



Santa Barbara County Employees' Retirement System

Actuarial Valuation Report as of June 30, 2018 - Addendum

Produced by Cheiron

December 2018

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**SANTA BARBARA COUNTY EMPLOYEES' RETIREMENT SYSTEM
ACTUARIAL VALUATION REPORT AS OF JUNE 30, 2018 - ADDENDUM**

SECTION I -- REVISED TABLE IV-1

Table IV-1 Development of the Net Employer Contribution Rate as of June 30, 2018 for FYE 2020					
	June 30, 2018			June 30, 2017	
	General	Safety	APCD	COMPOSITE	COMPOSITE
1. Total Normal Cost Rate	19.08%	31.81%	20.19%	22.55%	22.82%
2. Member Contribution Rate	<u>5.64%</u>	<u>7.92%</u>	<u>7.06%</u>	6.27%	6.09%
3. Employer Normal Cost Rate (1-2)	13.44%	23.89%	13.13%	16.28%	16.73%
4. UAL Amortization	<u>20.71%</u>	<u>31.46%</u>	<u>35.50%</u>	23.74%	22.41%
5. Employer Contribution Rate (3+4)	34.15%	55.35%	48.63%	40.02%	39.14%
6. Estimated Impact of Employee Cost-Sharing	<u>-1.21%</u>	<u>-2.47%</u>	<u>0.00%</u>	-1.55%	-0.77%
7. Net Employer Contribution Rate (5+6)	32.94%	52.88%	48.63%	38.47%	38.37%
Projected Payroll for FYE 2019	\$ 254,519,846	\$ 95,795,910	\$ 2,700,305	\$ 353,016,061	\$ 351,828,507

Beginning with the June 30, 2013 valuation, the Member and Employer Contribution Rates have been explicitly loaded to account for anticipated administrative expenses. The load is 3.4% for the June 30, 2018 actuarial valuation, and has been applied to both the Employee and Employer Rates.

**SANTA BARBARA COUNTY EMPLOYEES' RETIREMENT SYSTEM
ACTUARIAL VALUATION REPORT AS OF JUNE 30, 2018 - ADDENDUM**

SECTION II – EMPLOYER CONTRIBUTION RATES WITH COST-SHARING

General Employer Contribution Rates after Member Cost-Sharing				
Union of American Physicians & Dentists (10,11)				
	5A	5B	5C	Plan 7
June 30, 2017 Contribution Rate for FYE 2019	34.30%	34.79%	36.06%	34.64%
Adjusted Member Cost-Sharing Contributions	<u>-0.74%</u>	<u>-0.74%</u>	<u>-0.74%</u>	<u>-0.74%</u>
Net Employer Rate Effective September 10, 2018	33.56%	34.05%	35.32%	33.90%
June 30, 2017 Contribution Rate for FYE 2019	34.30%	34.79%	36.06%	34.64%
Adjusted Member Cost-Sharing Contributions	<u>-1.49%</u>	<u>-1.49%</u>	<u>-1.49%</u>	<u>-1.49%</u>
Net Employer Rate Effective November 19, 2018	32.81%	33.30%	34.57%	33.15%
June 30, 2018 Contribution Rate for FYE 2020	35.41%	35.56%	37.15%	36.02%
Adjusted Member Cost-Sharing Contributions	<u>-1.98%</u>	<u>-1.98%</u>	<u>-1.98%</u>	<u>-1.98%</u>
Net Employer Rate Effective November 18, 2019	33.43%	33.58%	35.17%	34.04%

General Employer Contribution Rates after Member Cost-Sharing				
SEIU Local 620 (23,24,25,26,27) and Local 721 (21,22)				
Deputy Public Defenders (20) and Deputy Sheriffs' Association (Non-Safety 14,15)				
Engineers & Technicians (28,29) and Confidential (32)				
	5A	5B	5C	Plan 7
June 30, 2017 Contribution Rate for FYE 2019	34.30%	34.79%	36.06%	34.64%
Adjusted Member Cost-Sharing Contributions	<u>-1.49%</u>	<u>-1.49%</u>	<u>-1.49%</u>	<u>-1.49%</u>
Net Employer Rate Effective September 10, 2018	32.81%	33.30%	34.57%	33.15%
June 30, 2018 Contribution Rate for FYE 2020	35.41%	35.56%	37.15%	36.02%
Adjusted Member Cost-Sharing Contributions	<u>-1.99%</u>	<u>-1.99%</u>	<u>-1.99%</u>	<u>-1.99%</u>
Net Employer Rate Effective July 1, 2019	33.42%	33.57%	35.16%	34.03%

**SANTA BARBARA COUNTY EMPLOYEES' RETIREMENT SYSTEM
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SECTION II – EMPLOYER CONTRIBUTION RATES WITH COST-SHARING

General Employer Contribution Rates after Member Cost-Sharing				
Deputy District Attorneys (17)				
	5A	5B	5C	Plan 7
June 30, 2017 Contribution Rate for FYE 2019	34.30%	34.79%	36.06%	34.64%
Adjusted Member Cost-Sharing Contributions	<u>-1.49%</u>	<u>-1.49%</u>	<u>-1.49%</u>	<u>-1.49%</u>
Net Employer Rate Effective October 8, 2018	32.81%	33.30%	34.57%	33.15%
June 30, 2018 Contribution Rate for FYE 2020	35.41%	35.56%	37.15%	36.02%
Adjusted Member Cost-Sharing Contributions	<u>-1.49%</u>	<u>-1.49%</u>	<u>-1.49%</u>	<u>-1.49%</u>
Net Employer Rate Effective July 1, 2019	33.92%	34.07%	35.66%	34.53%

General Employer Contribution Rates after Member Cost-Sharing				
Unrepresented Managers (including CEO) (35, 40, 41, 42, 43)				
	5A	5B	5C	Plan 7
June 30, 2017 Contribution Rate for FYE 2019	34.30%	34.79%	36.06%	34.64%
Adjusted Member Cost-Sharing Contributions	<u>-0.82%</u>	<u>-0.82%</u>	<u>-0.82%</u>	<u>-0.82%</u>
Net Employer Rate Effective Septebmer 10, 2018	33.48%	33.97%	35.24%	33.82%
June 30, 2018 Contribution Rate for FYE 2020	35.41%	35.56%	37.15%	36.02%
Adjusted Member Cost-Sharing Contributions	<u>-1.65%</u>	<u>-1.65%</u>	<u>-1.65%</u>	<u>-1.65%</u>
Net Employer Rate Effective July 1, 2019	33.76%	33.91%	35.50%	34.37%

**SANTA BARBARA COUNTY EMPLOYEES' RETIREMENT SYSTEM
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SECTION II – EMPLOYER CONTRIBUTION RATES WITH COST-SHARING

General Employer Contribution Rates after Member Cost-Sharing Civil Attorneys Association (30) and Unrepresented Confidential Attorneys (36)				
	5A	5B	5C	Plan 7
June 30, 2017 Contribution Rate for FYE 2019	34.30%	34.79%	36.06%	34.64%
Adjusted Member Cost-Sharing Contributions	<u>-1.48%</u>	<u>-1.48%</u>	<u>-1.48%</u>	<u>-1.48%</u>
Net Employer Rate Effective October 8, 2018	32.82%	33.31%	34.58%	33.16%
June 30, 2018 Contribution Rate for FYE 2020	35.41%	35.56%	37.15%	36.02%
Adjusted Member Cost-Sharing Contributions	<u>-1.48%</u>	<u>-1.48%</u>	<u>-1.48%</u>	<u>-1.48%</u>
Net Employer Rate Effective July 1, 2019	33.93%	34.08%	35.67%	34.54%

**SANTA BARBARA COUNTY EMPLOYEES' RETIREMENT SYSTEM
ACTUARIAL VALUATION REPORT AS OF JUNE 30, 2018 - ADDENDUM**

SECTION II – EMPLOYER CONTRIBUTION RATES WITH COST-SHARING

Safety Employer Contribution Rates after Member Cost-Sharing					
Fire Fighters Local 2046 (12,13) and Deputy Sheriffs' Association (14,15), Probation Peace Officers (18,19)					
	4A	4B	4C	6A	6B
June 30, 2017 Contribution Rate for FYE 2019	54.95%	54.04%	53.68%	62.69%	61.87%
Adjusted Member Cost-Sharing Contributions	<u>-1.99%</u>	<u>-1.99%</u>	<u>-1.99%</u>	<u>-1.99%</u>	<u>-1.99%</u>
Net Employer Rate Effective September 10, 2018	52.96%	52.05%	51.69%	60.70%	59.88%
June 30, 2018 Contribution Rate for FYE 2020	56.09%	55.01%	55.22%	64.50%	63.98%
Adjusted Member Cost-Sharing Contributions	<u>-3.98%</u>	<u>-3.98%</u>	<u>-3.98%</u>	<u>-3.98%</u>	<u>-3.98%</u>
Net Employer Rate Effective July 1, 2019	52.11%	51.03%	51.24%	60.52%	60.00%

Safety Employer Contribution Rates after Member Cost-Sharing					
Sheriff Managers Association (44)					
	4A	4B	4C	6A	6B
June 30, 2017 Contribution Rate for FYE 2019	54.95%	54.04%	53.68%	62.69%	61.87%
Adjusted Member Cost-Sharing Contributions	<u>-1.99%</u>	<u>-1.99%</u>	<u>-1.99%</u>	<u>-1.99%</u>	<u>-1.99%</u>
Net Employer Rate Effective November 5, 2018	52.96%	52.05%	51.69%	60.70%	59.88%
June 30, 2018 Contribution Rate for FYE 2020	56.09%	55.01%	55.22%	64.50%	63.98%
Adjusted Member Cost-Sharing Contributions	<u>-3.98%</u>	<u>-3.98%</u>	<u>-3.98%</u>	<u>-3.98%</u>	<u>-3.98%</u>
Net Employer Rate Effective July 1, 2019	52.11%	51.03%	51.24%	60.52%	60.00%

**SANTA BARBARA COUNTY EMPLOYEES' RETIREMENT SYSTEM
ACTUARIAL VALUATION REPORT AS OF JUNE 30, 2018 - ADDENDUM**

SECTION II – EMPLOYER CONTRIBUTION RATES WITH COST-SHARING

Safety Employer Contribution Rates after Member Cost-Sharing					
Unrepresented Safety Managers (35,40,41,42,43)					
	4A	4B	4C	6A	6B
June 30, 2017 Contribution Rate for FYE 2019	54.95%	54.04%	53.68%	62.69%	61.87%
Adjusted Member Cost-Sharing Contributions	<u>-0.83%</u>	<u>-0.83%</u>	<u>-0.83%</u>	<u>-0.83%</u>	<u>-0.83%</u>
Net Employer Rate Effective September 10, 2018	54.12%	53.21%	52.85%	61.86%	61.04%
June 30, 2018 Contribution Rate for FYE 2020	56.09%	55.01%	55.22%	64.50%	63.98%
Adjusted Member Cost-Sharing Contributions	<u>-0.83%</u>	<u>-0.83%</u>	<u>-0.83%</u>	<u>-0.83%</u>	<u>-0.83%</u>
Net Employer Rate Effective July 1, 2019	55.26%	54.18%	54.39%	63.67%	63.15%

**SANTA BARBARA COUNTY EMPLOYEES' RETIREMENT SYSTEM
ACTUARIAL VALUATION REPORT AS OF JUNE 30, 2018 - ADDENDUM**

SECTION III – EMPLOYEE CONTRIBUTION RATES WITH COST-SHARING

**SEIU Local 620 (23,24,25,26,27) and Local 721 (21,22), Deputy Sheriffs' Association - Non-Safety (14,15),
Deputy Public Defenders (20), Engineers & Technicians (28,29) and Confidential (32)
Effective September 10, 2018**

Entry Age	Plan 5A			Plan 5B			Plan 5C			Plan 7		
	Basic	Cost-Sharing	Total	Basic	Cost-Sharing	Total	Basic	Cost-Sharing	Total	Basic	Cost-Sharing	Total
16	2.93%	1.50%	4.43%	5.86%	1.50%	7.36%	2.84%	1.50%	4.34%	2.36%	1.50%	3.86%
17	2.93%	1.50%	4.43%	5.86%	1.50%	7.36%	2.84%	1.50%	4.34%	2.36%	1.50%	3.86%
18	2.93%	1.50%	4.43%	5.86%	1.50%	7.36%	2.84%	1.50%	4.34%	2.36%	1.50%	3.86%
19	2.93%	1.50%	4.43%	5.86%	1.50%	7.36%	2.84%	1.50%	4.34%	2.36%	1.50%	3.86%
20	2.93%	1.50%	4.43%	5.86%	1.50%	7.36%	2.84%	1.50%	4.34%	2.36%	1.50%	3.86%
21	2.99%	1.50%	4.49%	5.99%	1.50%	7.49%	2.90%	1.50%	4.40%	2.42%	1.50%	3.92%
22	3.06%	1.50%	4.56%	6.12%	1.50%	7.62%	2.97%	1.50%	4.47%	2.47%	1.50%	3.97%
23	3.13%	1.50%	4.63%	6.26%	1.50%	7.76%	3.03%	1.50%	4.53%	2.53%	1.50%	4.03%
24	3.20%	1.50%	4.70%	6.40%	1.50%	7.90%	3.10%	1.50%	4.60%	2.58%	1.50%	4.08%
25	3.27%	1.50%	4.77%	6.55%	1.50%	8.05%	3.17%	1.50%	4.67%	2.64%	1.50%	4.14%
26	3.35%	1.50%	4.85%	6.69%	1.50%	8.19%	3.24%	1.50%	4.74%	2.70%	1.50%	4.20%
27	3.42%	1.50%	4.92%	6.84%	1.50%	8.34%	3.32%	1.50%	4.82%	2.76%	1.50%	4.26%
28	3.50%	1.50%	5.00%	7.00%	1.50%	8.50%	3.39%	1.50%	4.89%	2.82%	1.50%	4.32%
29	3.58%	1.50%	5.08%	7.15%	1.50%	8.65%	3.47%	1.50%	4.97%	2.89%	1.50%	4.39%
30	3.66%	1.50%	5.16%	7.31%	1.50%	8.81%	3.54%	1.50%	5.04%	2.95%	1.50%	4.45%
31	3.74%	1.50%	5.24%	7.48%	1.50%	8.98%	3.62%	1.50%	5.12%	3.02%	1.50%	4.52%
32	3.82%	1.50%	5.32%	7.64%	1.50%	9.14%	3.70%	1.50%	5.20%	3.08%	1.50%	4.58%
33	3.90%	1.50%	5.40%	7.81%	1.50%	9.31%	3.78%	1.50%	5.28%	3.15%	1.50%	4.65%
34	3.99%	1.50%	5.49%	7.98%	1.50%	9.48%	3.86%	1.50%	5.36%	3.22%	1.50%	4.72%
35	4.07%	1.50%	5.57%	8.15%	1.50%	9.65%	3.94%	1.50%	5.44%	3.28%	1.50%	4.78%
36	4.16%	1.50%	5.66%	8.32%	1.50%	9.82%	4.02%	1.50%	5.52%	3.35%	1.50%	4.85%
37	4.25%	1.50%	5.75%	8.49%	1.50%	9.99%	4.11%	1.50%	5.61%	3.42%	1.50%	4.92%
38	4.34%	1.50%	5.84%	8.67%	1.50%	10.17%	4.19%	1.50%	5.69%	3.49%	1.50%	4.99%
39	4.43%	1.50%	5.93%	8.85%	1.50%	10.35%	4.28%	1.50%	5.78%	3.57%	1.50%	5.07%
40	4.52%	1.50%	6.02%	9.03%	1.50%	10.53%	4.37%	1.50%	5.87%	3.64%	1.50%	5.14%
41	4.61%	1.50%	6.11%	9.22%	1.50%	10.72%	4.46%	1.50%	5.96%	3.71%	1.50%	5.21%
42	4.70%	1.50%	6.20%	9.41%	1.50%	10.91%	4.54%	1.50%	6.04%	3.79%	1.50%	5.29%
43	4.80%	1.50%	6.30%	9.60%	1.50%	11.10%	4.63%	1.50%	6.13%	3.86%	1.50%	5.36%
44	4.89%	1.50%	6.39%	9.79%	1.50%	11.29%	4.72%	1.50%	6.22%	3.94%	1.50%	5.44%
45	4.99%	1.50%	6.49%	9.98%	1.50%	11.48%	4.82%	1.50%	6.32%	4.01%	1.50%	5.51%
46	5.09%	1.50%	6.59%	10.18%	1.50%	11.68%	4.91%	1.50%	6.41%	4.09%	1.50%	5.59%
47	5.19%	1.50%	6.69%	10.37%	1.50%	11.87%	5.00%	1.50%	6.50%	4.17%	1.50%	5.67%
48	5.28%	1.50%	6.78%	10.57%	1.50%	12.07%	5.09%	1.50%	6.59%	4.24%	1.50%	5.74%
49	5.38%	1.50%	6.88%	10.77%	1.50%	12.27%	5.19%	1.50%	6.69%	4.32%	1.50%	5.82%
50	5.49%	1.50%	6.99%	10.98%	1.50%	12.48%	5.28%	1.50%	6.78%	4.40%	1.50%	5.90%
51	5.59%	1.50%	7.09%	11.19%	1.50%	12.69%	5.38%	1.50%	6.88%	4.48%	1.50%	5.98%
52	5.70%	1.50%	7.20%	11.40%	1.50%	12.90%	5.46%	1.50%	6.96%	4.55%	1.50%	6.05%
53	5.80%	1.50%	7.30%	11.60%	1.50%	13.10%	5.54%	1.50%	7.04%	4.62%	1.50%	6.12%
54	5.90%	1.50%	7.40%	11.79%	1.50%	13.29%	5.61%	1.50%	7.11%	4.67%	1.50%	6.17%
55	5.97%	1.50%	7.47%	11.95%	1.50%	13.45%	5.65%	1.50%	7.15%	4.71%	1.50%	6.21%
56	6.04%	1.50%	7.54%	12.07%	1.50%	13.57%	5.67%	1.50%	7.17%	4.73%	1.50%	6.23%
57	6.07%	1.50%	7.57%	12.14%	1.50%	13.64%	5.67%	1.50%	7.17%	4.73%	1.50%	6.23%
58	6.07%	1.50%	7.57%	12.15%	1.50%	13.65%	5.85%	1.50%	7.35%	4.88%	1.50%	6.38%
59	6.07%	1.50%	7.57%	12.15%	1.50%	13.65%	6.05%	1.50%	7.55%	5.04%	1.50%	6.54%
60	6.07%	1.50%	7.57%	12.15%	1.50%	13.65%	6.05%	1.50%	7.55%	5.04%	1.50%	6.54%

Members do not pay COLA contributions

Assumptions:

Interest: 7.00%
Salary: 2016 Valuation Scale (Service based, includes wage inflation at 3.00%)
Unisex Mortality: CalPERS Healthy Annuitant Mortality, projected to 2039 using MP-2016 (blended 35% Male / 65% Female)
Administrative expenses: Rates have been loaded by 3.4% to account for expected administrative expenses allocated to the members.



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SECTION III – EMPLOYEE CONTRIBUTION RATES WITH COST-SHARING

SEIU Local 620 (23,24,25,26,27) and Local 721 (21,22), Deputy Sheriffs' Association - Non-Safety (14,15), Deputy Public Defenders (20), Engineers & Technicians (28,29) and Confidential (32) Effective July 1, 2019												
Entry Age	Plan 5A			Plan 5B			Plan 5C			Plan 7		
	Basic	Cost-Sharing	Total	Basic	Cost-Sharing	Total	Basic	Cost-Sharing	Total	Basic	Cost-Sharing	Total
16	2.93%	2.00%	4.93%	5.86%	2.00%	7.86%	2.84%	2.00%	4.84%	2.36%	2.00%	4.36%
17	2.93%	2.00%	4.93%	5.86%	2.00%	7.86%	2.84%	2.00%	4.84%	2.36%	2.00%	4.36%
18	2.93%	2.00%	4.93%	5.86%	2.00%	7.86%	2.84%	2.00%	4.84%	2.36%	2.00%	4.36%
19	2.93%	2.00%	4.93%	5.86%	2.00%	7.86%	2.84%	2.00%	4.84%	2.36%	2.00%	4.36%
20	2.93%	2.00%	4.93%	5.86%	2.00%	7.86%	2.84%	2.00%	4.84%	2.36%	2.00%	4.36%
21	2.99%	2.00%	4.99%	5.99%	2.00%	7.99%	2.90%	2.00%	4.90%	2.42%	2.00%	4.42%
22	3.06%	2.00%	5.06%	6.12%	2.00%	8.12%	2.97%	2.00%	4.97%	2.47%	2.00%	4.47%
23	3.13%	2.00%	5.13%	6.26%	2.00%	8.26%	3.03%	2.00%	5.03%	2.53%	2.00%	4.53%
24	3.20%	2.00%	5.20%	6.40%	2.00%	8.40%	3.10%	2.00%	5.10%	2.58%	2.00%	4.58%
25	3.27%	2.00%	5.27%	6.55%	2.00%	8.55%	3.17%	2.00%	5.17%	2.64%	2.00%	4.64%
26	3.35%	2.00%	5.35%	6.69%	2.00%	8.69%	3.24%	2.00%	5.24%	2.70%	2.00%	4.70%
27	3.42%	2.00%	5.42%	6.84%	2.00%	8.84%	3.32%	2.00%	5.32%	2.76%	2.00%	4.76%
28	3.50%	2.00%	5.50%	7.00%	2.00%	9.00%	3.39%	2.00%	5.39%	2.82%	2.00%	4.82%
29	3.58%	2.00%	5.58%	7.15%	2.00%	9.15%	3.47%	2.00%	5.47%	2.89%	2.00%	4.89%
30	3.66%	2.00%	5.66%	7.31%	2.00%	9.31%	3.54%	2.00%	5.54%	2.95%	2.00%	4.95%
31	3.74%	2.00%	5.74%	7.48%	2.00%	9.48%	3.62%	2.00%	5.62%	3.02%	2.00%	5.02%
32	3.82%	2.00%	5.82%	7.64%	2.00%	9.64%	3.70%	2.00%	5.70%	3.08%	2.00%	5.08%
33	3.90%	2.00%	5.90%	7.81%	2.00%	9.81%	3.78%	2.00%	5.78%	3.15%	2.00%	5.15%
34	3.99%	2.00%	5.99%	7.98%	2.00%	9.98%	3.86%	2.00%	5.86%	3.22%	2.00%	5.22%
35	4.07%	2.00%	6.07%	8.15%	2.00%	10.15%	3.94%	2.00%	5.94%	3.28%	2.00%	5.28%
36	4.16%	2.00%	6.16%	8.32%	2.00%	10.32%	4.02%	2.00%	6.02%	3.35%	2.00%	5.35%
37	4.25%	2.00%	6.25%	8.49%	2.00%	10.49%	4.11%	2.00%	6.11%	3.42%	2.00%	5.42%
38	4.34%	2.00%	6.34%	8.67%	2.00%	10.67%	4.19%	2.00%	6.19%	3.49%	2.00%	5.49%
39	4.43%	2.00%	6.43%	8.85%	2.00%	10.85%	4.28%	2.00%	6.28%	3.57%	2.00%	5.57%
40	4.52%	2.00%	6.52%	9.03%	2.00%	11.03%	4.37%	2.00%	6.37%	3.64%	2.00%	5.64%
41	4.61%	2.00%	6.61%	9.22%	2.00%	11.22%	4.46%	2.00%	6.46%	3.71%	2.00%	5.71%
42	4.70%	2.00%	6.70%	9.41%	2.00%	11.41%	4.54%	2.00%	6.54%	3.79%	2.00%	5.79%
43	4.80%	2.00%	6.80%	9.60%	2.00%	11.60%	4.63%	2.00%	6.63%	3.86%	2.00%	5.86%
44	4.89%	2.00%	6.89%	9.79%	2.00%	11.79%	4.72%	2.00%	6.72%	3.94%	2.00%	5.94%
45	4.99%	2.00%	6.99%	9.98%	2.00%	11.98%	4.82%	2.00%	6.82%	4.01%	2.00%	6.01%
46	5.09%	2.00%	7.09%	10.18%	2.00%	12.18%	4.91%	2.00%	6.91%	4.09%	2.00%	6.09%
47	5.19%	2.00%	7.19%	10.37%	2.00%	12.37%	5.00%	2.00%	7.00%	4.17%	2.00%	6.17%
48	5.28%	2.00%	7.28%	10.57%	2.00%	12.57%	5.09%	2.00%	7.09%	4.24%	2.00%	6.24%
49	5.38%	2.00%	7.38%	10.77%	2.00%	12.77%	5.19%	2.00%	7.19%	4.32%	2.00%	6.32%
50	5.49%	2.00%	7.49%	10.98%	2.00%	12.98%	5.28%	2.00%	7.28%	4.40%	2.00%	6.40%
51	5.59%	2.00%	7.59%	11.19%	2.00%	13.19%	5.38%	2.00%	7.38%	4.48%	2.00%	6.48%
52	5.70%	2.00%	7.70%	11.40%	2.00%	13.40%	5.46%	2.00%	7.46%	4.55%	2.00%	6.55%
53	5.80%	2.00%	7.80%	11.60%	2.00%	13.60%	5.54%	2.00%	7.54%	4.62%	2.00%	6.62%
54	5.90%	2.00%	7.90%	11.79%	2.00%	13.79%	5.61%	2.00%	7.61%	4.67%	2.00%	6.67%
55	5.97%	2.00%	7.97%	11.95%	2.00%	13.95%	5.65%	2.00%	7.65%	4.71%	2.00%	6.71%
56	6.04%	2.00%	8.04%	12.07%	2.00%	14.07%	5.67%	2.00%	7.67%	4.73%	2.00%	6.73%
57	6.07%	2.00%	8.07%	12.14%	2.00%	14.14%	5.67%	2.00%	7.67%	4.73%	2.00%	6.73%
58	6.07%	2.00%	8.07%	12.15%	2.00%	14.15%	5.85%	2.00%	7.85%	4.88%	2.00%	6.88%
59	6.07%	2.00%	8.07%	12.15%	2.00%	14.15%	6.05%	2.00%	8.05%	5.04%	2.00%	7.04%
60	6.07%	2.00%	8.07%	12.15%	2.00%	14.15%	6.05%	2.00%	8.05%	5.04%	2.00%	7.04%

Members do not pay COLA contributions

Assumptions:
Interest: 7.00%
Salary: 2016 Valuation Scale (Service based, includes wage inflation at 3.00%)
Unisex Mortality: CalPERS Healthy Annuitant Mortality, projected to 2039 using MP-2016 (blended 35% Male / 65% Female)
Administrative expenses: Rates have been loaded by 3.4% to account for expected administrative expenses allocated to the members.



**SANTA BARBARA COUNTY EMPLOYEES' RETIREMENT SYSTEM
ACTUARIAL VALUATION REPORT AS OF JUNE 30, 2018 - ADDENDUM**

SECTION III – EMPLOYEE CONTRIBUTION RATES WITH COST-SHARING

Union of American Physicians & Dentists (10,11) Effective September 10, 2018												
Entry Age	Plan 5A			Plan 5B			Plan 5C			Plan 7		
	Basic	Cost-Sharing	Total	Basic	Cost-Sharing	Total	Basic	Cost-Sharing	Total	Basic	Cost-Sharing	Total
16	2.93%	0.75%	3.68%	5.86%	0.75%	6.61%	2.84%	0.75%	3.59%	2.36%	0.75%	3.11%
17	2.93%	0.75%	3.68%	5.86%	0.75%	6.61%	2.84%	0.75%	3.59%	2.36%	0.75%	3.11%
18	2.93%	0.75%	3.68%	5.86%	0.75%	6.61%	2.84%	0.75%	3.59%	2.36%	0.75%	3.11%
19	2.93%	0.75%	3.68%	5.86%	0.75%	6.61%	2.84%	0.75%	3.59%	2.36%	0.75%	3.11%
20	2.93%	0.75%	3.68%	5.86%	0.75%	6.61%	2.84%	0.75%	3.59%	2.36%	0.75%	3.11%
21	2.99%	0.75%	3.74%	5.99%	0.75%	6.74%	2.90%	0.75%	3.65%	2.42%	0.75%	3.17%
22	3.06%	0.75%	3.81%	6.12%	0.75%	6.87%	2.97%	0.75%	3.72%	2.47%	0.75%	3.22%
23	3.13%	0.75%	3.88%	6.26%	0.75%	7.01%	3.03%	0.75%	3.78%	2.53%	0.75%	3.28%
24	3.20%	0.75%	3.95%	6.40%	0.75%	7.15%	3.10%	0.75%	3.85%	2.58%	0.75%	3.33%
25	3.27%	0.75%	4.02%	6.55%	0.75%	7.30%	3.17%	0.75%	3.92%	2.64%	0.75%	3.39%
26	3.35%	0.75%	4.10%	6.69%	0.75%	7.44%	3.24%	0.75%	3.99%	2.70%	0.75%	3.45%
27	3.42%	0.75%	4.17%	6.84%	0.75%	7.59%	3.32%	0.75%	4.07%	2.76%	0.75%	3.51%
28	3.50%	0.75%	4.25%	7.00%	0.75%	7.75%	3.39%	0.75%	4.14%	2.82%	0.75%	3.57%
29	3.58%	0.75%	4.33%	7.15%	0.75%	7.90%	3.47%	0.75%	4.22%	2.89%	0.75%	3.64%
30	3.66%	0.75%	4.41%	7.31%	0.75%	8.06%	3.54%	0.75%	4.29%	2.95%	0.75%	3.70%
31	3.74%	0.75%	4.49%	7.48%	0.75%	8.23%	3.62%	0.75%	4.37%	3.02%	0.75%	3.77%
32	3.82%	0.75%	4.57%	7.64%	0.75%	8.39%	3.70%	0.75%	4.45%	3.08%	0.75%	3.83%
33	3.90%	0.75%	4.65%	7.81%	0.75%	8.56%	3.78%	0.75%	4.53%	3.15%	0.75%	3.90%
34	3.99%	0.75%	4.74%	7.98%	0.75%	8.73%	3.86%	0.75%	4.61%	3.22%	0.75%	3.97%
35	4.07%	0.75%	4.82%	8.15%	0.75%	8.90%	3.94%	0.75%	4.69%	3.28%	0.75%	4.03%
36	4.16%	0.75%	4.91%	8.32%	0.75%	9.07%	4.02%	0.75%	4.77%	3.35%	0.75%	4.10%
37	4.25%	0.75%	5.00%	8.49%	0.75%	9.24%	4.11%	0.75%	4.86%	3.42%	0.75%	4.17%
38	4.34%	0.75%	5.09%	8.67%	0.75%	9.42%	4.19%	0.75%	4.94%	3.49%	0.75%	4.24%
39	4.43%	0.75%	5.18%	8.85%	0.75%	9.60%	4.28%	0.75%	5.03%	3.57%	0.75%	4.32%
40	4.52%	0.75%	5.27%	9.03%	0.75%	9.78%	4.37%	0.75%	5.12%	3.64%	0.75%	4.39%
41	4.61%	0.75%	5.36%	9.22%	0.75%	9.97%	4.46%	0.75%	5.21%	3.71%	0.75%	4.46%
42	4.70%	0.75%	5.45%	9.41%	0.75%	10.16%	4.54%	0.75%	5.29%	3.79%	0.75%	4.54%
43	4.80%	0.75%	5.55%	9.60%	0.75%	10.35%	4.63%	0.75%	5.38%	3.86%	0.75%	4.61%
44	4.89%	0.75%	5.64%	9.79%	0.75%	10.54%	4.72%	0.75%	5.47%	3.94%	0.75%	4.69%
45	4.99%	0.75%	5.74%	9.98%	0.75%	10.73%	4.82%	0.75%	5.57%	4.01%	0.75%	4.76%
46	5.09%	0.75%	5.84%	10.18%	0.75%	10.93%	4.91%	0.75%	5.66%	4.09%	0.75%	4.84%
47	5.19%	0.75%	5.94%	10.37%	0.75%	11.12%	5.00%	0.75%	5.75%	4.17%	0.75%	4.92%
48	5.28%	0.75%	6.03%	10.57%	0.75%	11.32%	5.09%	0.75%	5.84%	4.24%	0.75%	4.99%
49	5.38%	0.75%	6.13%	10.77%	0.75%	11.52%	5.19%	0.75%	5.94%	4.32%	0.75%	5.07%
50	5.49%	0.75%	6.24%	10.98%	0.75%	11.73%	5.28%	0.75%	6.03%	4.40%	0.75%	5.15%
51	5.59%	0.75%	6.34%	11.19%	0.75%	11.94%	5.38%	0.75%	6.13%	4.48%	0.75%	5.23%
52	5.70%	0.75%	6.45%	11.40%	0.75%	12.15%	5.46%	0.75%	6.21%	4.55%	0.75%	5.30%
53	5.80%	0.75%	6.55%	11.60%	0.75%	12.35%	5.54%	0.75%	6.29%	4.62%	0.75%	5.37%
54	5.90%	0.75%	6.65%	11.79%	0.75%	12.54%	5.61%	0.75%	6.36%	4.67%	0.75%	5.42%
55	5.97%	0.75%	6.72%	11.95%	0.75%	12.70%	5.65%	0.75%	6.40%	4.71%	0.75%	5.46%
56	6.04%	0.75%	6.79%	12.07%	0.75%	12.82%	5.67%	0.75%	6.42%	4.73%	0.75%	5.48%
57	6.07%	0.75%	6.82%	12.14%	0.75%	12.89%	5.67%	0.75%	6.42%	4.73%	0.75%	5.48%
58	6.07%	0.75%	6.82%	12.15%	0.75%	12.90%	5.85%	0.75%	6.60%	4.88%	0.75%	5.63%
59	6.07%	0.75%	6.82%	12.15%	0.75%	12.90%	6.05%	0.75%	6.80%	5.04%	0.75%	5.79%
60	6.07%	0.75%	6.82%	12.15%	0.75%	12.90%	6.05%	0.75%	6.80%	5.04%	0.75%	5.79%

Members do not pay COLA contributions

Assumptions:
Interest: 7.00%
Salary: 2016 Valuation Scale (Service based, includes wage inflation at 3.00%)
Unisex Mortality: CalPERS Healthy Annuitant Mortality, projected to 2039 using MP-2016 (blended 35% Male / 65% Female)
Administrative expenses: Rates have been loaded by 3.4% to account for expected administrative expenses allocated to the members.

**SANTA BARBARA COUNTY EMPLOYEES' RETIREMENT SYSTEM
ACTUARIAL VALUATION REPORT AS OF JUNE 30, 2018 - ADDENDUM**

SECTION III – EMPLOYEE CONTRIBUTION RATES WITH COST-SHARING

Union of American Physicians & Dentists (10,11) Effective November 19, 2018												
Entry Age	Plan 5A			Plan 5B			Plan 5C			Plan 7		
	Basic	Cost-Sharing	Total	Basic	Cost-Sharing	Total	Basic	Cost-Sharing	Total	Basic	Cost-Sharing	Total
16	2.93%	1.50%	4.43%	5.86%	1.50%	7.36%	2.84%	1.50%	4.34%	2.36%	1.50%	3.86%
17	2.93%	1.50%	4.43%	5.86%	1.50%	7.36%	2.84%	1.50%	4.34%	2.36%	1.50%	3.86%
18	2.93%	1.50%	4.43%	5.86%	1.50%	7.36%	2.84%	1.50%	4.34%	2.36%	1.50%	3.86%
19	2.93%	1.50%	4.43%	5.86%	1.50%	7.36%	2.84%	1.50%	4.34%	2.36%	1.50%	3.86%
20	2.93%	1.50%	4.43%	5.86%	1.50%	7.36%	2.84%	1.50%	4.34%	2.36%	1.50%	3.86%
21	2.99%	1.50%	4.49%	5.99%	1.50%	7.49%	2.90%	1.50%	4.40%	2.42%	1.50%	3.92%
22	3.06%	1.50%	4.56%	6.12%	1.50%	7.62%	2.97%	1.50%	4.47%	2.47%	1.50%	3.97%
23	3.13%	1.50%	4.63%	6.26%	1.50%	7.76%	3.03%	1.50%	4.53%	2.53%	1.50%	4.03%
24	3.20%	1.50%	4.70%	6.40%	1.50%	7.90%	3.10%	1.50%	4.60%	2.58%	1.50%	4.08%
25	3.27%	1.50%	4.77%	6.55%	1.50%	8.05%	3.17%	1.50%	4.67%	2.64%	1.50%	4.14%
26	3.35%	1.50%	4.85%	6.69%	1.50%	8.19%	3.24%	1.50%	4.74%	2.70%	1.50%	4.20%
27	3.42%	1.50%	4.92%	6.84%	1.50%	8.34%	3.32%	1.50%	4.82%	2.76%	1.50%	4.26%
28	3.50%	1.50%	5.00%	7.00%	1.50%	8.50%	3.39%	1.50%	4.89%	2.82%	1.50%	4.32%
29	3.58%	1.50%	5.08%	7.15%	1.50%	8.65%	3.47%	1.50%	4.97%	2.89%	1.50%	4.39%
30	3.66%	1.50%	5.16%	7.31%	1.50%	8.81%	3.54%	1.50%	5.04%	2.95%	1.50%	4.45%
31	3.74%	1.50%	5.24%	7.48%	1.50%	8.98%	3.62%	1.50%	5.12%	3.02%	1.50%	4.52%
32	3.82%	1.50%	5.32%	7.64%	1.50%	9.14%	3.70%	1.50%	5.20%	3.08%	1.50%	4.58%
33	3.90%	1.50%	5.40%	7.81%	1.50%	9.31%	3.78%	1.50%	5.28%	3.15%	1.50%	4.65%
34	3.99%	1.50%	5.49%	7.98%	1.50%	9.48%	3.86%	1.50%	5.36%	3.22%	1.50%	4.72%
35	4.07%	1.50%	5.57%	8.15%	1.50%	9.65%	3.94%	1.50%	5.44%	3.28%	1.50%	4.78%
36	4.16%	1.50%	5.66%	8.32%	1.50%	9.82%	4.02%	1.50%	5.52%	3.35%	1.50%	4.85%
37	4.25%	1.50%	5.75%	8.49%	1.50%	9.99%	4.11%	1.50%	5.61%	3.42%	1.50%	4.92%
38	4.34%	1.50%	5.84%	8.67%	1.50%	10.17%	4.19%	1.50%	5.69%	3.49%	1.50%	4.99%
39	4.43%	1.50%	5.93%	8.85%	1.50%	10.35%	4.28%	1.50%	5.78%	3.57%	1.50%	5.07%
40	4.52%	1.50%	6.02%	9.03%	1.50%	10.53%	4.37%	1.50%	5.87%	3.64%	1.50%	5.14%
41	4.61%	1.50%	6.11%	9.22%	1.50%	10.72%	4.46%	1.50%	5.96%	3.71%	1.50%	5.21%
42	4.70%	1.50%	6.20%	9.41%	1.50%	10.91%	4.54%	1.50%	6.04%	3.79%	1.50%	5.29%
43	4.80%	1.50%	6.30%	9.60%	1.50%	11.10%	4.63%	1.50%	6.13%	3.86%	1.50%	5.36%
44	4.89%	1.50%	6.39%	9.79%	1.50%	11.29%	4.72%	1.50%	6.22%	3.94%	1.50%	5.44%
45	4.99%	1.50%	6.49%	9.98%	1.50%	11.48%	4.82%	1.50%	6.32%	4.01%	1.50%	5.51%
46	5.09%	1.50%	6.59%	10.18%	1.50%	11.68%	4.91%	1.50%	6.41%	4.09%	1.50%	5.59%
47	5.19%	1.50%	6.69%	10.37%	1.50%	11.87%	5.00%	1.50%	6.50%	4.17%	1.50%	5.67%
48	5.28%	1.50%	6.78%	10.57%	1.50%	12.07%	5.09%	1.50%	6.59%	4.24%	1.50%	5.74%
49	5.38%	1.50%	6.88%	10.77%	1.50%	12.27%	5.19%	1.50%	6.69%	4.32%	1.50%	5.82%
50	5.49%	1.50%	6.99%	10.98%	1.50%	12.48%	5.28%	1.50%	6.78%	4.40%	1.50%	5.90%
51	5.59%	1.50%	7.09%	11.19%	1.50%	12.69%	5.38%	1.50%	6.88%	4.48%	1.50%	5.98%
52	5.70%	1.50%	7.20%	11.40%	1.50%	12.90%	5.46%	1.50%	6.96%	4.55%	1.50%	6.05%
53	5.80%	1.50%	7.30%	11.60%	1.50%	13.10%	5.54%	1.50%	7.04%	4.62%	1.50%	6.12%
54	5.90%	1.50%	7.40%	11.79%	1.50%	13.29%	5.61%	1.50%	7.11%	4.67%	1.50%	6.17%
55	5.97%	1.50%	7.47%	11.95%	1.50%	13.45%	5.65%	1.50%	7.15%	4.71%	1.50%	6.21%
56	6.04%	1.50%	7.54%	12.07%	1.50%	13.57%	5.67%	1.50%	7.17%	4.73%	1.50%	6.23%
57	6.07%	1.50%	7.57%	12.14%	1.50%	13.64%	5.67%	1.50%	7.17%	4.73%	1.50%	6.23%
58	6.07%	1.50%	7.57%	12.15%	1.50%	13.65%	5.85%	1.50%	7.35%	4.88%	1.50%	6.38%
59	6.07%	1.50%	7.57%	12.15%	1.50%	13.65%	6.05%	1.50%	7.55%	5.04%	1.50%	6.54%
60	6.07%	1.50%	7.57%	12.15%	1.50%	13.65%	6.05%	1.50%	7.55%	5.04%	1.50%	6.54%

Members do not pay COLA contributions

Assumptions:
Interest: 7.00%
Salary: 2016 Valuation Scale (Service based, includes wage inflation at 3.00%)
Unisex Mortality: CalPERS Healthy Annuitant Mortality, projected to 2039 using MP-2016 (blended 35% Male / 65% Female)
Administrative expenses: Rates have been loaded by 3.4% to account for expected administrative expenses allocated to the members.

**SANTA BARBARA COUNTY EMPLOYEES' RETIREMENT SYSTEM
ACTUARIAL VALUATION REPORT AS OF JUNE 30, 2018 - ADDENDUM**

SECTION III – EMPLOYEE CONTRIBUTION RATES WITH COST-SHARING

Union of American Physicians & Dentists (10,11) Effective November 18, 2019												
Entry Age	Plan 5A			Plan 5B			Plan 5C			Plan 7		
	Basic	Cost-Sharing	Total	Basic	Cost-Sharing	Total	Basic	Cost-Sharing	Total	Basic	Cost-Sharing	Total
16	2.93%	2.00%	4.93%	5.86%	2.00%	7.86%	2.84%	2.00%	4.84%	2.36%	2.00%	4.36%
17	2.93%	2.00%	4.93%	5.86%	2.00%	7.86%	2.84%	2.00%	4.84%	2.36%	2.00%	4.36%
18	2.93%	2.00%	4.93%	5.86%	2.00%	7.86%	2.84%	2.00%	4.84%	2.36%	2.00%	4.36%
19	2.93%	2.00%	4.93%	5.86%	2.00%	7.86%	2.84%	2.00%	4.84%	2.36%	2.00%	4.36%
20	2.93%	2.00%	4.93%	5.86%	2.00%	7.86%	2.84%	2.00%	4.84%	2.36%	2.00%	4.36%
21	2.99%	2.00%	4.99%	5.99%	2.00%	7.99%	2.90%	2.00%	4.90%	2.42%	2.00%	4.42%
22	3.06%	2.00%	5.06%	6.12%	2.00%	8.12%	2.97%	2.00%	4.97%	2.47%	2.00%	4.47%
23	3.13%	2.00%	5.13%	6.26%	2.00%	8.26%	3.03%	2.00%	5.03%	2.53%	2.00%	4.53%
24	3.20%	2.00%	5.20%	6.40%	2.00%	8.40%	3.10%	2.00%	5.10%	2.58%	2.00%	4.58%
25	3.27%	2.00%	5.27%	6.55%	2.00%	8.55%	3.17%	2.00%	5.17%	2.64%	2.00%	4.64%
26	3.35%	2.00%	5.35%	6.69%	2.00%	8.69%	3.24%	2.00%	5.24%	2.70%	2.00%	4.70%
27	3.42%	2.00%	5.42%	6.84%	2.00%	8.84%	3.32%	2.00%	5.32%	2.76%	2.00%	4.76%
28	3.50%	2.00%	5.50%	7.00%	2.00%	9.00%	3.39%	2.00%	5.39%	2.82%	2.00%	4.82%
29	3.58%	2.00%	5.58%	7.15%	2.00%	9.15%	3.47%	2.00%	5.47%	2.89%	2.00%	4.89%
30	3.66%	2.00%	5.66%	7.31%	2.00%	9.31%	3.54%	2.00%	5.54%	2.95%	2.00%	4.95%
31	3.74%	2.00%	5.74%	7.48%	2.00%	9.48%	3.62%	2.00%	5.62%	3.02%	2.00%	5.02%
32	3.82%	2.00%	5.82%	7.64%	2.00%	9.64%	3.70%	2.00%	5.70%	3.08%	2.00%	5.08%
33	3.90%	2.00%	5.90%	7.81%	2.00%	9.81%	3.78%	2.00%	5.78%	3.15%	2.00%	5.15%
34	3.99%	2.00%	5.99%	7.98%	2.00%	9.98%	3.86%	2.00%	5.86%	3.22%	2.00%	5.22%
35	4.07%	2.00%	6.07%	8.15%	2.00%	10.15%	3.94%	2.00%	5.94%	3.28%	2.00%	5.28%
36	4.16%	2.00%	6.16%	8.32%	2.00%	10.32%	4.02%	2.00%	6.02%	3.35%	2.00%	5.35%
37	4.25%	2.00%	6.25%	8.49%	2.00%	10.49%	4.11%	2.00%	6.11%	3.42%	2.00%	5.42%
38	4.34%	2.00%	6.34%	8.67%	2.00%	10.67%	4.19%	2.00%	6.19%	3.49%	2.00%	5.49%
39	4.43%	2.00%	6.43%	8.85%	2.00%	10.85%	4.28%	2.00%	6.28%	3.57%	2.00%	5.57%
40	4.52%	2.00%	6.52%	9.03%	2.00%	11.03%	4.37%	2.00%	6.37%	3.64%	2.00%	5.64%
41	4.61%	2.00%	6.61%	9.22%	2.00%	11.22%	4.46%	2.00%	6.46%	3.71%	2.00%	5.71%
42	4.70%	2.00%	6.70%	9.41%	2.00%	11.41%	4.54%	2.00%	6.54%	3.79%	2.00%	5.79%
43	4.80%	2.00%	6.80%	9.60%	2.00%	11.60%	4.63%	2.00%	6.63%	3.86%	2.00%	5.86%
44	4.89%	2.00%	6.89%	9.79%	2.00%	11.79%	4.72%	2.00%	6.72%	3.94%	2.00%	5.94%
45	4.99%	2.00%	6.99%	9.98%	2.00%	11.98%	4.82%	2.00%	6.82%	4.01%	2.00%	6.01%
46	5.09%	2.00%	7.09%	10.18%	2.00%	12.18%	4.91%	2.00%	6.91%	4.09%	2.00%	6.09%
47	5.19%	2.00%	7.19%	10.37%	2.00%	12.37%	5.00%	2.00%	7.00%	4.17%	2.00%	6.17%
48	5.28%	2.00%	7.28%	10.57%	2.00%	12.57%	5.09%	2.00%	7.09%	4.24%	2.00%	6.24%
49	5.38%	2.00%	7.38%	10.77%	2.00%	12.77%	5.19%	2.00%	7.19%	4.32%	2.00%	6.32%
50	5.49%	2.00%	7.49%	10.98%	2.00%	12.98%	5.28%	2.00%	7.28%	4.40%	2.00%	6.40%
51	5.59%	2.00%	7.59%	11.19%	2.00%	13.19%	5.38%	2.00%	7.38%	4.48%	2.00%	6.48%
52	5.70%	2.00%	7.70%	11.40%	2.00%	13.40%	5.46%	2.00%	7.46%	4.55%	2.00%	6.55%
53	5.80%	2.00%	7.80%	11.60%	2.00%	13.60%	5.54%	2.00%	7.54%	4.62%	2.00%	6.62%
54	5.90%	2.00%	7.90%	11.79%	2.00%	13.79%	5.61%	2.00%	7.61%	4.67%	2.00%	6.67%
55	5.97%	2.00%	7.97%	11.95%	2.00%	13.95%	5.65%	2.00%	7.65%	4.71%	2.00%	6.71%
56	6.04%	2.00%	8.04%	12.07%	2.00%	14.07%	5.67%	2.00%	7.67%	4.73%	2.00%	6.73%
57	6.07%	2.00%	8.07%	12.14%	2.00%	14.14%	5.67%	2.00%	7.67%	4.73%	2.00%	6.73%
58	6.07%	2.00%	8.07%	12.15%	2.00%	14.15%	5.85%	2.00%	7.85%	4.88%	2.00%	6.88%
59	6.07%	2.00%	8.07%	12.15%	2.00%	14.15%	6.05%	2.00%	8.05%	5.04%	2.00%	7.04%
60	6.07%	2.00%	8.07%	12.15%	2.00%	14.15%	6.05%	2.00%	8.05%	5.04%	2.00%	7.04%

Members do not pay COLA contributions

Assumptions:
Interest: 7.00%
Salary: 2016 Valuation Scale (Service based, includes wage inflation at 3.00%)
Unisex Mortality: CalPERS Healthy Annuitant Mortality, projected to 2039 using MP-2016 (blended 35% Male / 65% Female)
Administrative expenses: Rates have been loaded by 3.4% to account for expected administrative expenses allocated to the members.

**SANTA BARBARA COUNTY EMPLOYEES' RETIREMENT SYSTEM
ACTUARIAL VALUATION REPORT AS OF JUNE 30, 2018 - ADDENDUM**

SECTION III – EMPLOYEE CONTRIBUTION RATES WITH COST-SHARING

Deputy District Attorneys (17) Effective October 8, 2018												
Entry Age	Plan 5A			Plan 5B			Plan 5C			Plan 7		
	Basic	Cost-Sharing	Total	Basic	Cost-Sharing	Total	Basic	Cost-Sharing	Total	Basic	Cost-Sharing	Total
16	2.93%	1.50%	4.43%	5.86%	1.50%	7.36%	2.84%	1.50%	4.34%	2.36%	1.50%	3.86%
17	2.93%	1.50%	4.43%	5.86%	1.50%	7.36%	2.84%	1.50%	4.34%	2.36%	1.50%	3.86%
18	2.93%	1.50%	4.43%	5.86%	1.50%	7.36%	2.84%	1.50%	4.34%	2.36%	1.50%	3.86%
19	2.93%	1.50%	4.43%	5.86%	1.50%	7.36%	2.84%	1.50%	4.34%	2.36%	1.50%	3.86%
20	2.93%	1.50%	4.43%	5.86%	1.50%	7.36%	2.84%	1.50%	4.34%	2.36%	1.50%	3.86%
21	2.99%	1.50%	4.49%	5.99%	1.50%	7.49%	2.90%	1.50%	4.40%	2.42%	1.50%	3.92%
22	3.06%	1.50%	4.56%	6.12%	1.50%	7.62%	2.97%	1.50%	4.47%	2.47%	1.50%	3.97%
23	3.13%	1.50%	4.63%	6.26%	1.50%	7.76%	3.03%	1.50%	4.53%	2.53%	1.50%	4.03%
24	3.20%	1.50%	4.70%	6.40%	1.50%	7.90%	3.10%	1.50%	4.60%	2.58%	1.50%	4.08%
25	3.27%	1.50%	4.77%	6.55%	1.50%	8.05%	3.17%	1.50%	4.67%	2.64%	1.50%	4.14%
26	3.35%	1.50%	4.85%	6.69%	1.50%	8.19%	3.24%	1.50%	4.74%	2.70%	1.50%	4.20%
27	3.42%	1.50%	4.92%	6.84%	1.50%	8.34%	3.32%	1.50%	4.82%	2.76%	1.50%	4.26%
28	3.50%	1.50%	5.00%	7.00%	1.50%	8.50%	3.39%	1.50%	4.89%	2.82%	1.50%	4.32%
29	3.58%	1.50%	5.08%	7.15%	1.50%	8.65%	3.47%	1.50%	4.97%	2.89%	1.50%	4.39%
30	3.66%	1.50%	5.16%	7.31%	1.50%	8.81%	3.54%	1.50%	5.04%	2.95%	1.50%	4.45%
31	3.74%	1.50%	5.24%	7.48%	1.50%	8.98%	3.62%	1.50%	5.12%	3.02%	1.50%	4.52%
32	3.82%	1.50%	5.32%	7.64%	1.50%	9.14%	3.70%	1.50%	5.20%	3.08%	1.50%	4.58%
33	3.90%	1.50%	5.40%	7.81%	1.50%	9.31%	3.78%	1.50%	5.28%	3.15%	1.50%	4.65%
34	3.99%	1.50%	5.49%	7.98%	1.50%	9.48%	3.86%	1.50%	5.36%	3.22%	1.50%	4.72%
35	4.07%	1.50%	5.57%	8.15%	1.50%	9.65%	3.94%	1.50%	5.44%	3.28%	1.50%	4.78%
36	4.16%	1.50%	5.66%	8.32%	1.50%	9.82%	4.02%	1.50%	5.52%	3.35%	1.50%	4.85%
37	4.25%	1.50%	5.75%	8.49%	1.50%	9.99%	4.11%	1.50%	5.61%	3.42%	1.50%	4.92%
38	4.34%	1.50%	5.84%	8.67%	1.50%	10.17%	4.19%	1.50%	5.69%	3.49%	1.50%	4.99%
39	4.43%	1.50%	5.93%	8.85%	1.50%	10.35%	4.28%	1.50%	5.78%	3.57%	1.50%	5.07%
40	4.52%	1.50%	6.02%	9.03%	1.50%	10.53%	4.37%	1.50%	5.87%	3.64%	1.50%	5.14%
41	4.61%	1.50%	6.11%	9.22%	1.50%	10.72%	4.46%	1.50%	5.96%	3.71%	1.50%	5.21%
42	4.70%	1.50%	6.20%	9.41%	1.50%	10.91%	4.54%	1.50%	6.04%	3.79%	1.50%	5.29%
43	4.80%	1.50%	6.30%	9.60%	1.50%	11.10%	4.63%	1.50%	6.13%	3.86%	1.50%	5.36%
44	4.89%	1.50%	6.39%	9.79%	1.50%	11.29%	4.72%	1.50%	6.22%	3.94%	1.50%	5.44%
45	4.99%	1.50%	6.49%	9.98%	1.50%	11.48%	4.82%	1.50%	6.32%	4.01%	1.50%	5.51%
46	5.09%	1.50%	6.59%	10.18%	1.50%	11.68%	4.91%	1.50%	6.41%	4.09%	1.50%	5.59%
47	5.19%	1.50%	6.69%	10.37%	1.50%	11.87%	5.00%	1.50%	6.50%	4.17%	1.50%	5.67%
48	5.28%	1.50%	6.78%	10.57%	1.50%	12.07%	5.09%	1.50%	6.59%	4.24%	1.50%	5.74%
49	5.38%	1.50%	6.88%	10.77%	1.50%	12.27%	5.19%	1.50%	6.69%	4.32%	1.50%	5.82%
50	5.49%	1.50%	6.99%	10.98%	1.50%	12.48%	5.28%	1.50%	6.78%	4.40%	1.50%	5.90%
51	5.59%	1.50%	7.09%	11.19%	1.50%	12.69%	5.38%	1.50%	6.88%	4.48%	1.50%	5.98%
52	5.70%	1.50%	7.20%	11.40%	1.50%	12.90%	5.46%	1.50%	6.96%	4.55%	1.50%	6.05%
53	5.80%	1.50%	7.30%	11.60%	1.50%	13.10%	5.54%	1.50%	7.04%	4.62%	1.50%	6.12%
54	5.90%	1.50%	7.40%	11.79%	1.50%	13.29%	5.61%	1.50%	7.11%	4.67%	1.50%	6.17%
55	5.97%	1.50%	7.47%	11.95%	1.50%	13.45%	5.65%	1.50%	7.15%	4.71%	1.50%	6.21%
56	6.04%	1.50%	7.54%	12.07%	1.50%	13.57%	5.67%	1.50%	7.17%	4.73%	1.50%	6.23%
57	6.07%	1.50%	7.57%	12.14%	1.50%	13.64%	5.67%	1.50%	7.17%	4.73%	1.50%	6.23%
58	6.07%	1.50%	7.57%	12.15%	1.50%	13.65%	5.85%	1.50%	7.35%	4.88%	1.50%	6.38%
59	6.07%	1.50%	7.57%	12.15%	1.50%	13.65%	6.05%	1.50%	7.55%	5.04%	1.50%	6.54%
60	6.07%	1.50%	7.57%	12.15%	1.50%	13.65%	6.05%	1.50%	7.55%	5.04%	1.50%	6.54%

Members do not pay COLA contributions

Assumptions:
Interest: 7.00%
Salary: 2016 Valuation Scale (Service based, includes wage inflation at 3.00%)
Unisex Mortality: CalPERS Healthy Annuitant Mortality, projected to 2039 using MP-2016 (blended 35% Male / 65% Female)
Administrative expenses: Rates have been loaded by 3.4% to account for expected administrative expenses allocated to the members.

**SANTA BARBARA COUNTY EMPLOYEES' RETIREMENT SYSTEM
ACTUARIAL VALUATION REPORT AS OF JUNE 30, 2018 - ADDENDUM**

SECTION III – EMPLOYEE CONTRIBUTION RATES WITH COST-SHARING

Civil Attorneys Association (30) and Unrepresented Confidential Attorneys (36) Effective October 8, 2018												
Entry Age	Plan 5A			Plan 5B			Plan 5C			Plan 7		
	Basic	Cost-Sharing	Total	Basic	Cost-Sharing	Total	Basic	Cost-Sharing	Total	Basic	Cost-Sharing	Total
16	2.93%	1.49%	4.42%	5.86%	1.49%	7.35%	2.84%	1.49%	4.33%	2.36%	1.49%	3.85%
17	2.93%	1.49%	4.42%	5.86%	1.49%	7.35%	2.84%	1.49%	4.33%	2.36%	1.49%	3.85%
18	2.93%	1.49%	4.42%	5.86%	1.49%	7.35%	2.84%	1.49%	4.33%	2.36%	1.49%	3.85%
19	2.93%	1.49%	4.42%	5.86%	1.49%	7.35%	2.84%	1.49%	4.33%	2.36%	1.49%	3.85%
20	2.93%	1.49%	4.42%	5.86%	1.49%	7.35%	2.84%	1.49%	4.33%	2.36%	1.49%	3.85%
21	2.99%	1.49%	4.48%	5.99%	1.49%	7.48%	2.90%	1.49%	4.39%	2.42%	1.49%	3.91%
22	3.06%	1.49%	4.55%	6.12%	1.49%	7.61%	2.97%	1.49%	4.46%	2.47%	1.49%	3.96%
23	3.13%	1.49%	4.62%	6.26%	1.49%	7.75%	3.03%	1.49%	4.52%	2.53%	1.49%	4.02%
24	3.20%	1.49%	4.69%	6.40%	1.49%	7.89%	3.10%	1.49%	4.59%	2.58%	1.49%	4.07%
25	3.27%	1.49%	4.76%	6.55%	1.49%	8.04%	3.17%	1.49%	4.66%	2.64%	1.49%	4.13%
26	3.35%	1.49%	4.84%	6.69%	1.49%	8.18%	3.24%	1.49%	4.73%	2.70%	1.49%	4.19%
27	3.42%	1.49%	4.91%	6.84%	1.49%	8.33%	3.32%	1.49%	4.81%	2.76%	1.49%	4.25%
28	3.50%	1.49%	4.99%	7.00%	1.49%	8.49%	3.39%	1.49%	4.88%	2.82%	1.49%	4.31%
29	3.58%	1.49%	5.07%	7.15%	1.49%	8.64%	3.47%	1.49%	4.96%	2.89%	1.49%	4.38%
30	3.66%	1.49%	5.15%	7.31%	1.49%	8.80%	3.54%	1.49%	5.03%	2.95%	1.49%	4.44%
31	3.74%	1.49%	5.23%	7.48%	1.49%	8.97%	3.62%	1.49%	5.11%	3.02%	1.49%	4.51%
32	3.82%	1.49%	5.31%	7.64%	1.49%	9.13%	3.70%	1.49%	5.19%	3.08%	1.49%	4.57%
33	3.90%	1.49%	5.39%	7.81%	1.49%	9.30%	3.78%	1.49%	5.27%	3.15%	1.49%	4.64%
34	3.99%	1.49%	5.48%	7.98%	1.49%	9.47%	3.86%	1.49%	5.35%	3.22%	1.49%	4.71%
35	4.07%	1.49%	5.56%	8.15%	1.49%	9.64%	3.94%	1.49%	5.43%	3.28%	1.49%	4.77%
36	4.16%	1.49%	5.65%	8.32%	1.49%	9.81%	4.02%	1.49%	5.51%	3.35%	1.49%	4.84%
37	4.25%	1.49%	5.74%	8.49%	1.49%	9.98%	4.11%	1.49%	5.60%	3.42%	1.49%	4.91%
38	4.34%	1.49%	5.83%	8.67%	1.49%	10.16%	4.19%	1.49%	5.68%	3.49%	1.49%	4.98%
39	4.43%	1.49%	5.92%	8.85%	1.49%	10.34%	4.28%	1.49%	5.77%	3.57%	1.49%	5.06%
40	4.52%	1.49%	6.01%	9.03%	1.49%	10.52%	4.37%	1.49%	5.86%	3.64%	1.49%	5.13%
41	4.61%	1.49%	6.10%	9.22%	1.49%	10.71%	4.46%	1.49%	5.95%	3.71%	1.49%	5.20%
42	4.70%	1.49%	6.19%	9.41%	1.49%	10.90%	4.54%	1.49%	6.03%	3.79%	1.49%	5.28%
43	4.80%	1.49%	6.29%	9.60%	1.49%	11.09%	4.63%	1.49%	6.12%	3.86%	1.49%	5.35%
44	4.89%	1.49%	6.38%	9.79%	1.49%	11.28%	4.72%	1.49%	6.21%	3.94%	1.49%	5.43%
45	4.99%	1.49%	6.48%	9.98%	1.49%	11.47%	4.82%	1.49%	6.31%	4.01%	1.49%	5.50%
46	5.09%	1.49%	6.58%	10.18%	1.49%	11.67%	4.91%	1.49%	6.40%	4.09%	1.49%	5.58%
47	5.19%	1.49%	6.68%	10.37%	1.49%	11.86%	5.00%	1.49%	6.49%	4.17%	1.49%	5.66%
48	5.28%	1.49%	6.77%	10.57%	1.49%	12.06%	5.09%	1.49%	6.58%	4.24%	1.49%	5.73%
49	5.38%	1.49%	6.87%	10.77%	1.49%	12.26%	5.19%	1.49%	6.68%	4.32%	1.49%	5.81%
50	5.49%	1.49%	6.98%	10.98%	1.49%	12.47%	5.28%	1.49%	6.77%	4.40%	1.49%	5.89%
51	5.59%	1.49%	7.08%	11.19%	1.49%	12.68%	5.38%	1.49%	6.87%	4.48%	1.49%	5.97%
52	5.70%	1.49%	7.19%	11.40%	1.49%	12.89%	5.46%	1.49%	6.95%	4.55%	1.49%	6.04%
53	5.80%	1.49%	7.29%	11.60%	1.49%	13.09%	5.54%	1.49%	7.03%	4.62%	1.49%	6.11%
54	5.90%	1.49%	7.39%	11.79%	1.49%	13.28%	5.61%	1.49%	7.10%	4.67%	1.49%	6.16%
55	5.97%	1.49%	7.46%	11.95%	1.49%	13.44%	5.65%	1.49%	7.14%	4.71%	1.49%	6.20%
56	6.04%	1.49%	7.53%	12.07%	1.49%	13.56%	5.67%	1.49%	7.16%	4.73%	1.49%	6.22%
57	6.07%	1.49%	7.56%	12.14%	1.49%	13.63%	5.67%	1.49%	7.16%	4.73%	1.49%	6.22%
58	6.07%	1.49%	7.56%	12.15%	1.49%	13.64%	5.85%	1.49%	7.34%	4.88%	1.49%	6.37%
59	6.07%	1.49%	7.56%	12.15%	1.49%	13.64%	6.05%	1.49%	7.54%	5.04%	1.49%	6.53%
60	6.07%	1.49%	7.56%	12.15%	1.49%	13.64%	6.05%	1.49%	7.54%	5.04%	1.49%	6.53%

Members do not pay COLA contributions

Assumptions:
Interest: 7.00%
Salary: 2016 Valuation Scale (Service based, includes wage inflation at 3.00%)
Unisex Mortality: CalPERS Healthy Annuitant Mortality, projected to 2039 using MP-2016 (blended 35% Male / 65% Female)
Administrative expenses: Rates have been loaded by 3.4% to account for expected administrative expenses allocated to the members.

**SANTA BARBARA COUNTY EMPLOYEES' RETIREMENT SYSTEM
ACTUARIAL VALUATION REPORT AS OF JUNE 30, 2018 - ADDENDUM**

SECTION III – EMPLOYEE CONTRIBUTION RATES WITH COST-SHARING

Unrepresented Managers (incl CEO) (35,40,41,42,43) Effective September 10, 2018												
Entry Age	Plan 5A			Plan 5B			Plan 5C			Plan 7		
	Basic	Cost-Sharing	Total	Basic	Cost-Sharing	Total	Basic	Cost-Sharing	Total	Basic	Cost-Sharing	Total
16	2.93%	0.83%	3.76%	5.86%	0.83%	6.69%	2.84%	0.83%	3.67%	2.36%	0.83%	3.19%
17	2.93%	0.83%	3.76%	5.86%	0.83%	6.69%	2.84%	0.83%	3.67%	2.36%	0.83%	3.19%
18	2.93%	0.83%	3.76%	5.86%	0.83%	6.69%	2.84%	0.83%	3.67%	2.36%	0.83%	3.19%
19	2.93%	0.83%	3.76%	5.86%	0.83%	6.69%	2.84%	0.83%	3.67%	2.36%	0.83%	3.19%
20	2.93%	0.83%	3.76%	5.86%	0.83%	6.69%	2.84%	0.83%	3.67%	2.36%	0.83%	3.19%
21	2.99%	0.83%	3.82%	5.99%	0.83%	6.82%	2.90%	0.83%	3.73%	2.42%	0.83%	3.25%
22	3.06%	0.83%	3.89%	6.12%	0.83%	6.95%	2.97%	0.83%	3.80%	2.47%	0.83%	3.30%
23	3.13%	0.83%	3.96%	6.26%	0.83%	7.09%	3.03%	0.83%	3.86%	2.53%	0.83%	3.36%
24	3.20%	0.83%	4.03%	6.40%	0.83%	7.23%	3.10%	0.83%	3.93%	2.58%	0.83%	3.41%
25	3.27%	0.83%	4.10%	6.55%	0.83%	7.38%	3.17%	0.83%	4.00%	2.64%	0.83%	3.47%
26	3.35%	0.83%	4.18%	6.69%	0.83%	7.52%	3.24%	0.83%	4.07%	2.70%	0.83%	3.53%
27	3.42%	0.83%	4.25%	6.84%	0.83%	7.67%	3.32%	0.83%	4.15%	2.76%	0.83%	3.59%
28	3.50%	0.83%	4.33%	7.00%	0.83%	7.83%	3.39%	0.83%	4.22%	2.82%	0.83%	3.65%
29	3.58%	0.83%	4.41%	7.15%	0.83%	7.98%	3.47%	0.83%	4.30%	2.89%	0.83%	3.72%
30	3.66%	0.83%	4.49%	7.31%	0.83%	8.14%	3.54%	0.83%	4.37%	2.95%	0.83%	3.78%
31	3.74%	0.83%	4.57%	7.48%	0.83%	8.31%	3.62%	0.83%	4.45%	3.02%	0.83%	3.85%
32	3.82%	0.83%	4.65%	7.64%	0.83%	8.47%	3.70%	0.83%	4.53%	3.08%	0.83%	3.91%
33	3.90%	0.83%	4.73%	7.81%	0.83%	8.64%	3.78%	0.83%	4.61%	3.15%	0.83%	3.98%
34	3.99%	0.83%	4.82%	7.98%	0.83%	8.81%	3.86%	0.83%	4.69%	3.22%	0.83%	4.05%
35	4.07%	0.83%	4.90%	8.15%	0.83%	8.98%	3.94%	0.83%	4.77%	3.28%	0.83%	4.11%
36	4.16%	0.83%	4.99%	8.32%	0.83%	9.15%	4.02%	0.83%	4.85%	3.35%	0.83%	4.18%
37	4.25%	0.83%	5.08%	8.49%	0.83%	9.32%	4.11%	0.83%	4.94%	3.42%	0.83%	4.25%
38	4.34%	0.83%	5.17%	8.67%	0.83%	9.50%	4.19%	0.83%	5.02%	3.49%	0.83%	4.32%
39	4.43%	0.83%	5.26%	8.85%	0.83%	9.68%	4.28%	0.83%	5.11%	3.57%	0.83%	4.40%
40	4.52%	0.83%	5.35%	9.03%	0.83%	9.86%	4.37%	0.83%	5.20%	3.64%	0.83%	4.47%
41	4.61%	0.83%	5.44%	9.22%	0.83%	10.05%	4.46%	0.83%	5.29%	3.71%	0.83%	4.54%
42	4.70%	0.83%	5.53%	9.41%	0.83%	10.24%	4.54%	0.83%	5.37%	3.79%	0.83%	4.62%
43	4.80%	0.83%	5.63%	9.60%	0.83%	10.43%	4.63%	0.83%	5.46%	3.86%	0.83%	4.69%
44	4.89%	0.83%	5.72%	9.79%	0.83%	10.62%	4.72%	0.83%	5.55%	3.94%	0.83%	4.77%
45	4.99%	0.83%	5.82%	9.98%	0.83%	10.81%	4.82%	0.83%	5.65%	4.01%	0.83%	4.84%
46	5.09%	0.83%	5.92%	10.18%	0.83%	11.01%	4.91%	0.83%	5.74%	4.09%	0.83%	4.92%
47	5.19%	0.83%	6.02%	10.37%	0.83%	11.20%	5.00%	0.83%	5.83%	4.17%	0.83%	5.00%
48	5.28%	0.83%	6.11%	10.57%	0.83%	11.40%	5.09%	0.83%	5.92%	4.24%	0.83%	5.07%
49	5.38%	0.83%	6.21%	10.77%	0.83%	11.60%	5.19%	0.83%	6.02%	4.32%	0.83%	5.15%
50	5.49%	0.83%	6.32%	10.98%	0.83%	11.81%	5.28%	0.83%	6.11%	4.40%	0.83%	5.23%
51	5.59%	0.83%	6.42%	11.19%	0.83%	12.02%	5.38%	0.83%	6.21%	4.48%	0.83%	5.31%
52	5.70%	0.83%	6.53%	11.40%	0.83%	12.23%	5.46%	0.83%	6.29%	4.55%	0.83%	5.38%
53	5.80%	0.83%	6.63%	11.60%	0.83%	12.43%	5.54%	0.83%	6.37%	4.62%	0.83%	5.45%
54	5.90%	0.83%	6.73%	11.79%	0.83%	12.62%	5.61%	0.83%	6.44%	4.67%	0.83%	5.50%
55	5.97%	0.83%	6.80%	11.95%	0.83%	12.78%	5.65%	0.83%	6.48%	4.71%	0.83%	5.54%
56	6.04%	0.83%	6.87%	12.07%	0.83%	12.90%	5.67%	0.83%	6.50%	4.73%	0.83%	5.56%
57	6.07%	0.83%	6.90%	12.14%	0.83%	12.97%	5.67%	0.83%	6.50%	4.73%	0.83%	5.56%
58	6.07%	0.83%	6.90%	12.15%	0.83%	12.98%	5.85%	0.83%	6.68%	4.88%	0.83%	5.71%
59	6.07%	0.83%	6.90%	12.15%	0.83%	12.98%	6.05%	0.83%	6.88%	5.04%	0.83%	5.87%
60	6.07%	0.83%	6.90%	12.15%	0.83%	12.98%	6.05%	0.83%	6.88%	5.04%	0.83%	5.87%

Members do not pay COLA contributions

Assumptions:

Interest: 7.00%
 Salary: 2016 Valuation Scale (Service based, includes wage inflation at 3.00%)
 Unisex Mortality: CalPERS Healthy Annuitant Mortality, projected to 2039 using MP-2016 (blended 35% Male / 65% Female)
 Administrative expenses: Rates have been loaded by 3.4% to account for expected administrative expenses allocated to the members.



**SANTA BARBARA COUNTY EMPLOYEES' RETIREMENT SYSTEM
ACTUARIAL VALUATION REPORT AS OF JUNE 30, 2018 - ADDENDUM**

SECTION III – EMPLOYEE CONTRIBUTION RATES WITH COST-SHARING

Unrepresented Managers (incl CEO) (35,40,41,42,43) Effective July 1, 2019												
Entry Age	Plan 5A			Plan 5B			Plan 5C			Plan 7		
	Basic	Cost-Sharing	Total	Basic	Cost-Sharing	Total	Basic	Cost-Sharing	Total	Basic	Cost-Sharing	Total
16	2.93%	1.66%	4.59%	5.86%	1.66%	7.52%	2.84%	1.66%	4.50%	2.36%	1.66%	4.02%
17	2.93%	1.66%	4.59%	5.86%	1.66%	7.52%	2.84%	1.66%	4.50%	2.36%	1.66%	4.02%
18	2.93%	1.66%	4.59%	5.86%	1.66%	7.52%	2.84%	1.66%	4.50%	2.36%	1.66%	4.02%
19	2.93%	1.66%	4.59%	5.86%	1.66%	7.52%	2.84%	1.66%	4.50%	2.36%	1.66%	4.02%
20	2.93%	1.66%	4.59%	5.86%	1.66%	7.52%	2.84%	1.66%	4.50%	2.36%	1.66%	4.02%
21	2.99%	1.66%	4.65%	5.99%	1.66%	7.65%	2.90%	1.66%	4.56%	2.42%	1.66%	4.08%
22	3.06%	1.66%	4.72%	6.12%	1.66%	7.78%	2.97%	1.66%	4.63%	2.47%	1.66%	4.13%
23	3.13%	1.66%	4.79%	6.26%	1.66%	7.92%	3.03%	1.66%	4.69%	2.53%	1.66%	4.19%
24	3.20%	1.66%	4.86%	6.40%	1.66%	8.06%	3.10%	1.66%	4.76%	2.58%	1.66%	4.24%
25	3.27%	1.66%	4.93%	6.55%	1.66%	8.21%	3.17%	1.66%	4.83%	2.64%	1.66%	4.30%
26	3.35%	1.66%	5.01%	6.69%	1.66%	8.35%	3.24%	1.66%	4.90%	2.70%	1.66%	4.36%
27	3.42%	1.66%	5.08%	6.84%	1.66%	8.50%	3.32%	1.66%	4.98%	2.76%	1.66%	4.42%
28	3.50%	1.66%	5.16%	7.00%	1.66%	8.66%	3.39%	1.66%	5.05%	2.82%	1.66%	4.48%
29	3.58%	1.66%	5.24%	7.15%	1.66%	8.81%	3.47%	1.66%	5.13%	2.89%	1.66%	4.55%
30	3.66%	1.66%	5.32%	7.31%	1.66%	8.97%	3.54%	1.66%	5.20%	2.95%	1.66%	4.61%
31	3.74%	1.66%	5.40%	7.48%	1.66%	9.14%	3.62%	1.66%	5.28%	3.02%	1.66%	4.68%
32	3.82%	1.66%	5.48%	7.64%	1.66%	9.30%	3.70%	1.66%	5.36%	3.08%	1.66%	4.74%
33	3.90%	1.66%	5.56%	7.81%	1.66%	9.47%	3.78%	1.66%	5.44%	3.15%	1.66%	4.81%
34	3.99%	1.66%	5.65%	7.98%	1.66%	9.64%	3.86%	1.66%	5.52%	3.22%	1.66%	4.88%
35	4.07%	1.66%	5.73%	8.15%	1.66%	9.81%	3.94%	1.66%	5.60%	3.28%	1.66%	4.94%
36	4.16%	1.66%	5.82%	8.32%	1.66%	9.98%	4.02%	1.66%	5.68%	3.35%	1.66%	5.01%
37	4.25%	1.66%	5.91%	8.49%	1.66%	10.15%	4.11%	1.66%	5.77%	3.42%	1.66%	5.08%
38	4.34%	1.66%	6.00%	8.67%	1.66%	10.33%	4.19%	1.66%	5.85%	3.49%	1.66%	5.15%
39	4.43%	1.66%	6.09%	8.85%	1.66%	10.51%	4.28%	1.66%	5.94%	3.57%	1.66%	5.23%
40	4.52%	1.66%	6.18%	9.03%	1.66%	10.69%	4.37%	1.66%	6.03%	3.64%	1.66%	5.30%
41	4.61%	1.66%	6.27%	9.22%	1.66%	10.88%	4.46%	1.66%	6.12%	3.71%	1.66%	5.37%
42	4.70%	1.66%	6.36%	9.41%	1.66%	11.07%	4.54%	1.66%	6.20%	3.79%	1.66%	5.45%
43	4.80%	1.66%	6.46%	9.60%	1.66%	11.26%	4.63%	1.66%	6.29%	3.86%	1.66%	5.52%
44	4.89%	1.66%	6.55%	9.79%	1.66%	11.45%	4.72%	1.66%	6.38%	3.94%	1.66%	5.60%
45	4.99%	1.66%	6.65%	9.98%	1.66%	11.64%	4.82%	1.66%	6.48%	4.01%	1.66%	5.67%
46	5.09%	1.66%	6.75%	10.18%	1.66%	11.84%	4.91%	1.66%	6.57%	4.09%	1.66%	5.75%
47	5.19%	1.66%	6.85%	10.37%	1.66%	12.03%	5.00%	1.66%	6.66%	4.17%	1.66%	5.83%
48	5.28%	1.66%	6.94%	10.57%	1.66%	12.23%	5.09%	1.66%	6.75%	4.24%	1.66%	5.90%
49	5.38%	1.66%	7.04%	10.77%	1.66%	12.43%	5.19%	1.66%	6.85%	4.32%	1.66%	5.98%
50	5.49%	1.66%	7.15%	10.98%	1.66%	12.64%	5.28%	1.66%	6.94%	4.40%	1.66%	6.06%
51	5.59%	1.66%	7.25%	11.19%	1.66%	12.85%	5.38%	1.66%	7.04%	4.48%	1.66%	6.14%
52	5.70%	1.66%	7.36%	11.40%	1.66%	13.06%	5.46%	1.66%	7.12%	4.55%	1.66%	6.21%
53	5.80%	1.66%	7.46%	11.60%	1.66%	13.26%	5.54%	1.66%	7.20%	4.62%	1.66%	6.28%
54	5.90%	1.66%	7.56%	11.79%	1.66%	13.45%	5.61%	1.66%	7.27%	4.67%	1.66%	6.33%
55	5.97%	1.66%	7.63%	11.95%	1.66%	13.61%	5.65%	1.66%	7.31%	4.71%	1.66%	6.37%
56	6.04%	1.66%	7.70%	12.07%	1.66%	13.73%	5.67%	1.66%	7.33%	4.73%	1.66%	6.39%
57	6.07%	1.66%	7.73%	12.14%	1.66%	13.80%	5.67%	1.66%	7.33%	4.73%	1.66%	6.39%
58	6.07%	1.66%	7.73%	12.15%	1.66%	13.81%	5.85%	1.66%	7.51%	4.88%	1.66%	6.54%
59	6.07%	1.66%	7.73%	12.15%	1.66%	13.81%	6.05%	1.66%	7.71%	5.04%	1.66%	6.70%
60	6.07%	1.66%	7.73%	12.15%	1.66%	13.81%	6.05%	1.66%	7.71%	5.04%	1.66%	6.70%

Members do not pay COLA contributions

Assumptions:

Interest: 7.00%
 Salary: 2016 Valuation Scale (Service based, includes wage inflation at 3.00%)
 Unisex Mortality: CalPERS Healthy Annuitant Mortality, projected to 2039 using MP-2016 (blended 35% Male / 65% Female)
 Administrative expenses: Rates have been loaded by 3.4% to account for expected administrative expenses allocated to the members.



**SANTA BARBARA COUNTY EMPLOYEES' RETIREMENT SYSTEM
ACTUARIAL VALUATION REPORT AS OF JUNE 30, 2018 - ADDENDUM**

SECTION III – EMPLOYEE CONTRIBUTION RATES WITH COST-SHARING

Unrepresented Managers Safety (35,40,41,42,43)									
Effective September 10, 2018									
Entry Age	Plan 4A & 6A			Plan 4B			Plan 4C & 6B		
	Basic	Cost Sharing	Total	Basic	Cost Sharing	Total	Basic	Cost Sharing	Total
16	5.41%	0.83%	6.24%	10.83%	0.83%	11.66%	5.23%	0.83%	6.06%
17	5.41%	0.83%	6.24%	10.83%	0.83%	11.66%	5.23%	0.83%	6.06%
18	5.41%	0.83%	6.24%	10.83%	0.83%	11.66%	5.23%	0.83%	6.06%
19	5.41%	0.83%	6.24%	10.83%	0.83%	11.66%	5.23%	0.83%	6.06%
20	5.41%	0.83%	6.24%	10.83%	0.83%	11.66%	5.23%	0.83%	6.06%
21	5.53%	0.83%	6.36%	11.05%	0.83%	11.88%	5.34%	0.83%	6.17%
22	5.64%	0.83%	6.47%	11.28%	0.83%	12.11%	5.45%	0.83%	6.28%
23	5.76%	0.83%	6.59%	11.52%	0.83%	12.35%	5.56%	0.83%	6.39%
24	5.88%	0.83%	6.71%	11.76%	0.83%	12.59%	5.68%	0.83%	6.51%
25	6.00%	0.83%	6.83%	12.00%	0.83%	12.83%	5.80%	0.83%	6.63%
26	6.12%	0.83%	6.95%	12.25%	0.83%	13.08%	5.92%	0.83%	6.75%
27	6.25%	0.83%	7.08%	12.50%	0.83%	13.33%	6.03%	0.83%	6.86%
28	6.38%	0.83%	7.21%	12.75%	0.83%	13.58%	6.16%	0.83%	6.99%
29	6.50%	0.83%	7.33%	13.01%	0.83%	13.84%	6.28%	0.83%	7.11%
30	6.63%	0.83%	7.46%	13.26%	0.83%	14.09%	6.40%	0.83%	7.23%
31	6.76%	0.83%	7.59%	13.52%	0.83%	14.35%	6.52%	0.83%	7.35%
32	6.89%	0.83%	7.72%	13.78%	0.83%	14.61%	6.65%	0.83%	7.48%
33	7.02%	0.83%	7.85%	14.05%	0.83%	14.88%	6.77%	0.83%	7.60%
34	7.16%	0.83%	7.99%	14.31%	0.83%	15.14%	6.90%	0.83%	7.73%
35	7.29%	0.83%	8.12%	14.58%	0.83%	15.41%	7.03%	0.83%	7.86%
36	7.43%	0.83%	8.26%	14.86%	0.83%	15.69%	7.16%	0.83%	7.99%
37	7.57%	0.83%	8.40%	15.13%	0.83%	15.96%	7.29%	0.83%	8.12%
38	7.70%	0.83%	8.53%	15.41%	0.83%	16.24%	7.42%	0.83%	8.25%
39	7.85%	0.83%	8.68%	15.69%	0.83%	16.52%	7.56%	0.83%	8.39%
40	7.99%	0.83%	8.82%	15.98%	0.83%	16.81%	7.69%	0.83%	8.52%
41	8.14%	0.83%	8.97%	16.28%	0.83%	17.11%	7.83%	0.83%	8.66%
42	8.29%	0.83%	9.12%	16.58%	0.83%	17.41%	7.97%	0.83%	8.80%
43	8.44%	0.83%	9.27%	16.89%	0.83%	17.72%	8.12%	0.83%	8.95%
44	8.60%	0.83%	9.43%	17.20%	0.83%	18.03%	8.26%	0.83%	9.09%
45	8.76%	0.83%	9.59%	17.52%	0.83%	18.35%	8.41%	0.83%	9.24%
46	8.92%	0.83%	9.75%	17.84%	0.83%	18.67%	8.55%	0.83%	9.38%
47	9.08%	0.83%	9.91%	18.17%	0.83%	19.00%	8.68%	0.83%	9.51%
48	9.24%	0.83%	10.07%	18.47%	0.83%	19.30%	8.79%	0.83%	9.62%
49	9.37%	0.83%	10.20%	18.75%	0.83%	19.58%	8.87%	0.83%	9.70%
50	9.48%	0.83%	10.31%	18.97%	0.83%	19.80%	8.91%	0.83%	9.74%
51	9.55%	0.83%	10.38%	19.10%	0.83%	19.93%	8.91%	0.83%	9.74%
52	9.58%	0.83%	10.41%	19.15%	0.83%	19.98%	8.91%	0.83%	9.74%
53	9.58%	0.83%	10.41%	19.15%	0.83%	19.98%	9.14%	0.83%	9.97%
54	9.58%	0.83%	10.41%	19.15%	0.83%	19.98%	9.45%	0.83%	10.28%
55	9.58%	0.83%	10.41%	19.15%	0.83%	19.98%	9.45%	0.83%	10.28%
56	9.58%	0.83%	10.41%	19.15%	0.83%	19.98%	9.45%	0.83%	10.28%
57	9.58%	0.83%	10.41%	19.15%	0.83%	19.98%	9.45%	0.83%	10.28%
58	9.58%	0.83%	10.41%	19.15%	0.83%	19.98%	9.45%	0.83%	10.28%
59	9.58%	0.83%	10.41%	19.15%	0.83%	19.98%	9.45%	0.83%	10.28%
60	9.58%	0.83%	10.41%	19.15%	0.83%	19.98%	9.45%	0.83%	10.28%

Members do not pay COLA contributions

Assumptions:
Interest: 7.00%
Salary: 2016 Valuation Scale (Service based, includes wage inflation at 3.00%)
Unisex: CalPERS Healthy Annuitant Mortality, projected to 2039 using MP-2016
Mortality: (blended 80% Male / 20% Female)
Administrative expenses: Rates have been loaded by 3.4% to account for expected administrative expenses allocated to the members.



**SANTA BARBARA COUNTY EMPLOYEES' RETIREMENT SYSTEM
ACTUARIAL VALUATION REPORT AS OF JUNE 30, 2018 - ADDENDUM**

SECTION III – EMPLOYEE CONTRIBUTION RATES WITH COST-SHARING

Fire Fighters Local 2046 (12,13), Deputy Sheriffs' Association - Safety (14,15), Probation Peace Officers (18,19) Effective September 10, 2018 Sheriffs Managers Association (44) Effective November 5, 2018									
Entry Age	Plan 4A & 6A			Plan 4B			Plan 4C & 6B		
	Basic	Cost Sharing	Total	Basic	Cost Sharing	Total	Basic	Cost Sharing	Total
16	5.41%	2.00%	7.41%	10.83%	2.00%	12.83%	5.23%	2.00%	7.23%
17	5.41%	2.00%	7.41%	10.83%	2.00%	12.83%	5.23%	2.00%	7.23%
18	5.41%	2.00%	7.41%	10.83%	2.00%	12.83%	5.23%	2.00%	7.23%
19	5.41%	2.00%	7.41%	10.83%	2.00%	12.83%	5.23%	2.00%	7.23%
20	5.41%	2.00%	7.41%	10.83%	2.00%	12.83%	5.23%	2.00%	7.23%
21	5.53%	2.00%	7.53%	11.05%	2.00%	13.05%	5.34%	2.00%	7.34%
22	5.64%	2.00%	7.64%	11.28%	2.00%	13.28%	5.45%	2.00%	7.45%
23	5.76%	2.00%	7.76%	11.52%	2.00%	13.52%	5.56%	2.00%	7.56%
24	5.88%	2.00%	7.88%	11.76%	2.00%	13.76%	5.68%	2.00%	7.68%
25	6.00%	2.00%	8.00%	12.00%	2.00%	14.00%	5.80%	2.00%	7.80%
26	6.12%	2.00%	8.12%	12.25%	2.00%	14.25%	5.92%	2.00%	7.92%
27	6.25%	2.00%	8.25%	12.50%	2.00%	14.50%	6.03%	2.00%	8.03%
28	6.38%	2.00%	8.38%	12.75%	2.00%	14.75%	6.16%	2.00%	8.16%
29	6.50%	2.00%	8.50%	13.01%	2.00%	15.01%	6.28%	2.00%	8.28%
30	6.63%	2.00%	8.63%	13.26%	2.00%	15.26%	6.40%	2.00%	8.40%
31	6.76%	2.00%	8.76%	13.52%	2.00%	15.52%	6.52%	2.00%	8.52%
32	6.89%	2.00%	8.89%	13.78%	2.00%	15.78%	6.65%	2.00%	8.65%
33	7.02%	2.00%	9.02%	14.05%	2.00%	16.05%	6.77%	2.00%	8.77%
34	7.16%	2.00%	9.16%	14.31%	2.00%	16.31%	6.90%	2.00%	8.90%
35	7.29%	2.00%	9.29%	14.58%	2.00%	16.58%	7.03%	2.00%	9.03%
36	7.43%	2.00%	9.43%	14.86%	2.00%	16.86%	7.16%	2.00%	9.16%
37	7.57%	2.00%	9.57%	15.13%	2.00%	17.13%	7.29%	2.00%	9.29%
38	7.70%	2.00%	9.70%	15.41%	2.00%	17.41%	7.42%	2.00%	9.42%
39	7.85%	2.00%	9.85%	15.69%	2.00%	17.69%	7.56%	2.00%	9.56%
40	7.99%	2.00%	9.99%	15.98%	2.00%	17.98%	7.69%	2.00%	9.69%
41	8.14%	2.00%	10.14%	16.28%	2.00%	18.28%	7.83%	2.00%	9.83%
42	8.29%	2.00%	10.29%	16.58%	2.00%	18.58%	7.97%	2.00%	9.97%
43	8.44%	2.00%	10.44%	16.89%	2.00%	18.89%	8.12%	2.00%	10.12%
44	8.60%	2.00%	10.60%	17.20%	2.00%	19.20%	8.26%	2.00%	10.26%
45	8.76%	2.00%	10.76%	17.52%	2.00%	19.52%	8.41%	2.00%	10.41%
46	8.92%	2.00%	10.92%	17.84%	2.00%	19.84%	8.55%	2.00%	10.55%
47	9.08%	2.00%	11.08%	18.17%	2.00%	20.17%	8.68%	2.00%	10.68%
48	9.24%	2.00%	11.24%	18.47%	2.00%	20.47%	8.79%	2.00%	10.79%
49	9.37%	2.00%	11.37%	18.75%	2.00%	20.75%	8.87%	2.00%	10.87%
50	9.48%	2.00%	11.48%	18.97%	2.00%	20.97%	8.91%	2.00%	10.91%
51	9.55%	2.00%	11.55%	19.10%	2.00%	21.10%	8.91%	2.00%	10.91%
52	9.58%	2.00%	11.58%	19.15%	2.00%	21.15%	8.91%	2.00%	10.91%
53	9.58%	2.00%	11.58%	19.15%	2.00%	21.15%	9.14%	2.00%	11.14%
54	9.58%	2.00%	11.58%	19.15%	2.00%	21.15%	9.45%	2.00%	11.45%
55	9.58%	2.00%	11.58%	19.15%	2.00%	21.15%	9.45%	2.00%	11.45%
56	9.58%	2.00%	11.58%	19.15%	2.00%	21.15%	9.45%	2.00%	11.45%
57	9.58%	2.00%	11.58%	19.15%	2.00%	21.15%	9.45%	2.00%	11.45%
58	9.58%	2.00%	11.58%	19.15%	2.00%	21.15%	9.45%	2.00%	11.45%
59	9.58%	2.00%	11.58%	19.15%	2.00%	21.15%	9.45%	2.00%	11.45%
60	9.58%	2.00%	11.58%	19.15%	2.00%	21.15%	9.45%	2.00%	11.45%

Members do not pay COLA contributions

Assumptions:

Interest: 7.00%
Salary: 2016 Valuation Scale (Service based, includes wage inflation at 3.00%)
Unisex: CalPERS Healthy Annuitant Mortality, projected to 2039 using MP-2016
Mortality: (blended 80% Male / 20% Female)
Administrative expenses: Rates have been loaded by 3.4% to account for expected administrative expenses allocated to the members.

**SANTA BARBARA COUNTY EMPLOYEES' RETIREMENT SYSTEM
ACTUARIAL VALUATION REPORT AS OF JUNE 30, 2018 - ADDENDUM**

SECTION III – EMPLOYEE CONTRIBUTION RATES WITH COST-SHARING

Fire Fighters Local 2046 (12,13), Deputy Sheriffs' Association - Safety (14,15) Probation Peace Officers (18,19), Sheriffs Managers Association (44) Effective July 1, 2019									
Entry Age	Plan 4A & 6A			Plan 4B			Plan 4C & 6B		
	Basic	Cost Sharing	Total	Basic	Cost Sharing	Total	Basic	Cost Sharing	Total
16	5.41%	4.00%	9.41%	10.83%	4.00%	14.83%	5.23%	4.00%	9.23%
17	5.41%	4.00%	9.41%	10.83%	4.00%	14.83%	5.23%	4.00%	9.23%
18	5.41%	4.00%	9.41%	10.83%	4.00%	14.83%	5.23%	4.00%	9.23%
19	5.41%	4.00%	9.41%	10.83%	4.00%	14.83%	5.23%	4.00%	9.23%
20	5.41%	4.00%	9.41%	10.83%	4.00%	14.83%	5.23%	4.00%	9.23%
21	5.53%	4.00%	9.53%	11.05%	4.00%	15.05%	5.34%	4.00%	9.34%
22	5.64%	4.00%	9.64%	11.28%	4.00%	15.28%	5.45%	4.00%	9.45%
23	5.76%	4.00%	9.76%	11.52%	4.00%	15.52%	5.56%	4.00%	9.56%
24	5.88%	4.00%	9.88%	11.76%	4.00%	15.76%	5.68%	4.00%	9.68%
25	6.00%	4.00%	10.00%	12.00%	4.00%	16.00%	5.80%	4.00%	9.80%
26	6.12%	4.00%	10.12%	12.25%	4.00%	16.25%	5.92%	4.00%	9.92%
27	6.25%	4.00%	10.25%	12.50%	4.00%	16.50%	6.03%	4.00%	10.03%
28	6.38%	4.00%	10.38%	12.75%	4.00%	16.75%	6.16%	4.00%	10.16%
29	6.50%	4.00%	10.50%	13.01%	4.00%	17.01%	6.28%	4.00%	10.28%
30	6.63%	4.00%	10.63%	13.26%	4.00%	17.26%	6.40%	4.00%	10.40%
31	6.76%	4.00%	10.76%	13.52%	4.00%	17.52%	6.52%	4.00%	10.52%
32	6.89%	4.00%	10.89%	13.78%	4.00%	17.78%	6.65%	4.00%	10.65%
33	7.02%	4.00%	11.02%	14.05%	4.00%	18.05%	6.77%	4.00%	10.77%
34	7.16%	4.00%	11.16%	14.31%	4.00%	18.31%	6.90%	4.00%	10.90%
35	7.29%	4.00%	11.29%	14.58%	4.00%	18.58%	7.03%	4.00%	11.03%
36	7.43%	4.00%	11.43%	14.86%	4.00%	18.86%	7.16%	4.00%	11.16%
37	7.57%	4.00%	11.57%	15.13%	4.00%	19.13%	7.29%	4.00%	11.29%
38	7.70%	4.00%	11.70%	15.41%	4.00%	19.41%	7.42%	4.00%	11.42%
39	7.85%	4.00%	11.85%	15.69%	4.00%	19.69%	7.56%	4.00%	11.56%
40	7.99%	4.00%	11.99%	15.98%	4.00%	19.98%	7.69%	4.00%	11.69%
41	8.14%	4.00%	12.14%	16.28%	4.00%	20.28%	7.83%	4.00%	11.83%
42	8.29%	4.00%	12.29%	16.58%	4.00%	20.58%	7.97%	4.00%	11.97%
43	8.44%	4.00%	12.44%	16.89%	4.00%	20.89%	8.12%	4.00%	12.12%
44	8.60%	4.00%	12.60%	17.20%	4.00%	21.20%	8.26%	4.00%	12.26%
45	8.76%	4.00%	12.76%	17.52%	4.00%	21.52%	8.41%	4.00%	12.41%
46	8.92%	4.00%	12.92%	17.84%	4.00%	21.84%	8.55%	4.00%	12.55%
47	9.08%	4.00%	13.08%	18.17%	4.00%	22.17%	8.68%	4.00%	12.68%
48	9.24%	4.00%	13.24%	18.47%	4.00%	22.47%	8.79%	4.00%	12.79%
49	9.37%	4.00%	13.37%	18.75%	4.00%	22.75%	8.87%	4.00%	12.87%
50	9.48%	4.00%	13.48%	18.97%	4.00%	22.97%	8.91%	4.00%	12.91%
51	9.55%	4.00%	13.55%	19.10%	4.00%	23.10%	8.91%	4.00%	12.91%
52	9.58%	4.00%	13.58%	19.15%	4.00%	23.15%	8.91%	4.00%	12.91%
53	9.58%	4.00%	13.58%	19.15%	4.00%	23.15%	9.14%	4.00%	13.14%
54	9.58%	4.00%	13.58%	19.15%	4.00%	23.15%	9.45%	4.00%	13.45%
55	9.58%	4.00%	13.58%	19.15%	4.00%	23.15%	9.45%	4.00%	13.45%
56	9.58%	4.00%	13.58%	19.15%	4.00%	23.15%	9.45%	4.00%	13.45%
57	9.58%	4.00%	13.58%	19.15%	4.00%	23.15%	9.45%	4.00%	13.45%
58	9.58%	4.00%	13.58%	19.15%	4.00%	23.15%	9.45%	4.00%	13.45%
59	9.58%	4.00%	13.58%	19.15%	4.00%	23.15%	9.45%	4.00%	13.45%
60	9.58%	4.00%	13.58%	19.15%	4.00%	23.15%	9.45%	4.00%	13.45%

Members do not pay COLA contributions

Assumptions:

Interest: 7.00%

Salary: 2016 Valuation Scale (Service based, includes wage inflation at 3.00%)

Unisex CalPERS Healthy Annuitant Mortality, projected to 2039 using MP-2016

Mortality: (blended 80% Male / 20% Female)

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