

JUNE 30, 2005
POST RETIREMENT BENEFITS ANALYSIS
OF
THE VERMONT STATE TEACHERS'
RETIREMENT SYSTEM

February, 2006

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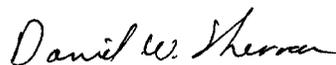
SECTION I - OVERVIEW

The Board of Trustees of the Vermont State Teachers' Retirement System has engaged Buck to prepare an actuarial valuation of their post-retirement benefits program as of June 30, 2005. The State Treasurer's Office provided the employee data and premium information used in the completion of this study.

The purposes of the valuation are to measure the current liabilities of the System for its post-retirement benefits program, to determine the level of contributions necessary to assure sound funding of such benefits and to provide reporting and disclosure information for financial statements, governmental agencies and other interested parties. This valuation report contains information that will be required in future fiscal years for compliance with the Government Accounting Standards Board's Statements 43 and 45, which relate to accounting and financial for post-employment benefits other than pensions.

We performed the calculations presented in this study on two bases. Under one, it is assumed the System's post-retirement medical benefits other than pensions are funded on a basis similar to that used for pensions. Under the second, it is assumed that there is no pre-funding of such benefits. Section II provides a summary of the principal valuation results. Section V provides a projection of expense and funding amounts.

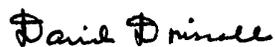
Respectfully Submitted,
Buck Consultants, LLC



Daniel W. Sherman, ASA, MAAA, EA
Director and Consulting Actuary

February 28, 2006

Date



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February 28, 2006

Date

SECTION I - OVERVIEW

Before adjustment for a change in our interpretation of system provisions (see below) the system experienced a net increase in the accrued liability for post-retirement benefits over the past year primarily due to an increase of 12% in premiums for most covered participants (a 9% increase had been assumed in the prior valuation), and a net increase in the participant population from 13,267 to 13,898. Although some may elect coverage in the future, current terminated vested participants were excluded from the valuation.

The economic actuarial assumptions used in this valuation are the same as those used last year except for the discount rate used in the no pre-funding scenario and the healthcare cost inflation rates. The discount rate used for calculations that presume no pre-funding of benefits occurs has been raised from 2% to 3.75% to better reflect expected rates of return on short-term financial assets. Assumed rates of health care cost increases were raised by 1% for each of the next four years, which effectively pushed out the point at which the ultimate rate of 5% is reached by one year. All demographic assumptions are the same as those used in the pension actuarial valuation. We modified the actuarial method of determining the liability attributable to spouses of current and future retirees. The previous method used the current premium for retirees electing family coverage and applied a probability to the continuation of coverage for the spouse at the lower rate. This year, we determined the weighted average premiums for all participants and did not include a contingency for a spouse's benefit. The result of this change was a reduction of approximately 10% in the liabilities developed.

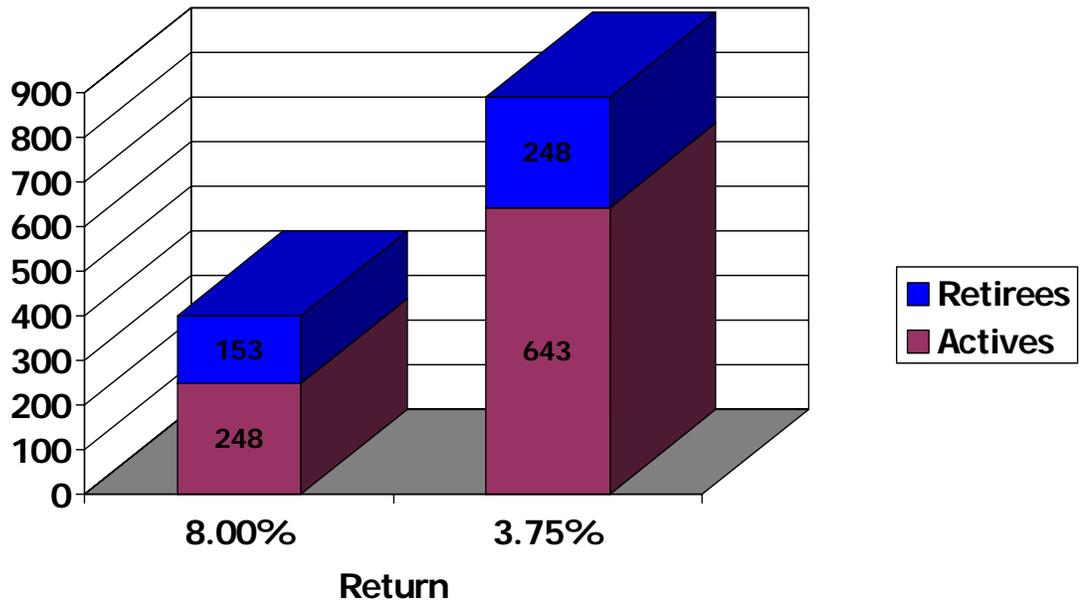
Our valuation does not include potential Medicare Part D subsidies. If it did, liabilities and costs would be lowered.

SECTION II – REQUIRED INFORMATION

	<u>Pre-Funding Basis</u>	<u>Pay-as-you-go Basis</u>
a) Assumed investment return	8%	3.75%
b) Actuarial value of assets	\$ 0	\$ 0
c) Actuarial accrued liability		
Active Participants	\$ 248,286,315	\$ 642,548,984
Retired Participants	<u>153,394,151</u>	<u>247,863,530</u>
Total	\$ 401,680,466	\$ 890,412,514
d) Unfunded actuarial liability (c. – b.)	\$ 401,680,466	\$ 890,412,514
e) Funded ratio (c. / b.)	0%	0%
f) Annual covered payroll	\$ 486,857,658	\$ 486,857,658
g) Unfunded actuarial liability as percentage of covered payroll	82.5%	182.9%
h) Normal Cost for the 2006 fiscal year	\$ 15,416,668	\$ 48,643,463
i) Amortization of unfunded actuarial liability For the 2006 fiscal year (30-year)	\$ <u>21,122,664</u>	\$ <u>25,746,014</u>
j) Annual Required Contribution (ARC) For the 2006 fiscal year (h. + i.)	\$ 36,539,332	\$ 74,389,477
k) Expected benefit payments	\$ 11,790,525	\$ 11,790,525
l) Increase in annual cost to fund the Plan (j. – k.)	\$ 24,748,807	\$ n/a

SECTION II – REQUIRED INFORMATION

Actuarial Accrued Liability in \$millions

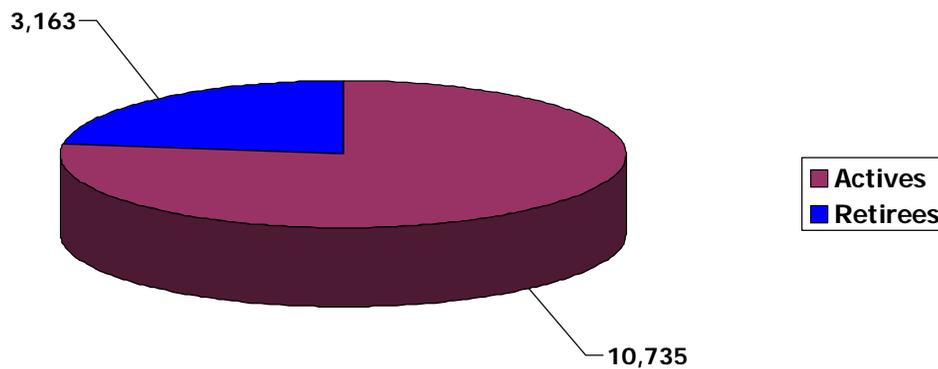


SECTION III - MEMBERSHIP DATA AND MEDICAL PREMIUM

Number of participants included in valuation

	<u>2005</u>	<u>2004</u>
Actives	10,735	10,315
Retired	<u>3,163</u>	<u>2,952</u>
Total	13,898	13,267

Participants



Monthly State Costs for the 2006 Fiscal Year

<u>Plan</u>	<u>State Share</u>	<u>Increase from</u> <u>2005</u>
JY		
Retiree under 65	\$347.11	12.0%
Retiree over 65	\$279.47	12.0%
Retiree over 65 without Medicare	\$347.11	12.0%
\$250 Comprehensive Plan		
Retiree under 65	\$347.11	12.0%
Retiree over 65	\$279.47	12.0%
Vermont Health Partnership		
Retiree under 65	\$347.11	12.0%
JY, Comp, MediComp Carveout	\$347.11	12.0%
MediComp C Plan		
Medicare Eligible, over 65	\$138.89	6.9%
Dependents	\$138.89	6.9%

SECTION IV – REQUIRED SUPPLEMENTARY INFORMATION

SCHEDULE OF FUNDING PROGRESS

(dollar amounts in thousands)

Actuarial Valuation Date	Actuarial Value of Assets (a)	Actuarial Accrued Liability (AAL) (b)	Unfunded AAL (UAAL) (b)-(a)	Funded Ratio (a)/(b)	Covered Payroll (c)	UAAL as a Percentage of Covered Payroll [(b)-(a)]/(c)
June 30, 2005	\$0	\$401,680	\$401,680	0%	\$486,857	82.5%

Assuming a discount rate of 8%.

SCHEDULE OF FUNDING PROGRESS

(dollar amounts in thousands)

Actuarial Valuation Date	Actuarial Value of Assets (a)	Actuarial Accrued Liability (AAL) (b)	Unfunded AAL (UAAL) (b)-(a)	Funded Ratio (a)/(b)	Covered Payroll (c)	UAAL as a Percentage of Covered Payroll [(b)-(a)]/(c)
June 30, 2005	\$0	\$890,412	\$890,412	0%	\$486,857	182.9%

Assuming a discount rate of 3.75%.

SECTION V – FORECASTS

The Government Accounting Standards Board's Statements 43 and 45 on Accounting and Financial Reporting for Postemployment Benefits Other Than Pensions outline various requirements of a funding schedule that will amortize the unfunded actuarial liability and cover normal costs. Amortization of the unfunded actuarial liability is to be based on a schedule that extends no longer than 30 years. The contribution towards the amortization of the unfunded actuarial liability may be made in level payments or in payments increasing at the same rate as assumed salary increases.

In the amortization schedule shown on the following page, the amortization of the unfunded accrued liability is made in installments that increase annually by 5%. The normal cost is expected to increase at the same rate as the assumed ultimate health care trend rate and a modest amount of growth in the active population for the next few years. The contributions were computed assuming that the contribution is paid on June 30, at the end of the fiscal year. Below is a comparison of the forecasted Annual Required Contributions, computed under discount rates of 8% and 3.75%.

SECTION V – FORECASTS

FORECAST OF FUNDING AND GASB EXPENSE UNDER A DISCOUNT RATE OF 8%

Fiscal Year Ending in	Normal Cost (Service Cost)	Amortization of the Unfunded Actuarial Liability	Total State Contribution (ARC)
2006	15,416,668	21,122,664	36,539,332
2007	16,804,168	22,178,797	38,982,965
2008	18,148,501	23,287,737	41,436,238
2009	19,418,896	24,452,123	43,871,019
2010	20,584,030	25,674,730	46,258,760
2011	21,613,232	26,958,466	48,571,698
2012	22,693,894	28,306,389	51,000,283
2013	23,828,589	29,721,709	53,550,298
2014	25,020,018	31,207,794	56,227,812
2015	26,271,019	32,768,184	59,039,203
2016	27,584,570	34,406,593	61,991,163
2017	28,963,799	36,126,923	65,090,722
2018	30,411,989	37,933,269	68,345,258
2019	31,932,588	39,829,932	71,762,520
2020	33,529,217	41,821,429	75,350,646
2021	35,205,678	43,912,500	79,118,178
2022	36,965,962	46,108,126	83,074,088
2023	38,814,260	48,413,532	87,227,792
2024	40,754,973	50,834,208	91,589,181
2025	42,792,722	53,375,919	96,168,641
2026	44,932,358	56,044,715	100,977,073
2027	47,178,976	58,846,950	106,025,926
2028	49,537,925	61,789,298	111,327,223
2029	52,014,821	64,878,763	116,893,584
2030	54,615,562	68,122,701	122,738,263
2031	57,346,340	71,528,836	128,875,176
2032	60,213,657	75,105,278	135,318,935
2033	63,224,340	78,860,542	142,084,882
2034	66,385,557	82,803,569	149,189,126
2035	69,704,835	86,943,747	156,648,582
2036	73,190,077	0	73,190,077

SECTION V – FORECASTS

FORECAST OF FUNDING AND GASB EXPENSE UNDER A DISCOUNT RATE OF 3.75%

Fiscal Year Ending in	Normal Cost (Service Cost)	Amortization of the Unfunded Actuarial Liability	Total State Contribution (ARC)
2006	48,643,463	25,746,014	74,389,477
2007	53,021,375	27,033,315	80,054,690
2008	57,263,085	28,384,981	85,648,066
2009	61,271,501	29,804,230	91,075,731
2010	64,947,791	31,294,441	96,242,232
2011	68,195,181	32,859,163	101,054,344
2012	71,604,940	34,502,122	106,107,062
2013	75,185,187	36,227,228	111,412,415
2014	78,944,446	38,038,589	116,983,035
2015	82,891,668	39,940,519	122,832,187
2016	87,036,251	41,937,544	128,973,795
2017	91,388,064	44,034,422	135,422,486
2018	95,957,467	46,236,143	142,193,610
2019	100,755,340	48,547,950	149,303,290
2020	105,793,107	50,975,347	156,768,454
2021	111,082,762	53,524,115	164,606,877
2022	116,636,900	56,200,320	172,837,220
2023	122,468,745	59,010,336	181,479,081
2024	128,592,182	61,960,853	190,553,035
2025	135,021,791	65,058,896	200,080,687
2026	141,772,881	68,311,841	210,084,722
2027	148,861,525	71,727,433	220,588,958
2028	156,304,601	75,313,804	231,618,405
2029	164,119,831	79,079,495	243,199,326
2030	172,325,823	83,033,469	255,359,292
2031	180,942,114	87,185,143	268,127,257
2032	189,989,220	91,544,400	281,533,620
2033	199,488,681	96,121,620	295,610,301
2034	209,463,115	100,927,701	310,390,816
2035	219,936,271	105,974,086	325,910,357
2036	230,933,085	0	230,933,085

SCHEDULE A - ACTUARIAL ASSUMPTIONS AND METHODS

VERMONT STATE TEACHERS

Interest 8.0% per year, net of investment expenses for a funded plan. 3.75% per year, net of investment expenses for a non-funded plan.

Actuarial Cost Method: Projected Unit Credit

Medical Care and State Share Inflation:

Year	Inflation Rate
2006	9.0%
2007	8.0
2008	7.0
2009	6.0
2010 & After	5.0

Amortization period: Closed basis. Thirty year amortization starting in FYE06 with payments increasing 5% annually.

Retirement Eligibility: Age 55 for Group A. Age 55 with 5 years of service for Group C. Participants terminating prior to age 55 with at least 5 years of service, may elect medical coverage beginning at age 55.

Marital status: Active participants are assumed to keep their current marital status upon retirement.

SCHEDULE A - ACTUARIAL ASSUMPTIONS AND METHODS

Separations before Normal Retirement: Representative values of the assumed annual rates of withdrawal, vested retirement, early retirement, disability and death are as follows:

Age	Withdrawal and Vested Retirement		Disability		Death	
	Males	Females	Males	Females	Males	Females
25	5.40%	6.48%	.010%	.015%	.04%	.03%
30	5.40	5.40	.020	.015	.04	.03
35	4.86	4.32	.020	.015	.04	.03
40	4.05	3.60	.030	.020	.08	.03
45	3.60	3.15	.053	.045	.08	.05
50	3.60	2.70	.180	.180	.12	.08
55	3.60	2.70	.440	.390	.12	.12
59	3.60	2.70	1.170	.710	.15	.18
60	3.60	2.70	1.470	.840	.15	.19
61	3.60	2.70	1.830	1.010	.50	.22

Age	Reduced Early Retirement		Full Early Retirement	
	Males	Females	Males	Females
50	-	-	44.00%	40.00%
55	5.00%	8.75%	30.80	20.00
56	4.00	6.25	17.60	10.00
57	3.00	6.25	16.50	10.00
58	6.00	6.25	16.50	10.00
59	6.00	6.25	20.90	10.00
60	6.00	12.50	41.25	30.00
61	20.00	12.50	22.00	17.00

Service Retirements:

Occur between ages 62 (60 for Group A) and 70. The assumed rates of service retirement are as follows:

Age	Annual Rate of Retirement	
	Male	Female
62	35.2%	25.0%
63	26.4	20.0
64	27.5	20.0
65	41.8	30.0
66	33.0	30.0
67	39.6	30.0
68	26.4	20.0
69	33.0	30.0
70	100.0	100.0

Deaths after Retirement:

The 1995 Buck Mortality Tables, set back one year, are used for the period after service retirement, while the RP-2000 Tables for Disabled Retirees are used for the period following disability retirement.

Spouse's Age:

Husbands are assumed to be 3 years older than their wives.

Percent Married:

85% of the male members and 35% of the female members are assumed to be married.

Health Plans:

Retirees without Medicare may select from three plans: JY Plan, \$250 Comprehensive, and Vermont Health Partnership. Retirees with Medicare may select from three plans: JY Carve-Out, \$250 Comprehensive Carve-Out, and Medi-Comp C.

Pre-Age 65 Retirees:

Current retirees who are under age 65 are assumed to remain in their current medical plan until age 65, at which time they enter the average plan provided to current post-65 retirees.

Current active employees who are assumed to retire prior to age 65 are valued with a weighted-average premium. This weighted-average premium is based on the medical plan coverage of current retirees under age 65. The weighted average premium includes adjustment based on age to account for the implicit subsidy of older employees true benefit cost.

SCHEDULE A - ACTUARIAL ASSUMPTIONS AND METHODS

At age 65, all participants are assumed to participate in post-65 plans in the same proportions as current retirees over age 65.

Retirees and beneficiaries remain in their current medical plan until death. Therefore, if the retiree predeceases the beneficiary, the beneficiary will continue to have coverage until his or her death. However, the State does not cover any of the costs of coverage.

Post-Age 65 Retirees:

Current retirees over age 65 remain in their current medical plan until death. Beneficiaries remain in their current medical plan until death. Therefore, if the retiree predeceases the beneficiary, the beneficiary will continue to have coverage until his or her death. However, the State does not cover any of the costs of coverage.

Coverage:

It is assumed that 80% of current active employees with 10 years of service will elect retiree medical coverage.

Medical Plan Costs:

Estimated net per capita incurred claim costs for 2005-06 at age 64 and 65 was \$4,688 and \$2,538, respectively. It is assumed that future retirees are Medicare eligible. Per capita costs were developed from the State developed monthly costs.

Age-based Morbidity:

Per capita costs are adjusted to reflect expected cost increases related to age. The increase in the net incurred claims was assumed to be:

<u>Age</u>	<u>Annual Increase Retiree</u>
49 and below	2.6%
50-54	3.2%
55-59	3.4%
60-64	3.7%
65-69	3.2%
70-74	2.4%
75-79	1.8%
80 and over	0.0%