

History of CalSTRS Funding and Presentation of Additional

Scenarios

Assembly Committee on Public Employees, Retirement and Social Security and Senate Committee on Public Employment and Retirement Joint Informational Hearing

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California State Teachers' Retirement System 100 Waterfront Place West Sacramento, CA 95605

916-414-2200

Table of Contents

History of Defined Benefit Program Funding	3	
Contribution Rate History Time Line	4-5	
Defined Benefit Program Funding Scenarios		
Full Funding Over 20 Years - State Contribution 4.607%	6	
Full Funding Over 20 Years - State Contribution 4.065%	7	
Full Funding Over 30 Years - State Contribution 4.607%	8	
Full Funding Over 40 Years - State Contribution 4.607%	9	
Full Funding Over 50 Years - State Contribution 4.607%	10	
Full Funding Over 60 Years - State Contribution 4.607%	11	
Full Funding Over 30 Years - State Contribution 4.065%	12	
Full Funding Over 40 Years - State Contribution 4.065%	13	
Full Funding Over 50 Years - State Contribution 4.065%	14	
Full Funding Over 60 Years - State Contribution 4.065%	15	

History of Defined Benefit Program Funding

The funding of the DB Program has changed substantially in the 100 years since CalSTRS was established by the State of California in 1913. This is summarized in the time line shown on the next page.

In 1913, what is now the DB Program had only two sources of contributions—a \$12 per year contribution from each member and a state contribution equal to 5 percent of the revenue generated by the state's inheritance tax. The employer did not make a contribution until 1935, when it began to make a \$12 per member annual contribution. The member's contribution increased to \$24 per year at the same time. Members who were first hired in 1935 or afterward contributed a total of 4 percent of salary, of which only the first \$24 was credited to the monthly benefit, with the balance credited to the member's annuity account, similar to the current DBS account.

The next significant change in program funding occurred nine years later in 1944, when the member's contribution changed from a flat dollar amount to a percentage of compensation that depended on the age and gender of the member. In addition, the state's contribution changed from a percentage of inheritance tax revenue to a pay-as-you-go payment, in which the state paid the difference between the resources available and the cost of benefits in a given year.

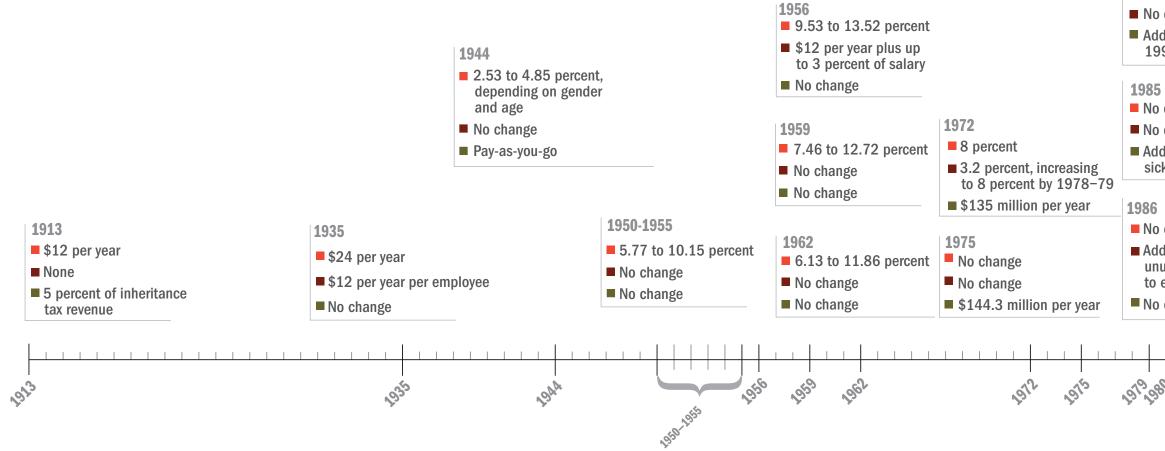
The contribution rate charged to members, still based on the member's age and gender, varied for 28 years, from 1944 until 1972, when it became a flat 8 percent for all members. The payment made by the state also changed in 1972, when it shifted from a pay-as-you-go contribution to a flat dollar amount of \$135 million. This flat dollar amount was modified a few times throughout the 1970's. It reached about \$400 million by 1990 and increased each year thereafter. Additional state contributions, based on a percentage of pay, were enacted in the 1980's to fund specific benefit enhancements. The employer contribution was changed in 1972 to a flat 3.2 percent of earnings, and that contribution rate increased gradually over the balance of the decade until it reached 8 percent in 1978-79.

The next significant change in program funding occurred eight years later, in 1986. The employer's contribution was increased from 8 percent to 8.25 percent when the financial responsibility for funding the conversion of unused sick leave to service credit at retirement was shifted from the state to the employer. In addition, the flat dollar contribution by the state was replaced with a contribution rate equal to 4.3 percent of the member's compensation, in addition to the other contributions levied for previously authorized benefit enhancements, for a total of 4.607 percent in 1997. The 4.3 percent contribution would gradually be eliminated if and when the DB Program became fully funded, which at the time was anticipated to be in 40 years.

As a result of the superior investment returns in the 1990's, however, the DB Program became fully funded in 1998. In 1998 and in 2000, the state's contribution was reduced but made permanent in legislation that also provided additional benefit enhancements to members, most of which will not apply to CalSTRS 2% at 62 members. The enhancements were primarily intended to encourage educators to continue to work rather than retire. The 1998 legislation also provided for a limited increase in the state's contribution if there was a normal cost deficit or unfunded liability associated with the benefit program in place on July 1, 1990. Because there currently is an unfunded liability associated with the July 1, 1990, benefit program, the state's contribution has been increasing annually, and will continue to do so under current law until it reaches its maximum statutory rate of 3.522 percent in 2015-16. For the 10 years beginning in 2001, the member's contribution to the DB Program was reduced to 6 percent, with the remaining 2 percent of compensation the member contributed to CaISTRS being credited to the member's DBS Program account. In 2011, the member's contribution to the DB Program was returned to the prior rate of 8 percent.

Member Contributions

- **Employer Contributions**
- **State Contributions**



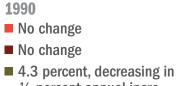
- 1979
- No change
- No change

■ \$144.3 million, increased annually for inflation, plus \$10 million, increasing to \$260 million by 1994-95, increased for inflation

- 1980
- No change
- No change
- Additional .307 percent for ad-hoc benefit
- 1981
- No change
- No change
- Additional .108 through 1996 for ad-hoc benefit
- No change
- No change
- Additional .25 percent for unused sick leave for one year only
- No change
- Additional .25 percent for unused sick leave transfered to employer responsiblity

082

No change



¹/₄ percent annual increments when fully funded

1998

- No change
- No change
- 3.102 percent, plus up to 1.505 percent if pre-1990 benefits underfunded

2000

- No change
- No change
- 2.585 percent in 2000-01 and 1.975 percent beginning in 2001-02, increasing to 2.017 percent of an older payroll in 2003-04



1998 2000

1990

Rate of Increase	Target Funding	Timeframe	Start Date
Incremental	100%	20 years	2014-15
Full funding projected	d Pro	babilities	
June 30, 2034	Overfunded (110	0% Run out of	money
	funded in 30 yea	rs) in 75 ye	ears
	60%	1%	

Total Cost (billions): \$181.7

Notes:

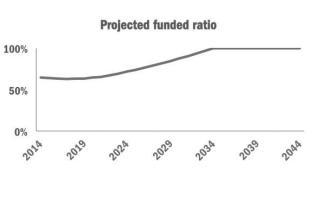
Fiscal

year

2014

Totals:

The annual state contribution increases to 4.607 percent in October 2014-15. For 2014-15, the increase will be from the statutory rate of 3.291 percent for three payments, for a total of 0.987 percent. For 2015-16, the increase will be one payment from the statutory rate of 3.291 percent and three payments from the statutory rate of 3.522 percent, for a total of 1.142 percent. For all other years, the increase will be from the statutory rate of 3.522 percent, for a total of 1.085 percent. All other increases begin July 2015.



\$7,506

2% at 60: 2.83% 2% at 62: 2.39% Employer: 23.09% State: 1.085% **Total Rate: 31.34% Total Rate: 4.607% Total Rate: 10.83% Total Rate: 10.39%** Contribution Contribution Contribution Contribution Average Projected Annual Annual Annual Average Annual funded increase cost increase cost cost per cost cost per increase cost increase (\$millions) (\$millions) (\$millions) (\$millions) ratio member member 64% 0.00% \$0 0.987% \$263 0.00% \$0 \$0 0.00% \$0 \$0 ¢010 ¢00 0.00 # 700

2015	1.00%	\$298	1.142%	\$316	1.00%	\$271	\$706	1.00%	\$26	\$706	63%
2016	3.00%	\$926	1.085%	\$311	2.00%	\$545	\$1,465	2.00%	\$72	\$1,465	63%
2017	6.00%	\$1,922	1.085%	\$323	2.83%	\$774	\$2,150	2.39%	\$111	\$1,816	63%
2018	9.00%	\$2,990	1.085%	\$335	2.83%	\$776	\$2,230	2.39%	\$138	\$1,884	63%
2019	12.00%	\$4,135	1.085%	\$347	2.83%	\$777	\$2,313	2.39%	\$167	\$1,954	64%
2020	15.00%	\$5,361	1.085%	\$360	2.83%	\$776	\$2,400	2.39%	\$199	\$2,027	66%
2021	18.00%	\$6,673	1.085%	\$374	2.83%	\$774	\$2,489	2.39%	\$232	\$2,102	67%
2022	21.00%	\$8,075	1.085%	\$388	2.83%	\$770	\$2,582	2.39%	\$269	\$2,180	69%
2023	23.09%	\$9,210	1.085%	\$402	2.83%	\$764	\$2,678	2.39%	\$308	\$2,262	72%
2024	23.09%	\$9,554	1.085%	\$417	2.83%	\$757	\$2,778	2.39%	\$349	\$2,346	74%
2025	23.09%	\$9,909	1.085%	\$433	2.83%	\$748	\$2,881	2.39%	\$394	\$2,433	76%
2026	23.09%	\$10,279	1.085%	\$449	2.83%	\$737	\$2,989	2.39%	\$441	\$2,524	79%
2027	23.09%	\$10,661	1.085%	\$466	2.83%	\$723	\$3,100	2.39%	\$493	\$2,618	82%
2028	23.09%	\$11,058	1.085%	\$483	2.83%	\$705	\$3,215	2.39%	\$549	\$2,715	84%
2029	23.09%	\$11,470	1.085%	\$501	2.83%	\$684	\$3,335	2.39%	\$610	\$2,817	87%
2030	23.09%	\$11,897	1.085%	\$520	2.83%	\$658	\$3,459	2.39%	\$676	\$2,921	90%
2031	23.09%	\$12,340	1.085%	\$539	2.83%	\$628	\$3,588	2.39%	\$747	\$3,030	93%
2032	23.09%	\$12,799	1.085%	\$559	2.83%	\$595	\$3,721	2.39%	\$822	\$3,143	97%
2033	23.09%	\$13,275	1.085%	\$580	2.83%	\$559	\$3,860	2.39%	\$902	\$3,260	100%

\$13,023

\$8,366

Full Funding Over 20 Years - State Contribution 4.065%

Rate of Increase	Ta	arget Funding	Ti	meframe	Sta
Incremental		100%	4	20 years	20
Full funding projecte	d	Pro	bab	ilities	
June 30, 2034		Overfunded (110)%	Run out of	mone
		funded in 30 yea	rs)	in 75 ye	ars
		61%	_	0%	

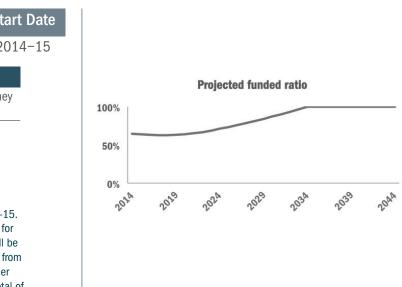
Total Cost (billions): \$183.4

Notes:

The annual state contribution increases to 4.065 percent in October 2014-15. For 2014-15, the increase will be from the statutory rate of 3.291 percent for three payments, for a total of 0.581 percent. For 2015-16, the increase will be one payment from the statutory rate of 3.291 percent and three payments from the statutory rate of 3.522 percent, for a total of 0.602 percent. For all other years, the increase will be from the statutory rate of 3.522 percent, for a total of 0.543 percent. All other increases begin July 2015.

	Employer:	24.20%	State: 0	.543%	2% at 60): 2.83%		2% at 62	2: 2.39%		
	Total Rate	: 32.45%	Total Rate:	4.065%	Total Rate	: 10.83%		Total Rate	e: 10.39%		
Fiscal year	Contribution increase	Annual cost (\$millions)	Contribution increase	Annual cost (\$millions)	Contribution increase	Annual cost (\$millions)	Average cost per member	Contribution increase	Annual cost (\$millions)	Average cost per member	Projected funded ratio
2014	0.00%	\$0	0.581%	\$155	0.00%	\$0	\$0	0.00%	\$0	\$0	64%
2015	1.00%	\$298	0.602%	\$167	1.00%	\$271	\$706	1.00%	\$26	\$706	63%
2016	3.00%	\$926	0.543%	\$156	2.00%	\$545	\$1,465	2.00%	\$72	\$1,465	63%
2017	6.00%	\$1,922	0.543%	\$162	2.83%	\$774	\$2,150	2.39%	\$111	\$1,816	63%
2018	9.00%	\$2,990	0.543%	\$168	2.83%	\$776	\$2,230	2.39%	\$138	\$1,884	63%
2019	12.00%	\$4,135	0.543%	\$174	2.83%	\$777	\$2,313	2.39%	\$167	\$1,954	64%
2020	15.00%	\$5,361	0.543%	\$180	2.83%	\$776	\$2,400	2.39%	\$199	\$2,027	65%
2021	18.00%	\$6,673	0.543%	\$187	2.83%	\$774	\$2,489	2.39%	\$232	\$2,102	67%
2022	21.00%	\$8,075	0.543%	\$194	2.83%	\$770	\$2,582	2.39%	\$269	\$2,180	69%
2023	24.00%	\$9,573	0.543%	\$201	2.83%	\$764	\$2,678	2.39%	\$308	\$2,262	71%
2024	24.20%	\$10,012	0.543%	\$209	2.83%	\$757	\$2,778	2.39%	\$349	\$2,346	73%
2025	24.20%	\$10,385	0.543%	\$217	2.83%	\$748	\$2,881	2.39%	\$394	\$2,433	76%
2026	24.20%	\$10,772	0.543%	\$225	2.83%	\$737	\$2,989	2.39%	\$441	\$2,524	79%
2027	24.20%	\$11,173	0.543%	\$233	2.83%	\$723	\$3,100	2.39%	\$493	\$2,618	81%
2028	24.20%	\$11,589	0.543%	\$242	2.83%	\$705	\$3,215	2.39%	\$549	\$2,715	84%
2029	24.20%	\$12,021	0.543%	\$251	2.83%	\$684	\$3,335	2.39%	\$610	\$2,817	87%
2030	24.20%	\$12,468	0.543%	\$260	2.83%	\$658	\$3,459	2.39%	\$676	\$2,921	90%
2031	24.20%	\$12,932	0.543%	\$270	2.83%	\$628	\$3,588	2.39%	\$747	\$3,030	93%
2032	24.20%	\$13,413	0.543%	\$280	2.83%	\$595	\$3,721	2.39%	\$822	\$3,143	97%
2033	24.20%	\$13,912	0.543%	\$290	2.83%	\$559	\$3,860	2.39%	\$902	\$3,260	100%
Totals:		\$158,629		\$4,218		\$13,023			\$7,506		

\$152.832



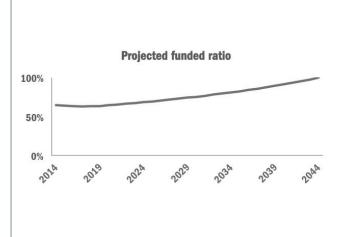
Rate of Increase	Target Funding	Tir	neframe	Star	t Date
Incremental	100%	3	80 years	201	4-15
Full funding projected	d Pro	babi	lities		
June 30, 2044	Overfunded (110)%	Run out of	money	

funded in 30 years) in 75 years 42% 26%

Total Cost (billions): \$236.3

Notes:

The annual state contribution increases to 4.607 percent in October 2014-15. For 2014-15, the increase will be from the statutory rate of 3.291 percent for three payments, for a total of 0.987 percent. For 2015-16, the increase will be one payment from the statutory rate of 3.291 percent and three payments from the statutory rate of 3.522 percent, for a total of 1.142 percent. For all other years, the increase will be from the statutory rate of 3.522 percent, for a total of 1.085 percent. All other increases begin July 2015.



Full Funding Over 40 Years - State Contribution 4.607%

Rate of Increase	Ta	arget Funding	Ti	meframe	Sta
Incremental		100%	Z	40 years	20
Full funding projecte	ed	Pro	bab	ilities	
June 30, 2054		Overfunded (110)%	Run out of	mone
		funded in 30 yea	rs)	in 75 ye	ars
		36%		36%	

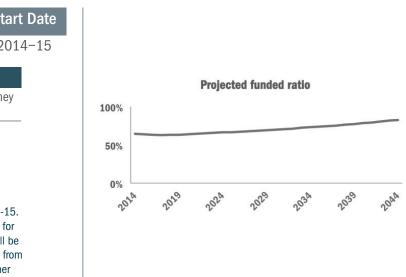
Total Cost (billions): \$319.5

Notes:

The annual state contribution increases to 4.607 percent in October 2014-15. For 2014-15, the increase will be from the statutory rate of 3.291 percent for three payments, for a total of 0.987 percent. For 2015-16, the increase will be one payment from the statutory rate of 3.291 percent and three payments from the statutory rate of 3.522 percent, for a total of 1.142 percent. For all other years, the increase will be from the statutory rate of 3.522 percent, for a total of 1.085 percent. All other increases begin July 2015.

	Employer: 9.37% State		ployer: 9.37% State: 1.085% 2% at 60: 2.83%					2% at 62	2: 2.39%		
	Total Rate	: 17.62%	Total Rate	: 4.607%	Total Rate	: 10.83%		Total Rate	: 10.39%		
Fiscal year	Contribution increase	Annual cost (\$millions)	Contribution increase	Annual cost (\$millions)	Contribution increase	Annual cost (\$millions)	Average cost per member	Contribution increase	Annual cost (\$millions)	Average cost per member	Projected funded ratio
2014	0.00%	\$0	0.987%	\$263	0.00%	\$0	\$0	0.00%	\$0	\$0	64%
2015	1.00%	\$298	1.142%	\$316	1.00%	\$271	\$706	1.00%	\$26	\$706	63%
2016	3.00%	\$926	1.085%	\$311	2.00%	\$545	\$1,465	2.00%	\$72	\$1,465	63%
2017	6.00%	\$1,922	1.085%	\$323	2.83%	\$774	\$2,150	2.39%	\$111	\$1,816	63%
2018	9.00%	\$2,990	1.085%	\$335	2.83%	\$776	\$2,230	2.39%	\$138	\$1,884	63%
2019	9.37%	\$3,229	1.085%	\$347	2.83%	\$777	\$2,313	2.39%	\$167	\$1,954	64%
2020	9.37%	\$3,349	1.085%	\$360	2.83%	\$776	\$2,400	2.39%	\$199	\$2,027	65%
2021	9.37%	\$3,474	1.085%	\$374	2.83%	\$774	\$2,489	2.39%	\$232	\$2,102	65%
2022	9.37%	\$3,603	1.085%	\$388	2.83%	\$770	\$2,582	2.39%	\$269	\$2,180	66%
2023	9.37%	\$3,738	1.085%	\$402	2.83%	\$764	\$2,678	2.39%	\$308	\$2,262	66%
2024	9.37%	\$3,877	1.085%	\$417	2.83%	\$757	\$2,778	2.39%	\$349	\$2,346	67%
2025	9.37%	\$4,021	1.085%	\$433	2.83%	\$748	\$2,881	2.39%	\$394	\$2,433	68%
2026	9.37%	\$4,171	1.085%	\$449	2.83%	\$737	\$2,989	2.39%	\$441	\$2,524	68%
2027	9.37%	\$4,327	1.085%	\$466	2.83%	\$723	\$3,100	2.39%	\$493	\$2,618	69%
2028	9.37%	\$4,488	1.085%	\$483	2.83%	\$705	\$3,215	2.39%	\$549	\$2,715	69%
2029	9.37%	\$4,655	1.085%	\$501	2.83%	\$684	\$3,335	2.39%	\$610	\$2,817	70%
2030	9.37%	\$4,828	1.085%	\$520	2.83%	\$658	\$3,459	2.39%	\$676	\$2,921	71%
2031	9.37%	\$5,008	1.085%	\$539	2.83%	\$628	\$3,588	2.39%	\$747	\$3,030	72%
2032	9.37%	\$5,194	1.085%	\$559	2.83%	\$595	\$3,721	2.39%	\$822	\$3,143	72%
2033	9.37%	\$5,387	1.085%	\$580	2.83%	\$559	\$3,860	2.39%	\$902	\$3,260	73%
2034	9.37%	\$5,588	1.085%	\$601	2.83%	\$521	\$4,004	2.39%	\$985	\$3,381	74%
2035	9.37%	\$5,796	1.085%	\$624	2.83%	\$481	\$4,153	2.39%	\$1,072	\$3,507	75%
2036	9.37%	\$6,012	1.085%	\$647	2.83%	\$439	\$4,307	2.39%	\$1,162	\$3,638	76%
2037	9.37%	\$6,236	1.085%	\$671	2.83%	\$396	\$4,468	2.39%	\$1,256	\$3,773	76%
2038	9.37%	\$6,468	1.085%	\$696	2.83%	\$352	\$4,634	2.39%	\$1,352	\$3,914	77%
2039	9.37%	\$6,709	1.085%	\$722	2.83%	\$309	\$4,807	2.39%	\$1,451	\$4,060	78%
2040	9.37%	\$6,959	1.085%	\$749	2.83%	\$266	\$4,986	2.39%	\$1,550	\$4,211	79%
2041	9.37%	\$7,219	1.085%	\$777	2.83%	\$225	\$5,172	2.39%	\$1,652	\$4,368	81%
2042	9.37%	\$7,488	1.085%	\$806	2.83%	\$185	\$5,365	2.39%	\$1,753	\$4,531	82%
2053	9.37%	\$11,220	1.085%	\$1,207	2.83%	\$9	\$8,039	2.39%	\$2,854	\$6,789	100%
Totals:		\$231,338		\$25,780		\$16,806			\$45,591		

	Employer:	12.80%	State: 1	L. 085 %	2% at 60	: 2.83%		2% at 6	2: 2.39%		
	Total Rate	: 21.05%	Total Rate	: 4.607%	Total Rate	: 10.83%		Total Rate	e: 10.39%		
Fiscal year	Contribution increase	Annual cost (\$millions)	Contribution increase	Annual cost (\$millions)	Contribution increase	Annual cost (\$millions)	Average cost per member	Contribution increase	Annual cost (\$millions)	Average cost per member	Projected funded ratio
2014	0.00%	\$0	0.987%	\$263	0.00%	\$0	\$0	0.00%	\$0	\$0	64%
2015	1.00%	\$298	1.142%	\$316	1.00%	\$271	\$706	1.00%	\$26	\$706	63%
2016	3.00%	\$926	1.085%	\$311	2.00%	\$545	\$1,465	2.00%	\$72	\$1,465	63%
2017	6.00%	\$1,922	1.085%	\$323	2.83%	\$774	\$2,150	2.39%	\$111	\$1,816	63%
2018	9.00%	\$2,990	1.085%	\$335	2.83%	\$776	\$2,230	2.39%	\$138	\$1,884	63%
2019	12.00%	\$4,135	1.085%	\$347	2.83%	\$777	\$2,313	2.39%	\$167	\$1,954	64%
2020	12.80%	\$4,576	1.085%	\$360	2.83%	\$776	\$2,400	2.39%	\$199	\$2,027	65%
2021	12.80%	\$4,746	1.085%	\$374	2.83%	\$774	\$2,489	2.39%	\$232	\$2,102	66%
2022	12.80%	\$4,923	1.085%	\$388	2.83%	\$770	\$2,582	2.39%	\$269	\$2,180	67%
2023	12.80%	\$5,106	1.085%	\$402	2.83%	\$764	\$2,678	2.39%	\$308	\$2,262	68%
2024	12.80%	\$5,297	1.085%	\$417	2.83%	\$757	\$2,778	2.39%	\$349	\$2,346	69%
2025	12.80%	\$5,494	1.085%	\$433	2.83%	\$748	\$2,881	2.39%	\$394	\$2,433	71%
2026	12.80%	\$5,699	1.085%	\$449	2.83%	\$737	\$2,989	2.39%	\$441	\$2,524	72%
2027	12.80%	\$5,911	1.085%	\$466	2.83%	\$723	\$3,100	2.39%	\$493	\$2,618	73%
2028	12.80%	\$6,131	1.085%	\$483	2.83%	\$705	\$3,215	2.39%	\$549	\$2,715	74%
2029	12.80%	\$6,359	1.085%	\$501	2.83%	\$684	\$3,335	2.39%	\$610	\$2,817	75%
2030	12.80%	\$6,596	1.085%	\$520	2.83%	\$658	\$3,459	2.39%	\$676	\$2,921	77%
2031	12.80%	\$6,841	1.085%	\$539	2.83%	\$628	\$3,588	2.39%	\$747	\$3,030	78%
2032	12.80%	\$7,096	1.085%	\$559	2.83%	\$595	\$3,721	2.39%	\$822	\$3,143	79%
2033	12.80%	\$7,360	1.085%	\$580	2.83%	\$559	\$3,860	2.39%	\$902	\$3,260	81%
2034	12.80%	\$7,634	1.085%	\$601	2.83%	\$521	\$4,004	2.39%	\$985	\$3,381	82%
2035	12.80%	\$7,918	1.085%	\$624	2.83%	\$481	\$4,153	2.39%	\$1,072	\$3,507	84%
2036	12.80%	\$8,213	1.085%	\$647	2.83%	\$439	\$4,307	2.39%	\$1,162	\$3,638	86%
2037	12.80%	\$8,519	1.085%	\$671	2.83%	\$396	\$4,468	2.39%	\$1,256	\$3,773	87%
2038	12.80%	\$8,836	1.085%	\$696	2.83%	\$352	\$4,634	2.39%	\$1,352	\$3,914	89%
2039	12.80%	\$9,166	1.085%	\$722	2.83%	\$309	\$4,807	2.39%	\$1,451	\$4,060	91%
2040	12.80%	\$9,507	1.085%	\$749	2.83%	\$266	\$4,986	2.39%	\$1,550	\$4,211	93%
2041	12.80%	\$9,862	1.085%	\$777	2.83%	\$225	\$5,172	2.39%	\$1,652	\$4,368	95%
2042	12.80%	\$10,230	1.085%	\$806	2.83%	\$185	\$5,365	2.39%	\$1,753	\$4,531	98%
2043	12.80%	\$10,613	1.085%	\$836	2.83%	\$150	\$5,566	2.39%	\$1,855	\$4,700	100%
Totals:		\$182,900		\$15,479		\$16,347			\$21,594		



Full Funding Over 50 Years - State Contribution 4.607%

Rate of Increase	Target Funding	Timeframe	Start Date			
Incremental	100%	50 years	2014-15			
Full funding projecte	d Pro	Probabilities				
June 30, 2064	Overfunded (110	0% Run out of	money			
	funded in 30 yea	rs) in 75 y	ears			
	34%	44%	6			

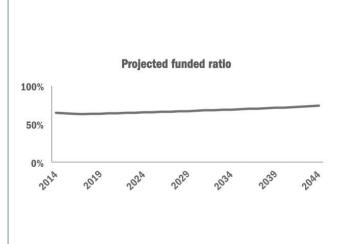
Total Cost (billions): \$441.6

Employer: 7.68%

Notes:

The annual state contribution increases to 4.607 percent in October 2014-15. For 2014-15, the increase will be from the statutory rate of 3.291 percent for three payments, for a total of 0.987 percent. For 2015-16, the increase will be one payment from the statutory rate of 3.291 percent and three payments from the statutory rate of 3.522 percent, for a total of 1.142 percent. For all other years, the increase will be from the statutory rate of 3.522 percent, for a total of 1.085 percent. All other increases begin July 2015.

State: 1.085%



2% at 62: 2.39%

Full Funding Over 60 Years - State Contribution 4.607%

Rate of Increase	Ta	arget Funding	Ti	meframe	Sta
Incremental		100%	(60 years	20
Full funding projecte	d	Pro	bab	ilities	
June 30, 2074		Overfunded (110)%	Run out of	mone
		funded in 30 yea	rs)	in 75 ye	ars
		31%		47%	

Total Cost (billions): \$618.0

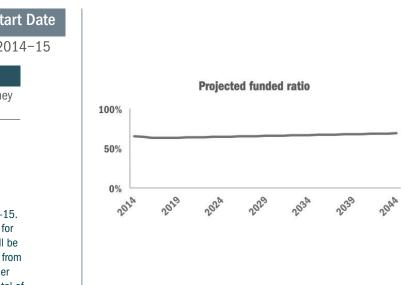
Notes:

The annual state contribution increases to 4.607 percent in October 2014-15. For 2014-15, the increase will be from the statutory rate of 3.291 percent for three payments, for a total of 0.987 percent. For 2015-16, the increase will be one payment from the statutory rate of 3.291 percent and three payments from the statutory rate of 3.522 percent, for a total of 1.142 percent. For all other years, the increase will be from the statutory rate of 3.522 percent, for a total of 1.085 percent. All other increases begin July 2015.

	Employer	: 6.69%	State: 1	.085%	2% at 60): 2.83%		2% at 62	2: 2.39%		
	Total Rate	: 14.94%	Total Rate	: 4.607%	Total Rate	: 10.83%		Total Rate	e: 10.39%		
Fiscal year	Contribution increase	Annual cost (\$millions)	Contribution increase	Annual cost (\$millions)	Contribution increase	Annual cost (\$millions)	Average cost per member	Contribution increase	Annual cost (\$millions)	Average cost per member	Projected funded ratio
2014	0.00%	\$0	0.987%	\$263	0.00%	\$0	\$0	0.00%	\$0	\$0	64%
2015	1.00%	\$298	1.142%	\$316	1.00%	\$271	\$706	1.00%	\$26	\$706	63%
2016	3.00%	\$926	1.085%	\$311	2.00%	\$545	\$1,465	2.00%	\$72	\$1,465	63%
2017	6.00%	\$1,922	1.085%	\$323	2.83%	\$774	\$2,150	2.39%	\$111	\$1,816	63%
2018	6.69%	\$2,223	1.085%	\$335	2.83%	\$776	\$2,230	2.39%	\$138	\$1,884	63%
2019	6.69%	\$2,306	1.085%	\$347	2.83%	\$777	\$2,313	2.39%	\$167	\$1,954	63%
2020	6.69%	\$2,391	1.085%	\$360	2.83%	\$776	\$2,400	2.39%	\$199	\$2,027	64%
2021	6.69%	\$2,481	1.085%	\$374	2.83%	\$774	\$2,489	2.39%	\$232	\$2,102	64%
2022	6.69%	\$2,573	1.085%	\$388	2.83%	\$770	\$2,582	2.39%	\$269	\$2,180	64%
2023	6.69%	\$2,669	1.085%	\$402	2.83%	\$764	\$2,678	2.39%	\$308	\$2,262	64%
2024	6.69%	\$2,768	1.085%	\$417	2.83%	\$757	\$2,778	2.39%	\$349	\$2,346	64%
2025	6.69%	\$2,871	1.085%	\$433	2.83%	\$748	\$2,881	2.39%	\$394	\$2,433	65%
2026	6.69%	\$2,978	1.085%	\$449	2.83%	\$737	\$2,989	2.39%	\$441	\$2,524	65%
2027	6.69%	\$3,089	1.085%	\$466	2.83%	\$723	\$3,100	2.39%	\$493	\$2,618	65%
2028	6.69%	\$3,204	1.085%	\$483	2.83%	\$705	\$3,215	2.39%	\$549	\$2,715	65%
2029	6.69%	\$3,324	1.085%	\$501	2.83%	\$684	\$3,335	2.39%	\$610	\$2.817	66%
2030	6.69%	\$3,447	1.085%	\$520	2.83%	\$658	\$3,459	2.39%	\$676	\$2,921	66%
2031	6.69%	\$3,576	1.085%	\$539	2.83%	\$628	\$3,588	2.39%	\$747	\$3,030	66%
2032	6.69%	\$3,709	1.085%	\$559	2.83%	\$595	\$3,721	2.39%	\$822	\$3,143	66%
2033	6.69%	\$3,847	1.085%	\$580	2.83%	\$559	\$3,860	2.39%	\$902	\$3,260	66%
2034	6.69%	\$3,990	1.085%	\$601	2.83%	\$521	\$4,004	2.39%	\$985	\$3,381	67%
2035	6.69%	\$4,139	1.085%	\$624	2.83%	\$481	\$4,153	2.39%	\$1,072	\$3,507	67%
2036	6.69%	\$4,293	1.085%	\$647	2.83%	\$439	\$4,307	2.39%	\$1,162	\$3,638	67%
2037	6.69%	\$4,453	1.085%	\$671	2.83%	\$396	\$4,468	2.39%	\$1,256	\$3,773	67%
2038	6.69%	\$4,618	1.085%	\$696	2.83%	\$352	\$4,634	2.39%	\$1,352	\$3,914	67%
2039	6.69%	\$4,791	1.085%	\$722	2.83%	\$309	\$4,807	2.39%	\$1,451	\$4,060	68%
2040	6.69%	\$4,969	1.085%	\$749	2.83%	\$266	\$4,986	2.39%	\$1,550	\$4,211	68%
2041	6.69%	\$5,155	1.085%	\$777	2.83%	\$225	\$5,172	2.39%	\$1,652	\$4,368	68%
2042	6.69%	\$5,347	1.085%	\$806	2.83%	\$185	\$5,365	2.39%	\$1,753	\$4,531	68%
2073	6.69%	\$16,729	1.085%	\$2,520	2.83%	\$0	\$16,786	2.39%	\$5,975	\$14,176	100%
Totals:		\$407,369		\$62,113		\$16,832			\$131,718		

	Total Rate	: 15.93%	Total Rate	: 4.607%	Total Rate	: 10.83%		Total Rate	e: 10.39%		
Fiscal year	Contribution increase	Annual cost (\$millions)	Contribution increase	Annual cost (\$millions)	Contribution increase	Annual cost (\$millions)	Average cost per member	Contribution increase	Annual cost (\$millions)	Average cost per member	Projected funded ratio
2014	0.00%	\$0	0.987%	\$263	0.00%	\$0	\$0	0.00%	\$0	\$0	64%
2015	1.00%	\$298	1.142%	\$316	1.00%	\$271	\$706	1.00%	\$26	\$706	63%
2016	3.00%	\$926	1.085%	\$311	2.00%	\$545	\$1,465	2.00%	\$72	\$1,465	63%
2017	6.00%	\$1,922	1.085%	\$323	2.83%	\$774	\$2,150	2.39%	\$111	\$1,816	63%
2018	7.68%	\$2,549	1.085%	\$335	2.83%	\$776	\$2,230	2.39%	\$138	\$1,884	63%
2019	7.68%	\$2,644	1.085%	\$347	2.83%	\$777	\$2,313	2.39%	\$167	\$1,954	64%
2020	7.68%	\$2,743	1.085%	\$360	2.83%	\$776	\$2,400	2.39%	\$199	\$2,027	64%
2021	7.68%	\$2,845	1.085%	\$374	2.83%	\$774	\$2,489	2.39%	\$232	\$2,102	64%
2022	7.68%	\$2,951	1.085%	\$388	2.83%	\$770	\$2,582	2.39%	\$269	\$2,180	65%
2023	7.68%	\$3,061	1.085%	\$402	2.83%	\$764	\$2,678	2.39%	\$308	\$2,262	65%
2024	7.68%	\$3,175	1.085%	\$417	2.83%	\$757	\$2,778	2.39%	\$349	\$2,346	65%
2025	7.68%	\$3,294	1.085%	\$433	2.83%	\$748	\$2,881	2.39%	\$394	\$2,433	66%
2026	7.68%	\$3,416	1.085%	\$449	2.83%	\$737	\$2,989	2.39%	\$441	\$2,524	66%
2027	7.68%	\$3,544	1.085%	\$466	2.83%	\$723	\$3,100	2.39%	\$493	\$2,618	67%
2028	7.68%	\$3,675	1.085%	\$483	2.83%	\$705	\$3,215	2.39%	\$549	\$2,715	67%
2029	7.68%	\$3,812	1.085%	\$501	2.83%	\$684	\$3,335	2.39%	\$610	\$2,817	67%
2030	7.68%	\$3,954	1.085%	\$520	2.83%	\$658	\$3,459	2.39%	\$676	\$2,921	68%
2031	7.68%	\$4,101	1.085%	\$539	2.83%	\$628	\$3,588	2.39%	\$747	\$3,030	68%
2032	7.68%	\$4,254	1.085%	\$559	2.83%	\$595	\$3,721	2.39%	\$822	\$3,143	68%
2033	7.68%	\$4,412	1.085%	\$580	2.83%	\$559	\$3,860	2.39%	\$902	\$3,260	69%
2034	7.68%	\$4,577	1.085%	\$601	2.83%	\$521	\$4,004	2.39%	\$985	\$3,381	69%
2035	7.68%	\$4,747	1.085%	\$624	2.83%	\$481	\$4,153	2.39%	\$1,072	\$3,507	70%
2036	7.68%	\$4,924	1.085%	\$647	2.83%	\$439	\$4,307	2.39%	\$1,162	\$3,638	70%
2037	7.68%	\$5,107	1.085%	\$671	2.83%	\$396	\$4,468	2.39%	\$1,256	\$3,773	71%
2038	7.68%	\$5,297	1.085%	\$696	2.83%	\$352	\$4,634	2.39%	\$1,352	\$3,914	71%
2039	7.68%	\$5,495	1.085%	\$722	2.83%	\$309	\$4,807	2.39%	\$1,451	\$4,060	72%
2040	7.68%	\$5,700	1.085%	\$749	2.83%	\$266	\$4,986	2.39%	\$1,550	\$4,211	72%
2041	7.68%	\$5,912	1.085%	\$777	2.83%	\$225	\$5,172	2.39%	\$1,652	\$4,368	73%
2042	7.68%	\$6,133	1.085%	\$806	2.83%	\$185	\$5,365	2.39%	\$1,753	\$4,531	73%
2063	7.68%	\$13,279	1.085%	\$1,744	2.83%	\$0	\$11,616	2.39%	\$4,135	\$9,810	100%
Totals:		\$303,289		\$40,640		\$16,832			\$80,803		

2% at 60: 2.83%



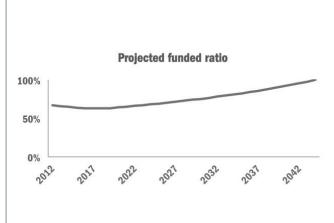
Full Funding Over 30 Years - State Contribution 4.065%

Rate of Increase	Target Funding	Timeframe	Start Date
Incremental	100%	30 years	2014-15
Full funding projecte	d Pro	babilities	
June 30, 2044	Overfunded (110	% Run out of	money
	funded in 30 yea	rs) in 75 ye	ears
	42%	25%	,)

Total Cost (billions): \$238.3

Notes:

The annual state contribution increases to 4.065 percent in October 2014-15. For 2014-15, the increase will be from the statutory rate of 3.291 percent for three payments, for a total of 0.581 percent. For 2015-16, the increase will be one payment from the statutory rate of 3.291 percent and three payments from the statutory rate of 3.522 percent, for a total of 0.602 percent. For all other years, the increase will be from the statutory rate of 3.522 percent, for a total of 0.543 percent. All other increases begin July 2015.



Full Funding Over 40 Years - State Contribution 4.065%

Rate of Increase	Ta	arget Funding	Ti	Sta	
Incremental		100%	4	40 years	20
Full funding projecte	d	Pro	bab	ilities	
June 30, 2054	Overfunded (110		Run out of mone		
		funded in 30 yea	rs)	in 75 ye	ars
	36%		36%		

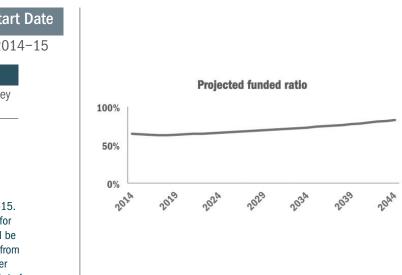
Total Cost (billions): \$322.0

Notes:

The annual state contribution increases to 4.065 percent in October 2014-15. For 2014-15, the increase will be from the statutory rate of 3.291 percent for three payments, for a total of 0.581 percent. For 2015-16, the increase will be one payment from the statutory rate of 3.291 percent and three payments from the statutory rate of 3.522 percent, for a total of 0.602 percent. For all other years, the increase will be from the statutory rate of 3.522 percent, for a total of 0.543 percent. All other increases begin July 2015.

	Employer: 10.01%		Employer: 10.01% State: 0.543%			.543%	2% at 60	: 2.83%		2% at 62	2: 2.39%		
	Total Rate	Total Rate: 18.26%		Total Rate: 4.065%		Total Rate: 10.83%		Total Rate: 10.39%					
Fiscal year	Contribution increase	Annual cost (\$millions)	Contribution increase	Annual cost (\$millions)	Contribution increase	Annual cost (\$millions)	Average cost per member	Contribution increase	Annual cost (\$millions)	Average cost per member	Projected funded ratio		
2014	0.00%	\$0	0.581%	\$155	0.00%	\$0	\$0	0.00%	\$0	\$0	64%		
2015	1.00%	\$298	0.602%	\$167	1.00%	\$271	\$706	1.00%	\$26	\$706	63%		
2016	3.00%	\$926	0.543%	\$156	2.00%	\$545	\$1,465	2.00%	\$72	\$1,465	63%		
2017	6.00%	\$1,922	0.543%	\$162	2.83%	\$774	\$2,150	2.39%	\$111	\$1,816	63%		
2018	9.00%	\$2,990	0.543%	\$168	2.83%	\$776	\$2,230	2.39%	\$138	\$1,884	63%		
2019	10.01%	\$3,449	0.543%	\$174	2.83%	\$777	\$2,313	2.39%	\$167	\$1,954	64%		
2020	10.01%	\$3,577	0.543%	\$180	2.83%	\$776	\$2,400	2.39%	\$199	\$2,027	64%		
2021	10.01%	\$3,711	0.543%	\$187	2.83%	\$774	\$2,489	2.39%	\$232	\$2,102	65%		
2022	10.01%	\$3,849	0.543%	\$194	2.83%	\$770	\$2,582	2.39%	\$269	\$2,180	65%		
2023	10.01%	\$3,992	0.543%	\$201	2.83%	\$764	\$2,678	2.39%	\$308	\$2,262	66%		
2024	10.01%	\$4,141	0.543%	\$209	2.83%	\$757	\$2,778	2.39%	\$349	\$2,346	67%		
2025	10.01%	\$4,295	0.543%	\$217	2.83%	\$748	\$2,881	2.39%	\$394	\$2,433	67%		
2026	10.01%	\$4,455	0.543%	\$225	2.83%	\$737	\$2,989	2.39%	\$441	\$2,524	68%		
2027	10.01%	\$4,621	0.543%	\$233	2.83%	\$723	\$3,100	2.39%	\$493	\$2,618	69%		
2028	10.01%	\$4,793	0.543%	\$242	2.83%	\$705	\$3,215	2.39%	\$549	\$2,715	69%		
2029	10.01%	\$4,972	0.543%	\$251	2.83%	\$684	\$3,335	2.39%	\$610	\$2,817	70%		
2030	10.01%	\$5,157	0.543%	\$260	2.83%	\$658	\$3,459	2.39%	\$676	\$2,921	71%		
2031	10.01%	\$5,349	0.543%	\$270	2.83%	\$628	\$3,588	2.39%	\$747	\$3,030	71%		
2032	10.01%	\$5,548	0.543%	\$280	2.83%	\$595	\$3,721	2.39%	\$822	\$3,143	72%		
2033	10.01%	\$5,754	0.543%	\$290	2.83%	\$559	\$3,860	2.39%	\$902	\$3,260	73%		
2034	10.01%	\$5,968	0.543%	\$301	2.83%	\$521	\$4,004	2.39%	\$985	\$3,381	74%		
2035	10.01%	\$6,191	0.543%	\$312	2.83%	\$481	\$4,153	2.39%	\$1,072	\$3,507	74%		
2036	10.01%	\$6,421	0.543%	\$324	2.83%	\$439	\$4,307	2.39%	\$1,162	\$3,638	75%		
2037	10.01%	\$6,660	0.543%	\$336	2.83%	\$396	\$4,468	2.39%	\$1,256	\$3,773	76%		
2038	10.01%	\$6,909	0.543%	\$348	2.83%	\$352	\$4,634	2.39%	\$1,352	\$3,914	77%		
2039	10.01%	\$7,166	0.543%	\$361	2.83%	\$309	\$4,807	2.39%	\$1,451	\$4,060	78%		
2040	10.01%	\$7,433	0.543%	\$375	2.83%	\$266	\$4,986	2.39%	\$1,550	\$4,211	79%		
2041	10.01%	\$7,711	0.543%	\$389	2.83%	\$225	\$5,172	2.39%	\$1,652	\$4,368	80%		
2042	10.01%	\$7,999	0.543%	\$403	2.83%	\$185	\$5,365	2.39%	\$1,753	\$4,531	82%		
2053	10.01%	\$11,985	0.543%	\$604	2.83%	\$9	\$8,039	2.39%	\$2,854	\$6,789	100%		
Totals:		\$246,682		\$12,934		\$16,806			\$45,591				

	Employer: 13.52%		Employer: 13.52% State: 0.543% 2% at 60:): 2.83%		2% at 62	2: 2.39%			
	Total Rate	: 21.77%	Total Rate	: 4.065%	Total Rate	: 10.83%		Total Rate	e: 10.39%		
Fiscal year	Contribution increase	Annual cost (\$millions)	Contribution increase	Annual cost (\$millions)	Contribution increase	Annual cost (\$millions)	Average cost per member	Contribution increase	Annual cost (\$millions)	Average cost per member	Projected funded ratio
2014	0.00%	\$0	0.581%	\$155	0.00%	\$0	\$0	0.00%	\$0	\$0	64%
2015	1.00%	\$298	0.602%	\$167	1.00%	\$271	\$706	1.00%	\$26	\$706	63%
2016	3.00%	\$926	0.543%	\$156	2.00%	\$545	\$1,465	2.00%	\$72	\$1,465	63%
2017	6.00%	\$1,922	0.543%	\$162	2.83%	\$774	\$2,150	2.39%	\$111	\$1,816	63%
2018	9.00%	\$2,990	0.543%	\$168	2.83%	\$776	\$2,230	2.39%	\$138	\$1,884	63%
2019	12.00%	\$4,135	0.543%	\$174	2.83%	\$777	\$2,313	2.39%	\$167	\$1,954	64%
2020	13.52%	\$4,832	0.543%	\$180	2.83%	\$776	\$2,400	2.39%	\$199	\$2,027	65%
2021	13.52%	\$5,012	0.543%	\$187	2.83%	\$774	\$2,489	2.39%	\$232	\$2,102	66%
2022	13.52%	\$5,199	0.543%	\$194	2.83%	\$770	\$2,582	2.39%	\$269	\$2,180	67%
2023	13.52%	\$5,392	0.543%	\$201	2.83%	\$764	\$2,678	2.39%	\$308	\$2,262	68%
2024	13.52%	\$5,593	0.543%	\$209	2.83%	\$757	\$2,778	2.39%	\$349	\$2,346	69%
2025	13.52%	\$5,802	0.543%	\$217	2.83%	\$748	\$2,881	2.39%	\$394	\$2,433	70%
2026	13.52%	\$6,018	0.543%	\$225	2.83%	\$737	\$2,989	2.39%	\$441	\$2,524	71%
2027	13.52%	\$6,242	0.543%	\$233	2.83%	\$723	\$3,100	2.39%	\$493	\$2,618	73%
2028	13.52%	\$6,474	0.543%	\$242	2.83%	\$705	\$3,215	2.39%	\$549	\$2,715	74%
2029	13.52%	\$6,715	0.543%	\$251	2.83%	\$684	\$3,335	2.39%	\$610	\$2,817	75%
2030	13.52%	\$6,965	0.543%	\$260	2.83%	\$658	\$3,459	2.39%	\$676	\$2,921	76%
2031	13.52%	\$7,224	0.543%	\$270	2.83%	\$628	\$3,588	2.39%	\$747	\$3,030	78%
2032	13.52%	\$7,493	0.543%	\$280	2.83%	\$595	\$3,721	2.39%	\$822	\$3,143	79%
2033	13.52%	\$7,772	0.543%	\$290	2.83%	\$559	\$3,860	2.39%	\$902	\$3,260	81%
2034	13.52%	\$8,061	0.543%	\$301	2.83%	\$521	\$4,004	2.39%	\$985	\$3,381	82%
2035	13.52%	\$8,362	0.543%	\$312	2.83%	\$481	\$4,153	2.39%	\$1,072	\$3,507	84%
2036	13.52%	\$8,673	0.543%	\$324	2.83%	\$439	\$4,307	2.39%	\$1,162	\$3,638	86%
2037	13.52%	\$8,996	0.543%	\$336	2.83%	\$396	\$4,468	2.39%	\$1,256	\$3,773	87%
2038	13.52%	\$9,331	0.543%	\$348	2.83%	\$352	\$4,634	2.39%	\$1,352	\$3,914	89%
2039	13.52%	\$9,679	0.543%	\$361	2.83%	\$309	\$4,807	2.39%	\$1,451	\$4,060	91%
2040	13.52%	\$10,040	0.543%	\$375	2.83%	\$266	\$4,986	2.39%	\$1,550	\$4,211	93%
2041	13.52%	\$10,415	0.543%	\$389	2.83%	\$225	\$5,172	2.39%	\$1,652	\$4,368	95%
2042	13.52%	\$10,803	0.543%	\$403	2.83%	\$185	\$5,365	2.39%	\$1,753	\$4,531	98%
2043	13.52%	\$11,207	0.543%	\$418	2.83%	\$150	\$5,566	2.39%	\$1,855	\$4,700	100%
Totals:		\$192,570		\$7,786		\$16,347			\$21,594		



Full Funding Over 50 Years - State Contribution 4.065%

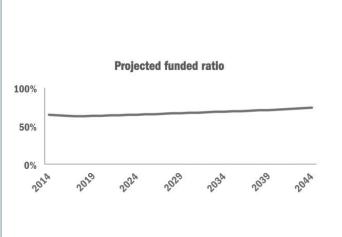
Rate of Increase	Target Funding	Timeframe	Start Date
Incremental	100%	50 years	2014-15
Full funding projecte	d Pro	babilities	
June 30, 2064	Overfunded (110	0% Run out of	money
	funded in 30 yea	rs) in 75 y	ears
	34%	43%	6

Total Cost (billions): \$444.7

Employer: 8.27% State: 0.543%

Notes:

The annual state contribution increases to 4.065 percent in October 2014-15. For 2014-15, the increase will be from the statutory rate of 3.291 percent for three payments, for a total of 0.581 percent. For 2015-16, the increase will be one payment from the statutory rate of 3.291 percent and three payments from the statutory rate of 3.522 percent, for a total of 0.602 percent. For all other years, the increase will be from the statutory rate of 3.522 percent, for a total of 0.543 percent. All other increases begin July 2015.



2% at 62: 2.39%

Full Funding Over 60 Years - State Contribution 4.065%

Rate of Increase	arget Funding	Ti	meframe	Sta				
Incremental		100%	(60 years	20			
Full funding projecte	ed	75-year probabilities						
June 30, 2074		Overfunded (110)%	Run out of mone				
		funded in 30 yea	rs)	in 75 ye	ars			
	31%	47%						

Total Cost (billions): \$622.8

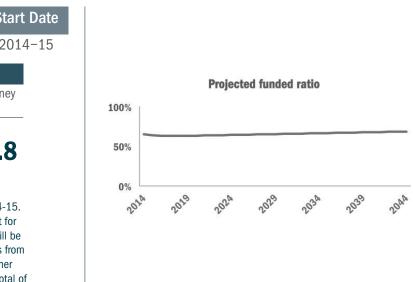
Notes:

The annual state contribution increases to 4.065 percent in October 2014-15. For 2014-15, the increase will be from the statutory rate of 3.291 percent for three payments, for a total of 0.581 percent. For 2015-16, the increase will be one payment from the statutory rate of 3.291 percent and three payments from the statutory rate of 3.522 percent, for a total of 0.602 percent. For all other years, the increase will be from the statutory rate of 3.522 percent, for a total of 0.543 percent. All other increases begin July 2015.

	Employer: 7.28%		Employer: 7.28%		State: 0	.543%	2% at 60): 2.83%		2% at 62	2: 2.39%		
	Total Rate	: 15.53%	Total Rate	: 4.065%	Total Rate	: 10.83%		Total Rate	e: 10.39%				
Fiscal year	Contribution increase	Annual cost (\$millions)	Contribution increase	Annual cost (\$millions)	Contribution increase	Annual cost (\$millions)	Average cost per member	Contribution increase	Annual cost (\$millions)	Average cost per member	Projected funded ratio		
2014	0.00%	\$0	0.581%	\$155	0.00%	\$0	\$0	0.00%	\$0	\$0	64%		
2015	1.00%	\$298	0.602%	\$167	1.00%	\$271	\$706	1.00%	\$26	\$706	63%		
2016	3.00%	\$926	0.543%	\$156	2.00%	\$545	\$1,465	2.00%	\$72	\$1,465	63%		
2017	6.00%	\$1,922	0.543%	\$162	2.83%	\$774	\$2,150	2.39%	\$111	\$1,816	63%		
2018	7.28%	\$2,419	0.543%	\$168	2.83%	\$776	\$2,230	2.39%	\$138	\$1,884	63%		
2019	7.28%	\$2,509	0.543%	\$174	2.83%	\$777	\$2,313	2.39%	\$167	\$1,954	63%		
2020	7.28%	\$2,603	0.543%	\$180	2.83%	\$776	\$2,400	2.39%	\$199	\$2,027	63%		
2021	7.28%	\$2,700	0.543%	\$187	2.83%	\$774	\$2,489	2.39%	\$232	\$2,102	64%		
2022	7.28%	\$2,801	0.543%	\$194	2.83%	\$770	\$2,582	2.39%	\$269	\$2,180	64%		
2023	7.28%	\$2,905	0.543%	\$201	2.83%	\$764	\$2,678	2.39%	\$308	\$2,262	64%		
2024	7.28%	\$3,013	0.543%	\$209	2.83%	\$757	\$2,778	2.39%	\$349	\$2,346	64%		
2025	7.28%	\$3,125	0.543%	\$217	2.83%	\$748	\$2,881	2.39%	\$394	\$2,433	64%		
2026	7.28%	\$3,242	0.543%	\$225	2.83%	\$737	\$2,989	2.39%	\$441	\$2,524	65%		
2027	7.28%	\$3,363	0.543%	\$233	2.83%	\$723	\$3,100	2.39%	\$493	\$2,618	65%		
2028	7.28%	\$3,488	0.543%	\$242	2.83%	\$705	\$3,215	2.39%	\$549	\$2,715	65%		
2029	7.28%	\$3,618	0.543%	\$251	2.83%	\$684	\$3,335	2.39%	\$610	\$2,817	65%		
2030	7.28%	\$3,752	0.543%	\$260	2.83%	\$658	\$3,459	2.39%	\$676	\$2,921	66%		
2031	7.28%	\$3,892	0.543%	\$270	2.83%	\$628	\$3,588	2.39%	\$747	\$3,030	66%		
2032	7.28%	\$4,037	0.543%	\$280	2.83%	\$595	\$3,721	2.39%	\$822	\$3,143	66%		
2033	7.28%	\$4,187	0.543%	\$290	2.83%	\$559	\$3,860	2.39%	\$902	\$3,260	66%		
2034	7.28%	\$4,343	0.543%	\$301	2.83%	\$521	\$4,004	2.39%	\$985	\$3,381	66%		
2035	7.28%	\$4,505	0.543%	\$312	2.83%	\$481	\$4,153	2.39%	\$1,072	\$3,507	67%		
2036	7.28%	\$4,672	0.543%	\$324	2.83%	\$439	\$4,307	2.39%	\$1,162	\$3,638	67%		
2037	7.28%	\$4,846	0.543%	\$336	2.83%	\$396	\$4,468	2.39%	\$1,256	\$3,773	67%		
2038	7.28%	\$5,027	0.543%	\$348	2.83%	\$352	\$4,634	2.39%	\$1,352	\$3,914	67%		
2039	7.28%	\$5,214	0.543%	\$361	2.83%	\$309	\$4,807	2.39%	\$1,451	\$4,060	67%		
2040	7.28%	\$5,409	0.543%	\$375	2.83%	\$266	\$4,986	2.39%	\$1,550	\$4,211	68%		
2041	7.28%	\$5,611	0.543%	\$389	2.83%	\$225	\$5,172	2.39%	\$1,652	\$4,368	68%		
2042	7.28%	\$5,820	0.543%	\$403	2.83%	\$185	\$5,365	2.39%	\$1,753	\$4,531	68%		
2073	7.28%	\$18,209	0.543%	\$1,261	2.83%	\$0	\$16,786	2.39%	\$5,975	\$14.176	100%		
Totals:		\$443,116		\$31,117		\$16,832			\$131,718				

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	Total Rate	: 16.52%	Total Rate	: 4.065%	Total Rate	: 10.83%		Total Rate	e: 10.39%		
Fiscal year	Contribution increase	Annual cost (\$millions)	Contribution increase	Annual cost (\$millions)	Contribution increase	Annual cost (\$millions)	Average cost per member	Contribution increase	Annual cost (\$millions)	Average cost per member	Projected funded ratio
2014	0.00%	\$0	0.581%	\$155	0.00%	\$0	\$0	0.00%	\$0	\$0	64%
2015	1.00%	\$298	0.602%	\$167	1.00%	\$271	\$706	1.00%	\$26	\$706	63%
2016	3.00%	\$926	0.543%	\$156	2.00%	\$545	\$1,465	2.00%	\$72	\$1,465	63%
2017	6.00%	\$1,922	0.543%	\$162	2.83%	\$774	\$2,150	2.39%	\$111	\$1,816	63%
2018	8.27%	\$2,748	0.543%	\$168	2.83%	\$776	\$2,230	2.39%	\$138	\$1,884	63%
2019	8.27%	\$2,850	0.543%	\$174	2.83%	\$777	\$2,313	2.39%	\$167	\$1,954	63%
2020	8.27%	\$2,957	0.543%	\$180	2.83%	\$776	\$2,400	2.39%	\$199	\$2,027	64%
2021	8.27%	\$3,067	0.543%	\$187	2.83%	\$774	\$2,489	2.39%	\$232	\$2,102	64%
2022	8.27%	\$3,181	0.543%	\$194	2.83%	\$770	\$2,582	2.39%	\$269	\$2,180	64%
2023	8.27%	\$3,300	0.543%	\$201	2.83%	\$764	\$2,678	2.39%	\$308	\$2,262	65%
2024	8.27%	\$3,423	0.543%	\$209	2.83%	\$757	\$2,778	2.39%	\$349	\$2,346	65%
2025	8.27%	\$3,550	0.543%	\$217	2.83%	\$748	\$2,881	2.39%	\$394	\$2,433	66%
2026	8.27%	\$3,682	0.543%	\$225	2.83%	\$737	\$2,989	2.39%	\$441	\$2,524	66%
2027	8.27%	\$3,820	0.543%	\$233	2.83%	\$723	\$3,100	2.39%	\$493	\$2,618	66%
2028	8.27%	\$3,962	0.543%	\$242	2.83%	\$705	\$3,215	2.39%	\$549	\$2,715	67%
2029	8.27%	\$4,109	0.543%	\$251	2.83%	\$684	\$3,335	2.39%	\$610	\$2,817	67%
2030	8.27%	\$4,262	0.543%	\$260	2.83%	\$658	\$3,459	2.39%	\$676	\$2,921	67%
2031	8.27%	\$4,421	0.543%	\$270	2.83%	\$628	\$3,588	2.39%	\$747	\$3,030	68%
2032	8.27%	\$4,585	0.543%	\$280	2.83%	\$595	\$3,721	2.39%	\$822	\$3,143	68%
2033	8.27%	\$4,756	0.543%	\$290	2.83%	\$559	\$3,860	2.39%	\$902	\$3,260	69%
2034	8.27%	\$4,933	0.543%	\$301	2.83%	\$521	\$4,004	2.39%	\$985	\$3,381	69%
2035	8.27%	\$5,117	0.543%	\$312	2.83%	\$481	\$4,153	2.39%	\$1,072	\$3,507	70%
2036	8.27%	\$5,307	0.543%	\$324	2.83%	\$439	\$4,307	2.39%	\$1,162	\$3,638	70%
2037	8.27%	\$5,505	0.543%	\$336	2.83%	\$396	\$4,468	2.39%	\$1,256	\$3,773	70%
2038	8.27%	\$5,710	0.543%	\$348	2.83%	\$352	\$4,634	2.39%	\$1,352	\$3,914	71%
2039	8.27%	\$5,923	0.543%	\$361	2.83%	\$309	\$4,807	2.39%	\$1,451	\$4,060	71%
2040	8.27%	\$6,144	0.543%	\$375	2.83%	\$266	\$4,986	2.39%	\$1,550	\$4,211	72%
2041	8.27%	\$6,373	0.543%	\$389	2.83%	\$225	\$5,172	2.39%	\$1,652	\$4,368	73%
2042	8.27%	\$6,611	0.543%	\$403	2.83%	\$185	\$5,365	2.39%	\$1,753	\$4,531	73%
2063	8.27%	\$14,313	0.543%	\$873	2.83%	\$0	\$11,616	2.39%	\$4,135	\$9,810	100%
Totals:		\$326,666		\$20,370		\$16,832			\$80,803		

2% at 60: 2.83%





California State Teachers' Retirement System 100 Waterfront Place West Sacramento, CA 95605

916-414-2200

03/2014