

Actuarial Valuation Data by Year

State Patrol Retirement Plan

(STPATROL)

	FY2016	FY2015	FY2014	FY2013	FY2012	FY2011	FY2010
Membership							
Active Members	892	843	858	845	823	862	848
Service Retirees	844	816	776	748	733	700	684
Disabilitants	53	57	54	50	48	48	48
Survivors	151	154	155	185	182	184	192
Deferred Retirees	55	52	44	41	40	38	39
Nonvested Former Members	20	17	17	18	15	15	14
Total Membership	2,015	1,939	1,904	1,887	1,841	1,847	1,825
Funded Status							
Accrued Liability	\$833,886,000	\$833,033,000	\$800,421,000	\$741,850,000	\$760,955,000	\$700,898,000	\$683,360,000
Current Assets	<u>\$654,842,000</u>	<u>\$639,863,000</u>	<u>\$597,870,000</u>	<u>\$552,319,000</u>	<u>\$554,244,000</u>	<u>\$563,046,000</u>	<u>\$567,211,000</u>
Unfunded Accrued Liability	\$179,044,000	\$193,170,000	\$202,551,000	\$189,531,000	\$206,711,000	\$137,852,000	\$116,149,000
Funding Ratio	78.53%	76.81%	74.69%	74.45%	72.84%	80.33%	83.00%
Financing Requirements							
Covered Payroll	\$73,134,000	\$69,857,000	\$67,386,000	\$64,136,000	\$66,592,000	\$66,035,000	\$67,187,000
Benefits Payable	\$57,695,000	\$55,465,000	\$53,697,000	\$52,057,000	\$50,007,000	\$47,844,000	\$46,119,000
Normal Cost	22.64% \$16,557,000	23.41% \$16,353,000	22.74% \$15,324,000	20.78% \$13,327,000	21.63% \$14,404,000	22.91% \$15,127,000	22.98% \$15,437,000
Administrative Expenses	0.31% \$227,000	0.25% \$175,000	0.23% \$155,000	0.29% \$186,000	0.24% \$160,000	0.14% \$92,000	0.18% \$123,000
Amortiz. of Unfunded Liab.^	<u>17.50%</u> <u>\$12,798,000</u>	<u>19.25%</u> <u>\$13,447,000</u>	<u>20.59%</u> <u>\$13,875,000</u>	<u>20.17%</u> <u>\$12,936,000</u>	<u>20.65%</u> <u>\$13,751,000</u>	<u>13.20%</u> <u>\$8,717,000</u>	<u>10.68%</u> <u>\$7,176,000</u>
Total Requirements	40.45% \$29,582,000	42.91% \$29,975,000	43.56% \$29,354,000	41.24% \$26,449,000	42.52% \$28,315,000	36.25% \$23,936,000	33.84% \$22,736,000
Employee Contributions	14.40% \$10,531,000	13.40% \$9,361,000	13.40% \$9,030,000	12.40% \$7,953,000	12.40% \$8,257,000	12.40% \$8,188,000	10.40% \$6,988,000
Employer Contributions	21.60% \$15,797,000	20.10% \$14,041,000	20.10% \$13,545,000	18.60% \$11,929,000	18.60% \$12,386,000	18.60% \$12,283,000	15.60% \$10,481,000
Employer Add'l Cont.	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0
Direct State Funding	1.37% \$1,000,000	1.43% \$1,000,000	1.48% \$1,000,000	1.56% \$1,000,000	0.00% \$0	0.00% \$0	0.00% \$0
Other Govt. Funding	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0
Administrative Assessment	<u>0.00%</u> <u>\$0</u>	<u>0.00%</u> <u>\$0</u>	<u>0.00%</u> <u>\$0</u>	<u>0.00%</u> <u>\$0</u>	<u>0.00%</u> <u>\$0</u>	<u>0.00%</u> <u>\$0</u>	<u>0.00%</u> <u>\$0</u>
Total Contributions	37.37% \$27,328,000	34.93% \$24,402,000	34.98% \$23,575,000	32.56% \$20,882,000	31.00% \$20,643,000	31.00% \$20,471,000	26.00% \$17,469,000
Total Requirements	40.45% \$29,582,000	42.91% \$29,975,000	43.56% \$29,354,000	41.24% \$26,449,000	42.52% \$28,315,000	36.25% \$23,936,000	33.84% \$22,736,000
Total Contributions	<u>37.37%</u> <u>\$27,328,000</u>	<u>34.93%</u> <u>\$24,402,000</u>	<u>34.98%</u> <u>\$23,575,000</u>	<u>32.56%</u> <u>\$20,882,000</u>	<u>31.00%</u> <u>\$20,643,000</u>	<u>31.00%</u> <u>\$20,471,000</u>	<u>26.00%</u> <u>\$17,469,000</u>
Deficiency (Surplus)	3.08% \$2,254,000	7.98% \$5,573,000	8.58% \$5,779,000	8.68% \$5,567,000	11.52% \$7,672,000	5.25% \$3,465,000	7.84% \$5,267,000
Amortization Target Date	2038	2038	2038	2037	2037	2036	2036
Actuary	GRS	GRS	GRS	GRS	GRS	Mercer	Mercer

^Amortization of the unfunded actuarial accrued liability (UAAL) to the amortization target date. The information set forth in this report is a compilation of data taken from actuarial valuation reports prepared by each plan's actuary. The LCPR or its staff do not warrant or guarantee its accuracy, reliability or completeness. LCPR staff compiles this information to provide a single source for similar data on the plans, for the sake of convenience and ease of comparison, for use by Minnesota legislators and, secondarily, the public. This information should not be relied on for any "official" purpose. Please refer to the plans' actuarial valuation reports, available on the LCPR website at www.lcpr.leg.mn, for the most accurate, complete and detailed information.

Actuarial Valuation Data by Year

State Patrol Retirement Plan

(STPATROL)

	FY2009	FY2008	FY2007	FY2006	2005	2004	2003
Membership							
Active Members	876	840	844	851	831	834	805
Service Retirees	673	660	645	626	612	607	592
Disabilitants	44	42	41	41	35	34	31
Survivors	191	194	190	179	178	163	162
Deferred Retirees	41	35	32	33	34	27	20
Nonvested Former Members	11	7	8	9	14	12	13
Total Membership	1,836	1,778	1,760	1,739	1,704	1,677	1,623
Funded Status							
Accrued Liability	\$725,334,000	\$693,686,000	\$673,443,671	\$641,479,078	\$566,763,689	\$545,243,508	\$538,980,000
Current Assets	<u>\$584,501,000</u>	<u>\$595,082,000</u>	* <u>\$617,900,887</u>	<u>\$618,990,349</u>	<u>\$601,220,181</u>	<u>\$594,785,274</u>	<u>\$591,521,000</u>
Unfunded Accrued Liability	\$140,833,000	\$98,604,000	\$55,542,784	\$22,488,729	(\$34,456,492)	(\$49,541,766)	(\$52,541,000)
Funding Ratio	80.58%	85.79%	91.75%	96.49%	106.08%	109.09%	109.75%
Financing Requirements							
Covered Payroll	\$67,421,000	\$63,771,000	\$61,497,551	\$57,765,450	\$55,142,064	\$53,119,128	\$56,569,000
Benefits Payable	\$44,480,000	\$42,804,000	\$40,581,617	\$38,767,492	\$36,956,287	\$35,501,294	\$34,316,000
Normal Cost	25.37% \$17,103,000	25.15% \$16,041,000	24.75% \$15,219,351	24.41% \$14,098,467	23.03% \$12,698,808	23.00% \$12,212,574	22.62% \$12,797,000
Administrative Expenses	0.16% \$108,000	0.18% \$115,000	0.19% \$116,845	0.18% \$103,978	0.17% \$93,742	0.17% \$90,303	0.18% \$102,000
Amortiz. of Unfunded Liab.^	12.63% <u>\$8,515,000</u>	9.15% <u>\$5,838,000</u>	4.96% <u>\$3,050,279</u>	2.10% <u>\$1,213,075</u>	(3.36%) <u>(\$1,852,773)</u>	(5.02%) <u>(\$2,666,580)</u>	(5.00%) <u>(\$2,828,000)</u>
Total Requirements	38.16% \$25,726,000	34.49% \$21,994,000	29.90% \$18,386,475	26.69% \$15,415,520	19.84% \$10,939,777	18.15% \$9,636,297	17.80% \$10,071,000
Employee Contributions	10.40% \$7,012,000	9.80% \$6,250,000	9.10% \$5,596,277	8.40% \$4,852,298	8.40% \$4,631,933	8.40% \$4,462,007	8.40% \$4,752,000
Employer Contributions	15.60% \$10,518,000	14.60% \$9,310,000	13.60% \$8,363,667	12.60% \$7,278,447	12.60% \$6,947,900	12.60% \$6,693,010	12.60% \$7,128,000
Employer Add'l Cont.	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0
Direct State Funding	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0
Other Govt. Funding	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0
Administrative Assessment	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0
Total Contributions	26.00% \$17,530,000	24.40% \$15,560,000	22.70% \$13,959,944	21.00% \$12,130,745	21.00% \$11,579,833	21.00% \$11,155,017	21.00% \$11,880,000
Total Requirements	38.16% \$25,726,000	34.49% \$21,994,000	29.90% \$18,386,475	26.69% \$15,415,520	19.84% \$10,939,777	18.15% \$9,636,297	17.80% \$10,071,000
Total Contributions	26.00% <u>\$17,530,000</u>	24.40% <u>\$15,560,000</u>	22.70% <u>\$13,959,944</u>	21.00% <u>\$12,130,745</u>	21.00% <u>\$11,579,833</u>	21.00% <u>\$11,155,017</u>	21.00% <u>\$11,880,000</u>
Deficiency (Surplus)	12.16% \$8,196,000	10.09% \$6,434,000	7.20% \$4,426,531	5.69% \$3,284,775	(1.16%) (\$640,056)	(2.85%) (\$1,518,720)	(3.20%) (\$1,809,000)
Amortization Target Date	2036	2036	2036	2036	2035	2034	2033
Actuary	Mercer	Mercer	Segal	Segal	Segal	Segal	Milliman USA

^Amortization of the unfunded actuarial accrued liability (UAAL) to the amortization target date.

* Reflects 2007 Asset Valuation Method change

Actuarial Valuation Data by Year

State Patrol Retirement Plan

(STPATROL)

	2002	2001	2000	1999	1998	1997	1996
Membership							
Active Members	810	823	830	825	806	795	777
Service Retirees	577	556	531	503	462	422	416
Disabilitants	29	25	22	23	21	20	18
Survivors	156	164	457	146	137	128	126
Deferred Retirees	27	25	24	23	21	21	22
Nonvested Former Members	11	10	10	10	7	7	6
Total Membership	1,610	1,603	1,874	1,530	1,454	1,393	1,365
Funded Status							
Accrued Liability	\$510,344,000	\$489,483,000	\$458,384,000	\$406,215,000	\$371,369,000	\$332,427,000	\$303,941,000
Current Assets	<u>\$591,383,000</u>	<u>\$572,815,000</u>	<u>\$528,573,000</u>	<u>\$472,687,000</u>	<u>\$430,011,000</u>	<u>\$375,650,000</u>	<u>\$323,868,000</u>
Unfunded Accrued Liability	(\$81,039,000)	(\$83,332,000)	(\$70,189,000)	(\$66,472,000)	(\$58,642,000)	(\$43,223,000)	(\$19,927,000)
Funding Ratio	115.88%	117.02%	115.31%	116.36%	115.79%	113.00%	106.56%
Financing Requirements							
Covered Payroll	\$51,473,000	\$51,574,000	\$51,980,000	\$47,034,000	\$45,217,000	\$43,084,000	\$40,399,000
Benefits Payable	\$33,031,000	\$29,935,000	\$25,789,000	\$22,226,000	\$18,353,000	\$14,642,000	\$13,279,000
Normal Cost	22.62% \$11,649,000	22.53% \$11,620,000	22.55% \$11,725,000	22.62% \$10,636,000	22.50% \$10,170,000	21.91% \$9,443,000	21.19% \$8,560,548
Administrative Expenses	0.20% \$103,000	0.17% \$88,000	0.20% \$104,000	0.16% \$75,000	0.15% \$68,000	0.15% \$65,000	0.14% \$56,559
Amortiz. of Unfunded Liab.^	(8.48%) (\$4,365,000)	(8.70%) (\$4,487,000)	(7.27%) (\$3,779,000)	(9.57%) (\$4,501,000)	(8.51%) (\$3,848,000)	(6.39%) (\$2,753,000)	0.00% \$0
Total Requirements	14.34% \$7,387,000	14.00% \$7,221,000	15.48% \$8,050,000	13.21% \$6,210,000	14.14% \$6,390,000	15.67% \$6,755,000	21.33% \$8,617,107
Employee Contributions	8.40% \$4,324,000	8.40% \$4,332,000	8.40% \$4,366,000	8.40% \$3,951,000	8.40% \$3,798,000	8.40% \$3,619,000	8.92% \$3,603,591
Employer Contributions	12.60% \$6,486,000	12.60% \$6,498,000	12.60% \$6,550,000	12.60% \$5,926,000	12.60% \$5,697,000	12.60% \$5,429,000	14.88% \$6,011,371
Employer Add'l Cont.	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0
Direct State Funding	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0
Other Govt. Funding	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0
Administrative Assessment	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0
Total Contributions	21.00% \$10,810,000	21.00% \$10,830,000	21.00% \$10,916,000	21.00% \$9,877,000	21.00% \$9,495,000	21.00% \$9,048,000	23.80% \$9,614,962
Total Requirements	14.34% \$7,387,000	14.00% \$7,221,000	15.48% \$8,050,000	13.21% \$6,210,000	14.14% \$6,390,000	15.67% \$6,755,000	21.33% \$8,617,107
Total Contributions	<u>21.00%</u> <u>\$10,810,000</u>	<u>21.00%</u> <u>\$10,830,000</u>	<u>21.00%</u> <u>\$10,916,000</u>	<u>21.00%</u> <u>\$9,877,000</u>	<u>21.00%</u> <u>\$9,495,000</u>	<u>21.00%</u> <u>\$9,048,000</u>	<u>23.80%</u> <u>\$9,614,962</u>
Deficiency (Surplus)	(6.66%) (\$3,423,000)	(7.00%) (\$3,609,000)	(5.52%) (\$2,866,000)	(7.79%) (\$3,667,000)	(6.86%) (\$3,105,000)	(5.33%) (\$2,293,000)	(2.47%) (\$997,855)
Amortization Target Date	2032	2031	2030	2020	2020	2020	2020
Actuary	Milliman USA	Milliman USA	Milliman & Robertson	Milliman & Robertson	Milliman & Robertson	Milliman & Robertson	Milliman & Robertson

^Amortization of the unfunded actuarial accrued liability (UAAL) to the amortization target date.

Actuarial Valuation Data by Year

State Patrol Retirement Plan

(STPATROL)

	1995	1994	1993	1992	1991	1990	1989
Membership							
Active Members	803	788	781	795	809	788	765
Service Retirees	401	391	377	373	363	346	340
Disabilitants	18	18	15	15	15	14	14
Survivors	121	120	119	109	109	105	101
Deferred Retirees	19	21	18	19	15	23	19
Nonvested Former Members	5	3	3	3	0	4	7
Total Membership	1,367	1,341	1,313	1,314	1,311	1,280	1,246
Funded Status							
Accrued Liability	\$283,078,000	\$275,377,000	\$258,202,000	\$233,656,000	\$224,033,000	\$207,343,000	\$194,434,000
Current Assets	<u>\$284,918,000</u>	<u>\$262,570,000</u>	<u>\$244,352,000</u>	<u>\$222,314,000</u>	<u>\$200,068,000</u>	<u>\$185,699,000</u>	<u>\$167,271,000</u>
Unfunded Accrued Liability	(\$1,840,000)	\$12,807,000	\$13,850,000	\$11,342,000	\$23,965,000	\$21,644,000	\$27,163,000
Funding Ratio	100.65%	95.35%	94.60%	95.15%	89.30%	89.56%	86.03%
Financing Requirements							
Covered Payroll	\$39,838,000	\$41,462,000	\$40,654,000	\$37,113,000	\$37,777,000	\$34,423,000	\$32,591,000
Benefits Payable	\$12,092,000	\$11,272,000	\$10,253,000	\$9,603,000	\$8,720,000	\$7,846,000	\$7,187,000
Normal Cost	21.21% \$8,449,640	20.08% \$8,325,570	20.12% \$8,179,585	20.19% \$7,493,115	19.02% \$7,185,185	18.53% \$6,378,582	17.61% \$5,739,275
Administrative Expenses	0.13% \$51,789	0.16% \$66,339	0.16% \$65,046	0.63% \$233,812	0.63% \$237,995	0.79% \$271,942	0.57% \$185,769
Amortiz. of Unfunded Liab.^	0.00% \$0	1.55% \$642,661	1.66% \$674,856	1.45% \$538,139	2.93% \$1,106,866	2.83% \$974,171	3.66% \$1,192,831
Total Requirements	21.34% \$8,501,429	21.79% \$9,034,570	21.94% \$8,919,488	22.27% \$8,265,065	22.58% \$8,530,047	22.15% \$7,624,695	21.84% \$7,117,874
Employee Contributions	8.92% \$3,553,550	8.50% \$3,524,270	8.50% \$3,455,590	8.50% \$3,154,605	8.50% \$3,211,045	8.50% \$2,925,955	8.50% \$2,770,235
Employer Contributions	14.88% \$5,927,894	14.88% \$6,169,546	14.88% \$6,049,315	14.88% \$5,522,414	14.88% \$5,621,218	14.88% \$5,122,142	18.90% \$6,159,699
Employer Add'l Cont.	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0
Direct State Funding	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0
Other Govt. Funding	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0
Administrative Assessment	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0
Total Contributions	23.80% \$9,481,444	23.38% \$9,693,816	23.38% \$9,504,905	23.38% \$8,677,019	23.38% \$8,832,263	23.38% \$8,048,097	27.40% \$8,929,934
Total Requirements	21.34% \$8,501,429	21.79% \$9,034,570	21.94% \$8,919,488	22.27% \$8,265,065	22.58% \$8,530,047	22.15% \$7,624,695	21.84% \$7,117,874
Total Contributions	<u>23.80%</u> <u>\$9,481,444</u>	<u>23.38%</u> <u>\$9,693,816</u>	<u>23.38%</u> <u>\$9,504,905</u>	<u>23.38%</u> <u>\$8,677,019</u>	<u>23.38%</u> <u>\$8,832,263</u>	<u>23.38%</u> <u>\$8,048,097</u>	<u>27.40%</u> <u>\$8,929,934</u>
Deficiency (Surplus)	(2.46%) (\$980,015)	(1.59%) (\$659,246)	(1.44%) (\$585,418)	(1.11%) (\$411,954)	(0.80%) (\$302,216)	(1.23%) (\$423,403)	(5.56%) (\$1,812,060)
Amortization Target Date	2020	2020	2020	2020	2020	2020	2020
Actuary	Milliman & Robertson	Milliman & Robertson	Milliman & Robertson	Milliman & Robertson	Milliman & Robertson	Wyatt	Wyatt

^Amortization of the unfunded actuarial accrued liability (UAAL) to the amortization target date.

Actuarial Valuation Data by Year

State Patrol Retirement Plan

(STPATROL)

	1988	1987	1986	1985	1984	1983	1982
Membership							
Active Members	740	771	769	764	741	774	763
Service Retirees	339	318	306	285	397	359	222
Disabilitants	13	13	13	13	0	0	5
Survivors	103	99	106	109	0	0	112
Deferred Retirees	16	16	18	21	21	22	28
Nonvested Former Members	8	8	9	9	10	10	10
Total Membership	1,219	1,225	1,221	1,201	1,169	1,165	1,140
Funded Status							
Accrued Liability	\$175,062,000	\$160,628,000	\$149,064,000	\$134,508,000	\$119,682,218	\$132,174,955	\$111,455,693
Current Assets	<u>\$148,355,000</u>	<u>\$136,397,000</u>	<u>\$118,174,000</u>	<u>\$100,486,000</u>	<u>\$86,784,592</u>	<u>\$78,774,772</u>	<u>\$68,183,407</u>
Unfunded Accrued Liability	\$26,707,000	\$24,231,000	\$30,890,000	\$34,022,000	\$32,897,626	\$53,400,183	\$43,272,286
Funding Ratio	84.74%	84.91%	79.28%	74.71%	72.51%	59.60%	61.18%
Financing Requirements							
Covered Payroll	\$29,267,000	\$28,583,000	\$27,474,000	\$25,846,000	\$23,016,272	\$21,562,464	\$19,600,976
Benefits Payable	\$6,263,000	\$5,431,000	\$4,753,000	\$3,967,000	\$3,536,079	\$2,777,224	\$2,242,146
Normal Cost	18.08% \$5,291,474	18.10% \$5,173,523	18.47% \$5,074,448	18.66% \$4,822,864	18.68% \$4,299,440	17.65% \$3,805,775	16.96% \$3,324,326
Administrative Expenses	0.60% \$175,602	0.66% \$188,648	0.61% \$167,591	0.58% \$149,907	0.27% \$62,144	0.18% \$38,812	0.18% \$35,282
Amortiz. of Unfunded Liab.^	5.19% <u>\$1,518,957</u>	4.63% <u>\$1,323,393</u>	5.92% <u>\$1,626,461</u>	6.68% <u>\$1,726,513</u>	7.00% <u>\$1,611,139</u>	16.81% <u>\$3,624,650</u>	14.71% <u>\$2,883,304</u>
Total Requirements	23.87% \$6,986,033	23.39% \$6,685,564	25.00% \$6,868,500	25.92% \$6,699,283	25.95% \$5,972,723	34.64% \$7,469,238	31.85% \$6,242,911
Employee Contributions	8.50% \$2,487,695	8.50% \$2,429,555	8.50% \$2,335,290	8.50% \$2,196,910	8.50% \$1,956,383	8.50% \$1,832,809	7.00% \$1,372,068
Employer Contributions	18.90% \$5,531,463	18.90% \$5,402,187	18.90% \$5,192,586	18.90% \$4,884,894	18.90% \$4,350,075	12.00% \$2,587,496	12.00% \$2,352,117
Employer Add'l Cont.	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	9.00% \$1,940,622	9.00% \$1,764,088
Direct State Funding	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0
Other Govt. Funding	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0
Administrative Assessment	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0
Total Contributions	27.40% \$8,019,158	27.40% \$7,831,742	27.40% \$7,527,876	27.40% \$7,081,804	27.40% \$6,306,459	29.50% \$6,360,927	28.00% \$5,488,273
Total Requirements	23.87% \$6,986,033	23.39% \$6,685,564	25.00% \$6,868,500	25.92% \$6,699,283	25.95% \$5,972,723	34.64% \$7,469,238	31.85% \$6,242,911
Total Contributions	<u>27.40%</u> <u>\$8,019,158</u>	<u>27.40%</u> <u>\$7,831,742</u>	<u>27.40%</u> <u>\$7,527,876</u>	<u>27.40%</u> <u>\$7,081,804</u>	<u>27.40%</u> <u>\$6,306,459</u>	<u>29.50%</u> <u>\$6,360,927</u>	<u>28.00%</u> <u>\$5,488,273</u>
Deficiency (Surplus)	(3.53%) (\$1,033,125)	(4.01%) (\$1,146,178)	(2.40%) (\$659,376)	(1.48%) (\$382,521)	(1.45%) (\$333,736)	5.14% \$1,108,311	3.85% \$754,638
Amortization Target Date	2009	2009	2009	2009	2009	2009	2009
Actuary	Wyatt	Wyatt	Wyatt	Wyatt	Touche Ross	Touche Ross	Touche Ross

^Amortization of the unfunded actuarial accrued liability (UAAL) to the amortization target date.

Actuarial Valuation Data by Year

State Patrol Retirement Plan

(STPATROL)

	1981	1980	1979	1978	1977	1976	1975
Membership							
Active Members	793	782	770	751	--	--	--
Service Retirees	195	179	178	165	--	--	--
Disabilitants	10	9	9	8	--	--	--
Survivors	107	114	117	118	--	--	--
Deferred Retirees	25	23	17	19	--	--	--
Nonvested Former Members	0	0	0	0	--	--	--
Total Membership	1,130	1,107	1,091	1,061	--	--	--
Funded Status							
Accrued Liability	\$100,517,909	\$85,830,394	\$67,797,858	\$59,643,395	\$54,026,436	\$47,221,956	\$43,346,873
Current Assets	<u>\$58,720,161</u>	<u>\$49,620,012</u>	<u>\$41,712,515</u>	<u>\$37,265,557</u>	<u>\$32,177,068</u>	<u>\$25,911,233</u>	<u>\$22,910,417</u>
Unfunded Accrued Liability	\$41,797,748	\$36,210,382	\$26,085,343	\$22,377,838	\$21,849,368	\$21,310,723	\$20,436,456
Funding Ratio	58.42%	57.81%	61.53%	62.48%	59.56%	54.87%	52.85%
Financing Requirements							
Covered Payroll	\$19,967,408	\$18,003,587	\$16,429,135	\$13,771,848	\$12,974,808	\$11,996,584	\$11,214,526
Benefits Payable	\$1,778,088	\$1,519,060	\$1,454,944	\$1,290,000	\$1,205,000	\$902,246	\$806,633
Normal Cost	15.77% \$3,148,860	15.50% \$2,790,556	14.60% \$2,398,654	14.19% \$1,954,225	14.45% \$1,874,860	14.42% \$1,729,907	14.82% \$1,661,993
Administrative Expenses	0.18% \$35,941	0.18% \$32,406	0.23% \$37,787	0.25% \$34,430	0.27% \$35,032	0.26% \$31,191	0.27% \$30,279
Amortiz. of Unfunded Liab.^	14.05% <u>\$2,805,421</u>	13.28% <u>\$2,390,876</u>	10.33% <u>\$1,697,130</u>	12.80% <u>\$1,762,797</u>	12.87% <u>\$1,669,858</u>	13.20% <u>\$1,583,549</u>	13.18% <u>\$1,478,075</u>
Total Requirements	30.00% \$5,990,222	28.96% \$5,213,839	25.16% \$4,133,570	27.24% \$3,751,451	27.59% \$3,579,750	27.88% \$3,344,648	28.27% \$3,170,347
Employee Contributions	7.00% \$1,397,719	7.00% \$1,260,251	7.00% \$1,150,039	7.00% \$964,029	7.00% \$908,237	8.00% \$959,727	8.00% \$897,162
Employer Contributions	12.00% \$2,396,089	12.00% \$2,160,430	12.00% \$1,971,496	12.00% \$1,652,622	12.00% \$1,556,977	12.00% \$1,439,590	12.00% \$1,345,743
Employer Add'l Cont.	9.00% \$1,797,067	9.00% \$1,620,323	9.00% \$1,478,622	9.00% \$1,239,466	9.00% \$1,167,733	10.00% \$1,199,658	10.00% \$1,121,453
Direct State Funding	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0
Other Govt. Funding	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0
Administrative Assessment	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0
Total Contributions	28.00% \$5,590,874	28.00% \$5,041,004	28.00% \$4,600,158	28.00% \$3,856,117	28.00% \$3,632,946	30.00% \$3,598,975	30.00% \$3,364,358
Total Requirements	30.00% \$5,990,222	28.96% \$5,213,839	25.16% \$4,133,570	27.24% \$3,751,451	27.59% \$3,579,750	27.88% \$3,344,648	28.27% \$3,170,347
Total Contributions	<u>28.00%</u> <u>\$5,590,874</u>	<u>28.00%</u> <u>\$5,041,004</u>	<u>28.00%</u> <u>\$4,600,158</u>	<u>28.00%</u> <u>\$3,856,117</u>	<u>28.00%</u> <u>\$3,632,946</u>	<u>30.00%</u> <u>\$3,598,975</u>	<u>30.00%</u> <u>\$3,364,358</u>
Deficiency (Surplus)	2.00% \$399,348	0.96% \$172,834	(2.84%) (\$466,587)	(0.76%) (\$104,666)	(0.41%) (\$53,197)	(2.12%) (\$254,328)	(1.73%) (\$194,011)
Amortization Target Date	2009	2009	2009	1997	1997	1997	1997
Actuary	Touche Ross	Wyatt	Wyatt	TPF&C	Stennes	Stennes	Stennes

^Amortization of the unfunded actuarial accrued liability (UAAL) to the amortization target date.

Actuarial Valuation Data by Year

State Patrol Retirement Plan

(STPATROL)

	1974	1973	1972	1971	1970	1969	1968
Membership							
Active Members	--	--	--	--	--	--	--
Service Retirees	--	--	--	--	--	--	--
Disabilitants	--	--	--	--	--	--	--
Survivors	--	--	--	--	--	--	--
Deferred Retirees	--	--	--	--	--	--	--
Nonvested Former Members	--	--	--	--	--	--	--
Total Membership	--	--	--	--	--	--	--
Funded Status							
Accrued Liability	\$40,779,112	\$32,706,692	\$23,540,541	\$21,399,349	\$21,119,778	\$17,681,000	\$8,843,554
Current Assets	<u>\$19,650,535</u>	<u>\$16,132,905</u>	<u>\$13,121,325</u>	<u>\$10,993,892</u>	<u>\$9,098,829</u>	<u>\$7,503,000</u>	<u>\$4,927,531</u>
Unfunded Accrued Liability	\$21,128,577	\$16,573,787	\$10,419,216	\$10,405,457	\$12,020,949	\$10,178,000	\$3,916,023
Funding Ratio	48.19%	49.33%	55.74%	51.37%	43.08%	42.40%	55.73%
Financing Requirements							
Covered Payroll	\$11,051,726	\$9,036,012	\$7,621,027	\$7,311,243	\$6,550,665	\$5,261,000	\$2,376,554
Benefits Payable	\$746,442	\$538,857	\$465,195	\$425,246	\$389,420	\$364,000	\$215,858
Normal Cost	14.68% \$1,622,393	14.34% \$1,295,764	13.65% \$1,040,270	13.28% \$970,933	13.69% \$896,786	14.35% \$754,954	16.76% \$398,310
Administrative Expenses	0.28% \$30,945	0.18% \$16,265	0.14% \$10,669	0.09% \$6,580	0.09% \$5,896	0.21% \$11,048	0.20% \$4,753
Amortiz. of Unfunded Liab.^	<u>13.50%</u> <u>\$1,491,983</u>	<u>12.66%</u> <u>\$1,143,959</u>	<u>8.01%</u> <u>\$610,444</u>	<u>8.14%</u> <u>\$595,135</u>	<u>10.26%</u> <u>\$672,098</u>	<u>10.58%</u> <u>\$556,614</u>	<u>8.34%</u> <u>\$198,205</u>
Total Requirements	28.46% \$3,145,321	27.18% \$2,455,988	21.80% \$1,661,384	21.51% \$1,572,648	24.04% \$1,574,780	25.14% \$1,322,615	25.30% \$601,268
Employee Contributions	8.00% \$884,138	8.00% \$722,881	7.00% \$533,472	7.00% \$511,787	7.00% \$458,547	7.00% \$368,270	7.00% \$166,359
Employer Contributions	12.00% \$1,326,207	12.00% \$1,084,321	11.20% \$853,555	11.20% \$818,859	11.20% \$733,674	11.20% \$589,232	11.20% \$266,174
Employer Add'l Cont.	10.00% \$1,105,173	10.00% \$903,601	8.00% \$609,682	8.00% \$584,899	8.00% \$524,053	8.00% \$420,880	9.00% \$213,890
Direct State Funding	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0
Other Govt. Funding	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0	0.00% \$0
Administrative Assessment	<u>0.00%</u> <u>\$0</u>	<u>0.00%</u> <u>\$0</u>	<u>0.00%</u> <u>\$0</u>	<u>0.00%</u> <u>\$0</u>	<u>0.00%</u> <u>\$0</u>	<u>0.00%</u> <u>\$0</u>	<u>0.00%</u> <u>\$0</u>
Total Contributions	30.00% \$3,315,518	30.00% \$2,710,804	26.20% \$1,996,709	26.20% \$1,915,546	26.20% \$1,716,274	26.20% \$1,378,382	27.20% \$646,423
Total Requirements	28.46% \$3,145,321	27.18% \$2,455,988	21.80% \$1,661,384	21.51% \$1,572,648	24.04% \$1,574,780	25.14% \$1,322,615	25.30% \$601,268
Total Contributions	<u>30.00%</u> <u>\$3,315,518</u>	<u>30.00%</u> <u>\$2,710,804</u>	<u>26.20%</u> <u>\$1,996,709</u>	<u>26.20%</u> <u>\$1,915,546</u>	<u>26.20%</u> <u>\$1,716,274</u>	<u>26.20%</u> <u>\$1,378,382</u>	<u>27.20%</u> <u>\$646,423</u>
Deficiency (Surplus)	(1.54%) (\$170,197)	(2.82%) (\$254,816)	(4.40%) (\$335,325)	(4.69%) (\$342,897)	(2.16%) (\$141,494)	(1.06%) (\$55,767)	(1.90%) (\$45,155)
Amortization Target Date	1997	1997	1997	1997	1997	1997	1997
Actuary	Stennes	Stennes	Stennes	Stennes	Stennes	Stennes	Stennes

^Amortization of the unfunded actuarial accrued liability (UAAL) to the amortization target date.

Actuarial Valuation Data by Year

State Patrol Retirement Plan

(STPATROL)

	1967	1966	1965	1964	1962	1958	1955	1952						
<u>Membership</u>														
Active Members	--	--	--	--	--	--	--	--						
Service Retirees	--	--	--	--	--	--	--	--						
Disabilitants	--	--	--	--	--	--	--	--						
Survivors	--	--	--	--	--	--	--	--						
Deferred Retirees	--	--	--	--	--	--	--	--						
Nonvested Former Members	--	--	--	--	--	--	--	--						
Total Membership	--	--	--	--	--	--	--	--						
<u>Funded Status</u>														
Accrued Liability	\$8,602,640	\$7,874,492	\$7,495,514	\$6,870,000	\$5,364,851	\$4,014,041	\$2,690,593	\$926,823						
Current Assets	<u>\$4,306,145</u>	<u>\$3,730,465</u>	<u>\$3,137,045</u>	<u>\$2,718,000</u>	<u>\$2,293,786</u>	<u>\$1,226,695</u>	<u>\$890,397</u>	<u>\$565,210</u>						
Unfunded Accrued Liability	\$4,296,495	\$4,144,027	\$4,358,469	\$4,152,000	\$3,071,065	\$2,787,346	\$1,800,196	\$361,613						
Funding Ratio	50.06%	47.37%	41.85%	40.00%	42.76%	30.56%	33.09%	60.98%						
<u>Financing Requirements</u>														
Covered Payroll	\$2,299,800	\$2,258,028	\$2,240,000	\$1,814,000	\$1,708,800	\$1,582,320	--	--						
Benefits Payable	\$198,872	\$152,000	\$144,882	\$126,000	\$108,660	\$47,112	--	--						
Normal Cost	17.08%	\$392,806	17.13%	\$386,800	16.07%	\$359,968	19.50%	\$353,730	17.50%	\$299,040	17.30%	\$273,741	--	--
Administrative Expenses	0.18%	\$4,140		\$0		\$0		\$0		\$0		\$0	--	--
Amortiz. of Unfunded Liab.^	<u>9.25%</u>	<u>\$212,732</u>	<u>8.74%</u>	<u>\$197,352</u>	<u>9.37%</u>	<u>\$209,888</u>	<u>10.80%</u>	<u>\$195,912</u>	<u>3.52%</u>	<u>\$60,150</u>	<u>7.60%</u>	<u>\$120,256</u>	--	--
Total Requirements	26.51%	\$609,677	25.87%	\$584,152	25.44%	\$569,856	30.30%	\$549,642	21.02%	\$359,190	24.90%	\$393,998	--	--
Employee Contributions	7.00%	\$160,986	7.40%	\$167,094	7.40%	\$165,760	7.00%	\$126,980	7.00%	\$119,616	7.00%	\$110,762	8.00%	--
Employer Contributions	11.20%	\$257,578	11.20%	\$252,899	11.20%	\$250,880	10.50%	\$190,470	10.50%	\$179,424	7.00%	\$110,762	8.00%	--
Employer Add'l Cont.	9.00%	\$206,982	9.00%	\$203,223	9.00%	\$201,600	0.00%	\$0	0.00%	\$0	0.00%	\$0	0.00%	--
Direct State Funding	0.00%	\$0	0.00%	\$0	0.00%	\$0	0.00%	\$0	0.00%	\$0	0.00%	\$0	0.00%	--
Other Govt. Funding	0.00%	\$0	0.00%	\$0	0.00%	\$0	0.00%	\$0	0.00%	\$0	0.00%	\$0	0.00%	--
Administrative Assessment	<u>0.00%</u>	<u>\$0</u>	<u>0.00%</u>	<u>\$0</u>	<u>0.00%</u>	<u>\$0</u>	<u>0.00%</u>	<u>\$0</u>	<u>0.00%</u>	<u>\$0</u>	<u>0.00%</u>	<u>\$0</u>	<u>0.00%</u>	--
Total Contributions	27.20%	\$625,546	27.60%	\$623,216	27.60%	\$618,240	17.50%	\$317,450	17.50%	\$299,040	14.00%	\$221,525	16.00%	--
Total Requirements	26.51%	\$609,677	25.87%	\$584,152	25.44%	\$569,856	30.30%	\$549,642	21.02%	\$359,190	24.90%	\$393,998	--	--
Total Contributions	<u>27.20%</u>	<u>\$625,546</u>	<u>27.60%</u>	<u>\$623,216</u>	<u>27.60%</u>	<u>\$618,240</u>	<u>17.50%</u>	<u>\$317,450</u>	<u>17.50%</u>	<u>\$299,040</u>	<u>14.00%</u>	<u>\$221,525</u>	--	--
Deficiency (Surplus)	(0.69%)	(\$15,869)	(1.73%)	(\$39,064)	(2.16%)	(\$48,384)	12.80%	\$232,192	3.52%	\$60,150	10.90%	\$172,473	--	--
Amortization Target Date	1997	1997	1997	1997	1997	1997	1997	--	--	--	--	--	--	--
Actuary	Stennes	Stennes	Stennes	Brown, Conrad	Brown, Conrad	Stennes	Stennes	--	--	--	--	--	--	--

^Amortization of the unfunded actuarial accrued liability (UAAL) to the amortization target date.