

STATE OF CALIFORNIA

Agent Multiple-Employer Defined Benefit Pension Plans

Schedule of Pensionable Compensation and Schedule of Pension Amounts

For the Fiscal Year Ended
June 30, 2017



*Prepared by
The Office of the State Controller*

BETTY T. YEE

California State Controller

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Introductory Section

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BETTY T. YEE
California State Controller

September 5, 2018

To State Entities and their External Auditors:

I am pleased to submit the Report on the *Schedule of Pensionable Compensation by Plan and the Schedule of Pension Amounts by Plan* (schedules) for the following agent multiple-employer plans of the State of California: State Miscellaneous, State Industrial, State Safety, State Peace Officers and Firefighters, and California Highway Patrol, for the fiscal year ended June 30, 2017. This report provides certain state entities and their external auditors with supporting information related to Governmental Accounting Standards Board Statement No. 68 (GASB No. 68), *Accounting and Financial Reporting for Pensions*.

The State Controller's Office is responsible for the preparation and fair presentation of the schedules in accordance with accounting principles generally accepted in the United States of America. The report provides users with reasonable assurance that the pension information presented in the schedules is fairly stated in accordance with GASB No. 68.

The information contained in this report is solely for the use of certain state entities and their external auditors and is not intended to be, and should not be, used by anyone other than those specified parties. However, under the Brown Act, the report is a matter of public record.

Sincerely,

Original signed by

BETTY T. YEE

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Independent Auditor's Opinion

Independent Auditor's Report

THE LEGISLATURE OF THE STATE OF CALIFORNIA
AND THE CALIFORNIA STATE CONTROLLER'S OFFICE

We have audited the accompanying Schedule of Pensionable Compensation by Plan for the State Miscellaneous, State Industrial, State Safety, State Peace Officers and Firefighters, and California Highway Patrol plans (the plans) of the State of California, for the year ended June 30, 2017, and the related notes. We have also audited the net pension liability, deferred outflows of resources, deferred inflows of resources, and total pension expense included in the accompanying Schedule of Pension Amounts by Plan as of and for the year ended June 30, 2017, and the related notes.

Management's Responsibility for the Schedules

Management is responsible for the preparation and fair presentation of these schedules in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of the schedules that are free from material misstatement, whether due to fraud or error.

Auditor's Responsibility

Our responsibility is to express opinions on the schedules based on our audit. We conducted our audit in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the schedules are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the schedules. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the schedules, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the schedules in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the schedules.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinions.

Opinions

In our opinion, the schedules referred to above present fairly, in all material respects, the pensionable compensation, net pension liability, deferred outflows of resources, deferred inflows of resources, and total pension expense for the plans as of and for the year ended June 30, 2017, in accordance with accounting principles generally accepted in the United States of America.

Other Matter

We have audited, in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States of America, the financial statements of the State of California as of and for the year ended June 30, 2017, and our report thereon, dated March 21, 2018, expressed an unmodified opinion on those financial statements.

Restriction on Use

Our report is intended solely for the information and use of the California State Controller's Office, the California Public Employees' Retirement System, the plans' employers and their auditors and is not intended to be and should not be used by anyone other than these specified parties.

Other Reporting Required by Government Auditing Standards

In accordance with *Government Auditing Standards*, we have also issued our report dated March 21, 2018 on our consideration of the State's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements and other matters for the fiscal year ended June 30, 2017. The purpose of that report is to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the State's internal control over financial reporting and compliance.

CALIFORNIA STATE AUDITOR



MICHAEL S. TILDEN, CPA
Deputy State Auditor

Sacramento, California

September 5, 2018

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Schedules by Plan

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Schedule of Pensionable Compensation by Plan

For the Year Ended June 30, 2017

(amounts in thousands)

Plans	Pensionable Compensation
State Miscellaneous (Tiers 1 & 2)	\$ 11,591,576
State Industrial	\$ 643,295
State Safety	\$ 2,167,429
State Peace Officers and Firefighters	\$ 3,416,627
California Highway Patrol	\$ 851,427

Schedule of Pension Amounts by Plan

As of and For the Year Ended June 30, 2017

(amounts in thousands)

	Plans	
	State Miscellaneous	State Industrial
Net Pension Liability, as of June 30, 2016	\$ 33,113,838	\$ 915,862
Net Pension Liability, as of June 30, 2017	36,535,522	1,102,674
Increase (decrease) in the Net Pension Liability	\$ 3,421,684	\$ 186,812
Deferred Outflows of Resources: ^{1,2}		
Differences between expected and actual experience ³	\$ 160,070	\$ 21,546
Changes in assumptions ³	4,250,671	175,321
Net differences between projected and actual earnings on pension plan investments ⁴	1,036,369	43,892
Total Deferred Outflows of Resources	\$ 5,447,110	\$ 240,759
Deferred Inflows of Resources: ²		
Differences between expected and actual experience ³	\$ 340,972	\$ —
Changes in assumptions ³	—	—
Net differences between projected and actual earnings on pension plan investments ⁴	—	—
Total Deferred Inflows of Resources	\$ 340,972	\$ —
Total Pension Expense	\$ 5,330,441	\$ 245,563

¹ This schedule does not include deferred outflows of resources for employer contributions made subsequent to the measurement date.

² This schedule does not include deferred outflows and inflows of resources for changes in the employers' proportionate share based on pensionable compensation.

³ Deferred outflows and inflows of resources related to differences between expected and actual experience and changes in assumptions are amortized over closed periods equal to the average expected remaining service lives of all plan members which are, 4.0 years for the State Miscellaneous, 3.5 years for State Industrial, 4.3 years for State Safety, 5.2 years for State Peace Officers and Firefighters, and 5.1 years for California Highway Patrol plans.

⁴ Deferred outflows and inflows of resources related to differences between projected and actual earnings on pension plan investments are netted and amortized over a closed 5-year period.

State Safety	State Peace Officers and Firefighters	California Highway Patrol
\$ 2,723,084	\$ 13,686,299	\$ 4,520,074
3,032,174	15,264,018	4,897,661
\$ 309,090	\$ 1,577,719	\$ 377,587
\$ —	\$ 130,077	\$ 111,809
516,629	2,107,068	580,409
125,983	407,177	101,819
\$ 642,612	\$ 2,644,322	\$ 794,037
\$ 86,859	\$ 231,426	\$ 127,335
—	—	—
—	—	—
\$ 86,859	\$ 231,426	\$ 127,335
\$ 643,065	\$ 2,248,136	\$ 657,515

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Notes to the Schedules

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Notes to the Schedules

NOTE 1: SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

The Schedule of Pensionable Compensation by Plan and the Schedule of Pension Amounts by Plan (Schedules) present selected information for the agent multiple-employer defined benefit pension plans of the State of California which are comprised of State Miscellaneous Plan, State Industrial Plan, State Safety Plan, State Peace Officers and Firefighters Plan, and the California Highway Patrol Plan (Plans). The Schedules are prepared using the accrual basis of accounting in accordance with accounting principles generally accepted in the United States of America. Such preparation requires the California State Controller's Office to make a number of estimates and assumptions related to the reported amounts and disclosures. Due to the inherent nature of these estimates, actual results could differ.

The Schedule of Pension Amounts by Plan does not include the following entity-specific pension amounts that may need to be recognized in accordance with Governmental Accounting Standards Board (GASB) Statement No. 68: (a) deferred outflows of resources for employer contributions made subsequent to the measurement date, and (b) deferred outflows and inflows of resources for changes in the employers' proportionate share based on pensionable compensation.

NOTE 2: PENSIONABLE COMPENSATION

The Schedule of Pensionable Compensation by Plan is prepared to provide state entities with the total pensionable compensation amounts. These amounts are used to calculate each state entity's proportionate share of pension amounts. The Schedule of Pensionable Compensation by Plan and the Schedule of Pension Amounts by Plan have the same measurement period of July 1, 2016, through June 30, 2017.

NOTE 3: NET PENSION LIABILITY

The following table shows the components of the net pension liability for the Plans as of June 30, 2017 (amounts in thousands):

Net Pension Liability Components	State Miscellaneous	State Industrial	State Safety	State Peace Officers and Firefighters	California Highway Patrol
Total Pension Liability.....	\$ 108,789,914	\$ 4,320,375	\$ 12,378,808	\$ 44,752,006	\$ 12,331,080
Less: Fiduciary Net Position.....	(72,254,392)	(3,217,701)	(9,346,634)	(29,487,988)	(7,433,419)
Net Pension Liability.....	\$ 36,535,522	\$ 1,102,674	\$ 3,032,174	\$ 15,264,018	\$ 4,897,661

Detailed information about each plan's fiduciary net position is available in the separately issued California Public Employees' Retirement System (CalPERS) reports at www.CalPERS.ca.gov.

NOTE 4: ACTUARIAL METHODS AND ASSUMPTIONS

For the measurement period ended June 30, 2017 (measurement date), the total pension liability was determined by rolling forward the June 30, 2016 total pension liability. The June 30, 2016 and June 30, 2017 total pension liabilities for the Plans were based on the following actuarial methods and assumptions:

Valuation Date:	June 30, 2016
Actuarial Cost Method:	Entry Age Normal in accordance with the requirements of GASB Statement No. 68
Actuarial Assumptions	
Discount Rate:	7.15%
Inflation:	2.75%
Salary Increases:	Varies by Entry Age and Service
Investment Rate of Return:	7.15% Net of Pension Plan Investment Expenses, but without reduction for Administrative Expenses, includes Inflation
Mortality Rate Table:	Derived using CalPERS' Membership Data for all Funds
Post Retirement Benefit Increase:	Contract COLA up to 2.75% until Purchasing Power Protection Allowance floor on purchasing power applies, 2.75% thereafter

The mortality table used was developed based on CalPERS' specific data. The table includes 20 years of mortality improvements using Society of Actuaries Scale BB. For more details on this table, please refer to the 2014 CalPERS Experience Study and Review of Actuarial Assumptions report (Experience Study).

All other actuarial assumptions used in the June 30, 2016 valuation were based on the results of an actuarial experience study for the period from 1997 to 2011, including updates to salary increase, mortality, and retirement rates. The Experience Study report is available at www.CalPERS.ca.gov.

NOTE 5: DISCOUNT RATE

The discount rate used to measure the total pension liability was 7.15%. To determine whether the municipal bond rate should be used in the calculation of a discount rate for each plan, CalPERS stress-tested plans that would most likely result in a discount rate that would differ from the actuarially assumed discount rate. Based on the plans tested, none of the plan assets were exhausted. Therefore, the current 7.15% discount rate is appropriate and the use of the municipal bond rate calculation is not necessary. The long-term expected discount rate of 7.15% is applied to all plans in the Public Employees' Retirement Fund (PERF). The cash flows used in the testing were developed assuming that both members and employers will make their required contributions on time and as scheduled in all future years. The stress test results are presented in the GASB Crossover Testing Report, which may be obtained from the CalPERS' website.

The long-term expected rate of return on pension plan investments was determined using a building-block method in which expected future real rates of return (expected returns, net of pension plan investment expense and inflation) are developed for each major asset class.

In determining the long-term expected rate of return, CalPERS took into account both short-term and long-term market return expectations as well as the expected PERF cash flows. Taking into account historical returns of all the PERF's asset classes (which includes the agent plan and two cost-sharing plans or PERF A, B, and C funds), expected compound (geometric) returns were calculated over the short-term (first

10 years) and the long-term (11- 60 years) using a building-block approach. Using the expected nominal returns for both short-term and long-term, the present value of benefits was calculated for each PERF fund. The expected rate of return was set by calculating the single equivalent expected return that arrived at the same present value of benefits for cash flows as the one calculated using both short-term and long-term returns. The expected rate of return was then set equal to the single equivalent rate calculated above and rounded down to the nearest one quarter of one percent.

The following table reflects long-term expected real rate of return by asset class. The rate of return was calculated using the capital market assumptions applied to determine the discount rate and asset allocation used to measure the total pension liability.

Asset Class	Policy Target Allocation	Real Return Years 1-10	Real Return Years 11-60
Global Equity	47.0 %	4.90 %	5.38 %
Global Fixed Income	19.0	0.80	2.27
Inflation Sensitive	6.0	0.60	1.39
Private Equity	12.0	6.60	6.63
Real Estate	11.0	2.80	5.21
Infrastructure and Forestland	3.0	3.90	5.36
Liquidity	2.0	(0.40)	(0.90)

The Real Return Years 1-10 used an expected inflation rate of 2.50% for this period. The Real Return Years 11- 60 used an expected inflation rate of 3.00% for this period.

In the fiscal year 2016-17, the discount rate used in the actuarial assumptions was lowered from 7.65% to 7.15% (gross of 0.15% administrative expenses).

NOTE 6: PENSION EXPENSE, DEFERRED OUTFLOWS OF RESOURCES, AND DEFERRED INFLOWS OF RESOURCES RELATED TO PENSIONS

The table below presents deferred outflows and inflows of resources as of June 30, 2017. Deferred outflows and inflows of resources are recognized for the difference between expected and actual experience. Deferred outflows of resources are recognized for the change in assumptions. Deferred outflows of resources due to employer contributions made subsequent to the measurement date are not presented in the table below. Net deferred outflows of resources are recognized for the aggregate difference (positive and negative) between projected and actual earnings on pension plan investments arising in different measurement periods. Deferred outflows and inflows of resources for changes in the employers' proportionate share of pensionable compensation are not presented in the table below (amounts in thousands):

Description	State Miscellaneous	State Industrial	State Safety	State Peace Officers and Firefighters	California Highway Patrol
Deferred Outflows of Resources	\$ 5,447,110	\$ 240,759	\$ 642,612	\$ 2,644,322	\$ 794,037
Deferred Inflows of Resources	\$ 340,972	\$ —	\$ 86,859	\$ 231,426	\$ 127,335

Amounts reported as deferred outflows and deferred inflows of resources related to pensions will be recognized in pension expense as either a debit or a (credit) in the future as follows (amounts in thousands):

Measurement Periods	State Miscellaneous	State Industrial	State Safety	State Peace Officers and Firefighters	California Highway Patrol
Year Ended June 30,					
2018	\$ 1,435,257	\$ 82,053	\$ 134,389	\$ 507,779	\$ 148,030
2019	2,450,623	125,776	266,338	957,185	261,989
2020	1,748,517	56,078	181,654	622,854	181,791
2021	(528,259)	(23,148)	(26,628)	235,762	63,841
2022	—	—	—	89,316	11,051
Thereafter	—	—	—	—	—
Total	\$ 5,106,138	\$ 240,759	\$ 555,753	\$ 2,412,896	\$ 666,702

For the fiscal year ended June 30, 2017, the amounts recognized as components of pension expense for each of the Plans were as follows (amounts in thousands):

Description	State Miscellaneous	State Industrial	State Safety	State Peace Officers and Firefighters	California Highway Patrol
Service Cost	\$ 1,927,531	\$ 124,792	\$ 497,129	\$ 980,897	\$ 237,064
Interest on the Total Pension Liability	7,381,049	290,058	827,412	3,018,185	833,062
Changes of Benefit Terms	—	—	—	—	—
Recognized Differences between Expected and Actual Experience	55,750	16,084	(27,021)	4,995	6,642
Recognized Changes of Assumptions	1,416,890	70,129	156,554	501,683	141,563
Employee Contributions	(843,772)	(54,114)	(231,364)	(399,945)	(91,116)
Net Plan to Plan Resource Movement	2,737	141	(295)	(1,628)	(1,050)
Projected Earnings on Pension Plan Investments	(4,688,565)	(206,410)	(596,470)	(1,896,547)	(478,398)
Recognized Differences between Projected and Actual Earnings on Plan Investments	(19,598)	601	4,856	1,102	(175)
Administrative Expense	98,419	4,282	12,264	39,394	9,923
Other Miscellaneous Income	—	—	—	—	—
Total Pension Expense/(Income)	\$ 5,330,441	\$ 245,563	\$ 643,065	\$ 2,248,136	\$ 657,515

NOTE 7: SENSITIVITY OF THE NET PENSION LIABILITY TO CHANGES IN THE DISCOUNT RATE

The following table presents the net pension liability of the Plans as of the measurement date, calculated using the discount rate of 7.15%, as well as what the net pension liability would be if it were calculated using a discount rate that is 1 percentage-point lower (6.15%) or 1 percentage-point higher (8.15%) than the current rate (amounts in thousands):

Net Pension Liability/(Asset)	Current Rate -1%	Current Rate (7.15%)	Current Rate +1%
State Miscellaneous	\$ 49,984,377	\$ 36,535,522	\$ 25,280,052
State Industrial	\$ 1,705,459	\$ 1,102,674	\$ 606,342
State Safety	\$ 4,695,113	\$ 3,032,174	\$ 1,658,075
State Peace Officers and Firefighters	\$ 21,640,760	\$ 15,264,018	\$ 10,049,129
California Highway Patrol	\$ 6,658,065	\$ 4,897,661	\$ 3,459,598



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