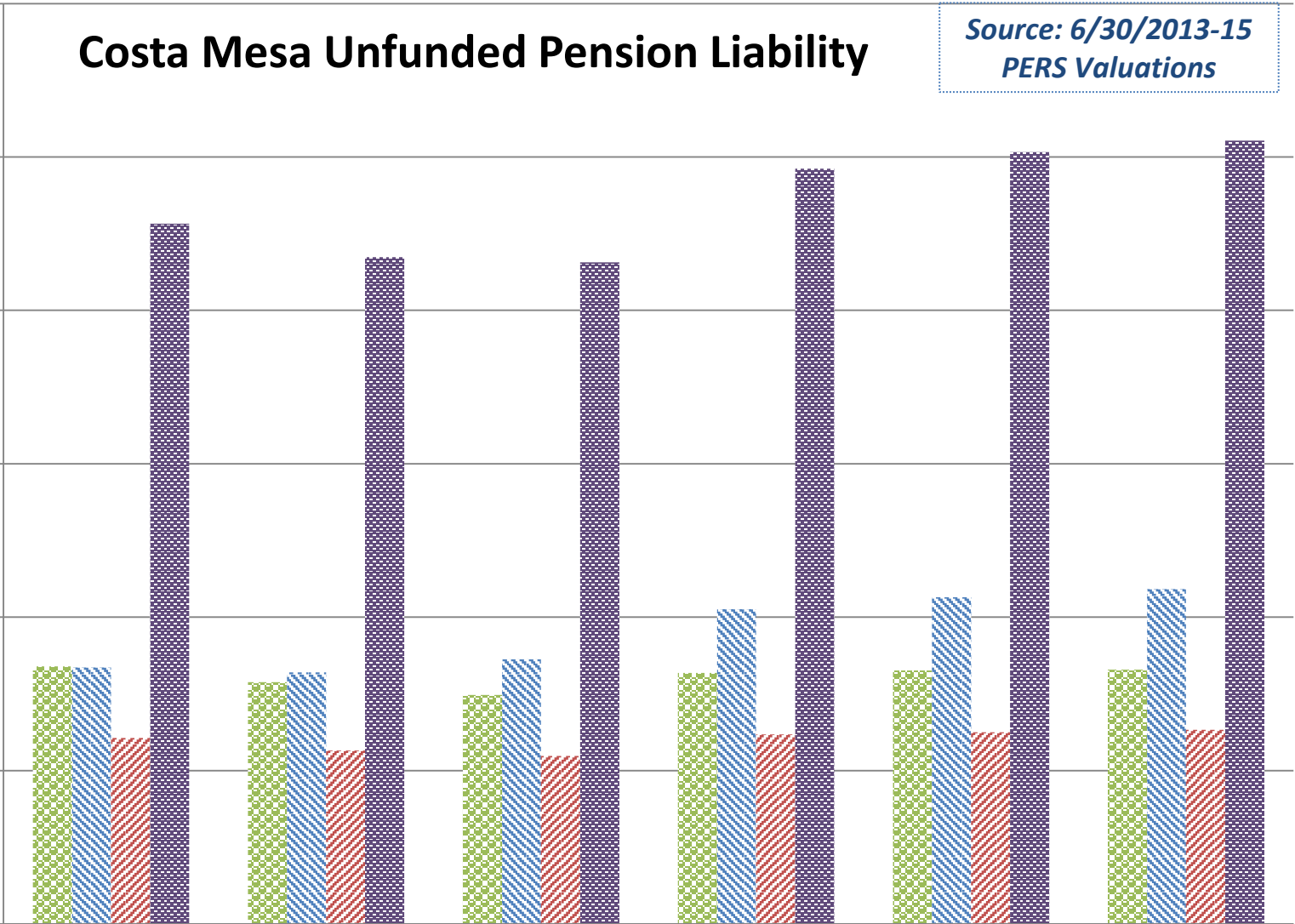


Costa Mesa Unfunded Pension Liability

Source: 6/30/2013-15
PERS Valuations

\$300,000,000
\$250,000,000
\$200,000,000
\$150,000,000
\$100,000,000
\$50,000,000
\$0

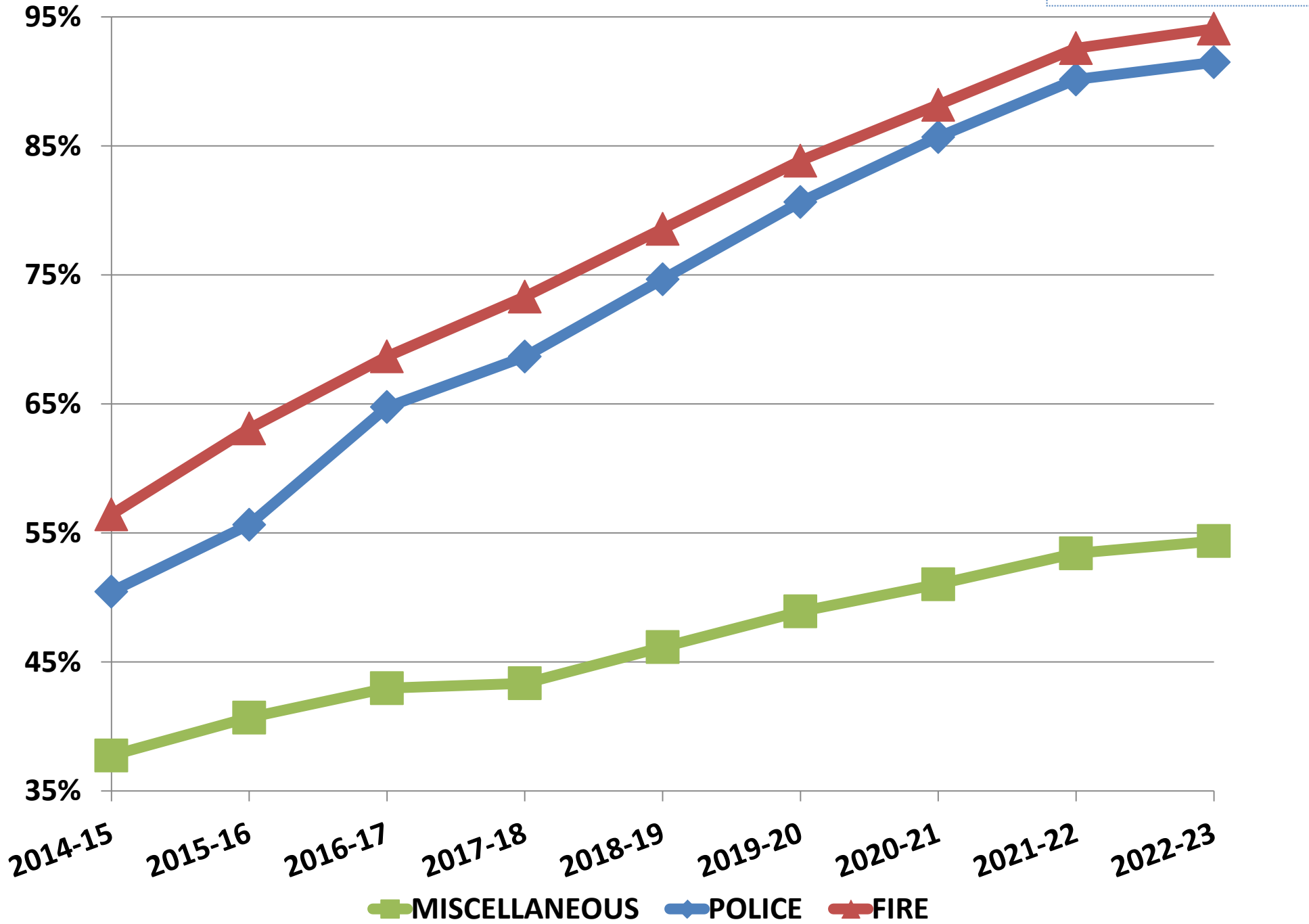


	6/30/12	6/30/13	6/30/14	6/30/15	6/30/16 Fcst	6/30/17 Fcst
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MISCELLANEOUS	83,960,536	78,789,261	74,624,126	81,800,811	82,670,117	82,939,980
POLICE	83,627,245	82,006,287	86,296,243	102,609,096	106,475,201	109,142,412
FIRE	60,650,648	56,521,995	54,747,581	61,771,169	62,452,579	63,268,278
TOTAL	228,238,429	217,317,543	215,667,950	246,181,076	251,597,897	255,350,670

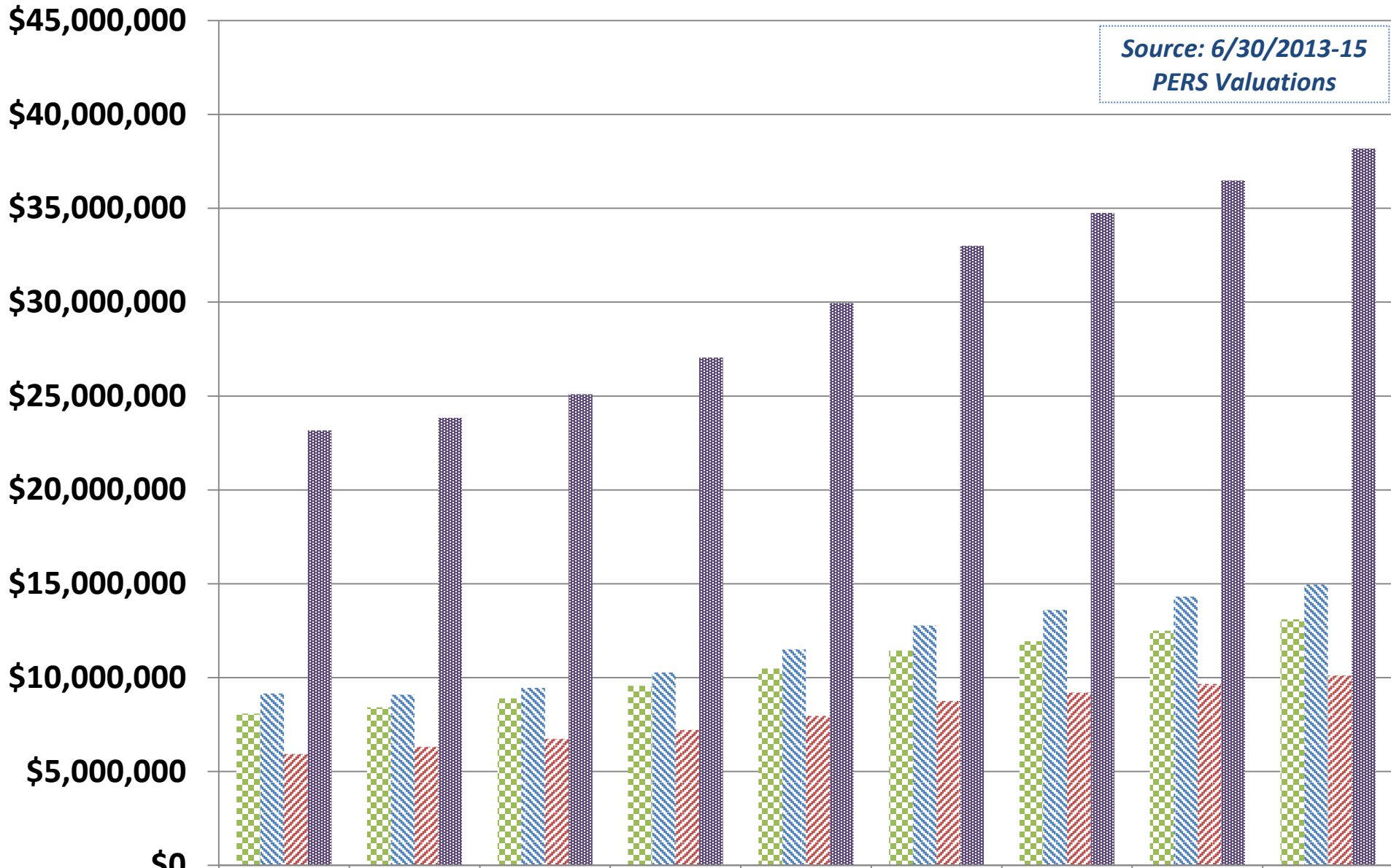
Costa Mesa's TOTAL PERS Contribution Rates

Source: 6/30/2013-15
PERS Valuations



Costa Mesa TOTAL PERS Contributions

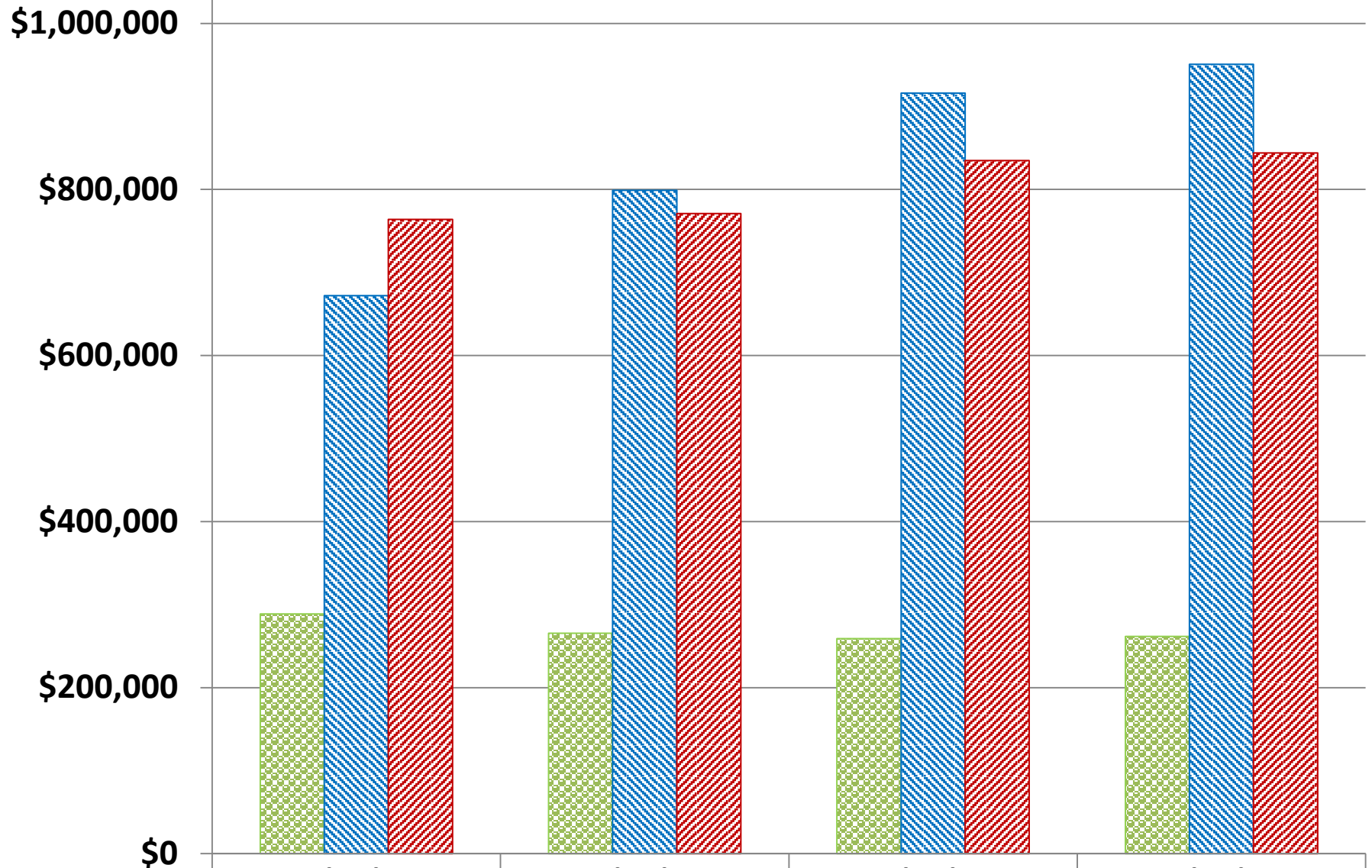
*Source: 6/30/2013-15
PERS Valuations*



	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23
MISCELLANEOUS	8,086,890	8,421,588	8,895,458	9,561,943	10,484,116	11,447,637	11,939,285	12,501,260	13,105,461
POLICE	9,149,335	9,096,369	9,454,307	10,275,155	11,507,511	12,804,083	13,603,353	14,311,392	14,959,199
FIRE	5,933,483	6,323,413	6,740,811	7,214,994	7,965,136	8,755,670	9,207,591	9,665,502	10,117,750
TOTAL	23,169,708	23,841,370	25,090,576	27,052,092	29,956,763	33,007,390	34,750,229	36,478,154	38,182,410

Costa Mesa Unfunded Pension Liability per Active Employee

*Source: 6/30/2013-15
PERS Valuations*



MISCELLANEOUS

288,605

265,566

258,863

261,614

POLICE

672,183

799,039

916,153

950,671

FIRE

763,811

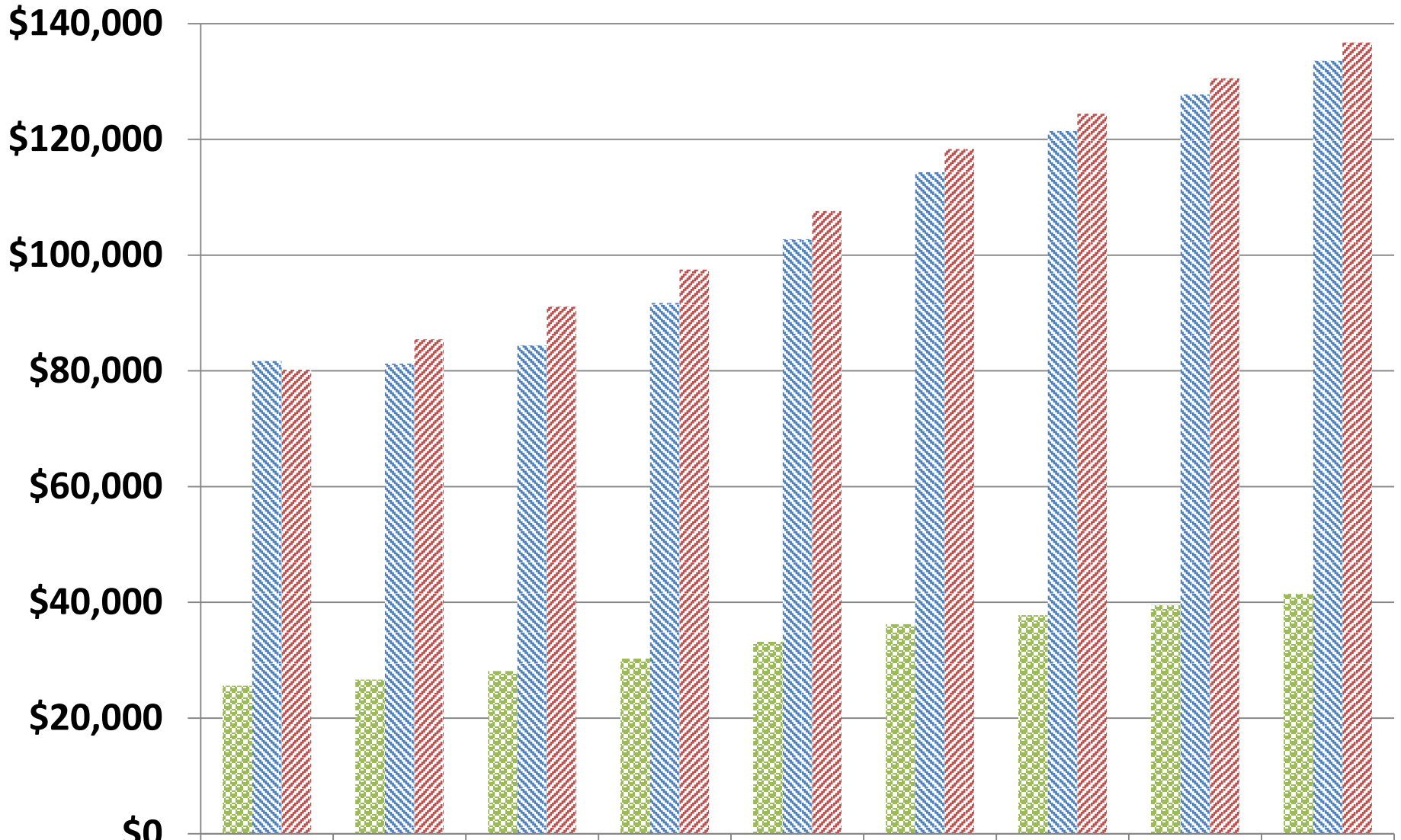
771,093

834,746

843,954

Costa Mesa - Total Annual PERS Contributions per Active Employee

*Source: 6/30/2013-15
PERS Valuations*



	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23
MISCELLANEOUS	25,591	26,651	28,150	30,259	33,178	36,227	37,783	39,561	41,473
POLICE	81,690	81,218	84,413	91,742	102,746	114,322	121,459	127,780	133,564
FIRE	80,182	85,452	91,092	97,500	107,637	118,320	124,427	130,615	136,726

**Costa Mesa PERS projections
Valuations as of June 30, 2013-2015**

Note: PERS Valuations assume "PERL Standard" Employee contributions

	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23
<u>Miscellaneous</u>									
Total Normal Cost	16.990%	16.864%	16.892%	16.263%	16.286%	16.286%	16.286%	16.286%	16.286%
Total Unfunded Cost	20.766%	23.827%	26.081%	27.088%	29.862%	32.635%	34.736%	37.138%	38.089%
TOTAL RATE	37.756%	40.691%	42.973%	43.351%	46.148%	48.921%	51.022%	53.424%	54.375%
Projected Misc REC %			9.150%	8.677%	8.700%	8.700%	8.700%	8.700%	8.700%
Employee PERL%			7.742%	7.586%	7.586%	7.586%	7.586%	7.586%	7.586%
Projected Misc UAL \$			5,398,821	5,974,842	6,784,177	7,636,700	8,128,348	8,690,323	9,180,196
Calculated Misc UAL %			26.081%	27.088%	29.862%	32.635%	34.736%	37.138%	38.089%
<u>Police</u>									
Total Normal Cost	28.928%	28.806%	30.447%	29.453%	29.456%	29.456%	29.456%	29.456%	29.456%
Total Unfunded Cost	21.528%	26.835%	34.316%	39.217%	45.210%	51.203%	56.238%	60.699%	62.035%
TOTAL RATE	50.456%	55.641%	64.763%	68.670%	74.666%	80.659%	85.694%	90.155%	91.491%
Projected Police REC %			21.295%	20.197%	20.200%	20.200%	20.200%	20.200%	20.200%
Employee PERL%			9.152%	9.256%	9.256%	9.256%	9.256%	9.256%	9.256%
Projected Police UAL \$			5,009,530	5,868,102	6,967,784	8,128,165	8,927,435	9,635,474	10,143,003
Calculated Police UAL %			34.316%	39.217%	45.210%	51.203%	56.238%	60.699%	62.035%
<u>Fire</u>									
Total Normal Cost	29.113%	29.216%	30.217%	30.406%	30.388%	30.388%	30.388%	30.388%	30.388%
Total Unfunded Cost	27.324%	33.884%	38.472%	42.909%	48.192%	53.476%	57.804%	62.190%	63.699%
TOTAL RATE	56.437%	63.100%	68.689%	73.315%	78.580%	83.864%	88.192%	92.578%	94.087%
Projected Fire REC %	20.128%	20.230%	21.230%	21.418%	21.400%	21.400%	21.400%	21.400%	21.400%
Employee PERL%	8.985%	8.986%	8.987%	8.988%	8.988%	8.988%	8.988%	8.988%	8.988%
Projected Fire UAL \$	2,872,678	3,395,605	3,775,459	4,222,722	4,884,920	5,583,048	6,034,969	6,492,880	6,849,949
Calculated Fire UAL %	27.324%	33.884%	38.472%	42.909%	48.192%	53.476%	57.804%	62.190%	63.699%
<u>Total Rates</u>									
MISCELLANEOUS	37.756%	40.691%	42.973%	43.351%	46.148%	48.921%	51.022%	53.424%	54.375%
POLICE	50.456%	55.641%	64.763%	68.670%	74.666%	80.659%	85.694%	90.155%	91.491%
FIRE	56.437%	63.100%	68.689%	73.315%	78.580%	83.864%	88.192%	92.578%	94.087%

**Costa Mesa PERS projections
Valuations as of June 30, 2013-2015**

Note: PERS Valuations assume "PERL Standard" Employee contributions

<u>Payroll Bases</u>	Payroll Growth:				3.0%	3.0%	3.0%	3.0%	3.0%
Miscellaneous	21,418,822	20,696,438	20,699,956	22,056,821	22,718,526	23,400,082	23,400,082	23,400,082	24,102,084
Police	18,133,294	16,348,321	14,598,407	14,963,001	15,411,891	15,874,248	15,874,248	15,874,248	16,350,475
Fire	10,513,535	10,021,248	9,813,523	9,841,057	10,136,289	10,440,378	10,440,378	10,440,378	10,753,589
TOTAL	50,065,651	47,066,007	45,111,886	46,860,879	48,266,706	49,714,708	49,714,708	49,714,708	51,206,148

<u>Total Contributions</u>	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23
MISCELLANEOUS	8,086,890	8,421,588	8,895,458	9,561,943	10,484,116	11,447,637	11,939,285	12,501,260	13,105,461
POLICE	9,149,335	9,096,369	9,454,307	10,275,155	11,507,511	12,804,083	13,603,353	14,311,392	14,959,199
FIRE	5,933,483	6,323,413	6,740,811	7,214,994	7,965,136	8,755,670	9,207,591	9,665,502	10,117,750
TOTAL	23,169,708	23,841,370	25,090,576	27,052,092	29,956,763	33,007,390	34,750,229	36,478,154	38,182,410

<u>Unfunded Liability</u>	6/30/12	6/30/13	6/30/14	6/30/15	6/30/16 Fcst	6/30/17 Fcst	6/15 PEPRA	6/15 2nd Tier
MISCELLANEOUS	83,960,536	78,789,261	74,624,126	81,800,811	82,670,117	82,939,980	N/A	N/A
POLICE	83,627,245	82,006,287	86,296,243	102,609,096	106,475,201	109,142,412	N/A	N/A
FIRE	60,650,648	56,521,995	54,747,581	61,771,169	62,452,579	63,268,278	247	5,944
TOTAL	228,238,429	217,317,543	215,667,950	246,181,076	251,597,897	255,350,670	247	5,944

<u>Active Employees</u>	6/30/13	6/30/14	6/30/15	6/15 PEPRA	6/15 2nd Tier
MISCELLANEOUS	273	281	316	N/A	N/A
POLICE	122	108	112	N/A	N/A
FIRE	74	71	74	2	2
TOTAL	469	460	502	2	2

<u>UL per Active Employee</u>	6/30/13	6/30/14	6/30/15	6/30/16	6/30/17
MISCELLANEOUS	288,605	265,566	258,863	261,614	262,468
POLICE	672,183	799,039	916,153	950,671	974,486
FIRE	763,811	771,093	834,746	843,954	854,977

<u>Total Contributions per Active Employee</u>	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2021-22
MISCELLANEOUS	25,591	26,651	28,150	30,259	33,178	36,227	37,783	39,561	41,473
POLICE	81,690	81,218	84,413	91,742	102,746	114,322	121,459	127,780	133,564
FIRE	80,182	85,452	91,092	97,500	107,637	118,320	124,427	130,615	136,726
TOTAL	187,464	193,320	203,656	219,502	243,560	268,869	283,668	297,956	311,764
WEIGHTED AVERAGE	48,798	50,123	52,717	56,862	63,023	69,494	73,220	76,876	80,458