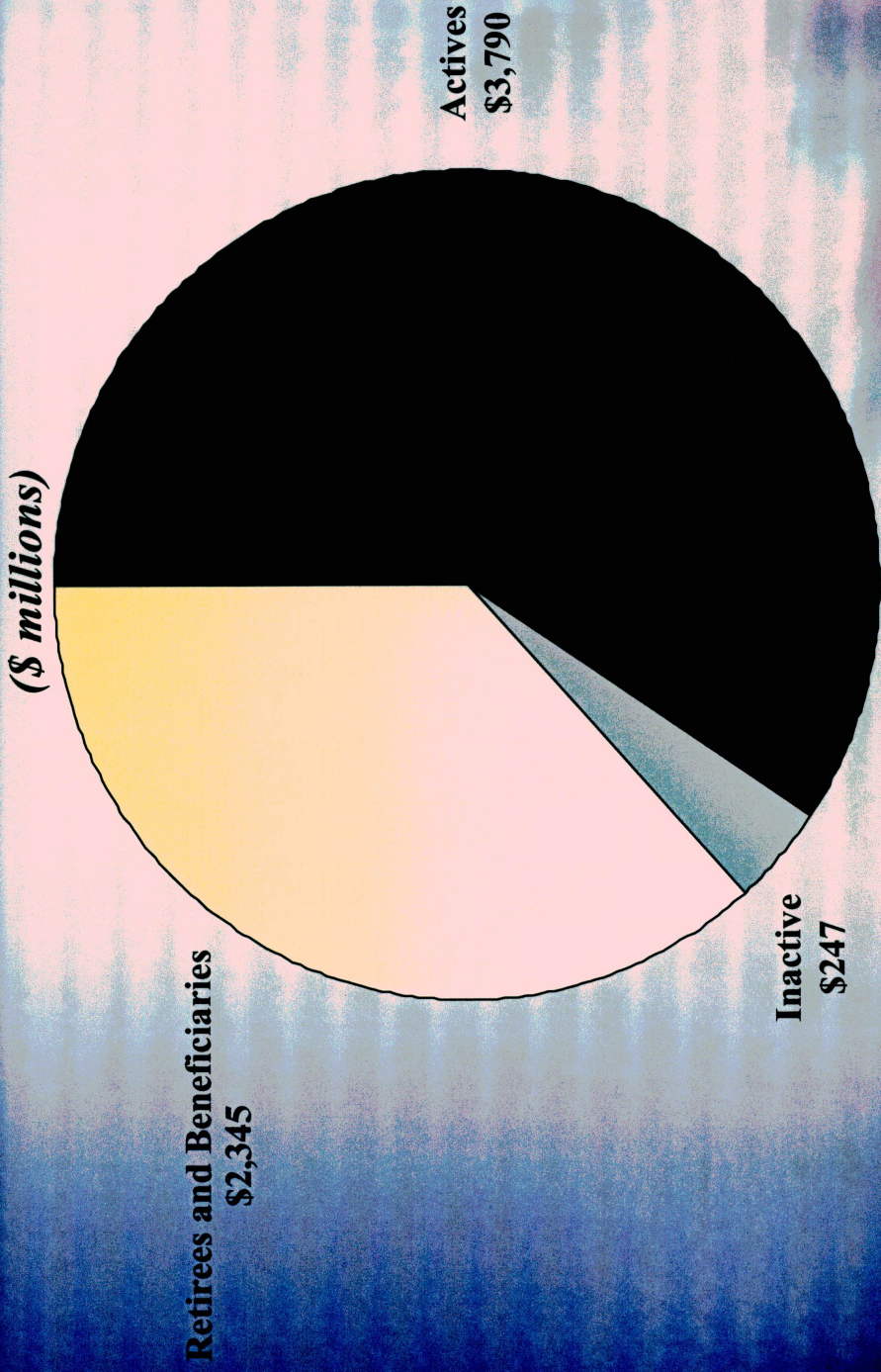
- Investment Return 8.0%, net of investment expenses
- Salary Increases 5.0% individual; 4.0% system-wide
- Retirement Age Varying retirement rates, ages 50-70
- Cost of Living Up to 3% maximum annual increase
- Mortality 1994 Group Annuity Mortality table, sex distinct
- Termination and Disability Experience tables

What Does an Actuarial Valuation Tell You?

- Present Value of Expected Future Benefit Payments, based on:
 - Expected Future Benefit Payments
 - 8% Discount Rate
 - 3% COLA
- Normal Cost tells you the cost of accruing benefits
- Actuarial Accrued Liability tells you where Funding should be if experience was as assumed
- An Unfunded Liability means your funding is currently behind expected levels
- A Surplus, or negative Unfunded Liability means your funding is ahead of expected levels

Wyoming Retirement System

Present Value of Future Benefits



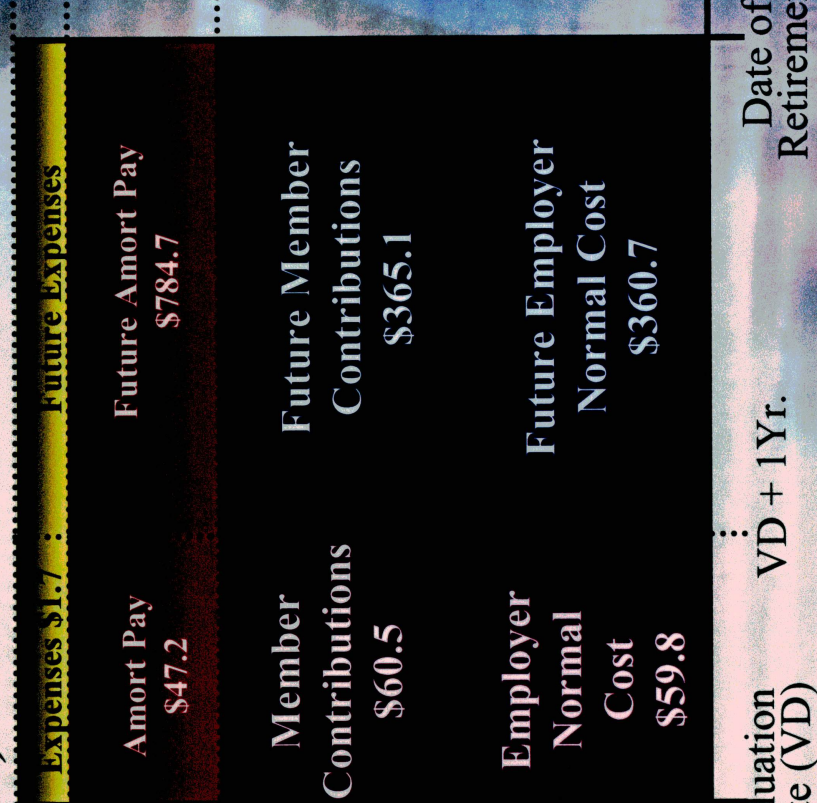
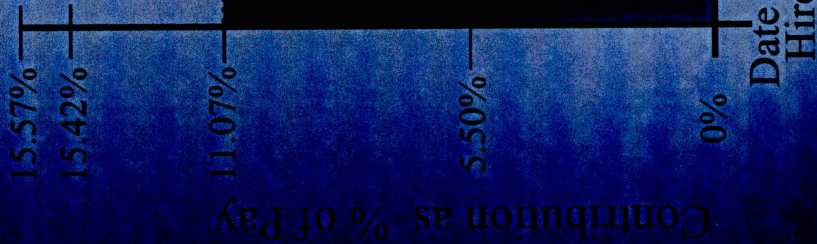
TOTAL PRESENT VALUE: \$6,382 million
TOTAL ACTUARIAL VALUE OF ASSETS: \$4,704 million
TOTAL MARKET VALUE OF ASSETS: \$4,694 million

Wyoming Retirement System

Funding Progress at January 1, 2005

Funding for Maximum 3% COLA

(\$ millions)



Assets
\$4,704.3

Unfunded Liability
\$831.9

Service Period

Valuation Date (VD) VD + 1 Yr. Date of Retirement

Accrued Liability - Assets = Unfunded/(Surplus)
 $\$5,536.2 - \$4,704.3 = \$831.9$
 Funding Percent: 85.0%



Wyoming Retirement System

Changes Resulting From Actuarial Audit

- Deferred vested member liability increased to consider higher expected value of monthly benefit payments
 - Increased Actuarial Accrued Liability by 2.1% for 3% COLA, or \$112.6 million
- Other minor programming changes made and recognition of securities lending income considered in Actuarial Value of Assets did not have a material impact on the actuarial results

What About COLA Increase Assumptions?

- Actuarial valuation performed using 3% COLA assumption
- 3% assumption not affordable in the long run
 - Based on current actuarial valuation
 - Based on current asset levels
 - Based on 8% future return
 - Based on future demographic changes as assumed
- Actuarial results support a 1.42% COLA
- The 1.42% COLA can be maintained long-term and meets the Board's funding policy; therefore, the plan is actuarially sound

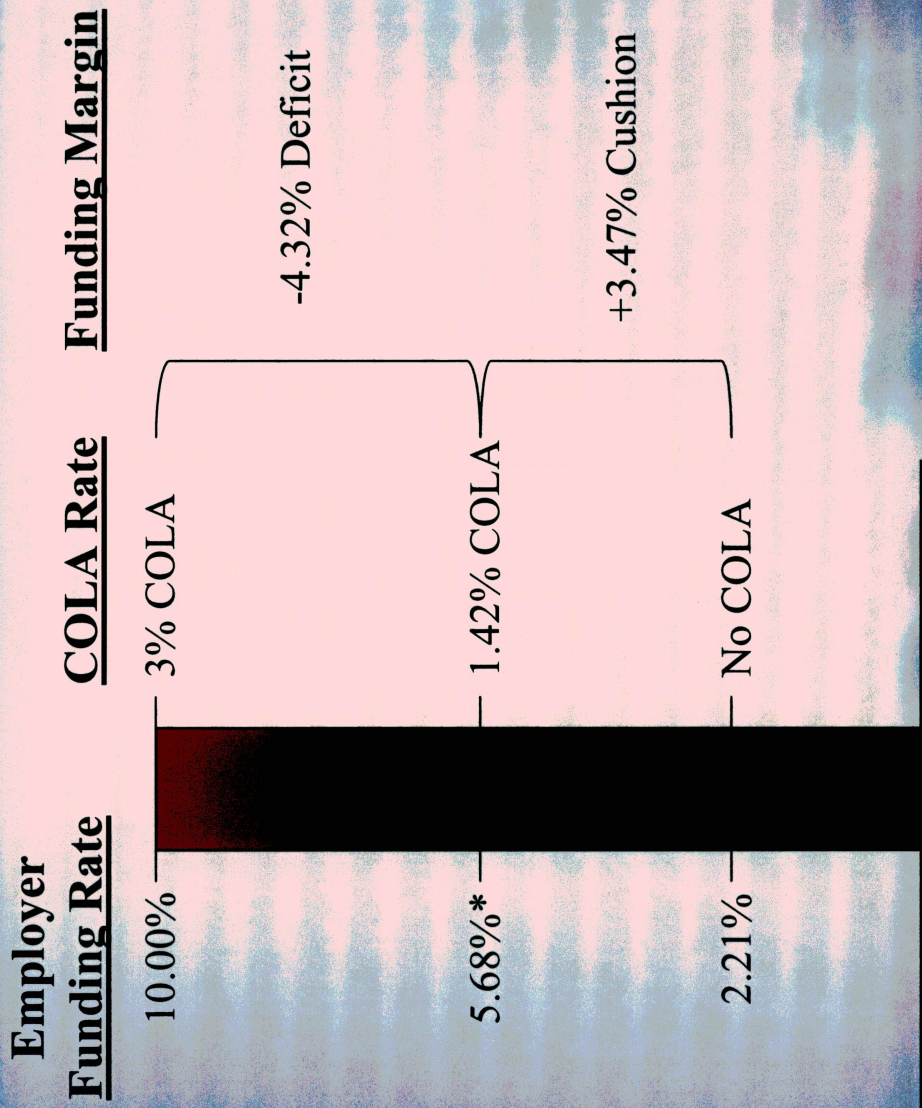
Wyoming Retirement System

Development of Funding Margin

• Normal Cost	<u>3% COLA</u>
• Member Contributions	11.07%
• Employer Share of Normal Cost	<u>5.57%</u>
• Amortization of Unfunded Liability (30 years)	5.50%
• Administrative Expenses	4.35%
• Total Employer Cost	<u>0.15%</u>
• Statutory Employer Contribution	10.00%
• Funding Margin/(Deficit)	<u>5.68%</u> <u>(4.32%)</u>

Wyoming Retirement System

Illustration of Funding Margin



*Current Statutory Employer Rate

What COLA Policy Should The Board Adopt?

- The 1.42% COLA can be maintained long-term and meets the Board's funding policy; therefore, the plan is actuarially sound
- We propose 1.4% COLA for this year
- Continued annual monitoring
- If experience continues as expected, the 1.4% COLA can be maintained in future years
- If situation improves enough, will be able to grant full 3.0% again
- If situation deteriorates further, lower COLA's will be granted in the future

Wyoming Retirement System

Comparative Summary of Key Demographic Information

	Valuation Date		Change
	01/01/04	01/01/05	
Number of Members			
- Active	31,494	32,134	+ 640
- Retirees, Disableds and Beneficiaries	15,392	15,951	+ 559
- Inactive Vested Members	4,745	4,847	+ 102
Total	51,631	52,932	+ 1,301
Projected Payroll (\$ millions)	\$ 1,032	\$ 1,087	+ 55
Active Averages			
- Age (years)	45.9	46.1	+ 0.2 years
- Service (years)	10.5	10.5	+ 0.0 years
Annual Disbursements (Prior Year)			
- Pensions (\$millions)	\$ 176.4	\$ 192.6	+ \$16.2
- Refunds (\$millions)	\$ 9.5	\$ 9.1	- \$0.4

Wyoming Retirement System

History of Funding Percentage

