

Marin County Employees' Retirement Association

Actuarial Valuation Report as of June 30, 2016

Produced by Cheiron

March 2017

TABLE OF CONTENTS

<u>Section</u>	Page	2
Letter of Tran	smittali	
Section I	Executive Summary1	
Section II	Assets15	
Section III	Liabilities	
Section IV	Contributions	
<u>Appendices</u>		
Appendix A	Membership Information	
Appendix B	Statement of Current Actuarial Assumptions and Methods76	
Appendix C	Summary of Plan Provisions	
Appendix D	Glossary	
Appendix E	Member Contribution Rates	







March 1, 2017

Board of Retirement Marin County Employees' Retirement Association 1 McInnis Parkway, Suite 100 San Rafael, CA 94903-2764

Dear Members of the Board:

At your request, we have conducted an actuarial valuation of the Marin County Employees' Retirement Association (MCERA, the Plan) as of June 30, 2016. The purpose of this report is to present the results of the annual actuarial valuation of MCERA, including information on the Plan's assets and liabilities and the development of employer and employee contribution rates for the fiscal year beginning July 1, 2017.

This report was prepared for MCERA for the purposes described herein and for the use by the plan auditor in completing an audit related to the matters herein. Other users of this report are not intended users as defined in the Actuarial Standards of Practice, and Cheiron assumes no duty or liability to such other users.

In preparing our report, we relied on information supplied by the MCERA staff. This information includes, but is not limited to, plan provisions, employee data, and financial information. We performed an informal examination of the obvious characteristics of the data for reasonableness and consistency in accordance with Actuarial Standard of Practice #23.

Future results may differ significantly from the current results presented in this report due to such factors as the following: plan experience differing from that anticipated by the assumptions, changes in assumptions, and changes in plan provisions or applicable law.

To the best of our knowledge, this report and its contents have been prepared in accordance with generally recognized and accepted actuarial principles and practices which are consistent with the Code of Professional Conduct and applicable Actuarial Standards of Practice set out by the Actuarial Standards Board. Furthermore, as credentialed actuaries, we meet the Qualification Standards of the American Academy of Actuaries to render the opinion contained in this report. This report does not address any contractual or legal issues. We are not attorneys and our firm does not provide any legal services or advice.

Sincerely, Cheiron

repen

Graham A. Schmidt, ASA, EA, FCA, MAAA Consulting Actuary

Willie R. Halhack

William R. Hallmark, ASA, EA, FCA, MAAA Consulting Actuary

SECTION I – EXECUTIVE SUMMARY

The primary purpose of the actuarial valuation and this report is to measure, describe, and identify the following as of the valuation date:

- The funded status of the Plan,
- Past and expected trends in the funding progress of the Plan, and
- Employer and employee contribution rates for Plan Year 2017-2018.

In the balance of this Executive Summary, we present (A) the basis upon which this year's valuation was completed, (B) the key findings of this valuation including a summary of all key results, (C) an examination of the historical trends, and (D) the projected outlook for the Plan.

A. Valuation Basis

This valuation determines the employer contributions required for the employers' fiscal years beginning July 1, 2017. The employers are divided into three subgroups: the County of Marin and related Special Districts, the Novato Fire Protection District, and the City of San Rafael.

The Plan's funding policy is to collect contributions from the employees and employees equal to the sum of:

- The normal cost under the Entry Age Normal Cost Method,
- An amortization payment on the Unfunded Actuarial Liability (UAL), and
- The Plan's expected administrative expenses.

Effective with the June 30, 2013 valuation, the UAL as of June 30, 2013 is amortized over a closed 17-year period (14 years remaining as of June 30, 2016), except for the additional UAL attributable to the outstanding unfunded actuarial loss from 2009, which is being amortized over a separate closed period (currently 22 years).

Effective with the June 30, 2014 valuation, any new sources of UAL due to actuarial gains and losses or method changes are amortized over a closed 24-year period, with a five-year ramp up period at the beginning of the period, a four-year ramp down at the end of the period, and 15 years of level payments as a percentage of payroll between the ramping periods. This new amortization method for gains and losses is similar to a 20-year amortization period with level payments as a percentage of payroll, in conjunction with traditional five-year asset smoothing.

Assumption changes are amortized over a closed 22-year period, with a three-year ramp up period, two-year ramp down period, and 17 years of level payments as a percentage of payroll.

This valuation was prepared based on the Plan provisions shown in Appendix C. There have been no changes in assumptions or plan provisions since the prior valuation.



SECTION I – EXECUTIVE SUMMARY

Actuarial experience studies are performed every three years. This valuation was performed based on the economic and demographic assumptions and methods that were determined in the Actuarial Experience Study as of June 30, 2014. A summary of the assumptions and methods used in the current valuation is shown in Appendix B.

This valuation does not include any consideration of external liabilities (or related debt service payments) incurred by the Plan sponsors outside of MCERA, such as those related to pension obligation bonds.

Key Findings of this Valuation

Tables I-1 and I-2 below summarize the key results of the valuation with respect to assets and liabilities for the Plan as a whole, contributions by the main valuation subgroups, and overall membership. The results are presented and compared for both the current and prior plan year.

It is worth noting in the key findings that:

- Overall experience was reasonably close to that anticipated by the Plan's assumptions, reflecting typical levels of fluctuations in assets and liabilities, and there were no unexpected changes that significantly affected costs.
- As a result of lower than expected asset returns, the Plan's funded ratio, the ratio of market assets over Actuarial Liability, decreased from 83.7% last year to 81.5% as of June 30, 2016.
- However, the overall contribution rate for MCERA as a whole still declined slightly, as a result of the phase-in of prior years' actuarial gains.

Table I-1 Marin County Employees' Retirement Association Summary of Key Valuation Results (in millions)								
Valuation Date	Jun	ie 30, 2015	Jur	ne 30, 2016				
Actuarial Liability	\$	2,469.1	\$	2,575.8				
Market Value of Valuation Assets		2,066.2		2,098.7				
Unfunded Actuarial Liability	\$	402.8	\$	477.1				
Funded Ratio		83.7%		81.5%				
Net Employer Contribution Rate								
County of Marin		26.50%		26.13%				
Novato Fire Protection District		48.69%		48.06%				
City of San Rafael		60.96%		61.04%				
Total MCERA		32.22%		31.81%				



SECTION I – EXECUTIVE SUMMARY

Table I-2 Membership Total										
Item	June 30, 2015	June 30, 2016	% Change							
Actives	2,609	2,677	2.6%							
Current Inactives	653	658	0.8%							
Retired Members	2,939	3,057	<u>4.0%</u>							
Total Members	6,201	6,392	3.1%							
Ratio of Retired Members to Active Members	112.6%	114.2%								
Active Member Payroll (FYE 2016/2017)	\$ 231,589,074	\$ 244,222,469	5.5%							
Average Pay per Active	\$ 88,765	\$ 91,230	2.8%							

The key results of the June 30, 2016 actuarial valuation are as follows:

- The actuarially determined employer contribution rate decreased for the County from 26.50% to 26.13% of payroll, and Novato from 48.69% to 48.06%. The actuarially determined employer contribution rate for San Rafael increased slightly from 60.96% to 61.04%. Although the Plan experienced investment losses, the losses were offset by contribution rate decreases from the phase-in of prior gains, PEPRA new hires, and higher than expected payroll growth due to expansion in the active workforce.
- As described above, the Plan's funded ratio, the ratio of assets over Actuarial Liability, decreased from 83.7% last year to 81.5% as of June 30, 2016.
- The Unfunded Actuarial Liability (UAL) is the excess of the Plan's Actuarial Liability over the Market Value of Assets. The Plan experienced an increase in the UAL from \$402.8 to \$477.1 million. This increase in UAL was primarily due to lower than expected investment returns.
- During the year ending June 30, 2016, the return on Plan assets was 2.07% net of investment expenses, as compared to the 7.25% assumption. Our calculation of this rate of return assumes that external cash flows (i.e., benefit payments, contributions, and administrative expenses) all occur on average mid-year. The use of this simplifying assumption may result in a return that is slightly different from that provided by the investment consultant.
- Overall Plan membership and the number of active members increased compared to last year. There were 295 new hires and rehires during 2015-2016 and the total active population increased from 2,609 to 2,677. The number of members in pay status and deferred status increased from 3,592 to 3,715. Total projected payroll increased from \$231.6 million to \$244.2 million.



SECTION I – EXECUTIVE SUMMARY

Assets and Liabilities

Table I-3 below presents the assets, liabilities, Unfunded Actuarial Liability, and funding ratios as of June 30, 2016 for each of the three main subgroups.

Table I-3 Assets & Liabilities (in millions)										
Item		County		Novato	S	an Rafael				
Actuarial Liability										
Actives	\$	637.1	\$	59.1	\$	135.4				
Current Inactives		77.3		2.9		19.7				
Retired Members		1,158.0		110.3		376.0				
Total Actuarial Liability	\$	1,872.4	\$	172.3	\$	531.2				
Market Value Assets	\$	1,575.2	\$	148.4	\$	375.1				
Unfunded Actuarial Liability	\$	297.1	\$	23.9	\$	156.1				
Funded Ratio - Market Value		84.1%		86.1%		70.6%				
Inactive-Only Funded Ratio		66.0%		65.7%		74.5%				

The Inactive-Only Funded Ratio shown in Table I-3 represents the percentage of the Actuarial Liability attributable to members who are not active employees. A funded ratio of 66.0% or more, for example, is required just to fund the liabilities of the inactive County members: those currently retired, disabled, terminated with vested benefits, and their beneficiaries. We note that the funded ratio for San Rafael has fallen slightly below the Inactive-Only Funded Ratio for the current valuation.



SECTION I – EXECUTIVE SUMMARY

Changes in Employer Contributions

Table I-4 summarizes the impact of actuarial experience and other changes on the employer contribution rate.

Т	Table I-4									
Employer Contribution Reconciliation										
Item	Total	County	Novato	San Rafael						
FYE 2017 Net Employer Contribution Rate	32.22%	26.50%	48.69%	60.96%						
Expected change in amortization from prior changes	(0.26%)	(0.26%)	(1.70%)	0.12%						
Change due to asset loss	0.72%	0.65%	1.34%	0.93%						
Change due to contingency reserve drawdown	(0.11%)	(0.13%)	0.00%	0.00%						
Change due to demographic (gains)/losses	(0.03%)	(0.07%)	0.25%	0.27%						
Change due to PEPRA new hires	(0.29%)	(0.20%)	(0.24%)	(0.57%)						
Change due to salary gains	(0.02%)	(0.01%)	(0.05%)	(0.06%)						
Change due to effect of payroll on amortization	<u>(0.42%)</u>	<u>(0.35%)</u>	<u>(0.22%)</u>	<u>(0.62%)</u>						
Total change from current year's changes	(0.15%)	(0.11%)	1.07%	(0.04%)						
FYE 2018 Net Employer Contribution Rate	31.81%	26.13%	48.06%	61.04%						

A review of the changes in the employer contribution rate from the prior valuation reveals that Plan experience during the year – including demographic and salary changes, as well as asset experience – resulted in a net decrease in the overall employer contribution rate of 0.15% of pay (the total of the last six rows in the table above) before changes from prior years are taken into account:

• Asset experience produced an investment loss.

The 2.07% return, compared to the 7.25% assumption, resulted in a loss which increased the contribution rate by 0.72% of pay in the current year. The amortization payment for this year's investment losses will continue to be phased-in over the next four years, resulting in similar increases in the employer contribution rates in those years.

• Drawdown of the contingency reserve reduced the County's contribution rate.

The contingency reserve is used to reduce volatility in employer contributions, and can be used to supplement the valuation assets in years when the return on the Market Value of Assets is less than expected. The County had a contingency reserve of approximately \$15.6 million at the beginning of the year, which when drawn down offset the County's contribution rate by 0.13% of payroll. The amortization payment for this offset to the County's unfunded liability will continue to be phased-in over the next four years.



SECTION I – EXECUTIVE SUMMARY

• Demographic experience was close to expected for all three groups.

The demographic experience of the Plan – rates of retirement, death, disability, and termination – was close to that predicted by the actuarial assumptions in aggregate. There was a small decrease in contribution rate for the County (0.07%), and there were small increases in contribution rates for Novato (0.25%) and San Rafael (0.27%) due to changes in population.

The increases to the Novato and San Rafael rates were primarily driven by an increase in the average employer normal cost rates for the current tiers, based on an influx of new non-PEPRA members with higher entry ages (i.e. members with reciprocal service with another agency or employer), and in some cases, from reductions in the average employee rate as a result of members hitting the 30-year cap on employee contributions. As with the investment losses, the unfunded liability component of these gains and losses will continue to be phased-in over the next four years.

• PEPRA new hires reduced the contribution rates.

PEPRA members make up a growing proportion of the active member population, and they generally contribute a larger share of their cost. PEPRA new hires decreased the contribution rate by 0.29%. As these changes only affect the normal cost, they are not subject to further phase-in.

• Changes in salaries and payroll reduced the contribution rates.

Liability-weighted salary increases for returning members were lower than anticipated for all three groups, reducing the contribution rates by 0.01% of pay for County, 0.05% for Novato and 0.06% for San Rafael. These gains will continue to be phased-in over the next four years.

In addition, the higher than expected overall payroll growth for County, Novato and San Rafael as a result of increases in the active population meant that the UAL is being amortized over a larger than expected payroll base, which further decreased the contribution rate by 0.35%, 0.22% and 0.62%, respectively. The changes in payroll do not affect the dollar amount of the unfunded liability payments, and therefore are not subject to further phase-in.

The net impact of salaries and payroll was a reduction in the current year contribution rates of 0.36% for County, 0.27% for Novato, and 0.68% for San Rafael.

In addition to gains and losses from the Plan experience during the year, there was an expected change in amortization due to the phase-in of prior UAL gains, losses, and assumption changes. This reduced the contribution rates by 0.26% and 1.70% for County and Novato, respectively, and increased the contribution rate by 0.12% for San Rafael. A full description of the prior year changes can be seen in Table IV-2 of this report.



SECTION I – EXECUTIVE SUMMARY

Changes in UAL

The Unfunded Actuarial Liability (UAL) for MCERA increased by \$74.3 million, from \$402.8 million to \$477.1 million. Table I-5 below presents the specific components of the change in the UAL.

Table I-5 Change in Unfunded Actuarial Liability (in millions)										
Experience		Total	С	ounty	N	lovato	San	Rafael		
1. Unfunded actuarial liability, 6/30/2015	\$	402.8	\$	243.6	\$	18.4	\$	140.8		
2. Expected change in unfunded actuarial liability		(11.6)		(7.4)		(0.8)		(3.3)		
3. Change due to unexpected contributions		(8.9)		(7.2)		(0.6)		(1.2)		
4. Change due to investment loss		107.1		80.0		7.8		19.3		
5. Change due to contingency reserve drawdown		(16.0)		(16.0)		0.0		0.0		
6. Change due to demographic (gains) / losses		6.8		5.5		(0.6)		1.9		
7. Change due to salary (gains) / losses		(3.1)		(1.4)		(0.3)		(1.4)		
8. Total change in unfunded actuarial liability	\$	74.3	\$	53.5	\$	5.5	\$	15.3		
9. Unfunded actuarial liability, 6/30/2016	\$	477.1	\$	297.1	\$	23.9	\$	156.1		

The overall dollar amount of contributions was slightly higher than expected, based on differences in actual versus projected payroll and the one-year delay in the implementation of contribution rates, which reduced the UAL by \$8.9 million (row 3). The return on the assets used to compute the UAL and the employer contribution rates was 2.07% during the 2015-16 plan year compared to an assumed rate of 7.25%, resulting in an increase in the UAL of \$107.1 million (row 4). The drawdown of the County's contingency reserve reduced the overall UAL by \$16.0 million as of the end of the year (row 5). Finally, liability experience (rows 6 and 7 above) – from salary gains offset by other liability losses – increased the UAL by \$3.7 million.

All of the above combined with the expected UAL reduction (\$11.6 million) from contributions produced an overall increase of \$74.3 million in the UAL last year.



SECTION I – EXECUTIVE SUMMARY

<u>Plan Risk</u>

One of the most important measures of a plan's risk is the ratio of plan assets to payroll. Table I-6 shows the ratios of assets to active member payroll for each of the three main subgroups within MCERA.

Table I-6Asset to Payroll Ratio as of June 30, 2016									
		County		Novato	San Rafael				
Active Member Payroll	\$	200,880,966	\$	9,420,663	\$ 33,920,840				
Assets (Market Value)	\$	1,575,237,297	\$	148,395,413	\$ 375,064,531				
Ratio of Assets to Payroll		7.84		15.75	11.06				
Ratio with 100% Funding		9.32		18.29	15.66				

This ratio indicates the sensitivity of the Plan to the returns earned on assets. We note in the table that assets are currently nearly eight times covered payroll for the County; the ratio is over 11 for San Rafael, and nearly 16 for Novato. As funding improves and the Plan reaches 100% funding, the ratio of asset to payroll will increase: to over nine times payroll for the County, nearly 16 for San Rafael, and over 18 for Novato.

To appreciate the impact of the ratio of assets to payroll on the contribution rate, consider the situation for a new plan with almost no assets. Even if the assets suffer a bad year of investment returns, the impact on the plan cost is nil, because the assets are so small.

On the other hand, consider the situation for the County. Suppose MCERA's assets lose 10% of their value in a year. Since they were assumed to earn 7.25%, there is an actuarial loss of 17.25% of plan assets. Based on the current ratio of assets to payroll (784%) for the County, that means the loss in assets is about 135% of active County payroll (784% of the 17.25% loss).

There is only one source of funding to make up for this loss: contributions. Consequently, barring future offsetting investment gains, the County employers would have to make up the asset loss in future contributions. In this example of a one-year loss of 10%, this shortfall will eventually require an average additional amortization payment in the vicinity of 8.9% of payroll if amortized over a 24-year period.

As the plan matures and becomes better funded, the ratio of assets to payroll will increase. When assets are 932% of pay for the County, the 10% loss discussed above will translate to a loss of 161% of payroll, which when amortized over a 24-year period will increase the employer contribution rate by 10.6% of member pay on average. Therefore, the plan is likely to become more sensitive to market variation in the future than it is today.

The expected contribution volatility is higher for San Rafael and Novato, due to their higher relative number of Safety members, who receive higher benefits relative to their payroll. A 10% loss for San Rafael would currently translate to a loss of 191% of pay, which would require an



SECTION I – EXECUTIVE SUMMARY

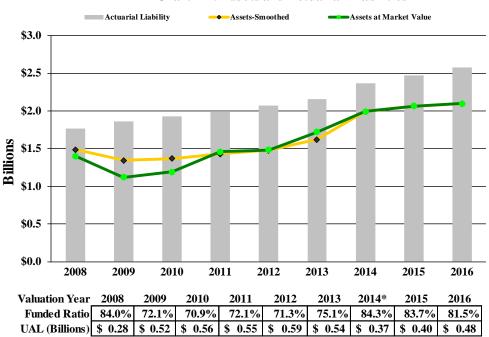
average of a 12.6% amortization payment. The same loss for Novato would translate to a loss of 272% of pay, requiring an 18.0% of pay average payment. If the Plan were fully funded, these losses would results in amortization payments of 17.8% and 20.8% for San Rafael and Novato, respectively.

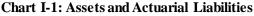
B. Historical Trends

Despite the fact that for most retirement plans the greatest attention is given to the current valuation results, it is important to remember that each valuation is merely a snapshot in the long-term progress of a pension plan. It is more important to judge a current year's valuation result relative to historical trends, as well as trends expected into the future.

Assets and Liabilities

The chart below compares the Market Value of Assets (MVA) and Actuarial Value of Assets (AVA) to the Actuarial Liability for the overall MCERA Plan. The percentage shown in the table below the graph is the ratio of the Actuarial Value of Assets to the Actuarial Liability (the funded ratio). The funded ratio is 81.5% as of June 30, 2016, and is slightly lower than the 84.0% funded ratio in 2008.





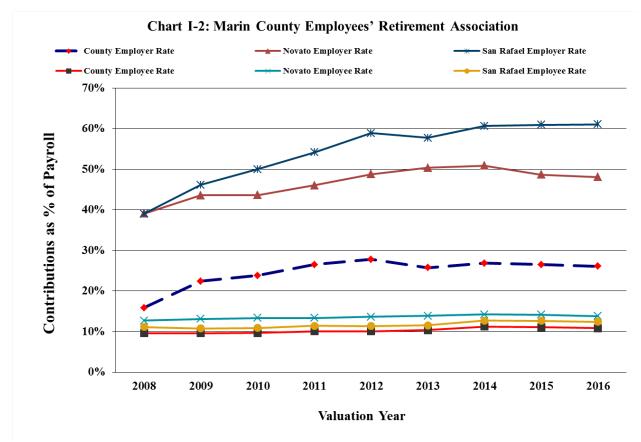
* Beginning in 2014, there is no smoothing of the asset value, thus AVA = MVA.



SECTION I – EXECUTIVE SUMMARY

Contribution Trends

Chart I-2 presents the historical trends for the MCERA contribution rates. The employer contribution rates rose steadily from 2008 through 2013, as the investment losses from 2008-2009 were recognized in the smoothed value of assets. The average employee contribution rates have stayed relatively stable, increasing slightly as the Plan's economic and mortality assumptions have changed.



Gains and Losses

The following chart for MCERA presents the pattern of annual gains and losses for the overall Plan, broken into the investment and liability components. Prior to 2014 the investment gains and losses represent the changes on a smoothed basis (i.e., based on the Actuarial Value of Assets). As of 2014, the Actuarial Value of Assets was set equal to the Market Value of Assets, and the last year's investment gains and losses represent changes on an actual basis. The chart does not include any changes in MCERA's assets and liabilities attributable to changes to actuarial methods, assumptions, or plan benefit changes.

The investment loss in 2008-2009 was by far the most significant gain or loss during the last seven years. Even though the Plan was using actuarial smoothing of the assets, there was a significant loss reflected in the June 30, 2009 valuation, because the amount of smoothing was limited by the 80/120% corridor around the Market Value of Assets (the return on the smoothed value of assets for 2008-2009 was -9.2%).



SECTION I – EXECUTIVE SUMMARY

Between 2011 and 2014, there was a period of modest liability gains, as salary increases were below their expected levels. There was a small liability loss this year due to population changes.

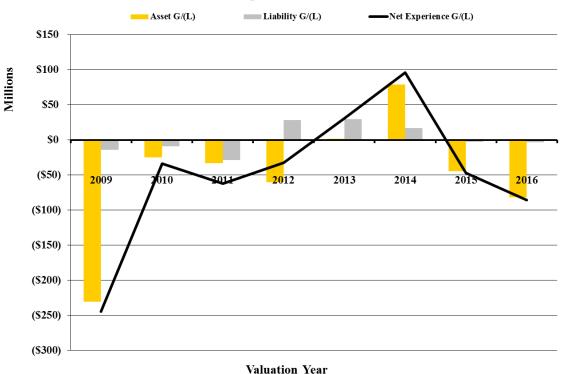


Chart I-3: Experience Gains and Losses

C. Future Expected Financial Trends

The analysis of projected financial trends is an important component of this valuation. In this section, we present our assessment of the implications of the June 30, 2016 valuation results in terms of contributions and benefit security (assets over liabilities). All the projections in this section are based on the current investment return assumption of 7.25% and future base salary increases of 3.00% per year.

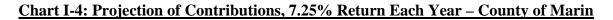
The following graphs show the expected employer contribution rates based on achieving the 7.25% assumption **each year** for the next 20 years. This scenario is highly unlikely: even if the Plan does achieve an **average** return of 7.25% over this time period, the returns in each given year will certainly vary.

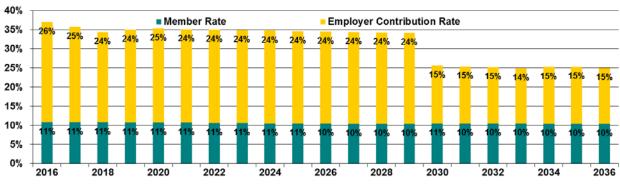
The contribution rate graphs which follow – shown separately for the County, Novato, and San Rafael - project that employer contribution rates are expected to decline slightly over the next few years and then stay relatively level over the remainder of the next 14 years, as the bulk of the current unfunded liability is amortized over this period as a level percentage of payroll.

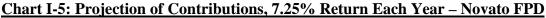


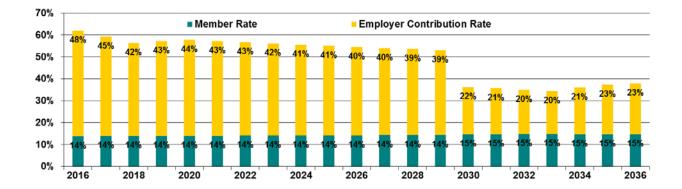
SECTION I – EXECUTIVE SUMMARY

There is a small short-term reduction in rates projected, as the deferred investment gains from prior years are recognized. There is also a moderate longer-term decline projected in the employer normal cost rates, primarily due to the PEPRA members becoming a larger proportion of the active member population over time.











SECTION I – EXECUTIVE SUMMARY

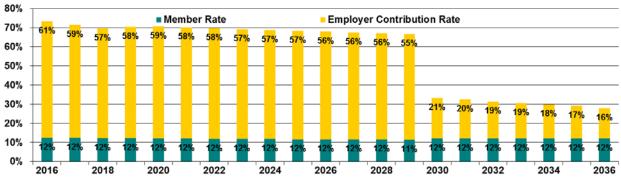


Chart I-6: Projection of Contributions, 7.25% Return Each Year – City of San Rafael

Asset and Liability Projections

The following charts show the projection of assets and liabilities assuming that assets will earn the 7.25% assumption each year during the projection period, and the actuarially determined contributions shown in the projections above are made. The percentages shown at the top of the charts are the ratios of the Market Value of Assets to the Actuarial Liability (the funded ratios).

The charts on the next page show that the projected funded status increases over the next 14 years to approach 100%, as can be expected based on the 14-year amortization policy for the majority of the current unfunded liability, assuming the actuarial assumptions are achieved. However, as above, it is the **actual** return on Plan assets that will determine the future funding status and contribution rate to the Plan.

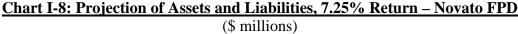
The liabilities have been divided into those associated with the active employees and the inactive members (members in pay status or eligible to receive a deferred benefit). If the Plan's asset level drops below the liabilities for the inactive members, it indicates that no Plan assets have been set aside to fund future benefits for current active participants. The County and Novato currently have asset levels greater than their inactive liabilities; San Rafael's asset level is currently slightly less than the inactive liability, but it is projected to recover above that level within the next few years.

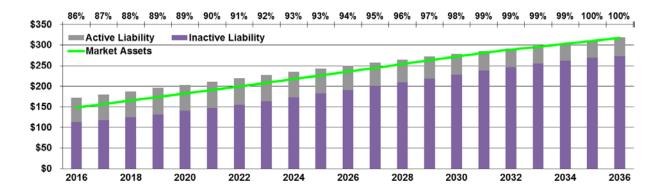


SECTION I – EXECUTIVE SUMMARY

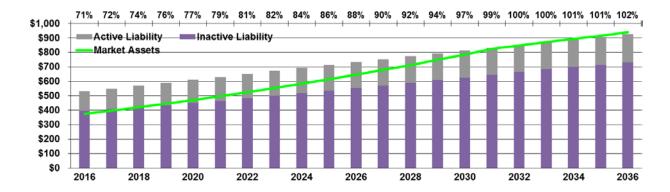
<u>Chart I-7: Projection of Assets and Liabilities, 7.25% Return – County of Marin</u> (\$ millions)







<u>Chart I-9: Projection of Assets and Liabilities, 7.25% Return – City of San Rafael</u> (\$ millions)





SECTION II – ASSETS

Pension Plan assets play a key role in the financial operation of the Plan and in the decisions the Board may make with respect to future deployment of those assets. The level of assets, the allocation of assets among asset classes, and the methodology used to measure assets will likely impact employer contributions and the ultimate security of participants' benefits.

In this section, we present detailed information on Plan assets including:

- **Disclosure** of Plan assets as of June 30, 2015 and June 30, 2016,
- Statement of the **changes** in market values during the year,
- An assessment of historical investment performance versus inflation, and
- An allocation of the assets between the **employers and their valuation subgroups**.

Disclosure

The Market Value of Assets has replaced the smoothed Actuarial Value of Assets. The market value represents "snap-shot" or "cash-out" values that provide the principal basis for measuring financial performance from one year to the next. Market values, however, can fluctuate widely with corresponding swings in the marketplace.

Table II-1 on the next page discloses asset value as of June 30, 2015 and June 30, 2016.



SECTION II – ASSETS

Table II-1		
Statement of Assets at Ma	rket Value	
Assets:	June 30, 2015	June 30, 2016
Cash and Cash Equivalents \$	43,288,323	\$ 35,586,471
Collateral held for Securities Loaned	48,783,804	36,267,606
Total Cash and Short Term Investments	92,072,127	71,854,077
Receivables:		
Contributions	5,274,370	3,639,298
Interest and Dividends	1,811,712	1,882,749
Due from Brokers for Securities Sold	1,554,594	3,874,113
Other Receivables	2,045,858	1,258,129
Total Receivables	10,686,534	10,654,289
Investments, at Fair Value:		
Domestic Fixed Income	243,056,642	277,371,287
International Fixed Income	63,900,038	61,756,871
Domestic Equities	810,138,708	748,722,068
International Equities	441,603,824	426,412,816
Private Equity	158,919,340	192,518,905
Real Assets	102,000,000	145,156,032
Real Estate	206,737,016	204,430,848
Total Investments	2,026,355,568	2,056,368,827
Other Assets:		
Capital Assets	6,406,474	5,933,038
Prepaid Insurance	456,433	50,852
Total Assets	2,135,977,136	2,144,861,082
Liabilities:	_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	_,,
Accounts Payable and Accrued Expenses	1,661,533	1,462,414
Due to Brokers for Securities Purchased	3,315,677	8,410,972
Rental Security Deposits	329,220	0,410,572
Retiree Payroll Payable	2,246	22,849
Obligations Under Securities Lending Program	48,783,804	36,267,606
Total Liabilities	54,092,480	46,163,840
Net Assets Held in Trust for Pension Benefits	2,081,884,656	\$ 2,098,697,242



SECTION II – ASSETS

Changes in Market Value

The components of asset change are:

- Contributions (employer and employee)
- Benefit payments
- Expenses (investment and administrative)
- Investment income (realized and unrealized)

Table II-2 below shows the components of changes in the Market Value of Assets during the fiscal years ending June 30, 2015 and June 30, 2016.

Table II-2 Changes in Market Values								
	Fisc	al Year ending		l Year ending				
Additions	J	<u>une 30, 2015</u>	<u>Ju</u>	<u>ne 30, 2016</u>				
Contributions								
Employer's Contribution	\$	72,867,357	\$	78,049,814				
Members' Contributions		20,968,208		24,418,323				
Total Contributions		93,835,565		102,468,137				
Investment Income								
Net Appreciation/(Depreciation) in								
Fair Value of Investments		84,583,896		25,687,408				
Interest and Dividends		16,836,187		16,979,679				
Real Estate Operating Income, net		9,055,660		10,823,799				
Other Investment Income		92,595		150,749				
Total Investment Income/(Loss)		110,568,339		53,641,634				
Investment Expenses		(10,763,096)		(10,911,481)				
Net Investment Income/(Loss)		99,805,243		42,730,153				
Securities Lending Activities								
Securities Lending Income		250,330		197,575				
Expenses from Securities Lending Activities		0		0				
Net Securities Lending Income/(Loss)		250,330		197,575				
Total Investment Income/(Loss)		100,055,573		42,927,728				
Total Additions/(Declines)	\$	193,891,138	\$	145,395,865				



SECTION II – ASSETS

Changes in Mark	xet Values (Continued)	
	Fiscal Year ending	Fiscal Year ending
Deductions	<u>June 30, 2015</u>	June 30, 2016
Benefit payments	115,280,886	123,226,093
Refunds of Members' Contributions	703,867	977,426
Administrative Costs	3,668,546	3,514,622
Legal Costs & Litigation Settlement	482,923	451,526
Computer Expenses	333,364	273,381
Actuarial Expenses	169,790	140,232
Total Deductions	120,639,375	128,583,279
Net increase (Decrease)	73,251,763	16,812,586
Net Assets Held in Trust for Pension Benefits		
Beginning of Year	2,008,632,893	2,081,884,656
End of Year	2,081,884,656	2,098,697,242
Approximate Return (Net of Investment Expenses)*	5.0%	2.1%

*The approximate return is computed using an assumption that cash flows occur mid-year, on average. This calculation will not necessarily match the actual time- or money-weighted returns of the Plan.



SECTION II – ASSETS

Historical Investment Performance

Table II-3 shows the historical annual asset returns on a market value basis, as well as in the increase in the Consumer Price Index (CPI) since 2002.

Table II-3 Net Return on Assets vs. Increase in Consumer Price Index						
Year Ended June 30	Net Return at Market Value	Increase in Consumer Price Index*				
2002	N/A	1.2%				
2003	N/A	1.6%				
2004	N/A	1.4%				
2005	N/A	1.1%				
2006	N/A	3.9%				
2007	18.1%	3.4%				
2008	-6.7%	4.2%				
2009	-19.8%	0.2%				
2010	8.2%	1.1%				
2011	23.4%	2.4%				
2012	1.6%	2.6%				
2013	13.9%	2.6%				
2014	18.1%	3.0%				
2015	5.0%	2.3%				
2016	2.1%	2.7%				
10-Year Compound Average	5.6%	2.4%				
5-Year Compound Average	7.9%	2.6%				

* Based on Consumer Price Index for San Francisco-Oakland-San Jose Area (1982-1984 base period).



SECTION II – ASSETS

Asset Allocation by Valuation Subgroup

Table II-4 below shows the allocation of the Valuation Assets between the employers and their valuation subgroups (Miscellaneous vs. Safety). These allocations are based on a roll-forward of the asset balances from the prior year, adjusted for employee and employer contributions, and are used to calculate the UAL amortizations for each employer and subgroup. Assets are first allocated to cover the liabilities for inactive members (members in pay status or eligible to receive a deferred benefit), and any remaining assets are allocated to each group's active members based on the employer's share of the rolled-forward balances.

The top portion of the table shows the allocations for the active members of each employer. A negative balance indicates that the allocated assets are not sufficient to cover a group's inactive liabilities. The bottom portion of the table shows the total asset allocation (active and inactive) for each of the three main subgroups.

The column on the right shows the funded ratios. For the top portion of the table, the funded ratio is the percentage of the active liabilities that are covered by the Valuation Assets. For the bottom portion, the funded ratio represents the total funded ratio for each group.

Table II-4 Market Assets and Funding Ratios - Active Members Only									
Plan	Group		Assets 2015	Ratios 2015		Assets 2016	Ratios 2016		
County	County Misc	\$	233,252,625	60.7%	\$	212,100,697	52.2%		
	County Safety		102,929,283	60.2%		94,359,842	55.9%		
	Courts		16,411,788	59.1%		14,471,110	55.8%		
	South Marin Fire Misc		159,790	50.4%		153,637	32.5%		
	South Marin Fire Safety		11,338,412	66.4%		10,827,049	57.9%		
	Mosquito District		6,696,410	58.6%		5,985,668	50.6%		
	LAFCO		185,027	95.6%		200,466	82.7%		
	Tamalpais CSD		1,594,317	42.7%		1,513,623	36.4%		
	Marin City CSD		367,472	54.4%		352,679	89.8%		
Novato	Novato Misc		2,128,178	80.6%		1,931,587	73.4%		
	Novato Safety		33,561,483	65.3%		33,325,184	59.0%		
San Rafael	San Rafael Misc		(2,534,065)	(3.9%)		(9,608,519)	(15.1%)		
	San Rafael Safety		(4,558,649)	(6.6%)		(11,077,914)	(15.5%)		

	Market Assets and Funding F	Ratios - Tota	al	
County	\$ 1,548,074,101	86.4%	\$ 1,575,237,297	84.1%
Novato	147,452,561	88.9%	148,395,413	86.1%
San Rafael	370,720,882	72.5%	375,064,531	70.6%



SECTION III – LIABILITIES

In this section, we present detailed information on Plan liabilities.

Disclosure

Several measures of liabilities are calculated and presented in this report. Note that these measures of liabilities are not applicable for settlement purposes, including the purchase of annuities and the payment of lump sums.

- **Present Value of Future Benefits:** Used for measuring all future Plan obligations, represents the expected amount of money needed today to fully fund all benefits of the Plan both earned as of the valuation date and those to be earned in the future by current plan participants under the current Plan provisions if all assumptions are met.
- Actuarial Liability: Used for funding calculations, this liability is calculated taking the Present Value of Future Benefits and subtracting the present value of future Member Contributions and future Employer Normal Costs under an acceptable actuarial cost method. The method used for this Plan is called the Entry Age Normal (EAN) cost method. The Actuarial Liability represents the expected amount of money needed today to pay for benefits attributed to service prior to the valuation date. As such, it is the amount of assets targeted by the actuarial cost method for the Plan to hold as of the valuation date.

Table III-1 on the next page shows the Present Value of Future Benefits and Table III-2 shows the Actuarial Liability for each valuation subgroup for the current and prior valuations. The top portion of each table shows the liabilities for the active members for each employer. The bottom portion of the table shows the total liability (active and inactive) for each of the three main subgroups.



SECTION III – LIABILITIES

	Table III-1		
	Present Value of Benefits - Active	Members Only	
Plan	Group	2015	2016
County	County Misc Tier 1	\$ 18,677,510	\$ 17,888,603
	County Misc Tier 2	19,898,637	20,563,273
	County Misc Tier 3	438,758,831	445,062,870
	County Misc Tier 3A	35,212,634	34,899,87
	County Misc Tier 4	25,334,260	29,119,69
	County Misc Tier 5 (PEPRA)	40,743,812	64,570,64
	County Safety Tier 1A	2,655,102	2,798,09
	County Safety Tier 2A	39,367,370	41,782,61
	County Safety Tier 2B	208,730,502	197,276,71
	County Safety Tier 3 (PEPRA)	14,100,816	21,102,65
	Courts Tier 1	4,047,791	2,633,30
	Courts Tier 2	244,448	269,99
	Courts Tier 3	31,252,001	29,491,49
	Courts Tier 4	1,024,694	1,113,61
	Courts Tier 5 (PEPRA)	427,751	1,709,03
	South Marin Fire Misc Tier 1	512,875	542,02
	South Marin Fire Misc Tier 2 (PEPRA)	0	463,61
	South Marin Fire Safety Tier 1	16,494,329	17,001,61
	South Marin Fire Safety Tier 2	14,371,195	14,392,31
	South Marin Fire Safety Tier 2A	470,285	896,39
	South Marin Fire Safety Tier 3A (PEPRA)	2,116,719	3,393,82
	Mosquito District Tier 1	16,679,780	16,732,94
	Mosquito District Tier 2 (PEPRA)	0	204,19
	LAFCO Tier 3	612,115	681,01
	LAFCO Tier 4 (PEPRA)	0	102,12
	Tamalpais CSD Tier 1	4,629,462	5,043,54
	Tamalpais CSD Tier 2 (PEPRA)	249,033	268,15
	Marin City CSD	1,155,076	1,115,00
Novato	Novato Misc Tier 1	4,092,551	3,950,95
	Novato Misc Tier 2A (PEPRA)	0	300,61
	Novato Safety Tier 1	67,177,177	70,804,20
	Novato Safety Tier 2	5,013,844	5,023,79
	Novato Safety Tier 3 (PEPRA)	2,277,839	2,859,03
San Rafael	•	89,700,738	85,428,22
	San Rafael Misc Tier 2	2,865,424	4,416,28
	San Rafael Misc Tier 3 (PEPRA)	3,872,204	5,558,85
	San Rafael Fire Tier 1	45,227,847	45,196,11
	San Rafael Police Tier 1	55,628,044	55,264,57
	San Rafael Fire Tier 2	6,994,821	7,487,64
	San Rafael Police Tier 2	2,529,403	2,620,83
	San Rafael Safety Tier 3 (PEPRA)	4,845,698	9,435,29

	Total Present Value of Benefits - Active and Inactive Mem	bers
County	\$ 2,112,906,005	\$ 2,206,391,768
Novato	190,324,310	196,077,257
San Rafael	589,477,776	611,158,796



SECTION III – LIABILITIES

	Table III-2			
	Actuarial Liabilities - Active M	Iembo	ers Only	
Plan	Group		2015	2016
County	County Misc Tier 1	\$	17,804,323	\$ 17,131,347
	County Misc Tier 2		16,378,517	17,279,545
	County Misc Tier 3		326,644,981	339,763,956
	County Misc Tier 3A		13,451,703	15,073,775
	County Misc Tier 4		4,669,080	6,942,551
	County Misc Tier 5 (PEPRA)		5,372,940	10,276,753
	County Safety Tier 1A		2,655,102	2,798,095
	County Safety Tier 2A		26,653,510	29,138,187
	County Safety Tier 2B		140,784,821	134,700,301
	County Safety Tier 3 (PEPRA)		945,189	2,255,179
	Courts Tier 1		3,824,247	2,559,204
	Courts Tier 2		167,712	193,650
	Courts Tier 3		23,130,014	22,278,670
	Courts Tier 4		620,267	674,647
	Courts Tier 5 (PEPRA)		46,303	219,315
	South Marin Fire Misc Tier 1		317,058	353,780
	South Marin Fire Misc Tier 2 (PEPRA)		0	119,625
	South Marin Fire Safety Tier 1		12,254,656	12,924,769
	South Marin Fire Safety Tier 2		4,666,910	5,383,113
	South Marin Fire Safety Tier 2A		29,743	62,650
	South Marin Fire Safety Tier 3A (PEPRA)		134,388	327,055
	Mosquito District Tier 1		11,418,471	11,818,241
	Mosquito District Tier 2 (PEPRA)		0	16,709
	LAFCO Tier 3		193,636	234,250
	LAFCO Tier 4 (PEPRA)		0	8,066
	Tamalpais CSD Tier 1		3,713,084	4,123,098
	Tamalpais CSD Tier 2 (PEPRA)		17,777	36,588
	Marin City CSD		676,118	392,700
Novato	Novato Misc Tier 1		2,641,313	2,602,799
	Novato Misc Tier 2A (PEPRA)		0	28,469
	Novato Safety Tier 1		49,299,615	54,149,497
	Novato Safety Tier 2		1,932,824	1,932,091
	Novato Safety Tier 3 (PEPRA)		202,567	416,465
San Rafael	San Rafael Misc Tier 1		64,045,189	62,273,909
	San Rafael Misc Tier 2		486,959	860,073
	San Rafael Misc Tier 3 (PEPRA)		283,412	639,935
	San Rafael Fire Tier 1		29,623,909	29,790,218
	San Rafael Police Tier 1		37,181,051	38,653,707
	San Rafael Fire Tier 2		1,180,936	1,606,215
	San Rafael Police Tier 2		453,593	633,187
	San Rafael Safety Tier 3 (PEPRA)		454,564	949,648

	Total Accrued Liabilities - Active and Inactive Member	s
County	\$ 1,791,709,527	\$ 1,872,358,344
Novato	165,839,218	172,267,963
San Rafael	511,523,210	531,157,856



SECTION IV – CONTRIBUTIONS

For this Plan, there are three components to the total contribution: the **normal cost rate** (employee and employer), the **Unfunded Actuarial Liability rate** (UAL rate), and the **administrative expense** contribution.

The normal cost rate is determined in the following steps. First, an individual normal cost rate is determined by taking the value, as of entry age into the Plan, of each member's projected future benefits. This value is then divided by the value, also at entry age, of the member's expected future salary producing a normal cost rate that is expected to remain constant over a member's career.

The total normal cost is computed by adding up the expected dollar amount of each active member's normal cost for the current year. The total normal cost is adjusted with interest to the middle of the year, to reflect the fact that the normal cost contributions are paid throughout the year as member payroll payments are made. Finally, the total normal cost is reduced by the expected contributions for each member and divided by the projected pay for each subgroup.

The Unfunded Actuarial Liability (UAL) is the difference between the EAN Actuarial Liability and the Market Value of Assets. The UAL payment is determined using the following pieces, and then divided by the projected payroll for each employer to calculate a UAL rate for each group:

- The amount needed to fund the extraordinary UAL resulting from the 2008-2009 investment losses as a level percent of member payroll over a fixed period (22 years remaining as of the current valuation, reduced from 23 years in the prior valuation);
- The remaining UAL as of June 30, 2013 over a period of 17 years as a level percentage of member payroll (14 years as of June 30, 2016); and
- Any subsequent unexpected change in the Unfunded Actuarial Liability after June 30, 2013 is amortized over 24 years (22 years for assumption changes) that includes a five-year phase-in/out (three years for assumption changes) of the payments/credits for each annual layer.

Administrative expenses are assumed to be \$4.774 million per year as of June 30, 2016, increasing at 3% per annum. The administrative expenses are split between employees and employers based on their share of the overall contributions.



SECTION IV – CONTRIBUTIONS

Table IV-1 below presents the calculation of employer contribution rates for each of the three main Plan groups, as well as a comparison to the prior year rates.

Development of the Ne		Table IV-1 tribution Rates	as of June 30, 2	016 for FYE 2	018			
		June 30, 2015			June 30, 2016			
	County	Novato	San Rafael	County	Novato	San Rafael		
1. Total Normal Cost Rate	22.39%	35.58%	28.94%	21.93%	35.53%	28.44%		
2. Member Contribution Rate	<u>10.57%</u>	13.51%	<u>12.06%</u>	10.36%	13.23%	<u>11.86%</u>		
3. Employer Normal Cost Rate (1-2)	11.82%	22.07%	16.88%	11.57%	22.30%	16.58%		
4. UAL Amortization	13.46%	24.39%	41.28%	13.37%	23.57%	41.68%		
5. Administrative Expense Rate	<u>1.22%</u>	<u>2.23%</u>	<u>2.80%</u>	<u>1.19%</u>	<u>2.19%</u>	<u>2.78%</u>		
6. Final Employer Contribution Rate (3+4+5)	26.50%	48.69%	60.96%	26.13%	48.06%	61.04%		



SECTION IV – CONTRIBUTIONS

Table IV-2 below presents the calculation of the UAL payments for the Plan for this valuation.

			Table IV ment of Amorti ne 30, 2016 Ac	izat					
Type of Base	Date Established	Initial Amount	Initial Amortization Years		June 30, 2016 Outstanding Balance	8	Length of Phase In/Out	Current Phase In/Out Percentage	Amortization Amount
Charges / (Credits)									
1. County - 2009 Extraordinary Loss	6/30/2009	\$ 146,241,604	30	\$	156,819,272	22	N/A	100%	\$ 10,923,463
2. County - Initial UAL	6/30/2013	188,358,828	17		179,399,047	14	N/A	100%	17,032,475
3. County - (Gain)/Loss Base	6/30/2014	(223,502,748)	24		(245,469,284)	22	5	60%	(11,396,412)
4. County - Assumption Changes	6/30/2014	99,117,401	22		105,755,906	20	3	100%	8,098,358
5. County - (Gain)/Loss Base	6/30/2015	36,267,023	24		38,294,655	23	5	40%	1,196,930
6. County - (Gain)/Loss Base	6/30/2016	62,321,452	24		62,321,452	24	5	20%	998,452
7. Novato - 2009 Extraordinary Loss	6/30/2009	14,765,994	30		15,834,020	22	N/A	100%	1,102,941
8. Novato - Initial UAL	6/30/2013	17,008,202	17		16,199,163	14	N/A	100%	1,537,978
9. Novato - (Gain)/Loss Base	6/30/2014	(22,114,107)	24		(24,287,549)	22	5	60%	(1,127,599)
10. Novato - Assumption Changes	6/30/2014	6,230,650	22		6,647,955	20	3	100%	509,073
11. Novato - (Gain)/Loss Base	6/30/2015	2,876,813	24		3,037,651	23	5	40%	94,944
12. Novato - (Gain)/Loss Base	6/30/2016	6,441,310	24		6,441,310	24	5	20%	103,196
13. San Rafael - 2009 Extraordinary Loss	6/30/2009	34,997,031	30		37,528,370	22	N/A	100%	2,614,091
14. San Rafael - Initial UAL	6/30/2013	124,305,953	17		118,393,017	14	N/A	100%	11,240,450
15. San Rafael - (Gain)/Loss Base	6/30/2014	(54,710,285)	24		(60,087,379)	22	5	60%	(2,789,679)
16. San Rafael - Assumption Changes	6/30/2014	30,608,707	22		32,658,761	20	3	100%	2,500,875
17. San Rafael - (Gain)/Loss Base	6/30/2015	8,187,631	24		8,645,388	23	5	40%	270,218
18. San Rafael - (Gain)/Loss Base	6/30/2016	18,955,168	24		18,955,168	24	5	20%	303,681
Total				\$	477,086,922				\$ 43,213,436

The single equivalent amortization period - i.e., the length of time required to amortize the overall UAL as a level percentage of payroll based on the total current amortization payment - is approximately 15 years.



SECTION IV – CONTRIBUTIONS

Tables IV-3 through IV-6 present the calculation of employer contribution rates for each employer and Tier.

	County Misc	County Misc	County Misc	County Misc	County Misc	County Misc	Count
	Tier 1	Tier 2	Tier 3	Tier 3A	Tier 4	Tier 5	Misc
A. Total Normal Cost Rate	19.93%	20.10%	19.27%	20.66%	19.61%	17.44%	19.00
B. Member Contribution Rate (Excluding Admin Expense Load)	<u>2.90</u> %	<u>8.79</u> %	<u>8.93</u> %	<u>9.60</u> %	<u>8.34</u> %	<u>8.66</u> %	<u>8.83</u> %
C. Employer Normal Cost Rate (A-B)	17.03%	11.31%	10.34%	11.06%	11.27%	8.78%	10.17
D. UAL Amortization Rate	11.34%	11.34%	11.34%	11.34%	11.34%	11.34%	11.34
E. Administrative Expense Rate	1.36%	<u>1.08%</u>	<u>1.04%</u>	<u>1.07%</u>	<u>1.08%</u>	<u>0.96%</u>	<u>1.03</u>
F. Net June 30, 2016 Contribution Rate (C+D+E)	29.73%	23.73%	22.72%	23.47%	23.69%	21.08%	22.54
			a . a .	a . a .	a . a .	G	Coun
				County Safety Tier 2B	t t	2	Misc
A. Total Normal Cost Rate			Tier 2A 32.68%	32.32%	Tier 3 25.65%	<i>Safety</i> 31.32%	Safet 21.54
3. Member Contribution Rate (Excluding Admin Expense Load)			14.27%	17.60%	12.49%	16.34%	<u>10.38</u>
				$\frac{17.00}{14.72\%}$			
C. Employer Normal Cost Rate (A-B)			18.41%	14.72%	13.16%	14.98%	11.16
D. UAL Amortization Rate			20.25%	20.25%	20.25%	20.25%	13.18
E. Administrative Expense Rate			<u>1.85%</u>	<u>1.67%</u>	1.60%	1.68%	<u>1.16</u> 9
F. Net June 30, 2016 Contribution Rate (C+D+E)			40.51%	36.64%	35.01%	36.91%	25.5



SECTION IV - CONTRIBUTIONS

Development of the Cou	mty Special D	Table IV-4 istricts Contribu		June 30, 2016	for FYE 2018			
		South Marin Fire Misc	South Marin Fire Misc Tier	Tamalpais	Tamalpais	Marin City	Mosquito District Tier	
		Tier 1	2	CSD Tier 1	CSD Tier 2	CSD Tier 1	1	2
A. Total Normal Cost Rate		29.50%	20.91%	23.23%	15.63%	20.90%	23.87%	20.49%
B. Member Contribution Rate (Excluding Admin Expense Load)		<u>14.07</u> %	<u>9.56</u> %	<u>9.36</u> %	<u>9.56</u> %	<u>9.77</u> %	<u>9.47</u> %	<u>9.56</u> %
C. Employer Normal Cost Rate (A-B)		15.43%	11.35%	13.87%	6.07%	11.13%	14.40%	10.93%
D. UAL Amortization Rate		5.62%	5.62%	21.65%	21.65%	6.82%	19.26%	19.26%
E. Administrative Expense Rate		1.01%	0.81%	1.70%	1.33%	0.86%	1.61%	1.44%
F. Net June 30, 2016 Contribution Rate (C+D+E)		22.06%	17.78%	37.22%	29.05%	18.81%	35.27%	31.63%
			South Marin	South Marin	South Marin	South Marin		
	LAFCO	LAFCO Tier	Fire Safety	Fire Safety	Fire Safety	Fire Safety	Special	Total
	Tier 3	4	Tier 1	Tier 2	Tier 2A	Tier 3A	Districts	County
A. Total Normal Cost Rate	20.08%	11.27%	38.40%	40.92%	35.33%	31.93%	31.21%	21.93%
B. Member Contribution Rate (Excluding Admin Expense Load)	7.23%	<u>8.66</u> %	14.28%	<u>12.95</u> %	12.54%	<u>15.97</u> %	<u>11.82</u> %	<u>10.36%</u>
C. Employer Normal Cost Rate (A-B)	12.85%	2.61%	24.12%	27.97%	22.79%	15.96%	19.39%	11.57%
D. UAL Amortization Rate	5.49%	5.49%	11.57%	11.57%	11.57%	11.57%	14.19%	13.37%
E. Administrative Expense Rate	0.88%	0.39%	1.71%	1.89%	1.64%	1.32%	<u>1.61%</u>	<u>1.19%</u>
F. Net June 30, 2016 Contribution Rate (C+D+E)	19.22%	8.49%	37.40%	41.43%	36.00%	28.85%	35.19%	26.13%



SECTION IV – CONTRIBUTIONS

Development of the			~		~	~	~ .	~
			Courts	Courts	Courts	Courts	Courts	Cour
A Tatal Namual Cast Data			Tier 1	Tier 2	Tier 3	Tier 4	Tier 5	Tota
A. Total Normal Cost Rate			15.53%	15.31%	18.99%	22.17%	17.96%	18.85
B. Member Contribution Rate (Excluding Admin Expense Load)			<u>0.00</u> %	<u>7.48</u> %	<u>8.92</u> %	<u>10.74</u> %	<u>8.66</u> %	<u>8.73</u>
C. Employer Normal Cost Rate (A-B)			15.53%	7.83%	10.07%	11.43%	9.30%	10.12
D. UAL Amortization Rate			17.11%	17.11%	17.11%	17.11%	17.11%	17.1
E. Administrative Expense Rate			1.56%	1.19%	1.30%	1.36%	1.26%	1.30
F. Net June 30, 2016 Contribution Rate (C+D+E)			34.20%	26.13%	28.48%	29.90%	27.67%	28.53
F. Net June 30, 2016 Contribution Rate (C+D+E)			34.20%	26.13%	28.48%	29.90% Novato	27.67%	28.5.
F. Net June 30, 2016 Contribution Rate (C+D+E)	Novato Misc	Novato Misc	34.20% Novato		28.48% Novato Safety		27.67% Novato	28.53 Nova
F. Net June 30, 2016 Contribution Rate (C+D+E)	Novato Misc Tier 1	Novato Misc Tier 2A				Novato		
			Novato	Novato Safety	Novato Safety	Novato Safety	Novato	Nova
A. Total Normal Cost Rate	Tier 1	Tier 2A	Novato Misc	Novato Safety Tier 1	Novato Safety Tier 2	Novato Safety Tier 3	Novato Safety	Nove Tot 35.5
 A. Total Normal Cost Rate B. Member Contribution Rate (Excluding Admin Expense Load) 	Tier 1 22.32%	Tier 2A 19.49%	<i>Novato</i> <i>Misc</i> 21.84%	Novato Safety Tier 1 37.54%	Novato Safety Tier 2 40.69%	Novato Safety Tier 3 28.29%	Novato Safety 36.97%	Nove Tot
 A. Total Normal Cost Rate B. Member Contribution Rate (Excluding Admin Expense Load) C. Employer Normal Cost Rate (A-B) 	Tier 1 22.32% <u>9.49</u> %	Tier 2A 19.49% <u>8.66</u> %	<i>Novato</i> <i>Misc</i> 21.84% <u>9.36</u> %	Novato Safety Tier 1 37.54% <u>13.54</u> %	Novato Safety Tier 2 40.69% <u>13.98</u> %	Novato Safety Tier 3 28.29% 14.15%	<i>Novato</i> <i>Safety</i> 36.97% <u>13.54</u> %	Nova Tot 35.5. <u>13.2</u> .
 F. Net June 30, 2016 Contribution Rate (C+D+E) A. Total Normal Cost Rate B. Member Contribution Rate (Excluding Admin Expense Load) C. Employer Normal Cost Rate (A-B) D. UAL Amortization Rate E. Administrative Expense Rate 	Tier 1 22.32% <u>9.49%</u> 12.83%	Tier 2A 19.49% <u>8.66</u> % 10.83%	Novato Misc 21.84% <u>9.36</u> % 12.48%	Novato Safety Tier 1 37.54% <u>13.54</u> % 24.00%	Novato Safety Tier 2 40.69% <u>13.98</u> % 26.71%	Novato Safety Tier 3 28.29% 14.15% 14.14%	Novato Safety 36.97% <u>13.54</u> % 23.43%	Nov Tot 35.5 <u>13.2</u> 22.3



SECTION IV – CONTRIBUTIONS

				San Rafael	San Rafael	San Rafael	San Rafa
				Misc Tier 1	Misc Tier 2	Misc Tier 3	Misc
A. Total Normal Cost Rate				27.28%	21.32%	16.01%	24.67%
B. Member Contribution Rate (Excluding Admin Expense Load)				11.83%	8.40%	8.66%	<u>10.94%</u>
C. Employer Normal Cost Rate (A-B)				15.45%	12.92%	7.35%	13.73%
D. UAL Amortization Rate				34.82%	34.82%	34.82%	34.82%
E. Administrative Expense Rate				2.40%	2.28%	2.02%	2.32%
F. Net June 30, 2016 Contribution Rate (C+D+E)				52.67%	50.02%	44.19%	50.87%
	San Rafael	San Rafael	San Rafael	San Rafael	San Rafael	San Rafael	San Rafa
	San Rafael Fire Tier 1	San Rafael Police Tier 1	San Rafael Fire Tier 2	San Rafael Police Tier 2	San Rafael Safety Tier 3	San Rafael Safety	San Rafa Total
A. Total Normal Cost Rate				10 0000 000 - 00		-	v
	Fire Tier 1	Police Tier 1	Fire Tier 2	Police Tier 2	Safety Tier 3	Safety	Total 28.44%
B. Member Contribution Rate (Excluding Admin Expense)	Fire Tier 1 35.37%	Police Tier 1 33.98%	Fire Tier 2 30.39%	Police Tier 2 34.21%	Safety Tier 3 23.59%	Safety 32.33%	Total 28.44% <u>11.86%</u>
 A. Total Normal Cost Rate B. Member Contribution Rate (Excluding Admin Expense) C. Employer Normal Cost Rate (A-B) D. UAL Amortization Rate 	Fire Tier 1 35.37% <u>13.48</u> %	Police Tier 1 33.98% <u>12.86</u> %	Fire Tier 2 30.39% <u>11.10</u> %	Police Tier 2 34.21% 12.67%	Safety Tier 3 23.59% <u>12.49</u> %	Safety 32.33% 12.90%	Total
B. Member Contribution Rate (Excluding Admin Expense)C. Employer Normal Cost Rate (A-B)	Fire Tier 1 35.37% <u>13.48</u> % 21.89%	Police Tier 1 33.98% <u>12.86</u> % 21.12%	Fire Tier 2 30.39% <u>11.10%</u> 19.29%	Police Tier 2 34.21% <u>12.67</u> % 21.54%	Safety Tier 3 23.59% <u>12.49%</u> 11.10%	Safety 32.33% <u>12.90</u> % 19.43%	Total 28.449 <u>11.869</u> 16.589



SECTION IV - CONTRIBUTIONS

The following table shows the contribution rates for the new benefit Tiers for those employers that did not have any active members in those Tiers as of June 30, 2016. The Normal Cost rates for these Tiers are based on the pooled demographic profiles of the employers with current active PEPRA members.

Table IV-7 Development of Contribution Rates for New Tiers with No Active	Members as of June 30, 2016 for FYE 2018		
		Marin City CSD Tier 2	Novato Misc Tier 2
A. Total Normal Cost Rate	28.29%	19.12%	19.12%
B. Member Contribution Rate (Excluding Admin Expense Load)	14.15%	<u>9.56</u> %	<u>9.56</u> %
C. Employer Normal Cost Rate (A-B)	14.14%	9.56%	9.56%
D. UAL Amortization Rate	11.57%	6.82%	6.94%
E. Administrative Expense Rate	<u>1.23%</u>	0.78%	0.79%
F. Net June 30, 2016 Contribution Rate (C+D+E)	26.94%	17.16%	17.29%



SECTION IV – CONTRIBUTIONS

Table IV-8 contains a comparison of the employer contribution rates for each employer and Tier
to the prior year rates, as well as the number of active members in each Tier as of June 30, 2016.

Table IV-8					
Plan	Group	# of Active Members	2015	2016	
County	County Misc Tier 1	14	29.87%	29.73%	
	County Misc Tier 2	51	23.83%	23.73%	
	County Misc Tier 3	904	22.96%	22.72%	
	County Misc Tier 3A	117	23.65%	23.47%	
	County Misc Tier 4	138	23.60%	23.69%	
	County Misc Tier 5 (PEPRA)	458	21.31%	21.08%	
	County Misc	1,682	22.93%	22.54%	
	County Safety Tier 1A	1	20.78%	21.22%	
	County Safety Tier 2A	61	40.60%	40.51%	
	County Safety Tier 2B	221	35.89%	36.64%	
	County Safety Tier 3 (PEPRA)	74	34.87%	35.01%	
	County Safety	357	36.49%	36.91%	
	County Misc/Safety	2,039	25.89%	25.50%	
	Courts Tier 1	2	40.40%	34.20%	
	Courts Tier 2	1	25.51%	26.13%	
	Courts Tier 3	76	28.01%	28.48%	
	Courts Tier 4	4	28.75%	29.90%	
	Courts Tier 5 (PEPRA)	17	30.64%	27.67%	
	Courts	100	28.75%	28.53%	
	South Marin Fire Misc Tier 1	1	29.80%	22.06%	
	South Marin Fire Misc Tier 2 (PEPRA)	2	N/A	17.78%	
	South Marin Fire Safety Tier 1	15	37.86%	37.40%	
	South Marin Fire Safety Tier 2	24	41.23%	41.43%	
	South Marin Fire Safety Tier 2A	2	35.97%	36.00%	
	South Marin Fire Safety Tier 3A (PEPRA)	10	29.40%	28.85%	
	Mosquito District Tier 1	30	33.78%	35.27%	
	Mosquito District Tier 2 (PEPRA)	1	N/A	31.63%	
	LAFCO Tier 3	2	24.05%	19.22%	
	LAFCO Tier 4 (PEPRA)	1	N/A	8.49%	
	Tamalpais CSD Tier 1	9	35.61%	37.22%	
	Tamalpais CSD Tier 2 (PEPRA)	2	29.58%	29.05%	
	Marin City CSD	5	21.44%	18.81%	
	Special Districts	104	36.10%	35.19%	
	Total County	2,243	26.50%	26.13%	
Novato	Novato Misc Tier 1	7	21.49%	20.72%	
	Novato Misc Tier 2A (PEPRA)	3	N/A	18.62%	
	Novato Safety Tier 1	53	52.09%	51.68%	
	Novato Safety Tier 2	7	53.96%	54.52%	
	Novato Safety Tier 3 (PEPRA)	7	41.12%	41.35%	
	Total Novato	77	48.69%	48.06%	
San Rafael	San Rafael Misc Tier 1	151	50.40%	52.67%	
	San Rafael Misc Tier 2	21	46.81%	50.02%	
	San Rafael Misc Tier 3 (PEPRA)	49	42.11%	44.19%	
	San Rafael Misc	221	49.06%	50.87%	
	San Rafael Fire Tier 1	39	75.67%	74.12%	
	San Rafael Police Tier 1	49	74.79%	73.31%	
	San Rafael Fire Tier 2	14	72.59%	71.40%	
	San Rafael Police Tier 2	5	75.53%	73.75%	
	San Rafael Safety Tier 3 (PEPRA)	29	64.88%	62.82%	
	San Rafael Safety	136	74.00%	71.54%	



APPENDIX A – MEMBERSHIP INFORMATION

The data for this valuation was provided by MCERA as of June 30, 2016. Cheiron did not audit any of the data; however, it was reviewed to ensure that it complies with generally accepted actuarial standards.

Data pertaining to active and inactive Members and their beneficiaries as of the valuation date was supplied by the Plan Administrator on electronic media. As is usual in studies of this type, Member data was neither verified nor audited.



APPENDIX A – MEMBERSHIP INFORMATION

Participant Data as of Jun	e 30, 2016: Cou	inty of Ma	rin											
			Marin Co						Marin Speci				Total Co	
	Miscellane		Safe		Tot		Miscell		Saf		To		Special I	
	6/30/2015	6/30/2016	6/30/2015	6/30/2016	6/30/2015	6/30/2016	6/30/2015	6/30/2016	6/30/2015	6/30/2016	6/30/2015	6/30/2016	6/30/2015	6/30/2016
Active Participants	1,623	1,682	359	357	1,982	2,039	154	153	49	51	203	204	2,185	2,243
Number	49.09	48.81	41.26	40.83	47.67	2,039 47.41	51.48	50.07	49	41.11	49.17	47.83	47.81	2,245 47.45
Average Age Average Service	49.09	40.01	11.03	40.85	10.70	10.52	13.26	12.48	7.65	7.73	49.17	47.85	47.81	47.43
Average Pay*	\$81,673	\$84,391	\$102,469	\$103,649	\$85,440	\$87,763	\$74,676	\$77,440	\$103,369	\$103,297	\$81,602	\$83,904	\$85,083	\$87,412
Average Pay	\$61,075	\$64,391	\$102,409	\$105,049	\$65,440	\$87,705	\$74,070	\$77,440	\$105,509	\$105,297	\$61,002	\$65,904	\$65,065	\$67,412
Service Retired														
Number	1,399	1,447	219	234	1,618	1,681	102	120	22	24	124	144	1,742	1,825
Average Age	72.25	72.35	63.55	63.78	71.07	71.16	67.08	67.17	61.88	62.25	66.16	66.35	70.72	70.78
Average Total Benefit*	\$34,794	\$35,394	\$66,927	\$68,116	\$39,144	\$39,949	\$36,154	\$36,118	\$73,717	\$74,360	\$42,819	\$42,491	\$39,405	\$40,150
Beneficiaries														
Number	243	254	62	63	305	317	8	12	9	9	17	21	322	338
Average Age	74.93	74.65	69.67	69.37	73.86	73.60	70.76	66.38	64.86	65.86	67.64	66.15	73.53	73.14
Average Total Benefit*	\$22,723	\$23,174	\$38,665	\$38,674	\$25,964	\$26,254	\$18,026	\$14,550	\$40,435	\$41,502	\$29,890	\$26,101	\$26,171	\$26,245
Duty Disabled														
Number	86	85	100	101	186	186	3	3	16	16	19	19	205	205
Average Age	65.68	66.81	61.88	62.30	63.64	64.36	61.83	62.83	64.42	65.42	64.01	65.01	63.67	64.42
Average Total Benefit*	\$35,522	\$36,358	\$49,279	\$50,937	\$42,918	\$44,275	\$21,669	\$22,211	\$51,780	\$53,075	\$47,026	\$48,201	\$43,299	\$44,639
Ordinary Disabled														
Number	29	31	7	7	36	38	3	3	1	1	4	4	40	42
Average Age	68.43	68.50	54.56	54.38	65.74	65.90	64.21	65.21	55.21	56.21	61.96	62.96	65.36	65.62
Average Total Benefit*	\$20,345	\$20,490	\$47,175	\$46,360	\$25,562	\$25,256	\$25,437	\$25,946	\$54,260	\$55,617	\$32,643	\$33,363	\$26,270	\$26,028
Total In Pay														
Number	1,757	1,817	388	405	2,145	2,222	116	138	48	50	164	188	2,309	2,410
Average Age	72.23	72.35	63.94	64.12	70.73	70.85	67.13	66.96	63.15	63.79	65.96	66.12	70.39	70.48
Average Total Benefit*	\$32,922	\$33,477	\$57,506	\$58,876	\$37,369	\$38,106	\$34,252	\$33,719	\$59,759	\$61,259	\$41,718	\$41,043	\$37,678	\$38,335
Terminated Vested														
Number	174	175	20	21	194	196	17	16	3	4	20	20	214	216
Average Age	50.95	49.55	42.88	45.72	50.12	49.14	48.23	45.85	49.85	50.11	48.47	46.70	49.97	48.91
Average Service	7.81	7.57	6.95	7.13	7.72	7.53	8.88	8.52	2.24	2.58	7.88	7.33	7.73	7.51
Transfers														
Number	203	195	62	68	265	263	27	24	16	16	43	40	308	303
Average Age	50.38	49.61	45.39	45.01	49.21	48.42	50.01	49.36	45.53	46.53	48.34	48.23	49.09	48.40
Average Service	4.80	5.03	4.95	4.86	4.83	4.99	5.48	5.29	5.81	4.95	5.60	5.15	4.94	5.01
Total Inactive														
Number	377	370	82	89	459	459	44	40	19	20	63	60	522	519
Average Age	50.65	49.58	44.78	45.18	49.60	48.73	49.32	47.96	46.21	47.24	48.38	47.72	49.45	48.61
Average Service	6.19	6.23	5.44	5.39	6.05	6.07	6.79	6.58	5.25	4.47	6.33	5.88	6.09	6.05

*All payroll and benefit figures shown are annual



Participant Data as of J	une 30, 2016	6: County of	Marin									
	Tie	r 1	Tie	r 2	Tie	r 3	Tier	3A	Tie	r 4	Tie	r 5
	Miscell	aneous	Miscella	aneous	Miscella	aneous	Miscell	aneous	Miscella	aneous	Miscell	aneous
	6/30/2015	6/30/2016	6/30/2015	6/30/2016	6/30/2015	6/30/2016	6/30/2015	6/30/2016	6/30/2015	6/30/2016	6/30/2015	6/30/2016
Active Participants												
Number	16	14	54	51	967	904	133	117	139	138	314	458
Average Age	63.91	64.77	62.49	63.01	52.29	53.09	45.52	46.21	43.36	44.40	40.25	40.27
Average Service	32.56	33.89	17.09	18.18	14.77	15.65	5.51	6.49	2.38	3.15	1.47	1.80
Average Pay*	\$104,155	\$111,557	\$72,918	\$76,202	\$86,589	\$90,391	\$85,251	\$89,357	\$75,948	\$82,137	\$67,915	\$72,041
Service Retired												
Number	594	567	247	244	556	630	1	5	1	1	0	0
Average Age	76.94	77.49	76.61	77.36	65.32	65.89	65.29	61.14	60.47	61.47	0.00	0.00
Average Total Benefit*	\$44,469	\$46,483	\$21,514	\$21,974	\$30,426	\$30,845	\$21,269	\$10,858	\$10,816	\$11,032	\$0	\$0
Beneficiaries												
Number	164	166	44	46	35	42	0	0	0	0	0	0
Average Age	79.41	79.43	71.32	70.48	58.48	60.34	0.00	0.00	0.00	0.00	0.00	0.00
Average Total Benefit*	\$25,838	\$26,501	\$13,468	\$14,251	\$19,765	\$19,795	\$0	\$0	\$0	\$0	\$0	\$0
Duty Disabled												
Number	23	23	30	29	33	33	0	0	0	0	0	0
Average Age	72.17	73.17	64.29	65.62	62.42	63.42	0.00	0.00	0.00	0.00	0.00	0.00
Average Total Benefit*	\$38,941	\$39,973	\$27,615	\$28,058	\$40,327	\$41,133	\$0	\$0	\$0	\$0	\$0	\$0
Ordinary Disabled												
Number	11	11	11	11	7	9	0	0	0	0	0	0
Average Age	71.09	72.09	69.68	70.68	62.31	61.47	0.00	0.00	0.00	0.00	0.00	0.00
Average Total Benefit*	\$23,176	\$23,827	\$17,334	\$17,680	\$20,630	\$19,846	\$0	\$0	\$0	\$0	\$0	\$0
Total In Pay												
Number	792	767	332	330	631	714	1	5	1	1	0	0
Average Age	77.24	77.70	74.57	75.15	64.76	65.39	65.29	61.14	60.47	61.47	0.00	0.00
Average Total Benefit*	\$40,155	\$41,638	\$20,860	\$21,289	\$30,243	\$30,532	\$21,269	\$10,858	\$10,816	\$11,032	\$0	\$0
Terminated Vested												
Number	2	3	3	3	161	153	6	10	1	5	1	1
Average Age	73.35	69.63	60.50	61.50	50.88	49.56	41.83	43.84	36.20	39.38	58.67	59.67
Average Service	5.95	4.77	5.42	5.42	8.00	7.93	5.01	5.71	0.62	2.37	11.97	11.97
Transfers												
Number	2	1	9	8	174	163	10	14	6	5	2	4
Average Age	58.86	59.84	58.43	60.42	50.54	49.95	47.54	45.76	42.30	43.57	30.26	32.59
Average Service	11.57	9.43	3.12	2.40	5.08	5.48	2.69	3.17	1.59	1.26	1.58	2.02
Total Inactive												
Number	4	4	12	11	335	316	16	24	7	10	3	5
Average Age	66.10	67.19	58.95	60.71	50.70	49.76	45.40	44.96	41.43	41.48	39.73	38.01
Average Service	8.76	5.93	3.70	3.23	6.48	6.67	3.56	4.23	1.45	1.82	5.04	4.01



Participant Data as of J	une 30, 2016	: County of	Marin							
	Tier	1A	Tier	2A	Tier	1B	Tier	2B	Tie	r 3
	Saf		Safe		Saf		Saf		Safe	
	6/30/2015	6/30/2016	6/30/2015	6/30/2016	6/30/2015	6/30/2016	6/30/2015	6/30/2016	6/30/2015	6/30/2016
Active Participants										
Number	1	1	63	61	0	0	241	221	54	74
Average Age	67.91	68.91	46.37	46.29	0.00	0.00	42.28	42.80	30.21	30.04
Average Service	30.30	31.31	11.91	12.76	0.00	0.00	12.96	13.34	0.99	1.57
Average Pay*	\$214,061	\$223,136	\$92,847	\$97,131	\$0	\$0	\$111,338	\$113,826	\$72,051	\$77,016
Service Retired										
Number	70	68	24	26	31	31	94	109	0	0
Average Age	72.19	72.88	63.69	64.79	61.98	62.95	57.61	58.11	0.00	0.00
Average Total Benefit*	\$74,996	\$75,061	\$41,113	\$41,630	\$93,910	\$96,258	\$58,610	\$62,097	\$0	\$0
Beneficiaries										
Number	45	45	7	5	4	4	6	9	0	0
Average Age	74.24	74.34	58.75	58.37	52.40	53.40	59.59	57.72	0.00	0.00
Average Total Benefit*	\$39,803	\$40,936	\$38,473	\$35,430	\$13,636	\$13,977	\$47,042	\$40,140	\$0	\$0
Duty Disabled										
Number	40	39	26	26	6	6	28	30	0	0
Average Age	71.82	72.52	55.91	56.91	60.01	61.01	53.61	53.95	0.00	0.00
Average Total Benefit*	\$49,029	\$50,820	\$36,401	\$37,755	\$103,781	\$106,376	\$49,915	\$51,426	\$0	\$0
Ordinary Disabled										
Number	1	1	2	2	0	0	4	4	0	0
Average Age	68.72	69.72	53.37	54.37	0.00	0.00	51.63	50.56	0.00	0.00
Average Total Benefit*	\$23,870	\$24,467	\$29,501	\$30,091	\$0	\$0	\$61,839	\$59,967	\$0	\$0
Total In Pay										
Number	156	153	59	59	41	41	132	152	0	0
Average Age	72.67	73.20	59.33	60.42	60.75	61.73	56.67	57.07	0.00	0.00
Average Total Benefit*	\$57,858	\$58,514	\$38,329	\$39,006	\$87,523	\$89,711	\$56,338	\$58,635	\$0	\$0
Terminated Vested										
Number	0	0	6	6	0	0	13	14	1	1
Average Age	0.00	0.00	38.87	44.69	0.00	0.00	43.69	45.32	56.44	57.44
Average Service	0.00	0.00	9.52	10.00	0.00	0.00	6.12	6.25	2.37	2.37
Transfers										
Number	0	0	6	8	1	0	55	59	0	1
Average Age	0.00	0.00	41.37	41.51	61.08	0.00	45.55	45.65	0.00	34.90
Average Service	0.00	0.00	4.67	4.57	4.25	0.00	5.00	4.97	0.00	0.31
Total Inactive										
Number	0	0	12	14	1	0	68	73	1	2
Average Age	0.00	0.00	40.12	42.87	61.08	0.00	45.19	45.59	56.44	46.17
Average Service	0.00	0.00	7.09	6.89	4.25	0.00	5.21	5.22	2.37	1.34



Participant Data as of Ju	ıne 30, 2016: I	Marin Speci	al Districts											
	Court T	ier 1	Court T Miscella		Court T		Court T Miscella		Court		To	4-1	Marin Ci	
	Miscellar 6/30/2015	6/30/2016	6/30/2015		Miscella: 6/30/2015	6/30/2016		6/30/2016	Miscell: 6/30/2015		6/30/2015		Miscella 6/30/2015	
Active Participants	0/00/2020	010012020	0/00/2020	010012020	0/00/2020	010012020	0/00/2020	010012020	010012020	0/00/2020	0/00/2020	0/20/2020	0/00/2020	0/2020
Number	3	2	1	1	88	76	4	4	6	17	102	100	5	5
Average Age	58.23	58.91	47.60	48.60	52.22	52.27	49.50	50.47	49.30	40.01	52.08	50.21	49.65	45.36
Average Service	29.06	35.40	14.02	15.02	14.49	15.21	7.75	7.56	0.95	0.97	13.85	12.88	8.80	5.27
Average Pay*	\$137,109	\$98,807	\$54,245	\$56,511	\$70,352	\$73,225	\$63,226	\$67,723	\$39,195	\$68,002	\$70,046	\$72,461	\$56,255	\$67,369
Service Retired														
Number	16	17	11	12	49	61	0	0	0	0	76	90	0	1
Average Age	69.13	69.52	76.73	76.72	64.94	65.25	0.00	0.00	0.00	0.00	67.53	67.59	0.00	67.52
Average Total Benefit*	\$59,697	\$63,766	\$34,203	\$33,926	\$27,085	\$27,718	\$0	\$0	\$0	\$0	\$34,981	\$35,354	\$0	\$30,846
Beneficiaries														
Number	0	0	0	0	3	4	0	0	0	0	3	4	1	1
Average Age	0.00	0.00	0.00	0.00	64.99	68.44	0.00	0.00	0.00	0.00	64.99	68.44	80.31	81.31
Average Total Benefit*	\$0	\$0	\$0	\$0	\$15,398	\$15,559	\$0	\$0	\$0	\$0	\$15,398	\$15,559	\$24,327	\$24,935
Duty Disabled														
Number	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Age	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Total Benefit*	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Ordinary Disabled														
Number	0	0	1	1	2	2	0	0	0	0	3	3	0	0
Average Age	0.00	0.00	68.71	69.71	61.96	62.96	0.00	0.00	0.00	0.00	64.21	65.21	0.00	0.00
Average Total Benefit*	\$0	\$0	\$13,306	\$13,572	\$31,502	\$32,132	\$0	\$0	\$0	\$0	\$25,437	\$25,946	\$0	\$0
Total In Pay														
Number	16	17	12	13	54	67	0	0	0	0	82	97	1	2
Average Age	69.13	69.52	76.06	76.18	64.84	65.37	0.00	0.00	0.00	0.00	67.32	67.55	80.31	74.42
Average Total Benefit*	\$59,697	\$63,766	\$32,461	\$32,360	\$26,600	\$27,123	\$0	\$0	\$0	\$0	\$33,916	\$34,247	\$24,327	\$27,891
Terminated Vested														
Number	0	0	1	0	14	14	1	0	0	0	16	14	0	0
Average Age	0.00	0.00	64.65	0.00	46.07	44.77	38.51	0.00	0.00	0.00	46.76	44.77	0.00	0.00
Average Service	0.00	0.00	14.91	0.00	8.64	8.40	6.14	0.00	0.00	0.00	8.87	8.40	0.00	0.00
Transfers														
Number	0	0	2	2	21	20	1	1	0	0	24	23	0	0
Average Age	0.00	0.00	58.44	59.44	49.40	49.30	28.81	29.81	0.00	0.00	49.30	49.33	0.00	0.00
Average Service	0.00	0.00	3.53	3.53	5.35	5.34	2.04	2.04	0.00	0.00	5.06	5.04	0.00	0.00
Total Inactive														
Number	0	0	3	2	35	34	2	1	0	0	40	37	0	0
Average Age	0.00	0.00	60.51	59.44	48.07	47.44	33.66	29.81	0.00	0.00	48.28	47.61	0.00	0.00
Average Service	0.00	0.00	7.32	3.53	6.67	6.60	4.09	2.04	0.00	0.00	6.59	6.31	0.00	0.00



Participant Data as of J	une 30,2016: N	Jarin Specia	al Districts													
	Southern M Tier 1 Misc 6/30/2015		Southern M Tier 2 Misc 6/30/2015		Tot 6/30/2015	al 6/30/2016	Southern M Tier 1 S 6/30/2015		Southern M Tier 2 5 6/30/2015		Southern M Tier 2A 6/30/2015		Southern M Tier 3A 6/30/2015		Tot 6/30/2015	al 6/30/2016
Active Participants																
Number	1	1	0	2	1	3	16	15	26	24	1	2	6	10	49	51
Average Age	53.41	54.41	0.00	48.06	53.41	50.17	47.13	47.18	40.90	41.38	33.19	32.92	33.91	33.01	41.92	41.11
Average Service	10.91	11.92	0.00	2.89	10.91	5.90	15.54	16.43	4.62	5.56	1.01	1.10	0.83	1.24	7.65	7.73
Average Pay*	\$86,498	\$86,803	\$0	\$90,004	\$86,498	\$88,937	\$109,980	\$114,640	\$100,908	\$103,701	\$93,482	\$88,927	\$98,055	\$88,188	\$103,369	\$103,297
Service Retired																
Number	3	3	0	0	3	3	21	23	1	1	0	0	0	0	22	24
Average Age	69.17	70.17	0.00	0.00	69.17	70.17	61.95	62.29	60.32	61.32	0.00	0.00	0.00	0.00	61.88	62.25
Average Total Benefit*	\$23,989	\$24,588	\$0	\$0	\$23,989	\$24,588	\$77,012	\$77,391	\$4,535	\$4,648	\$0	\$0	\$0	\$0	\$73,717	\$74,360
Beneficiaries																
Number	0	0	0	0	0	0	9	9	0	0	0	0	0	0	9	9
Average Age	0.00	0.00	0.00	0.00	0.00	0.00	64.86	65.86	0.00	0.00	0.00	0.00	0.00	0.00	64.86	65.86
Average Total Benefit*	\$0	\$0	\$0	\$0	\$0	\$0	\$40,435	\$41,502	\$0	\$0	\$0	\$0	\$0	\$0	\$40,435	\$41,502
Duty Disabled																
Number	1	1	0	0	1	1	16	16	0	0	0	0	0	0	16	16
Average Age	71.28	72.28	0.00	0.00	71.28	72.28	64.42	65.42	0.00	0.00	0.00	0.00	0.00	0.00	64.42	65.42
Average Total Benefit*	\$4,021	\$4,121	\$0	\$0	\$4,021	\$4,121	\$51,780	\$53,075	\$0	\$0	\$0	\$0	\$0	\$0	\$51,780	\$53,075
Ordinary Disabled																
Number	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	1
Average Age	0.00	0.00	0.00	0.00	0.00	0.00	55.21	56.21	0.00	0.00	0.00	0.00	0.00	0.00	55.21	56.21
Average Total Benefit*	\$0	\$0	\$0	\$0	\$0	\$0	\$54,260	\$55,617	\$0	\$0	\$0	\$0	\$0	\$0	\$54,260	\$55,617
Total In Pay																
Number	4	4	0	0	4	4	47	49	1	1	0	0	0	0	48	50
Average Age	69.70	70.70	0.00	0.00	69.70	70.70	63.21	63.84	60.32	61.32	0.00	0.00	0.00	0.00	63.15	63.79
Average Total Benefit*	\$18,997	\$19,472	\$0	\$0	\$18,997	\$19,472	\$60,934	\$62,415	\$4,535	\$4,648	\$0	\$0	\$0	\$0	\$59,759	\$61,259
Terminated Vested																
Number	1	1	0	0	1	1	1	1	2	3	0	0	0	0	3	4
Average Age	71.85	72.85	0.00	0.00	71.85	72.85	52.15	53.15	48.70	49.10	0.00	0.00	0.00	0.00	49.85	50.11
Average Service	8.92	8.92	0.00	0.00	8.92	8.92	0.54	0.54	3.10	3.26	0.00	0.00	0.00	0.00	2.24	2.58
Transfers																
Number	0	0	0	0	0	0	11	10	5	6	0	0	0	0	16	16
Average Age	0.00	0.00	0.00	0.00	0.00	0.00	50.03	51.29	35.62	38.58	0.00	0.00	0.00	0.00	45.53	46.53
Average Service	0.00	0.00	0.00	0.00	0.00	0.00	6.67	5.93	3.92	3.31	0.00	0.00	0.00	0.00	5.81	4.95
Total Inactive																
Number	1	1	0	0	1	1	12	11	7	9	0	0	0	0	19	20
Average Age	71.85	72.85	0.00	0.00	71.85	72.85	50.20	51.46	39.36	42.09	0.00	0.00	0.00	0.00	46.21	47.24
Average Service	8.92	8.92	0.00	0.00	8.92	8.92	6.16	5.44	3.69	3.29	0.00	0.00	0.00	0.00	5.25	4.47



	Southern M	1arin Fire	Mosquito	District	Mosquito	District		
	Tot	al	Tier 1 Misc	ellaneous	Tier 2 Misc	ellaneous	Tot	tal
	6/30/2015	6/30/2016	6/30/2015	6/30/2016	6/30/2015	6/30/2016	6/30/2015	6/30/201
Active Participants								
Number	50	54	33	30	0	1	33	3
Average Age	42.15	41.62	49.93	50.49	0.00	41.85	49.93	50.2
Average Service	7.72	7.63	12.63	13.51	0.00	0.75	12.63	13.1
Average Pay*	\$103,032	\$102,499	\$88,908	\$92,008	\$0	\$76,193	\$88,908	\$91,49
Service Retired								
Number	25	27	13	14	0	0	13	1
Average Age	62.75	63.13	64.87	64.97	0.00	0.00	64.87	64.9
Average Total Benefit*	\$67,750	\$68,830	\$56,486	\$56,522	\$0	\$0	\$56,486	\$56,52
Beneficiaries								
Number	9	9	3	4	0	0	3	
Average Age	64.86	65.86	70.64	71.45	0.00	0.00	70.64	71.4
Average Total Benefit*	\$40,435	\$41,502	\$16,581	\$15,721	\$0	\$0	\$16,581	\$15,72
Duty Disabled								
Number	17	17	1	1	0	0	1	
Average Age	64.82	65.82	70.91	71.91	0.00	0.00	70.91	71.9
Average Total Benefit*	\$48,971	\$50,195	\$33,722	\$34,565	\$0	\$0	\$33,722	\$34,56
Ordinary Disabled								
Number	1	1	0	0	0	0	0	
Average Age	55.21	56.21	0.00	0.00	0.00	0.00	0.00	0.0
Average Total Benefit*	\$54,260	\$55,617	\$0	\$0	\$0	\$0	\$0	\$
Total In Pay								
Number	52	54	17	19	0	0	17	1
Average Age	63.65	64.31	66.24	66.70	0.00	0.00	66.24	66.7
Average Total Benefit*	\$56,623	\$58,164	\$48,105	\$46,777	\$0	\$0	\$48,105	\$46,77
Terminated Vested								
Number	4	5	0	1	0	0	0	
Average Age	55.35	54.66	0.00	33.97	0.00	0.00	0.00	33.9
Average Service	3.91	3.85	0.00	9.85	0.00	0.00	0.00	9.8
Transfers								
Number	16	16	1	1	0	0	1	
Average Age	45.53	46.53	49.03	50.03	0.00	0.00	49.03	50.0
Average Service	5.81	4.95	11.00	11.00	0.00	0.00	11.00	11.0
Total Inactive								
Number	20	21	1	2	0	0	1	
Average Age	47.49	48.46	49.03	42.00	0.00	0.00	49.03	42.0
Average Service	5.43	4.68	11.00	10.43	0.00	0.00	11.00	10.4



Participant Data as of J	LAFCO		LAFCO		LAFCO	Tion 4			Tamalp	ata CED	Tamalpa	de CED		
	Miscella		Miscell		Miscella		Tot		Tier 1 Mis		Tier 2 Mise		Tot	
	6/30/2015	6/30/2016	6/30/2015	6/30/2016	6/30/2015	6/30/2016	6/30/2015	6/30/2016	6/30/2015	6/30/2016	6/30/2015	6/30/2016	6/30/2015	6/30/201
Active Participants														
Number	0	0	2	2	0	1	2	3	9	9	2	2	11	1
Average Age	0.00	0.00	42.14	43.14	0.00	26.52	42.14	37.60	57.69	58.69	31.47	32.47	52.92	53.9
Average Service	0.00	0.00	5.25	6.11	0.00	0.70	5.25	4.31	16.04	17.05	1.21	2.21	13.34	14.35
Average Pay*	\$0	\$0	\$94,595	\$101,832	\$0	\$71,032	\$94,595	\$91,565	\$82,887	\$85,236	\$59,271	\$60,119	\$78,593	\$80,670
Service Retired														
Number	2	2	2	2	0	0	4	4	6	8	0	0	6	5
Average Age	67.38	68.38	56.76	57.76	0.00	0.00	62.07	63.07	68.52	67.16	0.00	0.00	68.52	67.10
Average Total Benefit*	\$25,598	\$26,238	\$5,605	\$5,717	\$0	\$0	\$15,602	\$15,978	\$26,743	\$24,050	\$0	\$0	\$26,743	\$24,050
Beneficiaries														
Number	0	0	0	0	0	0	0	0	1	3	0	0	1	2
Average Age	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	78.92	51.89	0.00	0.00	78.92	51.89
Average Total Benefit*	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$23,948	\$8,182	\$0	\$0	\$23,948	\$8,182
Duty Disabled														
Number	0	0	0	0	0	0	0	0	1	1	0	0	1	
Average Age	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	43.31	44.31	0.00	0.00	43.31	44.3
Average Total Benefit*	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$27,264	\$27,946	\$0	\$0	\$27,264	\$27,940
Ordinary Disabled														
Number	0	0	0	0	0	0	0	0	0	0	0	0	0	(
Average Age	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
Average Total Benefit*	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total In Pay														
Number	2	2	2	2	0	0	4	4	8	12	0	0	8	12
Average Age	67.38	68.38	56.76	57.76	0.00	0.00	62.07	63.07	66.67	61.44	0.00	0.00	66.67	61.44
Average Total Benefit*	\$25,598	\$26,238	\$5,605	\$5,717	\$0	\$0	\$15,602	\$15,978	\$26,459	\$20,408	\$0	\$0	\$26,459	\$20,408
Terminated Vested														
Number	0	0	0	0	0	0	0	0	0	0	0	0	0	(
Average Age	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
Average Service	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
Transfers														
Number	0	0	0	0	0	0	0	0	2	0	0	0	2	(
Average Age	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	59.08	0.00	0.00	0.00	59.08	0.0
Average Service	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.70	0.00	0.00	0.00	7.70	0.00
Total Inactive														
Number	0	0	0	0	0	0	0	0	2	0	0	0	2	(
Average Age	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	59.08	0.00	0.00	0.00	59.08	0.0
Average Service	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.70	0.00	0.00	0.00	7.70	0.0



Participant Data as of Ju	ane 30, 2016:	Novato Fire	Protection	District						
	Tier	1	Tier	· 2A	Tie	r 1	Tie	r 2	Tie	r 3
	Miscella		Miscell		Saf		Saf		Saf	
	6/30/2015	6/30/2016	6/30/2015	6/30/2016	6/30/2015	6/30/2016	6/30/2015	6/30/2016	6/30/2015	6/30/2016
Active Participants										
Number	8	7	0	3	54	53	7	7	6	7
Average Age	48.62	47.62	0.00	43.67	44.32	45.48	40.21	41.21	29.55	33.45
Average Service	11.21	12.44	0.00	0.72	15.55	16.63	6.60	6.49	1.47	2.25
Average Pay*	\$102,163	\$103,742	\$0	\$49,707	\$123,749	\$128,178	\$107,855	\$111,103	\$99,476	\$108,570
Service Retired										
Number	3	4	0	0	52	52	0	0	0	0
Average Age	64.48	65.03	0.00	0.00	65.55	66.24	0.00	0.00	0.00	0.00
Average Total Benefit*	\$42,542	\$39,449	\$0	\$0	\$93,708	\$95,282	\$0	\$0	\$0	\$0
Beneficiaries										
Number	1	1	0	0	15	15	0	0	0	0
Average Age	51.67	52.67	0.00	0.00	63.91	63.66	0.00	0.00	0.00	0.00
Average Total Benefit*	\$10,934	\$11,207	\$0	\$0	\$40,620	\$41,648	\$0	\$0	\$0	\$0
Duty Disabled										
Number	0	0	0	0	31	31	0	0	0	0
Average Age	0.00	0.00	0.00	0.00	67.47	68.47	0.00	0.00	0.00	0.00
Average Total Benefit*	\$0	\$0	\$0	\$0	\$63,841	\$65,437	\$0	\$0	\$0	\$0
Ordinary Disabled										
Number	0	0	0	0	0	0	0	0	0	0
Average Age	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Total Benefit*	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total In Pay										
Number	4	5	0	0	98	98	0	0	0	0
Average Age	61.28	62.56	0.00	0.00	65.91	66.55	0.00	0.00	0.00	0.00
Average Total Benefit*	\$34,640	\$33,800	\$0	\$0	\$76,135	\$77,632	\$0	\$0	\$0	\$0
Terminated Vested										
Number	1	1	0	0	2	3	0	0	0	0
Average Age	56.56	57.56	0.00	0.00	47.21	44.50	0.00	0.00	0.00	0.00
Average Service	6.16	6.16	0.00	0.00	4.82	7.18	0.00	0.00	0.00	0.00
Transfers										
Number	1	1	0	0	11	10	0	0	0	0
Average Age	52.73	53.73	0.00	0.00	43.08	42.71	0.00	0.00	0.00	0.00
Average Service	1.25	1.25	0.00	0.00	3.14	4.04	0.00	0.00	0.00	0.00
Total Inactive										
Number	2	2	0	0	13	13	0	0	0	0
Average Age	54.65	55.65	0.00	0.00	43.71	43.12	0.00	0.00	0.00	0.00
Average Service	3.71	3.71	0.00	0.00	3.39	4.76	0.00	0.00	0.00	0.00



	Miscella	neous	Saf	ety	To	tal
	6/30/2015	6/30/2016	6/30/2015	6/30/2016	6/30/2015	6/30/201
Active Participants						
Number	8	10	67	67	75	7
Average Age	48.62	46.43	42.57	43.78	43.22	44.1
Average Service	11.21	8.92	13.35	14.07	13.12	13.4
Average Pay*	\$102,163	\$87,532	\$119,915	\$124,345	\$118,021	\$119,56
Service Retired						
Number	3	4	52	52	55	5
Average Age	64.48	65.03	65.55	66.24	65.49	66.1
Average Total Benefit*	\$42,542	\$39,449	\$93,708	\$95,282	\$90,917	\$91,29
Beneficiaries						
Number	1	1	15	15	16	1
Average Age	51.67	52.67	63.91	63.66	63.14	62.9
Average Total Benefit*	\$10,934	\$11,207	\$40,620	\$41,648	\$38,765	\$39,74
Duty Disabled						
Number	0	0	31	31	31	3
Average Age	0.00	0.00	67.47	68.47	67.47	68.4
Average Total Benefit*	\$0	\$0	\$63,841	\$65,437	\$63,841	\$65,43
Ordinary Disabled						
Number	0	0	0	0	0	(
Average Age	0.00	0.00	0.00	0.00	0.00	0.0
Average Total Benefit*	\$0	\$0	\$0	\$0	\$0	\$
Total In Pay						
Number	4	5	98	98	102	10
Average Age	61.28	62.56	65.91	66.55	65.73	66.3
Average Total Benefit*	\$34,640	\$33,800	\$76,135	\$77,632	\$74,507	\$75,50
Terminated Vested						
Number	1	1	2	3	3	
Average Age	56.56	57.56	47.21	44.50	50.32	47.7
Average Service	6.16	6.16	4.82	7.18	5.26	6.9.
Transfers						
Number	1	1	11	10	12	1
Average Age	52.73	53.73	43.08	42.71	43.88	43.7
Average Service	1.25	1.25	3.14	4.04	2.98	3.7
Total Inactive						
Number	2	2	13	13	15	1
Average Age	54.65	55.65	43.71	43.12	45.17	44.7
Average Service	3.71	3.71	3.39	4.76	3.44	4.6



	Miscella	neous	Pol	ice	Fi	re	Total S	afety	Tot	tal
	6/30/2015	6/30/2016	6/30/2015	6/30/2016	6/30/2015	6/30/2016	6/30/2015	6/30/2016	6/30/2015	6/30/201
Active Participants										
Number	221	221	73	83	55	53	128	136	349	35
Average Age	47.62	47.06	39.21	38.19	40.39	41.00	39.72	39.29	44.73	44.1
Average Service	10.95	10.73	10.61	9.56	10.42	10.71	10.53	10.01	10.79	10.4
Average Pay*	\$75,321	\$76,730	\$112,143	\$112,370	\$124,551	\$129,572	\$117,475	\$119,073	\$90,781	\$92,86
Service Retired										
Number	222	234	73	77	82	82	155	159	377	39
Average Age	68.85	69.12	64.61	65.15	66.77	67.01	65.75	66.11	67.58	67.9
Average Total Benefit*	\$33,607	\$35,033	\$64,828	\$65,623	\$86,377	\$89,573	\$76,228	\$77,974	\$51,130	\$52,40
Beneficiaries										
Number	36	35	16	15	20	22	36	37	72	7
Average Age	75.60	75.77	68.41	67.82	69.97	72.15	69.28	70.39	72.44	73.0
Average Total Benefit*	\$15,781	\$16,655	\$31,046	\$31,590	\$36,681	\$37,646	\$34,176	\$35,191	\$24,979	\$26,18
Duty Disabled										
Number	18	17	38	39	21	21	59	60	77	7
Average Age	65.04	65.40	60.75	61.13	65.76	66.71	62.53	63.09	63.12	63.6
Average Total Benefit*	\$26,299	\$27,310	\$51,826	\$53,191	\$79,231	\$81,219	\$61,581	\$63,001	\$53,333	\$55,12
Ordinary Disabled										
Number	2	2	0	0	0	0	0	0	2	
Average Age	82.45	83.45	0.00	0.00	0.00	0.00	0.00	0.00	82.45	83.4
Average Total Benefit*	\$11,415	\$11,719	\$0	\$0	\$0	\$0	\$0	\$0	\$11,415	\$11,71
Total In Pay										
Number	278	288	127	131	123	125	250	256	528	54
Average Age	69.58	69.81	63.93	64.26	67.12	67.86	65.50	66.02	67.65	68.0
Average Total Benefit*	\$30,665	\$32,181	\$56,682	\$58,025	\$77,077	\$79,030	\$66,716	\$68,281	\$47,735	\$49,17
Terminated Vested										
Number	27	24	7	5	2	2	9	7	36	3
Average Age	49.77	50.24	48.33	48.08	52.33	53.33	49.22	49.58	49.63	50.0
Average Service	6.00	5.95	9.55	8.82	4.99	4.99	8.54	7.72	6.63	6.3
Transfers										
Number	53	66	20	20	7	7	27	27	80	9
Average Age	46.65	45.94	47.88	46.08	45.97	46.97	47.38	46.31	46.90	46.0
Average Service	2.83	3.03	5.65	5.06	5.06	5.06	5.50	5.06	3.73	3.6
Total Inactive										
Number	80	90	27	25	9	9	36	34	116	12
Average Age	47.71	47.09	48.00	46.48	47.38	48.38	47.84	46.98	47.75	47.0
Average Service	3.90	3.81	6.66	5.81	5.04	5.04	6.26	5.61	4.63	4.3



Participant Data as of Ju	ne 30, 2016: (City of San	Rafael													
	Tier	1	Tier	2	Tie	r 3	Tie	r 1	Tie	r 2	Tier	r 3	Tie	r 1	Tie	r 2
	Miscella		Miscella		Miscell		Pol		Pol		Safe		Fi		Fi	
	6/30/2015	6/30/2016	6/30/2015	6/30/2016	6/30/2015	6/30/2016	6/30/2015	6/30/2016	6/30/2015	6/30/2016	6/30/2015	6/30/2016	6/30/2015	6/30/2016	6/30/2015	6/30/2016
Active Participants																
Number	167	151	18	21	36	49	53	49	5	5	15	29	41	39	14	14
Average Age	50.99	51.46	39.97	42.58	35.85	35.42	42.52	43.94	35.64	36.64	28.73	28.73	43.38	43.90	31.66	32.95
Average Service	14.02	14.82	2.40	2.85	0.97	1.51	13.93	14.99	2.41	3.41	1.60	1.46	13.00	13.24	2.86	3.68
Average Pay*	\$79,472	\$80,942	\$65,324	\$78,164	\$61,063	\$63,135	\$118,943	\$122,967	\$113,827	\$114,248	\$87,556	\$94,139	\$130,608	\$136,903	\$106,812	\$109,150
Service Retired																
Number	222	234	0	0	0	0	73	77	0	0	0	0	82	82	0	0
Average Age	68.85	69.12	0.00	0.00	0.00	0.00	64.61	65.15	0.00	0.00	0.00	0.00	66.77	67.01	0.00	0.00
Average Total Benefit*	\$33,607	\$35,033	\$0	\$0	\$0	\$0	\$64,828	\$65,623	\$0	\$0	\$0	\$0	\$86,377	\$89,573	\$0	\$0
Beneficiaries																
Number	36	35	0	0	0	0	16	15	0	0	0	0	20	22	0	0
Average Age	75.60	75.77	0.00	0.00	0.00	0.00	68.41	67.82	0.00	0.00	0.00	0.00	69.97	72.15	0.00	0.00
Average Total Benefit*	\$15,781	\$16,655	\$0	\$0	\$0	\$0	\$31,046	\$31,590	\$0	\$0	\$0	\$0	\$36,681	\$37,646	\$0	\$0
Duty Disabled																
Number	18	17	0	0	0	0	38	39	0	0	0	0	21	21	0	0
Average Age	65.04	65.40	0.00	0.00	0.00	0.00	60.75	61.13	0.00	0.00	0.00	0.00	65.76	66.71	0.00	0.00
Average Total Benefit*	\$26,299	\$27,310	\$0	\$0	\$0	\$0	\$51,826	\$53,191	\$0	\$0	\$0	\$0	\$79,231	\$81,219	\$0	\$0
Ordinary Disabled																
Number	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Age	82.45	83.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Total Benefit*	\$11,415	\$11,719	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total In Pay																
Number	278	288	0	0	0	0	127	131	0	0	0	0	123	125	0	0
Average Age	69.58	69.81	0.00	0.00	0.00	0.00	63.93	64.26	0.00	0.00	0.00	0.00	67.12	67.86	0.00	0.00
Average Total Benefit*	\$30,665	\$32,181	\$0	\$0	\$0	\$0	\$56,682	\$58,025	\$0	\$0	\$0	\$0	\$77,077	\$79,030	\$0	\$0
Terminated Vested																
Number	26	24	1	0	0	0	7	5	0	0	0	0	2	2	0	0
Average Age	50.31	50.24	35.83	0.00	0.00	0.00	48.33	48.08	0.00	0.00	0.00	0.00	52.33	53.33	0.00	0.00
Average Service	6.15	5.95	2.10	0.00	0.00	0.00	9.55	8.82	0.00	0.00	0.00	0.00	4.99	4.99	0.00	0.00
Transfers																
Number	49	54	2	5	2	7	20	20	0	0	0	0	7	7	0	0
Average Age	46.90	47.84	47.44	40.56	39.95	35.17	47.88	46.08	0.00	0.00	0.00	0.00	45.97	46.97	0.00	0.00
Average Service	2.96	3.51	2.46	1.77	0.25	0.26	5.65	5.06	0.00	0.00	0.00	0.00	5.06	5.06	0.00	0.00
Total Inactive																
Number	75	78	3	5	2	7	27	25	0	0	0	0	9	9	0	0
Average Age	48.08	48.58	43.57	40.56	39.95	35.17	48.00	46.48	0.00	0.00	0.00	0.00	47.38	48.38	0.00	0.00
Average Service	4.06	4.26	2.34	40.30	0.25	0.26	46.00	5.81	0.00	0.00	0.00	0.00	5.04	40.30 5.04	0.00	0.00



APPENDIX A – MEMBERSHIP INFORMATION

MARIN COUNTY DISTRIBUTION OF MISCELLANEOUS ACTIVE MEMBERS BY AGE AND SERVICE AS OF JULY 1, 2016

					COU	JNTS BY AG	E/SERVICE						
						Serv	ice						
Age	0	1	2	3	4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 & up	Total
0 to 19	0	0	0	0	0	0	0	0	0	0	0	0	0
20 to 24	8	1	2	0	1	0	0	0	0	0	0	0	12
25 to 29	46	19	22	4	5	4	1	0	0	0	0	0	101
30 to 34	39	35	24	18	4	32	5	0	0	0	0	0	157
35 to 39	29	19	22	8	10	41	38	4	0	0	0	0	171
40 to 44	18	12	15	16	8	47	48	20	4	0	0	0	188
45 to 49	15	13	17	4	6	51	42	45	16	3	0	0	212
50 to 54	15	8	13	16	15	44	58	45	28	23	5	0	270
55 to 59	15	12	10	9	8	27	53	52	17	24	5	5	237
60 to 64	3	7	5	4	7	33	48	42	20	20	15	4	208
65 to 69	2	2	4	1	1	15	24	31	10	3	4	3	100
70 & up	0	0	0	0	0	1	9	7	1	6	1	1	26
Total	190	128	134	80	65	295	326	246	96	79	30	13	1,682

MARIN COUNTY DISTRIBUTION OF MISCELLANEOUS ACTIVE MEMBERS PAYROLL BY AGE AND SERVICE AS OF JULY 1, 2016

AVERAGE PAY BY AGE/SERVICE

							JI HOL/DE						
						Ser	vice						
Age	0	1	2	3	4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 & up	Total
0 to 19	0	0	0	0	0	0	0	0	0	0	0	0	0
20 to 24	55,625	54,725	54,376	0	49,647	0	0	0	0	0	0	0	54,844
25 to 29	61,987	61,732	67,821	67,111	84,906	75,543	67,665	0	0	0	0	0	65,141
30 to 34	68,069	67,177	72,395	73,344	70,158	86,469	80,152	0	0	0	0	0	73,324
35 to 39	69,183	65,021	89,044	86,116	75,929	90,595	82,856	73,582	0	0	0	0	80,738
40 to 44	97,256	69,677	70,935	77,082	84,486	91,113	92,285	96,569	75,341	0	0	0	87,791
45 to 49	69,971	73,710	75,899	68,999	99,223	89,338	100,541	94,015	92,728	74,959	0	0	89,092
50 to 54	82,303	102,971	78,290	94,179	88,221	83,412	85,735	82,123	94,534	88,269	84,091	0	86,452
55 to 59	80,422	95,605	80,376	90,316	85,830	92,093	91,683	90,316	86,385	109,805	89,758	84,386	91,450
60 to 64	56,414	76,302	80,597	84,589	71,597	81,013	81,775	91,896	93,856	103,706	108,646	100,585	88,401
65 to 69	79,690	45,152	109,606	53,840	75,608	87,640	88,340	85,940	78,030	78,831	63,380	167,979	86,907
70 & up	0	0	0	0	0	122,719	61,075	73,302	62,878	85,274	78,117	66,851	73,269
Total	71,195	71,906	76,974	81,235	82,647	87,761	88,025	88,964	89,800	97,628	94,353	107,312	84,391



APPENDIX A – MEMBERSHIP INFORMATION

MARIN COUNTY DISTRIBUTION OF SAFETY ACTIVE MEMBERS BY AGE AND SERVICE AS OF JULY 1, 2016

					C	OUNTS BY	AGE/SERVI	CE					
						Ser	vice						
Age	0	1	2	3	4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 & up	Total
0 to 19	0	0	0	0	0	0	0	0	0	0	0	0	0
20 to 24	5	4	0	0	1	0	0	0	0	0	0	0	10
25 to 29	16	11	6	2	6	2	0	0	0	0	0	0	43
30 to 34	5	11	6	7	7	19	3	0	0	0	0	0	58
35 to 39	4	1	0	5	1	16	32	5	0	0	0	0	64
40 to 44	0	2	1	1	0	8	20	19	3	0	0	0	54
45 to 49	0	1	0	0	1	6	19	18	17	8	0	0	70
50 to 54	0	2	1	0	1	4	6	8	4	5	1	0	32
55 to 59	0	0	0	0	1	4	2	0	4	3	2	0	16
60 to 64	0	0	0	0	0	0	4	1	0	1	0	0	6
65 to 69	0	0	0	0	0	1	1	1	0	0	1	0	4
70 & up	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	30	32	14	15	18	60	87	52	28	17	4	0	357

MARIN COUNTY DISTRIBUTION OF SAFETY ACTIVE MEMBERS PAYROLL BY AGE AND SERVICE AS OF JULY 1, 2016

					AVER	AGE PAY I	BY AGE/SE	RVICE					
						Ser	vice						
Age	0	1	2	3	4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 & up	Total
0 to 19	0	0	0	0	0	0	0	0	0	0	0	0	0
20 to 24	74,824	79,940	0	0	81,491	0	0	0	0	0	0	0	77,537
25 to 29	71,921	76,546	74,281	90,133	93,349	106,925	0	0	0	0	0	0	78,899
30 to 34	78,539	82,008	77,440	88,622	93,884	104,942	107,127	0	0	0	0	0	92,280
35 to 39	70,699	80,870	0	78,898	97,683	100,370	108,951	112,405	0	0	0	0	101,722
40 to 44	0	80,944	83,675	108,332	0	109,599	109,271	120,692	118,054	0	0	0	112,285
45 to 49	0	138,050	0	0	104,919	113,330	102,158	112,090	120,806	136,676	0	0	114,695
50 to 54	0	121,836	93,558	0	163,768	116,827	117,989	117,635	121,435	111,913	186,763	0	120,293
55 to 59	0	0	0	0	109,042	130,593	95,724	0	128,569	121,620	122,836	0	121,729
60 to 64	0	0	0	0	0	0	88,384	118,768	0	88,629	0	0	93,489
65 to 69	0	0	0	0	0	111,321	103,557	84,261	0	0	223,136	0	130,569
70 & up	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	73,345	84,010	77,683	86,896	98,566	107,857	106,790	115,710	121,710	123,910	163,893	0	103,649



APPENDIX A – MEMBERSHIP INFORMATION

MARIN SPECIAL DISTRICTS DISTRIBUTION OF MISCELLANEOUS ACTIVE MEMBERS BY AGE AND SERVICE AS OF JULY 1, 2016

					C	OUNTS BY	AGE/SERVI	CE					
						Ser	vice						
Age	0	1	2	3	4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 & up	Total
0 to 19	0	0	0	0	0	0	0	0	0	0	0	0	0
20 to 24	3	0	0	0	0	0	0	0	0	0	0	0	3
25 to 29	3	1	1	0	0	0	0	0	0	0	0	0	5
30 to 34	1	0	0	0	0	0	1	0	0	0	0	0	2
35 to 39	5	0	1	0	1	4	8	3	0	0	0	0	22
40 to 44	3	0	1	0	1	6	6	4	0	0	0	0	21
45 to 49	0	0	0	0	0	4	4	5	1	0	0	0	14
50 to 54	2	1	0	0	1	2	13	5	3	1	1	0	29
55 to 59	0	2	0	0	1	3	9	6	2	3	4	2	32
60 to 64	0	1	0	0	0	1	5	4	2	1	0	0	14
65 to 69	0	0	1	0	0	1	2	0	1	0	0	0	5
70 & up	0	0	0	0	1	2	2	0	0	1	0	0	6
Total	17	5	4	0	5	23	50	27	9	6	5	2	153

MARIN SPECIAL DISTRICTS DISTRIBUTION OF MISCELLANEOUS ACTIVE MEMBERS PAYROLL BY AGE AND SERVICE AS OF JULY 1, 2016

					AVER	AGE PAY I	BY AGE/SE	RVICE					
						Ser	vice						
Age	0	1	2	3	4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 & up	Total
0 to 19	0	0	0	0	0	0	0	0	0	0	0	0	0
20 to 24	39,904	0	0	0	0	0	0	0	0	0	0	0	39,904
25 to 29	48,504	48,867	54,632	0	0	0	0	0	0	0	0	0	49,802
30 to 34	37,226	0	0	0	0	0	63,492	0	0	0	0	0	50,359
35 to 39	79,257	0	65,607	0	52,000	67,098	69,726	90,172	0	0	0	0	73,209
40 to 44	89,616	0	130,000	0	95,996	58,232	77,331	75,991	0	0	0	0	76,771
45 to 49	0	0	0	0	0	94,571	79,288	69,398	98,807	0	0	0	81,517
50 to 54	62,627	94,107	0	0	83,328	48,356	80,294	71,710	84,843	70,746	63,492	0	75,536
55 to 59	0	45,318	0	0	169,048	65,450	70,220	84,299	103,392	93,200	77,354	94,963	80,610
60 to 64	0	265,000	0	0	0	52,164	98,136	97,788	95,276	79,165	0	0	104,908
65 to 69	0	0	42,959	0	0	56,511	74,811	0	79,165	0	0	0	65,651
70 & up	0	0	0	0	30,701	106,163	66,994	0	0	70,746	0	0	74,627
Total	64,284	99,722	73,299	0	86,215	70,006	77,050	80,628	92,204	83,376	74,581	94,963	77,440



APPENDIX A – MEMBERSHIP INFORMATION

MARIN SPECIAL DISTRICTS DISTRIBUTION OF SAFETY ACTIVE MEMBERS BY AGE AND SERVICE AS OF JULY 1, 2016

COUNTS BY AGE/SERVICE

						Ser	vice						
Age	0	1	2	3	4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 & up	Total
0 to 19	0	0	0	0	0	0	0	0	0	0	0	0	0
20 to 24	0	0	0	0	0	0	0	0	0	0	0	0	0
25 to 29	3	0	2	0	1	0	0	0	0	0	0	0	6
30 to 34	1	1	3	1	0	3	0	0	0	0	0	0	9
35 to 39	1	0	0	0	3	1	2	0	0	0	0	0	7
40 to 44	0	0	0	0	3	2	4	1	0	0	0	0	10
45 to 49	0	0	1	1	4	0	1	3	1	0	0	0	11
50 to 54	0	0	0	0	1	1	2	1	1	1	0	0	7
55 to 59	0	1	0	0	0	0	0	0	0	0	0	0	1
60 to 64	0	0	0	0	0	0	0	0	0	0	0	0	0
65 to 69	0	0	0	0	0	0	0	0	0	0	0	0	0
70 & up	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	5	2	6	2	12	7	9	5	2	1	0	0	51

MARIN SPECIAL DISTRICTS DISTRIBUTION OF SAFETY ACTIVE MEMBERS PAYROLL BY AGE AND SERVICE AS OF JULY 1, 2016

AVERAGE PAY BY AGE/SERVICE Service 5 to 9 10 to 14 15 to 19 20 to 24 25 to 29 30 to 34 35 & up Total Age 0 to 19 20 to 24 25 to 29 69.310 85.045 101,477 79,916 30 to 34 80,256 89,110 92,617 91,153 94,665 91,374 35 to 39 65,497 99,127 92,160 105,965 95,281 40 to 44 114,248 98,974 129,547 96,128 115,501 45 to 49 92,160 94,329 107,383 122,526 108,513 114,716 107,164 50 to 54 121,449 118,748 103,098 119,857 117,326 112,936 113.787 55 to 59 169,000 169,000 60 to 64 65 to 69 70 & up 70,737 92,741 107,715 98,979 Total 129,055 90,017 117,649 108,305 116,021 112,936 103,297



APPENDIX A – MEMBERSHIP INFORMATION

NOVATO FIRE PROTECTION DISTRICT DISTRIBUTION OF MISCELLANEOUS ACTIVE MEMBERS BY AGE AND SERVICE AS OF JULY 1, 2016

					C	OUNTS BY	AGE/SERVI	CE					
						Ser	vice						
Age	0	1	2	3	4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 & up	Total
0 to 19	0	0	0	0	0	0	0	0	0	0	0	0	0
20 to 24	0	0	0	0	0	0	0	0	0	0	0	0	0
25 to 29	0	1	0	0	0	0	0	0	0	0	0	0	1
30 to 34	0	0	0	0	0	0	0	0	0	0	0	0	0
35 to 39	0	0	0	0	0	0	0	0	0	0	0	0	0
40 to 44	0	0	0	0	0	1	2	0	0	0	0	0	3
45 to 49	0	0	0	0	0	0	2	0	0	0	0	0	2
50 to 54	2	0	0	0	0	0	0	1	0	0	0	0	3
55 to 59	0	0	0	0	0	0	0	0	0	0	0	0	0
60 to 64	0	0	0	0	0	0	1	0	0	0	0	0	1
65 to 69	0	0	0	0	0	0	0	0	0	0	0	0	0
70 & up	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	2	1	0	0	0	1	5	1	0	0	0	0	10

NOVATO FIRE PROTECTION DISTRICT DISTRIBUTION OF MISCELLANEOUS ACTIVE MEMBERS PAYROLL BY AGE AND SERVICE AS OF JULY 1, 2016

					AVE	RAGE PAY I	BY AGE/SE	RVICE					
						Ser	vice						
Age	0	1	2	3	4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 & up	Total
0 to 19	0	0	0	0	0	0	0	0	0	0	0	0	0
20 to 24	0	0	0	0	0	0	0	0	0	0	0	0	0
25 to 29	0	48,299	0	0	0	0	0	0	0	0	0	0	48,299
30 to 34	0	0	0	0	0	0	0	0	0	0	0	0	0
35 to 39	0	0	0	0	0	0	0	0	0	0	0	0	0
40 to 44	0	0	0	0	0	125,678	74,519	0	0	0	0	0	91,572
45 to 49	0	0	0	0	0	0	102,323	0	0	0	0	0	102,323
50 to 54	50,411	0	0	0	0	0	0	83,952	0	0	0	0	61,591
55 to 59	0	0	0	0	0	0	0	0	0	0	0	0	0
60 to 64	0	0	0	0	0	0	162,881	0	0	0	0	0	162,881
65 to 69	0	0	0	0	0	0	0	0	0	0	0	0	0
70 & up	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	50,411	48,299	0	0	0	125,678	103,313	83,952	0	0	0	0	87,532



APPENDIX A – MEMBERSHIP INFORMATION

NOVATO FIRE PROTECTION DISTRICT DISTRIBUTION OF SAFETY ACTIVE MEMBERS BY AGE AND SERVICE AS OF JULY 1, 2016

COUNTS BY AGE/SERVICE

						Ser	vice						
Age	0	1	2	3	4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 & up	Total
0 to 19	0	0	0	0	0	0	0	0	0	0	0	0	0
20 to 24	0	0	2	0	0	0	0	0	0	0	0	0	2
25 to 29	0	1	1	0	0	0	0	0	0	0	0	0	2
30 to 34	0	0	0	0	0	1	0	0	0	0	0	0	1
35 to 39	0	0	1	0	0	1	5	3	0	0	0	0	10
40 to 44	0	0	1	0	0	4	16	4	0	0	0	0	25
45 to 49	1	0	0	0	0	0	3	7	4	1	0	0	16
50 to 54	1	0	0	0	0	0	1	0	1	3	1	0	7
55 to 59	0	0	0	0	0	0	2	2	0	0	0	0	4
60 to 64	0	0	0	0	0	0	0	0	0	0	0	0	0
65 to 69	0	0	0	0	0	0	0	0	0	0	0	0	0
70 & up	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	2	1	5	0	0	6	27	16	5	4	1	0	67

NOVATO FIRE PROTECTION DISTRICT DISTRIBUTION OF SAFETY ACTIVE MEMBERS PAYROLL BY AGE AND SERVICE AS OF JULY 1, 2016

					AVE	RAGE PAY I	BY AGE/SE	RVICE					
						Ser	vice						
Age	0	1	2	3	4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 & up	Total
0 to 19	0	0	0	0	0	0	0	0	0	0	0	0	0
20 to 24	0	0	109,954	0	0	0	0	0	0	0	0	0	109,954
25 to 29	0	103,519	111,177	0	0	0	0	0	0	0	0	0	107,348
30 to 34	0	0	0	0	0	111,177	0	0	0	0	0	0	111,177
35 to 39	0	0	111,177	0	0	111,177	114,854	124,041	0	0	0	0	116,875
40 to 44	0	0	109,954	0	0	110,869	115,392	122,058	0	0	0	0	115,517
45 to 49	111,888	0	0	0	0	0	115,436	122,312	144,541	228,434	0	0	132,561
50 to 54	104,254	0	0	0	0	0	183,621	0	172,693	150,639	224,095	0	162,369
55 to 59	0	0	0	0	0	0	110,885	124,664	0	0	0	0	117,775
60 to 64	0	0	0	0	0	0	0	0	0	0	0	0	0
65 to 69	0	0	0	0	0	0	0	0	0	0	0	0	0
70 & up	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	108,071	103,519	110,443	0	0	110,972	117,490	122,867	150,171	170,088	224,095	0	124,345



APPENDIX A – MEMBERSHIP INFORMATION

CITY OF SAN RAFAEL DISTRIBUTION OF MISCELLANEOUS ACTIVE MEMBERS BY AGE AND SERVICE AS OF JULY 1, 2016

					C	OUNTS BY .	AGE/SERVI	CE					
						Ser	vice						
Age	0	1	2	3	4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 & up	Total
0 to 19	0	0	0	0	0	0	0	0	0	0	0	0	0
20 to 24	3	1	1	0	0	0	0	0	0	0	0	0	5
25 to 29	8	5	3	1	3	0	0	0	0	0	0	0	20
30 to 34	1	4	1	2	3	1	2	0	0	0	0	0	14
35 to 39	2	4	3	4	0	12	3	0	0	0	0	0	28
40 to 44	2	1	2	1	0	11	4	5	0	0	0	0	26
45 to 49	3	2	1	0	0	3	6	9	2	1	0	0	27
50 to 54	2	1	0	1	0	7	5	8	4	6	3	0	37
55 to 59	1	2	0	0	1	4	8	9	2	4	0	0	31
60 to 64	0	0	1	0	1	9	5	6	0	2	1	0	25
65 to 69	0	0	0	0	0	0	0	3	1	1	0	0	5
70 & up	0	0	0	1	0	0	0	1	0	1	0	0	3
Total	22	20	12	10	8	47	33	41	9	15	4	0	221

CITY OF SAN RAFAEL DISTRIBUTION OF MISCELLANEOUS ACTIVE MEMBERS PAYROLL BY AGE AND SERVICE AS OF JULY 1, 2016

					AVER	AGE PAY I	BY AGE/SE	RVICE					
						Ser	vice						
Age	0	1	2	3	4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 & up	Total
0 to 19	0	0	0	0	0	0	0	0	0	0	0	0	0
20 to 24	53,039	28,088	57,213	0	0	0	0	0	0	0	0	0	48,884
25 to 29	50,365	63,912	50,538	46,530	43,168	0	0	0	0	0	0	0	52,506
30 to 34	86,160	67,820	54,269	67,824	79,508	63,632	78,870	0	0	0	0	0	71,947
35 to 39	54,425	62,562	50,712	51,139	0	81,156	45,371	0	0	0	0	0	65,206
40 to 44	114,407	47,561	58,042	64,428	0	72,494	70,512	78,848	0	0	0	0	74,254
45 to 49	116,878	73,856	121,524	0	0	124,192	64,148	72,952	90,988	85,383	0	0	85,232
50 to 54	99,657	110,799	0	116,045	0	110,511	79,165	79,776	66,731	81,029	81,349	0	87,322
55 to 59	179,744	76,508	0	0	66,476	92,306	81,660	70,889	72,433	82,362	0	0	81,744
60 to 64	0	0	67,080	0	75,173	84,782	102,081	87,953	0	52,416	72,993	0	84,849
65 to 69	0	0	0	0	0	0	0	99,888	141,678	105,878	0	0	109,444
70 & up	0	0	0	27,356	0	0	0	64,370	0	72,794	0	0	54,840
Total	77,979	66,413	59,993	59,456	63,710	87,518	76,373	78,507	81,716	78,967	79,260	0	76,730



APPENDIX A – MEMBERSHIP INFORMATION

CITY OF SAN RAFAEL DISTRIBUTION OF POLICE ACTIVE MEMBERS BY AGE AND SERVICE AS OF JULY 1, 2016

COUNTS BY AGE/SERVICE

						Ser	vice						
Age	0	1	2	3	4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 & up	Total
0 to 19	0	0	0	0	0	0	0	0	0	0	0	0	0
20 to 24	6	0	0	0	0	0	0	0	0	0	0	0	6
25 to 29	6	4	5	2	0	0	0	0	0	0	0	0	17
30 to 34	2	0	0	4	1	3	2	0	0	0	0	0	12
35 to 39	0	0	0	1	1	0	8	0	0	0	0	0	10
40 to 44	0	0	0	0	0	2	10	4	0	0	0	0	16
45 to 49	1	0	0	0	0	3	2	4	3	0	0	0	13
50 to 54	0	0	0	0	1	0	0	2	0	3	0	0	6
55 to 59	0	0	0	0	0	0	0	1	0	0	1	0	2
60 to 64	0	0	0	0	0	0	1	0	0	0	0	0	1
65 to 69	0	0	0	0	0	0	0	0	0	0	0	0	0
70 & up	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	15	4	5	7	3	8	23	11	3	3	1	0	83

CITY OF SAN RAFAEL DISTRIBUTION OF POLICE ACTIVE MEMBERS BY AGE AND SERVICE AS OF JULY 1, 2016

AVERAGE PAY BY AGE/SERVICE Service 5 to 9 10 to 14 15 to 19 20 to 24 25 to 29 30 to 34 35 & up Total Age 0 to 19 20 to 24 84,349 84,349 25 to 29 95.058 103,047 94.585 93.021 96,559 30 to 34 80,663 102,276 99,989 109,665 111,754 101,910 35 to 39 108,498 99,691 122,318 118,673 40 to 44 112,900 117,556 130,700 120,260 45 to 49 99,511 116,467 114,784 128,826 139,576 124,039 50 to 54 142,894 175,559 143,684 131,479 55 to 59 133,439 127,218 130,329 114,725 60 to 64 114,725 65 to 69 70 & up 100,521 89,152 94,585 125,080 113,025 Total 103,047 118,344 132,628 139,576 131,479 127,218 112,370



APPENDIX A – MEMBERSHIP INFORMATION

CITY OF SAN RAFAEL DISTRIBUTION OF FIRE ACTIVE MEMBERS BY AGE AND SERVICE AS OF JULY 1, 2016

AVERAGE PAY BY AGE/SERVICE

						Ser	vice						
Age	0	1	2	3	4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 & up	Total
0 to 19	0	0	0	0	0	0	0	0	0	0	0	0	0
20 to 24	0	0	0	0	0	0	0	0	0	0	0	0	0
25 to 29	0	0	0	2	1	1	0	0	0	0	0	0	4
30 to 34	0	2	0	2	4	4	1	0	0	0	0	0	13
35 to 39	0	0	0	2	1	6	1	1	0	0	0	0	11
40 to 44	0	0	0	0	0	0	3	4	0	0	0	0	7
45 to 49	0	0	0	0	0	1	4	3	3	0	0	0	11
50 to 54	0	0	0	0	0	1	1	1	0	0	0	0	3
55 to 59	0	0	0	0	0	1	0	1	0	2	0	0	4
60 to 64	0	0	0	0	0	0	0	0	0	0	0	0	0
65 to 69	0	0	0	0	0	0	0	0	0	0	0	0	0
70 & up	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	2	0	6	6	14	10	10	3	2	0	0	53

CITY OF SAN RAFAEL DISTRIBUTION OF FIRE ACTIVE MEMBERS PAYROLL BY AGE AND SERVICE AS OF JULY 1, 2016

AVERAGE PAY BY AGE/SERVICE

						Ser	vice						
Age	0	1	2	3	4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 & up	Total
0 to 19	0	0	0	0	0	0	0	0	0	0	0	0	0
20 to 24	0	0	0	0	0	0	0	0	0	0	0	0	0
25 to 29	0	0	0	103,446	117,438	138,895	0	0	0	0	0	0	115,806
30 to 34	0	90,919	0	117,438	114,104	127,553	124,355	0	0	0	0	0	115,976
35 to 39	0	0	0	110,688	109,261	132,491	142,666	162,627	0	0	0	0	130,079
40 to 44	0	0	0	0	0	0	135,644	146,806	0	0	0	0	142,022
45 to 49	0	0	0	0	0	138,427	133,579	137,360	141,602	0	0	0	137,239
50 to 54	0	0	0	0	0	114,743	141,888	117,139	0	0	0	0	124,590
55 to 59	0	0	0	0	0	181,264	0	132,507	0	137,095	0	0	146,990
60 to 64	0	0	0	0	0	0	0	0	0	0	0	0	0
65 to 69	0	0	0	0	0	0	0	0	0	0	0	0	0
70 & up	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	90,919	0	110,524	113,852	134,177	135,016	141,157	141,602	137,095	0	0	129,572



	Actives	Transfer to Participating Agency	Non-vested Terminations Due Refunds	Vested Terminations	Ordinary Disability	Duty Disability	Retired	Beneficiaries	Total Participants
June 30, 2015	1,623	203	204	174	29	86	1,399	243	3,961
New Entrants	194	0	0	0	0	0	0	0	194
Rehires	12	(10)	(1)	(1)	0	0	0	0	0
Duty Disabilities	0	0	0	0	0	0	0	0	0
Ordinary Disabilities	0	(1)	0	0	1	0	0	0	0
Retirements	(53)	(15)	(1)	(19)	0	0	86	2	0
Retirements from Safety with Misc Service	0	0	0	0	0	0	1	0	1
Vested Terminations	(29)	(1)	(1)	31	0	0	0	0	0
Died, With Beneficiaries' Benefit Payable	(2)	0	0	0	0	(1)	(12)	15	0
Non-Vested Terminations and Death without beneficiary	(33)	(1)	40	(3)	0	0	(26)	0	(23)
Transfers	(10)	24	(1)	(8)	0	0	0	0	5
Beneficiary Deaths	0	0	0	0	0	0	0	(9)	(9)
Domestic Relations Orders	0	0	0	4	0	0	0	2	6
Withdrawals Paid	(12)	(1)	(8)	(1)	0	0	0	0	(22)
Data Corrections	(8)	(3)	(1)	(2)	1	0	(1)	1	(13)
June 30, 2016	1,682	195	231	175	31	85	1,447	254	4,100



		Chan	-	mbership: Mari	n County Safe	ety			
	Actives	Transfer to Participating Agency	Non-vested Terminations Due Refunds	Vested Terminations	Ordinary Disability	Duty Disability	Retired	Beneficiaries	Total Participants
June 30, 2015	359	62	17	20	7	100	219	62	846
New Entrants	26	0	0	0	0	0	0	0	26
Rehires	0	0	0	0	0	0	0	0	0
Duty Disabilities	(2)	0	0	0	0	2	0	0	0
Ordinary Disabilities	(1)	0	0	0	1	0	0	0	0
Retirements	(13)	(3)	0	(2)	0	0	17	1	0
Retirements from Safety with Misc Service	0	0	0	0	0	0	1	0	1
Vested Terminations	(3)	0	0	3	0	0	0	0	0
Died, With Beneficiaries' Benefit Payable	0	0	0	0	0	0	(2)	2	0
Non-Vested Terminations and Death without beneficiary	(6)	0	6	0	(1)	(1)	(1)	0	(3)
Transfers	0	10	(1)	(4)	0	0	0	0	5
Beneficiary Deaths	0	0	0	0	0	0	0	(4)	(4)
Domestic Relations Orders	0	0	0	4	0	0	0	2	6
Withdrawals Paid	(2)	(1)	0	0	0	0	0	0	(3)
Data Corrections	(1)	0	0	0	0	0	0	0	(1)
June 30, 2016	357	68	22	21	7	101	234	63	873





	Actives	Transfer to Participating Agency	Non-vested Terminations Due Refunds	Vested Terminations	Ordinary Disability	Duty Disability	Retired	Beneficiaries	Total Participants
June 30, 2015	154	27	29	17	3	3	102	8	343
New Entrants	17	0	0	0	0	0	0	0	17
Rehires	3	(1)	(1)	(1)	0	0	0	0	0
Duty Disabilities	0	0	0	0	0	0	0	0	0
Ordinary Disabilities	0	0	0	0	0	0	0	0	0
Retirements	(12)	(4)	0	(3)	0	0	19	0	0
Retirements from Safety with Misc Service	0	0	0	0	0	0	0	0	0
Vested Terminations	(4)	0	0	4	0	0	0	0	0
Died, With Beneficiaries' Benefit Payable	(1)	0	0	0	0	0	(1)	2	0
Non-Vested Terminations and Death without beneficiary	(2)	0	2	0	0	0	0	0	0
Transfers	(1)	2	0	(1)	0	0	0	0	0
Beneficiary Deaths	0	0	0	0	0	0	0	(1)	(1)
Domestic Relations Orders	0	0	0	0	0	0	0	3	3
Withdrawals Paid	0	0	(1)	0	0	0	0	0	(1)
Data Corrections	(1)	0	1	0	0	0	0	0	0
June 30, 2016	153	24	30	16	3	3	120	12	361





APPENDIX A – MEMBERSHIP INFORMATION

		Changes	in Plan Membe	rship: Marin Sp	ecial Districts	Safety			
	Actives	Transfer to Participating Agency	Non-vested Terminations Due Refunds	Vested Terminations	Ordinary Disability	Duty Disability	Retired	Beneficiaries	Total Participants
June 30, 2015	49	16	1	3	1	16	22	9	117
New Entrants	5	0	0	0	0	0	0	0	5
Rehires	1	(1)	0	0	0	0	0	0	0
Duty Disabilities	0	0	0	0	0	0	0	0	0
Ordinary Disabilities	0	0	0	0	0	0	0	0	0
Retirements	(2)	0	0	0	0	0	2	0	0
Retirements from Safety with Misc Service	0	0	0	0	0	0	0	0	0
Vested Terminations	(1)	0	0	1	0	0	0	0	0
Died, With Beneficiaries' Benefit Payable	0	0	0	0	0	0	0	0	0
Non-Vested Terminations and Death without beneficiary	0	0	0	0	0	0	0	0	0
Transfers	(1)	1	0	0	0	0	0	0	0
Beneficiary Deaths	0	0	0	0	0	0	0	0	0
Domestic Relations Orders	0	0	0	0	0	0	0	0	0
Withdrawals Paid	0	0	0	0	0	0	0	0	0
Data Corrections	0	0	0	0	0	0	0	0	0
June 30, 2016	51	16	1	4	1	16	24	9	122

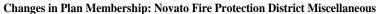
Changes in Plan Membership: Marin Special Districts Safety



	Actives	hanges in Plan M Transfer to Participating Agency	Non-vested Terminations Due Refunds	Voctod	Ordinary Disability	Duty Disability	Retired	Beneficiaries	Total Participants
June 30, 2015	2,185	308	251	214	40	205	1,742	322	5,267
New Entrants	242	0	0	0	0	0	0	0	242
Rehires	16	(12)	(2)	(2)	0	0	0	0	0
Duty Disabilities	(2)	0	0	0	0	2	0	0	0
Ordinary Disabilities	(1)	(1)	0	0	2	0	0	0	0
Retirements	(80)	(22)	(1)	(24)	0	0	124	3	0
Retirements from Safety with Misc Service	0	0	0	0	0	0	2	0	2
Vested Terminations	(37)	(1)	(1)	39	0	0	0	0	0
Died, With Beneficiaries' Benefit Payable	(3)	0	0	0	0	(1)	(15)	19	0
Non-Vested Terminations and Death without beneficiary	(41)	(1)	48	(3)	(1)	(1)	(27)	0	(26)
Transfers	(12)	37	(2)	(13)	0	0	0	0	10
Beneficiary Deaths	0	0	0	0	0	0	0	(14)	(14)
Domestic Relations Orders	0	0	0	8	0	0	0	7	15
Withdrawals Paid	(14)	(2)	(9)	(1)	0	0	0	0	(26)
Data Corrections	(10)	(3)	0	(2)	1	0	(1)	1	(14)
lune 30, 2016	2,243	303	284	216	42	205	1,825	338	5,456



	Actives	Transfer to Participating Agency	Non-vested Terminations Due Refunds	Vested Terminations	Ordinary Disability	Duty Disability	Retired	Beneficiaries	Total Participants
June 30, 2015	8	1	0	1	0	0	3	1	14
New Entrants	3	0	0	0	0	0	0	0	3
Rehires	0	0	0	0	0	0	0	0	0
Duty Disabilities	0	0	0	0	0	0	0	0	0
Ordinary Disabilities	0	0	0	0	0	0	0	0	0
Retirements	(1)	0	0	0	0	0	1	0	0
Retirements from Safety with Misc Service	0	0	0	0	0	0	0	0	0
Vested Terminations	0	0	0	0	0	0	0	0	0
Died, With Beneficiaries' Benefit Payable	0	0	0	0	0	0	0	0	0
Non-Vested Terminations and Death without beneficiary	0	0	0	0	0	0	0	0	0
Transfers	0	0	0	0	0	0	0	0	0
Beneficiary Deaths	0	0	0	0	0	0	0	0	0
Domestic Relations Orders	0	0	0	0	0	0	0	0	0
Withdrawals Paid	0	0	0	0	0	0	0	0	0
Data Corrections	0	0	0	0	0	0	0	0	0
June 30, 2016	10	1	0	1	0	0	4	1	17





APPENDIX A – MEMBERSHIP INFORMATION

Transfer to Non-vested Participating Terminations Terminations Total Ordinary Duty Actives Retired Beneficiaries Disability Disability **Participants Due Refunds** Agency June 30, 2015 New Entrants Rehires **Duty Disabilities** Ordinary Disabilities Retirements (1) Retirements from Safety with Misc Service Vested Terminations (1)Died. With Beneficiaries' (1)Benefit Payable Non-Vested Terminations and Death without beneficiary Transfers **Beneficiary Deaths** (1) (1) **Domestic Relations Orders** Withdrawals Paid (1) (1)Data Corrections June 30, 2016





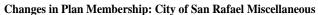
APPENDIX A – MEMBERSHIP INFORMATION

	Actives	Transfer to Participating Agency	Non-vested Terminations Due Refunds	Vested Terminations	Ordinary Disability	Duty Disability	Retired	Beneficiaries	Total Participants
June 30, 2015	75	12	4	3	0	31	55	16	196
New Entrants	4	0	0	0	0	0	0	0	4
Rehires	0	0	0	0	0	0	0	0	0
Duty Disabilities	0	0	0	0	0	0	0	0	0
Ordinary Disabilities	0	0	0	0	0	0	0	0	0
Retirements	(1)	(1)	0	0	0	0	2	0	0
Retirements from Safety with Misc Service	0	0	0	0	0	0	0	0	0
Vested Terminations	(1)	0	0	1	0	0	0	0	0
Died, With Beneficiaries' Benefit Payable	0	0	0	0	0	0	(1)	1	0
Non-Vested Terminations and Death without beneficiary	0	0	0	0	0	0	0	0	0
Transfers	0	0	0	0	0	0	0	0	0
Beneficiary Deaths	0	0	0	0	0	0	0	(1)	(1)
Domestic Relations Orders	0	0	0	0	0	0	0	0	0
Withdrawals Paid	0	0	(1)	0	0	0	0	0	(1)
Data Corrections	0	0	0	0	0	0	0	0	0
June 30, 2016	77	11	3	4	0	31	56	16	198

Changes in Plan Membership: Novato Fire Protection District All Groups



	Actives	Transfer to	Non-vested	hip: City of San Vested Terminations	Ordinary Disability	llaneous Duty Disability	Retired	Beneficiaries	Total Participants
June 30, 2015	221	53	55	27	2	18	222	36	634
New Entrants	19	0	0	0	0	0	0	0	19
Rehires	0	0	0	0	0	0	0	0	0
Duty Disabilities	0	0	0	0	0	0	0	0	0
Ordinary Disabilities	0	0	0	0	0	0	0	0	0
Retirements	(13)	(1)	0	0	0	0	14	0	0
Retirements from Safety with Misc Service	0	0	0	0	0	0	0	0	0
Vested Terminations	(1)	0	0	1	0	0	0	0	0
Died, With Beneficiaries' Benefit Payable	0	0	0	0	0	(1)	0	1	0
Non-Vested Terminations and Death without beneficiary	(4)	0	4	0	0	0	(2)	0	(2)
Transfers	0	14	(1)	(5)	0	0	0	0	8
Beneficiary Deaths	0	0	0	0	0	0	0	(3)	(3)
Domestic Relations Orders	0	0	0	1	0	0	0	1	2
Withdrawals Paid	(1)	0	(3)	0	0	0	0	0	(4)
Data Corrections	0	0	0	0	0	0	0	0	0
June 30, 2016	221	66	55	24	2	17	234	35	654





APPENDIX A – MEMBERSHIP INFORMATION

	Actives	Transfer to Participating Agency	Non-vested	bership: City of Vested Terminations	Ordinary Disability	Duty Disability	Retired	Beneficiaries	Total Participants
June 30, 2015	73	20	9	7	0	38	73	16	236
New Entrants	13	0	0	0	0	0	0	0	13
Rehires	0	0	0	0	0	0	0	0	0
Duty Disabilities	(1)	0	0	0	0	1	0	0	0
Ordinary Disabilities	0	0	0	0	0	0	0	0	0
Retirements	(1)	(2)	0	(1)	0	0	4	0	0
Retirements from Safety with Misc Service	0	0	0	0	0	0	0	0	0
Vested Terminations	0	0	0	0	0	0	0	0	0
Died, With Beneficiaries' Benefit Payable	0	0	0	0	0	0	0	1	1
Non-Vested Terminations and Death without beneficiary	0	0	0	0	0	0	0	0	0
Transfers	0	2	0	0	0	0	0	0	2
Beneficiary Deaths	0	0	0	0	0	0	0	(2)	(2)
Domestic Relations Orders	0	0	0	0	0	0	0	0	0
Withdrawals Paid	(1)	0	(1)	(1)	0	0	0	0	(3)
Data Corrections	0	0	1	0	0	0	0	0	1
June 30, 2016	83	20	9	5	0	39	77	15	248

Changes in Plan Membership: City of San Rafael Police



APPENDIX A – MEMBERSHIP INFORMATION

	Actives	Transfer to	Non-vested Terminations Due Refunds	bership: City o Vested Terminations	Ordinary Disability	Duty Disability	Retired	Beneficiaries	Total Participants
June 30, 2015	55	7	5	2	0	21	82	20	192
New Entrants	0	0	0	0	0	0	0	0	0
Rehires	1	0	(1)	0	0	0	0	0	0
Duty Disabilities	0	0	0	0	0	0	0	0	0
Ordinary Disabilities	0	0	0	0	0	0	0	0	0
Retirements	(2)	0	0	0	0	0	2	0	0
Retirements from Safety with Misc Service	0	0	0	0	0	0	0	0	0
Vested Terminations	0	0	0	0	0	0	0	0	0
Died, With Beneficiaries' Benefit Payable	0	0	0	0	0	0	(2)	2	0
Non-Vested Terminations and Death without beneficiary	(1)	0	1	0	0	0	0	0	0
Transfers	0	0	0	0	0	0	0	0	0
Beneficiary Deaths	0	0	0	0	0	0	0	0	0
Domestic Relations Orders	0	0	0	0	0	0	0	0	0
Withdrawals Paid	0	0	(1)	0	0	0	0	0	(1)
Data Corrections	0	0	0	0	0	0	0	0	0
June 30, 2016	53	7	4	2	0	21	82	22	191

Changes in Plan Membership: City of San Rafael Fire



APPENDIX A – MEMBERSHIP INFORMATION

	Actives	Transfer to	Non-vested	rship: City of Sa Vested Terminations	Ordinary	Duty	Retired	Beneficiaries	Total
		Agency	Due Refunds	Terminations	Disability	Disability			Participants
June 30, 2015	349	80	69	36	2	77	377	72	1,062
New Entrants	32	0	0	0	0	0	0	0	32
Rehires	1	0	(1)	0	0	0	0	0	0
Duty Disabilities	(1)	0	0	0	0	1	0	0	0
Ordinary Disabilities	0	0	0	0	0	0	0	0	0
Retirements	(16)	(3)	0	(1)	0	0	20	0	0
Retirements from Safety with Misc Service	0	0	0	0	0	0	0	0	0
Vested Terminations	(1)	0	0	1	0	0	0	0	0
Died, With Beneficiaries' Benefit Payable	0	0	0	0	0	(1)	(2)	4	1
Non-Vested Terminations and Death without beneficiary	(5)	0	5	0	0	0	(2)	0	(2)
Transfers	0	16	(1)	(5)	0	0	0	0	10
Beneficiary Deaths	0	0	0	0	0	0	0	(5)	(5)
Domestic Relations Orders	0	0	0	1	0	0	0	1	2
Withdrawals Paid	(2)	0	(5)	(1)	0	0	0	0	(8)
Data Corrections	0	0	1	0	0	0	0	0	1
June 30, 2016	357	93	68	31	2	77	393	72	1,093

Changes in Plan Membership: City of San Rafael All Groups



Status	Marin	County	Marin Spec	cial Districts	Total
	Misc	Safety	Misc	Safety	
Service Retired					
Option 1 - Cash Refund Annuity	58	2	4	0	64
Option 2 - J&S 100%	63	19	8	3	93
Option 3 - J&S 50%	8	2	0	1	11
Option 4	1	0	0	0	1
Unmodified Benefit Option	1,317	211	108	19	1,655
Unmodified Option - Service Connected Disability	0	0	0	1	1
(missing)	0	0	0	0	0
Total Service Retired	1,447	234	120	24	1,825
Ordinary Disability					
Option 1 - Cash Refund Annuity	3	0	0	0	3
Option 2 - J&S 100%	1	0	0	0	1
Option 3 - J&S 50%	0	0	0	0	0
Option 4	0	0	0	0	0
Unmodified Benefit Option	27	7	3	1	38
Unmodified Option - Service Connected Disability	0	0	0	0	0
(missing)	0	0	0	0	0
Fotal Ordinary Disability	31	7	3	1	42
Duty Disability					
Option 1 - Cash Refund Annuity	1	2	1	0	4
Option 2 - J&S 100%	0	0	0	0	0
Option 3 - J&S 50%	1	1	0	0	2
Option 4	0	0	0	0	0
Unmodified Benefit Option	1	4	0	0	5
Unmodified Option - Service Connected Disability	82	94	2	16	194
(missing)	0	0	0	0	0
Total Duty Disability	85	101	3	16	205
Total	1,563	342	126	41	2,072



Status	Miscellaneous	Safety	Total
Service Retired			
Option 1 - Cash Refund Annuity	0	0	0
Option 2 - J&S 100%	0	1	1
Option 3 - J&S 50%	1	0	1
Option 4	0	0	0
Unmodified Benefit Option	3	51	54
Unmodified Option - Service Connected Disability	0	0	0
(missing)	0	0	0
Total Service Retired	4	52	56
Ordinary Disability			
Option 1 - Cash Refund Annuity	0	0	0
Option 2 - J&S 100%	0	0	0
Option 3 - J&S 50%	0	0	0
Option 4	0	0	0
Unmodified Benefit Option	0	0	0
Unmodified Option - Service Connected Disability	0	0	0
(missing)	0	0	0
Total Ordinary Disability	0	0	0
Duty Disability			
Option 1 - Cash Refund Annuity	0	0	0
Option 2 - J&S 100%	0	0	0
Option 3 - J&S 50%	0	0	0
Option 4	0	0	0
Unmodified Benefit Option	0	1	1
Unmodified Option - Service Connected Disability	0	30	30
(missing)	0	0	0
Total Duty Disability	0	31	31
Total	4	83	87



Benefit Form Elections: City of San Rafael				
	Miscellaneous	Police	Fire	Total
Service Retired				
Option 1 - Cash Refund Annuity	5	1	0	6
Option 2 - J&S 100%	19	14	4	37
Option 3 - J&S 50%	2	0	0	2
Option 4	0	0	0	0
Unmodified Benefit Option	208	61	78	347
Unmodified Option - Service Connected Disability	0	0	0	0
(missing)	0	1	0	1
Total Service Retired	234	77	82	393
Ordinary Disability				
Option 1 - Cash Refund Annuity	0	0	0	0
Option 2 - J&S 100%	0	0	0	0
Option 3 - J&S 50%	0	0	0	0
Option 4	0	0	0	0
Unmodified Benefit Option	2	0	0	2
Unmodified Option - Service Connected Disability	0	0	0	0
(missing)	0	0	0	0
Total Ordinary Disability	2	0	0	2
Duty Disability				
Option 1 - Cash Refund Annuity	1	1	0	2
Option 2 - J&S 100%	0	0	0	0
Option 3 - J&S 50%	0	0	0	0
Option 4	0	0	0	0
Unmodified Benefit Option	1	0	0	1
Unmodified Option - Service Connected Disability	15	38	21	74
(missing)	0	0	0	0
Total Duty Disability	17	39	21	77
Total	253	116	103	472



APPENDIX A – MEMBERSHIP INFORMATION

Marin County and Special Districts: Service Retired										
		Marin	County		N	Iarin Spec				
	<u>Miscel</u>	laneous	<u>Saf</u>	<u>ety</u>	Miscel	laneous	<u>Sa</u>	<u>iety</u>	<u>To</u>	otal
		Average		Average		Average		Average		Average
Age	Number	Annual	Number	Annual	Number	Annual	Number	Annual	Number	Annual
		Benefit		Benefit		Benefit		Benefit		Benefit
0 to 24	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
25 to 29	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
30 to 34	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
35 to 39	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
40 to 44	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
45 to 49	0	\$0	3	\$41,324	0	\$0	0	\$0	3	\$41,324
50 to 54	20	\$19,390	27	\$52,816	4	\$5,754	2	\$37,048	53	\$36,056
55 to 59	88	\$23,213	58	\$69,147	17	\$34,967	8	\$90,203	171	\$43,096
60 to 64	183	\$34,887	57	\$77,979	26	\$39,811	8	\$64,607	274	\$45,187
65 to 69	361	\$38,713	31	\$68,181	32	\$38,574	3	\$73,212	427	\$41,084
70 to 74	286	\$40,224	31	\$60,063	27	\$32,062	2	\$52,201	346	\$41,434
75 to 79	205	\$39,177	17	\$90,262	10	\$47,930	1	\$148,035	233	\$43,747
80 to 84	160	\$29,842	9	\$40,504	3	\$27,643	0	\$0	172	\$30,361
85 to 89	88	\$33,639	1	\$59,189	0	\$0	0	\$0	89	\$33,926
90 to 94	44	\$20,821	0	\$0	1	\$19,324	0	\$0	45	\$20,788
95+	12	\$19,868	0	\$0	0	\$0	0	\$0	12	\$19,868
<total></total>	1447	\$35,394	234	\$68,116	120	\$36,118	24	\$74,360	1825	\$40,150

Marin County and Special Districts: Service Retired

Marin County and Special Districts: Duty Disabled

		Marin	County		Ν	Iarin Spec				
	Miscell	laneous	<u>Saf</u>	<u>iety</u>	Miscel	laneous	<u>Saf</u>	<u>etv</u>	<u>Total</u>	
		Average		Average		Average		Average		Average
Age	Number	Annual	Number	Annual	Number	Annual	Number	Annual	Number	Annual
		Benefit		Benefit		Benefit		Benefit		Benefit
0 to 24	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
25 to 29	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
30 to 34	0	\$0	1	\$48,237	0	\$0	0	\$0	1	\$48,237
35 to 39	0	\$0	2	\$49,879	0	\$0	0	\$0	2	\$49,879
40 to 44	1	\$28,936	2	\$44,470	1	\$27,946	0	\$0	4	\$36,456
45 to 49	2	\$34,171	7	\$47,362	0	\$0	0	\$0	9	\$44,431
50 to 54	5	\$30,654	20	\$44,691	0	\$0	1	\$54,236	26	\$42,359
55 to 59	11	\$35,896	13	\$50,225	0	\$0	2	\$49,677	26	\$44,121
60 to 64	19	\$30,957	17	\$54,407	0	\$0	4	\$60,539	40	\$43,881
65 to 69	15	\$38,458	9	\$58,953	0	\$0	3	\$47,185	27	\$46,259
70 to 74	16	\$34,903	16	\$62,981	2	\$19,343	5	\$54,933	39	\$48,192
75 to 79	10	\$58,174	8	\$42,433	0	\$0	1	\$37,227	19	\$50,444
80 to 84	5	\$24,939	3	\$40,582	0	\$0	0	\$0	8	\$30,805
85 to 89	1	\$15,124	2	\$37,793	0	\$0	0	\$0	3	\$30,237
90 to 94	0	\$0	1	\$29,434	0	\$0	0	\$0	1	\$29,434
95+	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
<total></total>	85	\$36,358	101	\$50,937	3	\$22,211	16	\$53,075	205	\$44,639



APPENDIX A – MEMBERSHIP INFORMATION

	Marin County and Special Districts: Ordinary Disabled										
		Marin	County		N N	Iarin Spec	cial Distric	ts			
	Miscell	aneous	<u>Sa</u>	fety	Miscel	laneous	<u>iety</u>	<u>To</u>	o <u>tal</u>		
		Average		Average		Average		Average		Average	
Age	Number	Annual	Number	Annual	Number	Annual	Number	Annual	Number	Annual	
		Benefit		Benefit		Benefit		Benefit		Benefit	
0 to 24	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	
25 to 29	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	
30 to 34	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	
35 to 39	0	\$0	1	\$35,093	0	\$0	0	\$0	1	\$35,093	
40 to 44	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	
45 to 49	1	\$13,027	1	\$20,065	0	\$0	0	\$0	2	\$16,546	
50 to 54	1	\$23,373	2	\$30,091	1	\$35,186	0	\$0	4	\$29,685	
55 to 59	1	\$20,700	1	\$55,913	0	\$0	1	\$55,617	3	\$44,076	
60 to 64	7	\$23,598	1	\$128,799	0	\$0	0	\$0	8	\$36,748	
65 to 69	7	\$19,080	1	\$24,467	1	\$13,572	0	\$0	9	\$19,066	
70 to 74	9	\$19,619	0	\$0	1	\$29,078	0	\$0	10	\$20,565	
75 to 79	3	\$15,195	0	\$0	0	\$0	0	\$0	3	\$15,195	
80 to 84	1	\$2,730	0	\$0	0	\$0	0	\$0	1	\$2,730	
85 to 89	1	\$54,472	0	\$0	0	\$0	0	\$0	1	\$54,472	
90 to 94	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	
95+	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	
<total></total>	31	\$20,490	7	\$46,360	3	\$25,946	1	\$55,617	42	\$26,028	

Marin County and Special Districts: Ordinary Disabled

Marin County and Special Districts: Beneficiaries

	Marin County					Iarin Spec	ts			
	Miscell	aneous	<u>Saf</u>	<u>etv</u>	Miscell	aneous	<u>Saf</u>	<u>etv</u>	<u>To</u>	tal
		Average		Average	e Average		Average		Average	
Age	Number	Annual	Number	Annual	Number	Annual	Number	Annual	Number	Annual
		Benefit		Benefit		Benefit		Benefit		Benefit
0 to 24	1	\$31,339	0	\$0	0	\$0	0	\$0	1	\$31,339
25 to 29	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
30 to 34	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0
35 to 39	2	\$17,908	1	\$27,911	0	\$0	0	\$0	3	\$21,242
40 to 44	4	\$19,387	0	\$0	0	\$0	1	\$42,753	5	\$24,060
45 to 49	3	\$18,899	0	\$0	2	\$13,552	0	\$0	5	\$16,760
50 to 54	8	\$20,950	7	\$45,545	1	\$8,182	0	\$0	16	\$30,912
55 to 59	15	\$20,176	9	\$26,590	1	\$8,182	2	\$59,427	27	\$24,777
60 to 64	24	\$22,889	7	\$32,137	1	\$33,686	1	\$57,309	33	\$26,221
65 to 69	35	\$26,164	12	\$49,720	1	\$12,955	2	\$31,922	50	\$31,783
70 to 74	31	\$24,283	9	\$48,053	2	\$11,694	1	\$48,147	43	\$29,228
75 to 79	34	\$25,497	5	\$33,235	2	\$15,880	1	\$35,206	42	\$26,192
80 to 84	34	\$23,597	4	\$35,113	2	\$14,673	0	\$0	40	\$24,302
85 to 89	29	\$23,627	4	\$26,484	0	\$0	1	\$7,407	34	\$23,487
90 to 94	25	\$18,264	3	\$44,330	0	\$0	0	\$0	28	\$21,057
95+	9	\$20,634	2	\$25,393	0	\$0	0	\$0	11	\$21,499
<total></total>	254	\$23,174	63	\$38,674	12	\$14,550	9	\$41,502	338	\$26,245



APPENDIX A – MEMBERSHIP INFORMATION

	Miscellaneous		Sat	fety	<u>Total</u>		
Age	Number	Average Annual Benefit	Number	Average Annual Benefit	Number	Average Annual Benefit	
0 to 24	0	\$0	0	\$0	0	\$0	
25 to 29	0	\$0	0	\$0	0	\$0	
30 to 34	0	\$0	0	\$0	0	\$0	
35 to 39	0	\$0	0	\$0	0	\$0	
40 to 44	0	\$0	0	\$0	0	\$0	
45 to 49	0	\$0	1	\$57,108	1	\$57,108	
50 to 54	1	\$9,603	3	\$106,602	4	\$82,353	
55 to 59	0	\$0	6	\$75,595	6	\$75,595	
60 to 64	1	\$26,978	12	\$107,546	13	\$101,348	
65 to 69	1	\$22,447	13	\$95,866	14	\$90,622	
70 to 74	1	\$98,767	11	\$102,574	12	\$102,257	
75 to 79	0	\$0	6	\$76,507	6	\$76,507	
80 to 84	0	\$0	0	\$0	0	\$0	
85 to 89	0	\$0	0	\$0	0	\$0	
90 to 94	0	\$0	0	\$0	0	\$0	
95+	0	\$0	0	\$0	0	\$0	
<total></total>	4	\$39,449	52	\$95,282	56	\$91,294	

Novato Fire Protection District: Service Retired

Novato Fire Protection District: Duty Disabled

	<u>Miscellaneous</u>		<u>Saf</u>	<u>ety</u>	<u>Total</u>		
Age	Number	Average Annual Benefit	Number	Average Annual Benefit	Number	Average Annual Benefit	
0 to 24	0	\$0	0	\$0	0	\$0	
25 to 29	0	\$0	0	\$0	0	\$0	
30 to 34	0	\$0	0	\$0	0	\$0	
35 to 39	0	\$0	0	\$0	0	\$0	
40 to 44	0	\$0	0	\$0	0	\$0	
45 to 49	0	\$0	0	\$0	0	\$0	
50 to 54	0	\$0	3	\$57,335	3	\$57,335	
55 to 59	0	\$0	0	\$0	0	\$0	
60 to 64	0	\$0	6	\$68,738	6	\$68,738	
65 to 69	0	\$0	6	\$74,177	6	\$74,177	
70 to 74	0	\$0	12	\$65,836	12	\$65,836	
75 to 79	0	\$0	4	\$52,254	4	\$52,254	
80 to 84	0	\$0	0	\$0	0	\$0	
85 to 89	0	\$0	0	\$0	0	\$0	
90 to 94	0	\$0	0	\$0	0	\$0	
95+	0	\$0	0	\$0	0	\$0	
<total></total>	0	\$0	31	\$65,437	31	\$65,437	



APPENDIX A – MEMBERSHIP INFORMATION

	Miscell	aneous	<u>Saf</u>	<u>ety</u>	<u>Total</u>		
Age	Number	Average Annual Benefit	Number	Average Annual Benefit	Number	Average Annual Benefit	
0 to 24	0	\$0	0	\$0	0	\$0	
25 to 29	0	\$0	0	\$0	0	\$0	
30 to 34	0	\$0	0	\$0	0	\$0	
35 to 39	0	\$0	0	\$0	0	\$0	
40 to 44	0	\$0	0	\$0	0	\$0	
45 to 49	0	\$0	0	\$0	0	\$0	
50 to 54	0	\$0	0	\$0	0	\$0	
55 to 59	0	\$0	0	\$0	0	\$0	
60 to 64	0	\$0	0	\$0	0	\$0	
65 to 69	0	\$0	0	\$0	0	\$0	
70 to 74	0	\$0	0	\$0	0	\$0	
75 to 79	0	\$0	0	\$0	0	\$0	
80 to 84	0	\$0	0	\$0	0	\$0	
85 to 89	0	\$0	0	\$0	0	\$0	
90 to 94	0	\$0	0	\$0	0	\$0	
95+	0	\$0	0	\$0	0	\$0	
<total></total>	0	\$0	0	\$0	0	\$0	

Novato Fire Protection District: Ordinary Disabled

Novato Fire Protection District: Surviving Beneficiaries

	Miscellaneous		<u>Saf</u>	<u>ety</u>	<u>Total</u>		
Age	Number	Average Annual Benefit	Number	Average Annual Benefit	Number	Average Annual Benefit	
0 to 24	0	\$0	0	\$0	0	\$0	
25 to 29	0	\$0	0	\$0	0	\$0	
30 to 34	0	\$0	0	\$0	0	\$0	
35 to 39	0	\$0	0	\$0	0	\$0	
40 to 44	0	\$0	0	\$0	0	\$0	
45 to 49	0	\$0	1	\$71,790	1	\$71,790	
50 to 54	1	\$11,207	2	\$28,608	3	\$22,808	
55 to 59	0	\$0	3	\$37,148	3	\$37,148	
60 to 64	0	\$0	2	\$38,509	2	\$38,509	
65 to 69	0	\$0	5	\$41,040	5	\$41,040	
70 to 74	0	\$0	1	\$57,529	1	\$57,529	
75 to 79	0	\$0	0	\$0	0	\$0	
80 to 84	0	\$0	0	\$0	0	\$0	
85 to 89	0	\$0	1	\$44,524	1	\$44,524	
90 to 94	0	\$0	0	\$0	0	\$0	
95+	0	\$0	0	\$0	0	\$0	
<total></total>	1	\$11,207	15	\$41,648	16	\$39,745	



APPENDIX A – MEMBERSHIP INFORMATION

	Miscell	aneous	Pol	Police		<u>Fire</u>		otal
		Average		Average		Average		Average
Age	Number	Annual	Number	Annual	Number	Annual	Number	Annual
		Benefit		Benefit		Benefit		Benefit
0 to 24	0	\$0	0	\$0	0	\$0	0	\$0
25 to 29	0	\$0	0	\$0	0	\$0	0	\$0
30 to 34	0	\$0	0	\$0	0	\$0	0	\$0
35 to 39	0	\$0	0	\$0	0	\$0	0	\$0
40 to 44	0	\$0	0	\$0	0	\$0	0	\$0
45 to 49	0	\$0	0	\$0	0	\$0	0	\$0
50 to 54	9	\$17,798	7	\$25,530	6	\$89,971	22	\$39,942
55 to 59	24	\$45,266	14	\$54,754	17	\$96,765	55	\$63,599
60 to 64	54	\$39,350	15	\$64,187	18	\$110,459	87	\$58,344
65 to 69	59	\$41,880	22	\$93,274	15	\$95,999	96	\$62,114
70 to 74	36	\$31,849	12	\$57,689	7	\$77,334	55	\$43,276
75 to 79	21	\$24,877	4	\$45,465	8	\$64,560	33	\$36,992
80 to 84	14	\$29,285	3	\$72,920	7	\$64,443	24	\$44,994
85 to 89	10	\$21,343	0	\$0	3	\$56,263	13	\$29,401
90 to 94	5	\$8,012	0	\$0	0	\$0	5	\$8,012
95+	2	\$11,382	0	\$0	1	\$54,156	3	\$25,640
<total></total>	234	\$35,033	77	\$65,623	82	\$89,573	393	\$52,406

City of San Rafael: Service Retired

City of San Rafael: Duty Disabled

	Miscellaneous		Police		<u>Fi</u>	<u>re</u>	<u>To</u>	o <u>tal</u>
Age	Number	Average Annual Benefit	Number	Average Annual Benefit	Number	Average Annual Benefit	Number	Average Annual Benefit
0 to 24	0	\$0	0	\$0	0	\$0	0	\$0
25 to 29	0	\$0	0	\$0	0	\$0	0	\$0
30 to 34	0	\$0	0	\$0	0	\$0	0	\$0
35 to 39	0	\$0	5	\$57,190	0	\$0	5	\$57,190
40 to 44	0	\$0	1	\$55,682	0	\$0	1	\$55,682
45 to 49	1	\$33,769	3	\$45,380	1	\$47,675	5	\$43,517
50 to 54	1	\$34,794	2	\$45,990	1	\$57,624	4	\$46,099
55 to 59	1	\$10,056	3	\$36,584	0	\$0	4	\$29,952
60 to 64	3	\$16,132	4	\$88,214	5	\$96,092	12	\$73,476
65 to 69	4	\$31,839	11	\$59,202	6	\$82,614	21	\$60,679
70 to 74	5	\$30,999	4	\$46,472	7	\$84,536	16	\$58,290
75 to 79	2	\$27,455	6	\$34,160	0	\$0	8	\$32,484
80 to 84	0	\$0	0	\$0	1	\$32,414	1	\$32,414
85 to 89	0	\$0	0	\$0	0	\$0	0	\$0
90 to 94	0	\$0	0	\$0	0	\$0	0	\$0
95+	0	\$0	0	\$0	0	\$0	0	\$0
<total></total>	17	\$27,310	39	\$53,191	21	\$81,219	77	\$55,121



APPENDIX A – MEMBERSHIP INFORMATION

	Miscell	aneous	Pol	lice	Fi	<u>re</u>	<u>To</u>	<u>tal</u>
		Average		Average		Average		Average
Age	Number	Annual	Number	Annual	Number	Annual	Number	Annual
		Benefit		Benefit		Benefit		Benefit
0 to 24	0	\$0	0	\$0	0	\$0	0	\$0
25 to 29	0	\$0	0	\$0	0	\$0	0	\$0
30 to 34	0	\$0	0	\$0	0	\$0	0	\$0
35 to 39	0	\$0	0	\$0	0	\$0	0	\$0
40 to 44	0	\$0	0	\$0	0	\$0	0	\$0
45 to 49	0	\$0	0	\$0	0	\$0	0	\$0
50 to 54	0	\$0	0	\$0	0	\$0	0	\$0
55 to 59	0	\$0	0	\$0	0	\$0	0	\$0
60 to 64	0	\$0	0	\$0	0	\$0	0	\$0
65 to 69	0	\$0	0	\$0	0	\$0	0	\$0
70 to 74	1	\$15,478	0	\$0	0	\$0	1	\$15,478
75 to 79	0	\$0	0	\$0	0	\$0	0	\$0
80 to 84	0	\$0	0	\$0	0	\$0	0	\$0
85 to 89	0	\$0	0	\$0	0	\$0	0	\$0
90 to 94	1	\$7,960	0	\$0	0	\$0	1	\$7,960
95+	0	\$0	0	\$0	0	\$0	0	\$0
<total></total>	2	\$11,719	0	\$0	0	\$0	2	\$11,719

City of San Rafael: Ordinary Disabled

City of San Rafael: Surviving Beneficiaries

	Miscellaneous		Pol	lice	<u>Fi</u>	<u>re</u>	<u>To</u>	<u>otal</u>
Age	Number	Average Annual Benefit	Number	Average Annual Benefit	Number	Average Annual Benefit	Number	Average Annual Benefit
0 to 24	0	\$0	0	\$0	0	\$0	0	\$0
25 to 29	0	\$0 \$0	0	\$0 \$0	0	\$0 \$0	0	\$0 \$0
23 to 29 30 to 34	0	\$0 \$0	0	\$0 \$0	0	\$0 \$0	0	\$0 \$0
30 to 34 35 to 39	0	\$0 \$0	0	\$0 \$0	0	\$0 \$0	0	\$0 \$0
	0	\$0 \$0	0	\$0 \$0	0	\$0 \$0	0	\$0 \$0
40 to 44	0	\$0 \$0	0		0	\$0 \$0		
45 to 49			-	\$20,344 \$52,851			1	\$20,344 \$10,284
50 to 54	3	\$8,989	1	\$52,851	1	\$17,101	5	\$19,384
55 to 59	2	\$13,719	1	\$15,629	3	\$28,051	6	\$21,203
60 to 64	2	\$3,042	3	\$15,113	4	\$64,444	9	\$34,356
65 to 69	3	\$37,019	3	\$27,778	1	\$92,983	7	\$41,054
70 to 74	7	\$23,504	2	\$30,222	3	\$27,353	12	\$25,586
75 to 79	4	\$14,290	2	\$75,969	2	\$32,817	8	\$34,342
80 to 84	4	\$25,149	0	\$0	5	\$28,224	9	\$26,857
85 to 89	4	\$13,485	2	\$21,986	3	\$29,130	9	\$20,589
90 to 94	6	\$5,859	0	\$0	0	\$0	6	\$5,859
95+	0	\$0	0	\$0	0	\$0	0	\$0
<total></total>	35	\$16,655	15	\$31,590	22	\$37,646	72	\$26,180



APPENDIX A – MEMBERSHIP INFORMATION

		Retiremen	t Eligibilit	y					
	Ν	umber Rea	ching Ser	vice Retir	ement Elig	gibility			
	Α	s Defined i	n Section	1.1 in Yea	r(s)				
Plan	Current Actives	0	1	2	3	4	5	6-10	Total
County									
Miscellaneous Tier 1	14	14	0	0	0	0	0	0	14
Miscellaneous Tier 2	51	48	1	2	0	0	0	0	51
Miscellaneous Tier 3	904	508	61	56	29	24	30	108	816
Miscellaneous Tier 3A	117	2	2	2	14	10	6	26	62
Miscellaneous Tier 4	138	0	0	1	1	4	2	57	65
Miscellaneous Tier 5	458	8	7	17	27	30	45	36	170
Safety Tier 1A	1	1	0	0	0	0	0	0	1
Safety Tier 2A	61	24	4	1	4	2	6	7	48
Safety Tier 2B	221	60	9	12	16	10	6	58	171
Safety Tier 3	74	0	0	0	1	2	0	2	5
Total County	2,039	665	84	91	92	82	95	294	1,403
Courts									
Courts Tier 1	2	2	0	0	0	0	0	0	2
Courts Tier 2	1	0	0	1	0	0	0	0	1
Courts Tier 3	76	42	7	2	1	1	4	8	65
Courts Tier 4	4	1	0	0	1	0	0	0	2
Courts Tier 5	17	0	0	0	1	4	1	0	6
Total Courts	100	45	7	3	3	5	5	8	76
Special Districts									
South Marin Fire Miscellaneous	3	1	0	0	0	0	1	0	2
South Marin Fire Safety	51	11	2	1	5	1	2	11	33
Mosquito District	31	17	0	1	0	1	0	7	26
LAFCO	3	0	0	0	0	1	0	1	2
Tamalpais CSD	11	7	1	0	0	0	0	1	2 9
Marin CSD	5	1	0	0	0	0	0	2	3
Total Special Districts	104	37	3	2	5	3	3	22	75
Total County and Special Districts	2,243	747	94	96	100	90	103	324	1,554
Novato									
Miscellaneous	10	2	0	1	1	0	0	5	9
Safety	67	18	2	4	4	5	6	21	60
Total Novato	77	20	2	5	5	5	6	26	69
San Rafael									
Miscellaneous Tier 1	151	75	7	7	12	4	6	19	130
Miscellaneous Tier 2	21	1	0	0	0	0	0	7	8
Miscellaneous Tier 3	49	0	0	0	1	3	3	5	12
Fire Tier 1	39	8	3	3	2	5	2	7	30
Fire Tier 2	14	0	0	0	0	0	0	0	0
Safety Tier 1	49	16	2	2	3	2	2	20	47
Safety Tier 2	5	0	0	0	0	0	0	1	1
Safety Tier 3	29	0	0	0	0	0	1	0	1
Total San Rafael	357	100	12	12	18	14	14	59	229



APPENDIX B - STATEMENT OF CURRENT ACTUARIAL ASSUMPTIONS AND METHODS

The assumptions and methods used in the actuarial valuation as of June 30, 2016 are:

Actuarial Methods

1. Actuarial Cost Method

The actuarial valuation is prepared using the entry age actuarial cost method (CERL 31453.5). Under the principles of this method, the actuarial present value of the projected benefits of each individual included in the valuation is allocated as a level percentage of the individual's projected compensation between entry age and assumed exit (until maximum retirement age). For members who transferred from outside of MCERA, entry age is based on entry into the system. The normal cost for the Plan is based on the sum of the individual normal costs for each member (Individual Entry Age Method).

The UAL (or Surplus Funding) is amortized as a percentage of the projected salaries of present and future members of MCERA. Effective with the June 30, 2013 valuation, the UAL as of June 30, 2013 is amortized over a closed 17-year period (14 years remaining as of June 30, 2016), except for the additional UAL attributable to the extraordinary loss from 2008-2009, which is being amortized over a separate closed period (22 years as of June 30, 2016).

Any subsequent unexpected change in the Unfunded Actuarial Liability after June 30, 2013 is amortized over 24 years (22 years for assumption changes) that includes a five-year phase-in/out (three years for assumption changes) of the payments/credits for each annual layer.

2. Valuation of Assets

As of the June 30, 2014 valuation, assets are valued using the market value. The assets used to compute the UAL are the Market Value of Assets, minus the value of any non-valuation contingency reserves.

Actuarial Assumptions

3. Rate of Return

Assets are assumed to earn 7.25% net of investment, but not administrative expenses.

4. Administrative Expenses

Administrative expenses are assumed to be \$4.774 million for the next year, to be split between employees and employers based on their share of the overall contributions. Administrative expenses are assumed to increase by 3.0% per year.

5. Cost-of-Living

The cost-of-living as measured by the Consumer Price Index (CPI) will increase at the rate of 2.75% per year.



APPENDIX B – STATEMENT OF CURRENT ACTUARIAL ASSUMPTIONS AND METHODS

6. Post Retirement COLA

Post retirement COLAs are assumed at the rate of 2.7% for members with a 4% COLA cap, 2.6% for members with a 3% COLA cap, and 1.9% for members with a 2% COLA cap.

7. Internal Revenue Code Section 415 Limit

The Internal Revenue Code Section 415 maximum benefit limitations are not reflected in the valuation for funding purposes. Any limitation is reflected in a member's benefit at the time of retirement.

8. Internal Revenue Code Section 401(a)(17)

The Internal Revenue Code Section 401(a)(17) maximum compensation limitation is not reflected in the valuation for funding purposes. Any limitation is reflected in a member's benefit after retirement.

9. PEPRA Compensation Limit

The PEPRA Pensionable Compensation Limit (GC 7522.10) is reflected in the valuation to project compensation and benefits for PEPRA members. The limit is expected to increase by 2.75% in future years.

10. Interest on Member Contributions

The annual credited interest rate on member contributions is assumed to be 7.25%.

11. Sick Leave Service Credit Upon Retirement

Active members' benefits are adjusted by a percentage, in accordance with the table below, for anticipated conversions of sick leave or other terminal earnings to retirement service credit or final compensation.

	Rate
Marin County	1.20%
Marin Courts	1.20%
Marin Special Districts	1.20%
Novato Fire Protection District	3.00%
City of San Rafael	2.50%



APPENDIX B - STATEMENT OF CURRENT ACTUARIAL ASSUMPTIONS AND METHODS

12. Family Composition

Percentage married for all active members who retire, become disabled, or die during active service is shown in the table below. Male members are assumed to be three years older than their spouses and female members are assumed to be one year younger than their spouses.

Percentage Married						
Gender Percentage						
Males	80%					
Females	50%					

13. Increases in Pay

Wage inflation component: 3.00%

Additional longevity and promotion component:

Service	Miscellaneous	Safety
0	8.00%	5.00%
1	8.00%	5.00%
2	8.00%	5.00%
3	6.00%	2.00%
4	2.00%	1.25%
5+	0.75%	1.25%



APPENDIX B – STATEMENT OF CURRENT ACTUARIAL ASSUMPTIONS AND METHODS

14. Rates of Termination (All Types)

Sample rates of termination are shown in the following tables below. Note that termination rates do not apply once a member is eligible for retirement.

Miscellaneous								
Service	Male	Female	Safety					
0	15.00%	15.00%	8.00%					
1	9.00%	10.00%	5.00%					
2	7.00%	8.00%	4.00%					
3	7.00%	8.00%	4.00%					
4	7.00%	8.00%	4.00%					

	Miscellaneous							
		Male			Females			
Age	5-9 Years of	10-14 Years of	15-29 Years of	5-9 Years of	10-14 Years of	15-29 Years of	5-19 Years of	
ng.	Service	Service	Service	Service	Service	Service	Service	
20	7.00%	5.30%	3.00%	7.75%	5.30%	3.00%	2.06%	
25	7.00%	5.30%	3.00%	7.75%	5.30%	3.00%	2.24%	
30	7.00%	5.30%	3.00%	7.75%	5.30%	3.00%	3.53%	
35	6.75%	4.50%	2.50%	7.75%	4.50%	2.50%	3.41%	
40	4.80%	3.20%	2.00%	5.80%	3.20%	2.00%	1.14%	
45	3.75%	2.50%	1.70%	4.75%	2.50%	1.70%	1.70%	
50	2.10%	0.00%	0.00%	3.10%	0.00%	0.00%	0.27%	
55	1.20%	0.00%	0.00%	2.20%	0.00%	0.00%	0.10%	
60	1.20%	0.00%	0.00%	2.20%	0.00%	0.00%	0.00%	



APPENDIX B - STATEMENT OF CURRENT ACTUARIAL ASSUMPTIONS AND METHODS

15. Withdrawal

Rates of withdrawal apply to active Members who terminate their employment and withdraw their member contributions, forfeiting entitlement to future Plan benefits.

30% of all Miscellaneous Member terminations with less than five years of service are assumed to take a refund of contributions, as well as 15% of those with five or more years of service.

25% of all Safety Member terminations with less than 10 years of service are assumed to take a refund of contributions, and 5% of those with 10 or more years are assumed to take a refund.

16. Vested Termination and Reciprocal Transfers

Rates of vested termination apply to active Members who terminate their employment and leave their member contributions on deposit with the Plan.

70% of all Miscellaneous Member terminations with less than five years of service are assumed to leave their contributions on deposit, as well as 85% of those with five or more years of service.

75% of all Safety Member terminations with less than 10 years of service are assumed to leave their contributions on deposit, as well as 95% of those with 10 or more years of service.

No vested terminations or transfers are assumed to occur with 30 years of service. Vested terminated Miscellaneous Members are assumed to begin receiving benefits at age 55; terminated Safety Members are assumed to begin receiving benefits at age 50.

20% of vested terminated Miscellaneous members and 40% of vested terminated Safety Members are assumed to be reciprocal.



APPENDIX B - STATEMENT OF CURRENT ACTUARIAL ASSUMPTIONS AND METHODS

17. Rates of Service-Connected Disability

Sample service-connected disability rates of active participants are shown below.

	Miscellaneous									
Age	Male	Female	Safety							
20	0.0250%	0.0125%	0.0605%							
25	0.0400%	0.0200%	0.0825%							
30	0.0650%	0.0325%	0.1980%							
35	0.0800%	0.0400%	0.3025%							
40	0.1050%	0.0525%	0.6490%							
45	0.1300%	0.0650%	0.6270%							
50	0.1550%	0.0775%	0.7040%							
55	0.1650%	0.0825%	2.1450%							
60	0.1850%	0.0925%	0.0000%							
65	0.1950%	0.0975%	0.0000%							

18. Rates of Non Service-Connected Disability

Sample non service-connected disability rates of active participants are shown below.

Age	Miscellaneous	Safety
20	0.0000%	0.0200%
25	0.0030%	0.0300%
30	0.0050%	0.0500%
35	0.0080%	0.0700%
40	0.0130%	0.1600%
45	0.0220%	0.2600%
50	0.0450%	0.3600%
55	0.0780%	0.4600%
60	0.1280%	0.0000%
65	0.1970%	0.0000%

19. Rates of Mortality for Active Lives

Rates of mortality for active Members are specified by CalPERS 2014 Pre-Retirement Non-Industrial Death rates (plus Duty-Related Death rates for Safety Members), with the 20-year static projection used by CalPERS replaced by generational improvements from a base year of 2009 using Scale MP-2014.



APPENDIX B – STATEMENT OF CURRENT ACTUARIAL ASSUMPTIONS AND METHODS

20. Rates of Mortality for Retired Healthy Lives

Rates of mortality for retired Members and their beneficiaries are given by CalPERS 2014 Post-Retirement Healthy Mortality rates, adjusted by 110% for Safety Males and 95% for Miscellaneous and Safety Females, with the 20-year static projection used by CalPERS replaced by generational improvements from a base year of 2009 using Scale MP-2014.

21. Rates of Mortality for Retired Disabled Lives

Rates of mortality among disabled Members are given by CalPERS 2014 Disability Mortality rates (Non-Industrial rates for Miscellaneous members and Industrial Disability rates for Safety members), adjusted by 90% for Males and Females (Miscellaneous and Safety) with the 20-year static projection used by CalPERS replaced by generational improvements from a base year of 2009 using Scale MP-2014.

22. Mortality Improvement

Mortality is assumed to improve in future years in accordance with the MP-2014 generational improvement tables.



APPENDIX B - STATEMENT OF CURRENT ACTUARIAL ASSUMPTIONS AND METHODS

23. Rates of Retirement

Rates of retirement are based on age according to the following tables below.

PEPRA: For New Members we assume that the current retirement rates will apply, but that no Non-Safety members will retire before age 52.

Miscellaneous Rates

Age	<20 Years of Service	20-29 Years of Service	30+ Years of Service
50-54	4.00%	4.00%	4.00%
55	8.00%	10.00%	25.00%
56	4.00%	4.00%	25.00%
57	4.00%	6.00%	25.00%
58	4.00%	8.00%	25.00%
59	8.00%	10.00%	25.00%
60-61	8.00%	10.00%	35.00%
62-74	20.00%	20.00%	35.00%
75-79	25.00%	25.00%	35.00%
80	100.00%	100.00%	100.00%

Safety Rates

Age	3% @ 50 <20 Years of Service	3% @ 50 20-29 Years of Service	3% @ 50 30+ Years of Service	3% @ 55 <20 Years of Service	3% @ 55 20-29 Years of Service	3% @ 55 30+ Years of Service
40-49	0.00%	3.00%	3.00%	0.00%	1.00%	1.00%
50	25.00%	25.00%	50.00%	5.00%	5.00%	30.00%
51-53	10.00%	10.00%	20.00%	5.00%	5.00%	30.00%
54	10.00%	10.00%	20.00%	5.00%	15.00%	30.00%
55	25.00%	25.00%	50.00%	20.00%	40.00%	50.00%
56	25.00%	25.00%	50.00%	10.00%	30.00%	50.00%
57-59	25.00%	25.00%	50.00%	10.00%	20.00%	50.00%
60-64	50.00%	50.00%	50.00%	30.00%	30.00%	50.00%
65	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%



APPENDIX C – SUMMARY OF PLAN PROVISIONS

Brief Outline of Plan Provisions

Definitions

Compensation

Compensation means the cash remuneration for services paid by the employer. It includes base pay and certain differential, incentive, and special pay allowances defined by the Board of Retirement. Overtime is excluded, with the exception of overtime paid under the Fair Labor Standards Act that is regular and recurring.

PEPRA: For non-reciprocal members joining the Plan on and after January 1, 2013 (New Members), only base compensation or normal monthly rate of pay, as defined, up to the PEPRA wage cap (\$117,020 for 2016 and \$118,775 for 2017) will count for computing Plan benefits and employee contributions and employer contributions for those participating in Social Security. For those not participating in Social Security, the compensation cap is 120% of the cap above (\$140,424 for 2016 and \$142,530 for 2017). In addition, some sources of compensation, such as leave cashouts, allowances, and some types of special pays, will be excluded from benefit and contribution computations for New Members.

Credited Service

In general, Credited Service is earned for the period during which Member Contributions are paid.

Temporary service for which the Member was not credited, or service for which the Member withdrew his or her Member Contributions, may be purchased by paying or repaying the Member Contributions with interest. The categories of services that credit may be purchased for are listed below:

- Leave without Pay (Member's illness): Member may purchase only up to twelve months of service per incident.
- Re-deposits: Member may only purchase the amount of service previously withdrawn.
- Service Prior to Membership: Member must pay employee portion and applicable interest.
- Military Leave without Pay: Member, who has taken a leave without pay in order to serve in the military, will be given an option to buy the service time.
- Service In-Between: Member may purchase service per incident.
- Public Service: Member must have been employed by the date as indicated below and cannot be receiving a benefit from the other entity:



APPENDIX C – SUMMARY OF PLAN PROVISIONS

April 16, 1979:

Novato Fire Protection District

May 1, 1979:

County of Marin Marin County Courts Marin City Community Service District Tamalpais Community Service District Southern Marin Fire Protection District Marin/Sonoma Mosquito and Vector Control District Local Agency Formation Commission (LAFCO)

May 7, 1979:

City of San Rafael

In all cases of service buybacks, repayment terms for most payment plans may not exceed the length of the period of service being purchased, with a maximum of five years. Payment for public service purchases may also not exceed five years. In the event of an active Member's death, the beneficiary is given the opportunity to pay off any service purchase agreements at the time of death.

A percentage of credited sick leave may be credited according to the Member's applicable bargaining unit.

Final Compensation

For County employees hired after June 30, 1980, and Bargaining Units 10 and 13, LAFCO Tier 3 members and San Rafael employees hired after July 1, 2011, Final Compensation means the highest Compensation earned during any thirty-six consecutive months of the Member's employment. For all others, it is the highest Compensation earned during any twelve months of employment.

PEPRA: For all New Members, highest average Compensation will be based on the highest thirty-six consecutive months, rather than 12 months.

Miscellaneous Member

Any Member who is not a Safety Member is a Miscellaneous Member. Miscellaneous Members are called "Nonsafety Members" Under PEPRA.

Safety Member

Any sworn Member engaged in law enforcement or fire suppression, and most probation officers are Safety Members.



APPENDIX C – SUMMARY OF PLAN PROVISIONS

Membership

Eligibility

All full-time, permanent employees of the City of San Rafael, Novato Fire Protection Districts, Marin County, and other participating special districts become Members on their date of appointment.

PEPRA: A New Member is any Member joining the Plan for the first time on or after January 1, 2013, or who was a member of the Plan previously but withdrew MCERA contributions and did not redeposit them with interest upon reentry. Employees who transfer from and are eligible for reciprocity with another public employer will not be New Members if their service in the reciprocal system was under a pre-PEPRA tier.

Member Contributions

Each Member contributes a percentage of Compensation to the Plan through payroll deduction. The percentage contributed depends on the Member's age upon joining the Plan, and is determined in accordance with the requirements of the '37 Act. Members do not contribute after earning 30 years of Credited Service.

Interest is credited semiannually to each Member's accumulated contributions. The crediting rate is set by the Board; the current annual rate is 7.25%.

PEPRA: New Members must contribute half of the normal cost of the Plan. Contributions for these Members will be based on the Normal Cost associated with their benefits; General and Safety members will pay different rates, as will those with different COLA caps.

New Members will pay a single contribution rate, not a rate based on entry age. All New Members are expected to continue contributing after earning 30 years of service.

Service Retirement

Eligibility

Miscellaneous County Members hired after July 1, 2008, Courts Members hired after January 1, 2009, and San Rafael Miscellaneous Members hired after July 1, 2011 are eligible to retire at age 55 if they have earned 10 years of Credited Service. All other Miscellaneous Members are eligible to retire at age 50 if they have earned 10 years of Credited Service. Alternatively, Miscellaneous Members are eligible to retire at any age after having earned 30 years of Credited Service, or upon reaching age 70 with no service requirement.



APPENDIX C – SUMMARY OF PLAN PROVISIONS

Safety Members are eligible to retire at age 50 if they have earned 10 years of Credited Service. Alternatively, Safety Members are eligible to retire at any age after having earned 20 years of Credited Service, or upon reaching age 70 with no service requirement.

PEPRA: New Nonsafety Members are eligible to retire upon attaining age 52 and completing five or more years of service, or upon reaching age 70 with no service requirement. New Safety Members are eligible to retire upon attaining age 50 and completing five or more years of service, or upon reaching age 70 with no service requirement. New Members must reach PEPRA-specified ages, regardless of their years of service, to retire for service.

Benefit Amount

The Service Retirement Benefit payable to the Member is equal to the Member's Final Compensation multiplied by credited service, the benefit factor from Table 1 and the age factor from Table 2 corresponding to the Member's code section. The age factor multiplied by the benefit factor for each code section is also shown in Table 2, other than the PEPRA factors. The appropriate code sections for each group are listed in Table 1 on the next page.

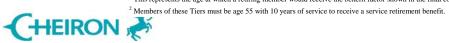
The percentage of Final Compensation may not exceed 100%.



APPENDIX C – SUMMARY OF PLAN PROVISIONS

Т						
Description	Class	FAP	COLA	Code Section	Formula Retirement Age ¹	Benefit Factor
Special Districts Courts Tier 1	Miscellaneous	1	4	31676.14	55.50	2.00%
Special Districts Courts Tier 2	Miscellaneous	3	2	31676.1	61.25	2.00%
Special Districts Courts Tier 3	Miscellaneous	3	2	31676.16	55.00	2.00%
Special Districts Courts Tier 4	Miscellaneous	3	2	31676.16	55.00	2.00%
Special Districts Courts Tier 5	Miscellaneous	3	2	7522.20	62.00	2.00%
Special Districts LAFCO Tier 7 (also referred to as Tier 2)	Miscellaneous	1	4	31676.11	58.50	2.00%
Special Districts LAFCO Tier 3	Miscellaneous	3	2	31676.16	55.00	2.00%
Special Districts LAFCO Tier 4	Miscellaneous	3	2	7522.20	62.00	2.00%
Special Districts Marin City CSD Tier 1	Miscellaneous	1	4	31676.11	58.50	2.00%
Special Districts Marin City CSD Tier 2	Miscellaneous	3	4	7522.20	62.00	2.00%
Special Districts Mosquito District Tier 1	Miscellaneous	1	4	31676.14	55.50	2.00%
Special Districts Mosquito District Tier 2	Miscellaneous	3	4	7522.20	62.00	2.00%
Special Districts Tamalpais CSD Tier 1	Miscellaneous	1	4	31676.11	58.50	2.00%
Special Districts Tamalpais CSD Tier 2	Miscellaneous	3	4	7522.20	62.00	2.00%
Special Districts South Marin Fire Miscellaneous Tier 1	Miscellaneous	1	4	31676.19	55.00	2.70%
Special Districts South Marin Fire Miscellaneous Tier 2	Miscellaneous	3	4	7522.20	62.00	2.00%
Special Districts South Marin Fire Safety Tier 1	Safety	1	4	31664.1	50.00	3.00%
Special Districts South Marin Fire Safety Tier 2	Safety	1	4	31664.2	55.00	3.00%
Special Districts South Marin Fire Safety Tier 2A	Safety	3	3	31664.2	55.00	3.00%
Special Districts South Marin Fire Safety Tier 3	Safety	3	4	7522.25(d)	57.00	2.70%
Special Districts South Marin Fire Safety Tier 3A	Safety	3	3	7522.25(d)	57.00	2.70%
County Miscellaneous Tier 1	Miscellaneous	1	4	31676.14	55.50	2.00%
County Miscellaneous Tier 2	Miscellaneous	3	2	31676.1	61.25	2.00%
County Miscellaneous Tier 3	Miscellaneous	3	2	31676.16	55.00	2.00%
County Miscellaneous Tier $3A^2$	Miscellaneous	3	2	31676.16	55.00	2.00%
County Miscellaneous Tier 4 ²	Miscellaneous	3	2	31676.1	61.25	2.00%
County Miscellaneous Tier 5	Miscellaneous	3	2	7522.20	62.00	2.00%
County Safety Tier 1A	Safety	1	4	31664.2	55.00	3.00%
County Safety Tier 1B	Safety	1	4	31664.1	50.00	3.00%
County Safety Tier 2A	Safety	3	2	31664.2	55.00	3.00%
County Safety Tier 2B	Safety	3	2	31664.1	50.00	3.00%
County Safety Tier 3	Safety	3	2	7522.25(d)	57.00	2.70%
Novato Miscellaneous Tier 1	Miscellaneous	1	4	31676.16	55.00	2.00%
Novato Miscellaneous Tier 2	Miscellaneous	3	4	7522.20	62.00	2.00%
Novato Miscellaneous Tier 2A	Miscellaneous	3	2	7522.20	62.00	2.00%
Novato Safety Tier 1	Safety	1	4	31664.1	50.00	3.00%
Novato Safety Tier 2	Safety	1	4	31664.2	55.00	3.00%
Novato Safety Tier 3	Safety	3	4	7522.25(d)	57.00	2.70%
San Rafael Miscellaneous Tier 1	Miscellaneous	1	3	31676.19	55.00	2.70%
San Rafael Miscellaneous Tier 2 ²	Miscellaneous	3	2	31676.16	55.00	2.00%
San Rafael Miscellaneous Tier 3	Miscellaneous	3	2	7522.20	62.00	2.00%
San Rafael Fire Tier 1	Safety	1	3	31664.2	55.00	3.00%
San Rafael Fire Tier 2	Safety	3	2	31664.2	55.00	3.00%
San Rafael Fire Tier 3	Safety	3	2	7522.25(d)	57.00	2.70%
San Rafael Safety Tier 1	Safety	1	3	31664.2	55.00	3.00%
San Rafael Safety Tier 2	Safety	3	2	31664.2	55.00	3.00%
San Rafael Safety Tier 3	Safety	3	2	7522.25(d)	57.00	2.70%

¹ This represents the age at which a retiring member would receive the benefit factor shown in the final column.



APPENDIX C – SUMMARY OF PLAN PROVISIONS

Table 2: Age & Service Factors

Miscellaneous

Age	2% at 4	Iisc Age 61.25 §: 31676.1	2% at	lisc Age 58.5 : 31676.11	2% at	lisc Age 55.5 : 31676.14	2% at	Iisc t Age 55 : 31676.16	2.7% a	lisc at Age 55 : 31676.19	2.7% a	lisc at Age 67 7522.20
	Age Factor	Age x Benefit	Age Factor	Age x Benefit	Age Factor	Age x Benefit	Age Factor	Age x Benefit	Age Factor	Age x Benefit	Age Factor	Age x Benefit
50	0.7091	1.18%	0.7454	1.24%	0.8850	1.48%	0.7130	1.43%	1.0000	2.00%	1.0000	1.00%
51	0.7457	1.24%	0.7882	1.31%	0.9399	1.57%	0.7610	1.52%	1.0700	2.14%	1.0000	1.00%
52	0.7816	1.30%	0.8346	1.39%	1.0000	1.67%	0.8140	1.63%	1.1400	2.28%	1.0000	1.00%
53	0.8181	1.36%	0.8850	1.48%	1.0447	1.74%	0.8710	1.74%	1.2100	2.42%	1.1000	1.10%
54	0.8556	1.43%	0.9399	1.57%	1.1048	1.84%	0.9330	1.87%	1.2800	2.56%	1.2000	1.20%
55	0.8954	1.49%	1.0000	1.67%	1.1686	1.95%	1.0000	2.00%	1.3500	2.70%	1.3000	1.30%
56	0.9382	1.56%	1.0447	1.74%	1.2365	2.06%	1.0260	2.05%	1.3500	2.70%	1.4000	1.40%
57	0.9846	1.64%	1.1048	1.84%	1.3093	2.18%	1.0520	2.10%	1.3500	2.70%	1.5000	1.50%
58	1.0350	1.73%	1.1686	1.95%	1.3608	2.27%	1.0780	2.16%	1.3500	2.70%	1.6000	1.60%
59	1.0899	1.82%	1.2365	2.06%	1.4123	2.35%	1.1050	2.21%	1.3500	2.70%	1.7000	1.70%
60	1.1500	1.92%	1.3093	2.18%	1.4638	2.44%	1.1310	2.26%	1.3500	2.70%	1.8000	1.80%
61	1.1947	1.99%	1.3608	2.27%	1.5153	2.53%	1.1570	2.31%	1.3500	2.70%	1.9000	1.90%
62	1.2548	2.09%	1.4123	2.35%	1.5668	2.61%	1.1830	2.37%	1.3500	2.70%	2.0000	2.00%
63	1.3186	2.20%	1.4638	2.44%	1.5668	2.61%	1.2090	2.42%	1.3500	2.70%	2.1000	2.10%
64	1.3865	2.31%	1.5153	2.53%	1.5668	2.61%	1.2090	2.42%	1.3500	2.70%	2.2000	2.20%
65	1.4593	2.43%	1.5668	2.61%	1.5668	2.61%	1.2090	2.42%	1.3500	2.70%	2.3000	2.30%
66	1.4593	2.43%	1.5668	2.61%	1.5668	2.61%	1.2090	2.42%	1.3500	2.70%	2.4000	2.40%
67+	1.4593	2.43%	1.5668	2.61%	1.5668	2.61%	1.2090	2.42%	1.3500	2.70%	2.5000	2.50%



APPENDIX C – SUMMARY OF PLAN PROVISIONS

Safety

Age	Safety 2% at Age 50 Safety 3% at Age Age CERL \$: 31664 CERL \$: 31664						Safety 2.7% at Age 57 GC §: 7522.25(d)	
	Age Factor	Age x Benefit	Age Factor	Age x Benefit	Age Factor	Age x Benefit	Age Factor	Age x Benefit
41	0.6258	1.25%	0.6258	1.88%	0.4777	1.43%	2.0000	2.00%
42	0.6625	1.33%	0.6625	1.99%	0.5058	1.52%	2.0000	2.00%
43	0.7004	1.40%	0.7004	2.10%	0.5347	1.60%	2.0000	2.00%
44	0.7397	1.48%	0.7397	2.22%	0.5647	1.69%	2.0000	2.00%
45	0.7805	1.56%	0.7805	2.34%	0.5958	1.79%	2.0000	2.00%
46	0.8226	1.65%	0.8226	2.47%	0.6280	1.88%	2.0000	2.00%
47	0.8678	1.74%	0.8678	2.60%	0.6625	1.99%	2.0000	2.00%
48	0.9085	1.82%	0.9085	2.73%	0.6936	2.08%	2.0000	2.00%
49	0.9522	1.90%	0.9522	2.86%	0.7269	2.18%	2.0000	2.00%
50	1.0000	2.00%	1.0000	3.00%	0.7634	2.29%	2.0000	2.00%
51	1.0516	2.10%	1.0000	3.00%	0.8028	2.41%	2.1000	2.10%
52	1.1078	2.22%	1.0000	3.00%	0.8457	2.54%	2.2000	2.20%
53	1.1692	2.34%	1.0000	3.00%	0.8926	2.68%	2.3000	2.30%
54	1.2366	2.47%	1.0000	3.00%	0.9418	2.83%	2.4000	2.40%
55	1.3099	2.62%	1.0000	3.00%	1.0000	3.00%	2.5000	2.50%
56	1.3099	2.62%	1.0000	3.00%	1.0000	3.00%	2.6000	2.60%
57+	1.3099	2.62%	1.0000	3.00%	1.0000	3.00%	2.7000	2.70%



APPENDIX C – SUMMARY OF PLAN PROVISIONS

PEPRA: For New Nonsafety Members, the benefit multiplier will be 1% at age 52, increasing by 0.1% for each year of age to 2.5% at 67. For New Safety Members, the benefit multiplier will be 2% at age 50, increasing by 0.1% for each year of age to 2.7% at age 57. In between exact ages, the multiplier will increase by 0.025% for each quarter year increase in age.

New Members are subject to the PEPRA caps and other restrictions on pensionable compensation described in other parts of the valuation.

Form of Benefit

The Service Retirement Benefit will be paid monthly beginning at retirement and for the life of the Member. If the member selects the unmodified benefit form, in the event of the Member's death 60% of the benefit will continue for the life of the Member's spouse or to the age of majority of dependent minor children if there is no spouse. In the event there is no surviving spouse or minor children, any unpaid remainder of the Member's accumulated contributions will be paid to the Member's designated beneficiary.

Actuarially equivalent optional benefit forms are also available.

Annually on April 1, benefits are increased or decreased to reflect changes in the CPI for the San Francisco Bay Area. Annual increases may not exceed the COLA figures shown in Table 1, but CPI increases above this figure are "banked" and used for future increases when the CPI increases by less than the figures shown.

In addition, ad hoc cost-of-living adjustments have been granted in the past and may be granted in the future.

A lump sum benefit of \$5,000 will be payable upon the death of a retired member.



APPENDIX C – SUMMARY OF PLAN PROVISIONS

Service-Connected Disability

Eligibility

Members are eligible for Service-Connected Disability Retirement benefits at any age if they are permanently disabled as a result of injuries or illness sustained in the line of duty.

Benefit Amount

The Service-Connected Disability Retirement Benefit payable to Members is equal to the greater of 50% of their Final Compensation or - if the Member is eligible at disability for a Service Retirement Benefit – the Service Retirement Benefit accrued on the date of disability.

PEPRA: The Service-Connected Disability Retirement Benefit for New Members will be based on the new definitions of Pensionable Compensation and Final Compensation applicable to New Members.

Form of Benefit

The Service-Connected Disability Retirement Benefit will be paid monthly beginning at the effective date of disability retirement and for the life of the Member; in the event of the Member's death, 100% of the benefit will continue for the life of the Member's spouse or to the age of majority of dependent minor children if there is no spouse. In the event there is no surviving spouse or minor children, any unpaid remainder of the Member's accumulated contributions will be paid to the Member's designated beneficiary.

Actuarially equivalent optional benefit forms and COLA adjustments (as described for the Service Retirement benefit) are also available. A lump sum benefit of \$5,000 will be payable upon the death of the member.



APPENDIX C – SUMMARY OF PLAN PROVISIONS

Nonservice-Connected Disability

Eligibility

Members are eligible to for Nonservice-Connected Disability Retirement benefits if they are permanently disabled at any age after earning five years of Credited Service.

Benefit Amount

The Nonservice-Connected Disability Retirement Benefit payable to Miscellaneous Members is equal to the greatest of:

- 1.5% of Final Compensation at disability multiplied by years of Credited Service at disability;
- 1.5% of Final Compensation at disability multiplied by years of Credited Service projected to age 65, but not to exceed one-third of Final Compensation; or,
- If the Member is eligible at disability for a Service Retirement Benefit, the Service Retirement Benefit accrued on the date of disability.

The Nonservice-Connected Disability Retirement Benefit payable to Safety Members is equal to the greatest of:

- 1.8% of Final Compensation at disability multiplied by years of Credited Service at disability;
- 1.8% of Final Compensation at disability multiplied by years of Credited Service projected to age 55, but not to exceed one-third of Final Compensation; or,
- If the Member is eligible at disability for a Service Retirement Benefit, the Service Retirement Benefit accrued on the date of disability.

PEPRA: The Nonservice-Connected Disability Retirement Benefit for New Members will be based on the new definitions of Pensionable Compensation and Final Compensation applicable to New Members.

Form of Benefit

The Nonservice-Connected Disability Retirement Benefit will be paid monthly beginning at the effective date of disability retirement, and for the life of the Member; in the event of the Member's death, 60% of the benefit will continue for the life of the Member's spouse or to the age of majority of dependent minor children if there is no spouse. In the event there is no surviving spouse or minor children, any unpaid remainder of the Member's accumulated contributions will be paid to the Member's designated beneficiary.

Actuarially equivalent optional benefit forms and COLA adjustments (as described for the Service Retirement benefit) are also available. A lump sum benefit of \$5,000 will be payable upon the death of the member.



APPENDIX C – SUMMARY OF PLAN PROVISIONS

Pre-Retirement Death

Eligibility

A Member's survivors are eligible to receive different Death benefits dependent on the Member's cause of death and retirement eligibility.

Benefit Amount

In the event the Member's death resulted from injury or illness sustained in connection with the Member's duties, the Death Benefit payable to a surviving spouse or domestic partner will be 50% of the Member's Final Compensation.

In the event the Member was eligible for Service Retirement or Non-Service Connected Disability, the Death Benefit payable to the survivor will be 60% of the survivor benefit based on benefit due on Member's date of death.

In all other cases, the eligible survivor will receive a refund of the Member's contributions with interest plus one month of Final Compensation for each year of service to a maximum of six years.

PEPRA: The Death Benefits for New Members related to Final Compensation will be based on the new definitions of Pensionable Compensation and Final Compensation applicable to New Members.

Form of Benefit

The Service-Connected Death Benefit will be paid monthly beginning at the Member's death and for the life of the surviving spouse or to the age of majority of dependent minor children if there is no spouse.

COLA adjustments (as described for the Service Retirement benefit) are also available.

Withdrawal Benefit

Eligibility

A Member is eligible for a Withdrawal Benefit upon termination of employment.

Benefit Amount

The Withdrawal Benefit is a refund of the Member's accumulated Contributions with interest. Upon receipt of the Withdrawal Benefit the Member forfeits all Credited Service. Alternatively, the Member can leave contributions on deposit and retire at the date first eligible (age 70 for those not vested).



APPENDIX C – SUMMARY OF PLAN PROVISIONS

Form of Benefit

The Withdrawal Benefit is paid in a lump sum upon election by the Member.

Deferred Vested Benefit

Eligibility

A Member is eligible for a Deferred Vested Benefit upon termination of employment after earning five years of Credited Service, including reciprocity service from another system. The Member must leave his or her Member Contributions with interest on deposit with the Plan.

Benefit Amount

The Deferred Vested Benefit is computed in the same manner as the Service Retirement Benefit, but it is based on Credited Service and Final Compensation on the date of termination.

PEPRA: For New Members, the Deferred Vested Benefit will be based on the new benefit formulas, and will be based on the new definitions of Pensionable Compensation and Final Compensation applicable to New Members.

Form of Benefit

The Deferred Vested Benefit will be paid monthly beginning at retirement and for the life of the Member; in the event of the Member's death, 60% of the benefit will continue for the life of the Member's spouse or to the age of majority of dependent minor children if there is no spouse. In the event there is no surviving spouse or minor children, any unpaid remainder of the Member's accumulated contributions will be paid to the Member's designated beneficiary.

Actuarially equivalent optional benefit forms and COLA adjustments (as described for the Service Retirement benefit) are also available. A lump sum benefit of \$ 5,000 will be payable upon the death of the member.

PEPRA: For New Members, the Deferred Vested Benefit may commence at the new service retirement eligibility criteria (age 52 for Nonsafety, age 50 for Safety.)

Reciprocal Benefit

Eligibility

A Member is eligible for a Reciprocal Benefit upon termination of employment and entry, within a specified period of time, into another retirement system recognized as



APPENDIX C – SUMMARY OF PLAN PROVISIONS

a reciprocal system by the Plan. In addition, the Member must leave his or her Member Contributions with interest on deposit with the Plan.

Benefit Amount

The Reciprocal Benefit is computed in the same manner as the Service Retirement Benefit, but it is based on Credited Service on the date of termination and Final Compensation on the date of retirement; Final Compensation is based on the highest of the Compensation earned under this Plan or the reciprocal plan.

PEPRA: For New Members, the Reciprocal Benefit will be based on the new benefit formulas, and will be based on the new definitions of Pensionable Compensation and Final Compensation applicable to New Members.

Form of Benefit

The Reciprocal Benefit will be paid monthly beginning at retirement and for the life of the Member; in the event of the Member's death, 60% of the benefit will continue for the life of the Member's spouse or to the age of majority of dependent minor children if there is no spouse. In the event there is no surviving spouse or minor children, any unpaid remainder of the Member's accumulated contributions will be paid to the Member's designated beneficiary.

Actuarially equivalent optional benefit forms and COLA adjustments (as described for the Service Retirement benefit) are also available.

A lump sum benefit may be payable upon the death of a retired Member by the last system the Member worked under.

PEPRA: For New Members, the Reciprocal Benefit may commence at the new service retirement eligibility criteria (age 52 for Nonsafety, age 50 for Safety.)



APPENDIX C – SUMMARY OF PLAN PROVISIONS

Optional Benefit Forms

Prior to retirement, a member may elect to convert his retirement allowance into a benefit of equivalent actuarial value in accordance with one of the optional forms described below.

- 1. A reduced retirement allowance payable during his life with the provision that on his death the excess, if any, of his accumulated deductions at the time of retirement over the annuity payments made to him will be paid to his designated beneficiary or estate; or,
- 2. A reduced retirement allowance payable during his life with the provision that after his death the reduced allowance will be continued for life to the beneficiary designated by him at the time of his retirement; or,
- 3. A reduced retirement allowance payable during his life with the provision that after his death an allowance of one-half of his reduced allowance will be continued for life to the beneficiary designated by him at the time of his retirement.

PEPRA: No change.



APPENDIX D – GLOSSARY

1. Actuarial Assumptions

Assumptions as to the occurrence of future events affecting pension costs such as mortality, withdrawal, disability, retirement, changes in compensation, and rates of investment return.

2. Actuarial Cost Method

A procedure for determining the Actuarial Present Value of pension plan benefits and expenses and for developing an allocation of such value to each year of service, usually in the form of a Normal Cost and an Actuarial Liability.

3. Actuarial Gain (Loss)

The difference between actual experience and that expected based upon a set of Actuarial Assumptions during the period between two Actuarial Valuation dates, as determined in accordance with a particular Actuarial Cost Method.

4. Actuarial Liability

The portion of the Actuarial Present Value of Projected Benefits which will not be paid by future Normal Costs. It represents the value of the past Normal Costs with interest to the valuation date.

5. Actuarial Present Value (Present Value)

The value as of a given date of a future amount or series of payments. The Actuarial Present Value discounts the payments to the given date at the assumed investment return and includes the probability of the payment being made.

6. Actuarial Valuation

The determination, as of a specified date, of the Normal Cost, Actuarial Liability, Actuarial Value of Assets, and related Actuarial Present Values for a pension plan.



APPENDIX D – GLOSSARY

7. Actuarial Value of Assets

The value of cash, investments, and other property belonging to a pension plan as used by the actuary for the purpose of an Actuarial Valuation. The purpose of an Actuarial Value of Assets is generally to smooth out fluctuations in market values. As of the June 30, 2014 valuation, no smoothing of the assets is applied, and the Actuarial Value equals the Market Value.

8. Actuarially Equivalent

Of equal Actuarial Present Value, determined as of a given date, with each value based on the same set of actuarial assumptions.

9. Amortization Payment

The portion of the pension plan contribution, which is designed to pay interest and principal on the Unfunded Actuarial Liability in order to pay for that liability in a given number of years.

10. Entry Age Normal Actuarial Cost Method

A method under which the Actuarial Present Value of the Projected Benefits of each individual included in an Actuarial Valuation is allocated on a level basis over the earnings of the individual between entry age and assumed exit ages.

11. Funded Ratio

The ratio of the Actuarial Value of Assets to the Actuarial Liability.

12. Normal Cost

That portion of the Actuarial Present Value of pension plan benefits and expenses which is allocated to a valuation year by the Actuarial Cost Method.

13. Projected Benefits

Those pension plan benefit amounts which are expected to be paid in the future under a particular set of Actuarial Assumptions, taking into account such items as increases in future compensation and service credits.

14. Unfunded Actuarial Liability

The excess of the Actuarial Liability over the Actuarial Value of Assets.



APPENDIX E – MEMBER CONTRIBUTION RATES

Employee contribution rates vary by member Group and Tier. The basic rates are determined based on Government Code Section 31621 for General members (31621.1 for members under benefit section 31676.11, 31621.8 for members under benefit 31676.19) and Section 31639.25 for Safety members. The COLA rates for members are determined based on 50% of the normal cost associated with the expected COLA benefits, determined for each individual entry age. A cap on the employee COLA contribution rate is applied to the County and Courts members. Some County Safety groups are paying additional employee contributions as a result of bargaining agreements.

The current rates were determined based on an interest rate of 7.25% per annum, an average salary increase of 3.00% per year (plus service-based increases for merit/longevity), and the CalPERS 2014 Post-Retirement Healthy Mortality rates, adjusted by 110% for Safety Males and 95% for Miscellaneous and Safety Females, with a status projection from a base year of 2009 to the year 2037 using Scale MP-2014.

The rates are blended based on a male/female weighting of 40% male/60% female for General members, and 85% male/15% female for Safety members. Basic and COLA rates were determined based on an assumption that members would cease making contributions after 30 years of service.

Employee contribution rates for PEPRA members are determined based on half the Normal Cost for the PEPRA members (computed separately for General and Safety members, and those with 2%, 3% or 4% capped COLAs). Due to the passage of SB13, contribution rates for PEPRA members are not rounded, and are recomputed each year.

A load is added to the employee contributions to cover their share of the expected administrative expenses. For the current valuation, the load is 4.8% of the total unadjusted contribution rate.



Coun	ty Miscellane	ous and Cour	ts: Tier 1 (316'	76.14)
Entry			COL Limited	
Age	Basic	COL	to 1.58%	Total
20	5.92%	1.98%	1.58%	7.50%
21	5.98%	2.04%	1.58%	7.56%
22	6.01%	2.12%	1.58%	7.59%
23	6.05%	2.18%	1.58%	7.63%
24	6.08%	2.24%	1.58%	7.66%
25	6.11%	2.31%	1.58%	7.69%
26	6.13%	2.38%	1.58%	7.71%
27	6.15%	2.44%	1.58%	7.73%
28	6.17%	2.50%	1.58%	7.75%
29	6.18%	2.57%	1.58%	7.76%
30	6.18%	2.63%	1.58%	7.76%
31	6.30%	2.68%	1.58%	7.88%
32	6.43%	2.73%	1.58%	8.01%
33	6.55%	2.79%	1.58%	8.13%
34	6.68%	2.85%	1.58%	8.26%
35	6.80%	2.91%	1.58%	8.38%
36	6.94%	2.97%	1.58%	8.52%
37	7.08%	3.03%	1.58%	8.66%
38	7.21%	3.09%	1.58%	8.79%
39	7.36%	3.14%	1.58%	8.94%
40	7.51%	3.20%	1.58%	9.09%
41	7.65%	3.25%	1.58%	9.23%
42	7.80%	3.29%	1.58%	9.38%
43	7.96%	3.34%	1.58%	9.54%
44	8.13%	3.40%	1.58%	9.71%
45	8.29%	3.44%	1.58%	9.87%
46	8.46%	3.46%	1.58%	10.04%
47	8.64%	3.50%	1.58%	10.22%
48	8.83%	3.53%	1.58%	10.41%
49	9.02%	3.56%	1.58%	10.60%
50	9.23%	3.56%	1.58%	10.81%
51	9.46%	3.56%	1.58%	11.04%
52	9.71%	3.55%	1.58%	11.29%
53	9.98%	3.44%	1.58%	11.56%
54	10.32%	3.31%	1.58%	11.90%
55	10.59%	3.20%	1.58%	12.17%
56	10.56%	3.07%	1.58%	12.14%
57	10.37%	2.96%	1.58%	11.95%
58	10.19%	2.83%	1.58%	11.77%
59+	10.00%	2.71%	1.58%	11.58%



County Miscellaneous and Courts: Tier 2 (31676.1)					
Entry		COL Limited			
Age	Basic	COL	to 1.58%	Total	
20	5.63%	0.99%	0.99%	6.62%	
21	5.68%	1.02%	1.02%	6.70%	
22	5.72%	1.05%	1.05%	6.77%	
23	5.76%	1.08%	1.08%	6.84%	
24	5.80%	1.11%	1.11%	6.91%	
25	5.82%	1.14%	1.14%	6.96%	
26	5.85%	1.17%	1.17%	7.02%	
27	5.85%	1.22%	1.22%	7.07%	
28	5.87%	1.26%	1.26%	7.13%	
29	5.88%	1.29%	1.29%	7.17%	
30	5.88%	1.33%	1.33%	7.21%	
31	6.00%	1.37%	1.37%	7.37%	
32	6.13%	1.40%	1.40%	7.53%	
33	6.23%	1.45%	1.45%	7.68%	
34	6.36%	1.48%	1.48%	7.84%	
35	6.49%	1.52%	1.52%	8.01%	
36	6.63%	1.55%	1.55%	8.18%	
37	6.75%	1.58%	1.58%	8.33%	
38	6.93%	1.62%	1.58%	8.51%	
39	7.10%	1.66%	1.58%	8.68%	
40	7.23%	1.69%	1.58%	8.81%	
41	7.38%	1.72%	1.58%	8.96%	
42	7.53%	1.75%	1.58%	9.11%	
43	7.67%	1.79%	1.58%	9.25%	
44	7.83%	1.82%	1.58%	9.41%	
45	7.99%	1.86%	1.58%	9.57%	
46	8.16%	1.89%	1.58%	9.74%	
47	8.34%	1.91%	1.58%	9.92%	
48	8.51%	1.94%	1.58%	10.09%	
49	8.70%	1.97%	1.58%	10.28%	
50	8.90%	1.98%	1.58%	10.48%	
51	9.12%	2.00%	1.58%	10.70%	
52	9.36%	2.01%	1.58%	10.94%	
53	9.59%	1.99%	1.58%	11.17%	
54	9.71%	1.95%	1.58%	11.29%	
55	9.68%	1.89%	1.58%	11.26%	
56	9.53%	1.82%	1.58%	11.11%	
57	9.36%	1.76%	1.58%	10.94%	
58	9.68%	1.69%	1.58%	11.26%	
59+	9.97%	1.62%	1.58%	11.55%	



Count	v Miscellaneo	ous Tiers 3 a	and 3A, Courts T	Tiers 3 and 4 (31)	676.16)
Entry	•		COL Limited	Additional	
Age	Basic	COL	to 1.58%	Cost Sharing	Total
20	5.69%	1.23%	1.23%	1.14%	8.06%
21	5.73%	1.27%	1.27%	1.14%	8.14%
22	5.78%	1.30%	1.30%	1.14%	8.22%
23	5.82%	1.34%	1.34%	1.14%	8.30%
24	5.85%	1.38%	1.38%	1.14%	8.37%
25	5.88%	1.41%	1.41%	1.14%	8.43%
26	5.90%	1.45%	1.45%	1.14%	8.49%
27	5.91%	1.48%	1.48%	1.14%	8.53%
28	5.92%	1.52%	1.52%	1.14%	8.58%
29	5.94%	1.55%	1.55%	1.14%	8.63%
30	5.94%	1.58%	1.58%	1.14%	8.66%
31	6.08%	1.61%	1.58%	1.14%	8.80%
32	6.24%	1.65%	1.58%	1.14%	8.96%
33	6.37%	1.68%	1.58%	1.14%	9.09%
34	6.49%	1.72%	1.58%	1.14%	9.21%
35	6.62%	1.75%	1.58%	1.14%	9.34%
36	6.75%	1.78%	1.58%	1.14%	9.47%
37	6.88%	1.82%	1.58%	1.14%	9.60%
38	7.02%	1.86%	1.58%	1.14%	9.74%
39	7.15%	1.89%	1.58%	1.14%	9.87%
40	7.29%	1.92%	1.58%	1.14%	10.01%
41	7.44%	1.94%	1.58%	1.14%	10.16%
42	7.58%	1.97%	1.58%	1.14%	10.30%
43	7.73%	2.00%	1.58%	1.14%	10.45%
44	7.89%	2.02%	1.58%	1.14%	10.61%
45	8.04%	2.04%	1.58%	1.14%	10.76%
46	8.21%	2.05%	1.58%	1.14%	10.93%
47	8.39%	2.06%	1.58%	1.14%	11.11%
48	8.57%	2.09%	1.58%	1.14%	11.29%
49	8.76%	2.11%	1.58%	1.14%	11.48%
50	8.96%	2.11%	1.58%	1.14%	11.68%
51	9.18%	2.11%	1.58%	1.14%	11.90%
52	9.42%	2.10%	1.58%	1.14%	12.14%
53	9.65%	2.03%	1.58%	1.14%	12.37%
54	9.76%	1.97%	1.58%	1.14%	12.48%
55	9.73%	1.90%	1.58%	1.14%	12.45%
56	9.58%	1.82%	1.58%	1.14%	12.30%
57	9.42%	1.76%	1.58%	1.14%	12.14%
58	9.73%	1.69%	1.58%	1.14%	12.45%
59+	10.02%	1.62%	1.58%	1.14%	12.74%



County Miscellaneous Tier 4 (31676.1)					
Entry	COL Limited				
Age	Basic	COL	to 1.58%	Total	
20	5.63%	0.99%	0.99%	6.62%	
21	5.68%	1.02%	1.02%	6.70%	
22	5.72%	1.06%	1.06%	6.78%	
23	5.76%	1.09%	1.09%	6.85%	
24	5.80%	1.12%	1.12%	6.92%	
25	5.82%	1.15%	1.15%	6.97%	
26	5.85%	1.18%	1.18%	7.03%	
27	5.86%	1.23%	1.23%	7.09%	
28	5.87%	1.27%	1.27%	7.14%	
29	5.88%	1.31%	1.31%	7.19%	
30	5.88%	1.34%	1.34%	7.22%	
31	6.00%	1.38%	1.38%	7.38%	
32	6.13%	1.41%	1.41%	7.54%	
33	6.23%	1.46%	1.46%	7.69%	
34	6.36%	1.49%	1.49%	7.85%	
35	6.49%	1.52%	1.52%	8.01%	
36	6.63%	1.55%	1.55%	8.18%	
37	6.75%	1.58%	1.58%	8.33%	
38	6.92%	1.61%	1.58%	8.50%	
39	7.10%	1.66%	1.58%	8.68%	
40	7.23%	1.69%	1.58%	8.81%	
41	7.38%	1.72%	1.58%	8.96%	
42	7.53%	1.75%	1.58%	9.11%	
43	7.67%	1.78%	1.58%	9.25%	
44	7.83%	1.82%	1.58%	9.41%	
45	7.99%	1.86%	1.58%	9.57%	
46	8.16%	1.89%	1.58%	9.74%	
47	8.34%	1.91%	1.58%	9.92%	
48	8.51%	1.94%	1.58%	10.09%	
49	8.70%	1.97%	1.58%	10.28%	
50	8.90%	1.98%	1.58%	10.48%	
51	9.12%	2.00%	1.58%	10.70%	
52	9.36%	2.01%	1.58%	10.94%	
53	9.59%	1.99%	1.58%	11.17%	
54	9.71%	1.95%	1.58%	11.29%	
55	9.68%	1.89%	1.58%	11.26%	
56	9.53%	1.82%	1.58%	11.11%	
57	9.36%	1.76%	1.58%	10.94%	
58	9.68%	1.69%	1.58%	11.26%	
59+	9.97%	1.62%	1.58%	11.55%	



	County Safety: Tier 1A (31664.2)					
Entry			COL Limited	Additional		
Age	Basic	COL	to 3.10%	Cost Sharing	Total	
20	8.61%	3.83%	3.10%	3.64%	15.35%	
21	8.75%	3.94%	3.10%	3.64%	15.49%	
22	8.89%	4.05%	3.10%	3.64%	15.63%	
23	9.02%	4.17%	3.10%	3.64%	15.76%	
24	9.16%	4.28%	3.10%	3.64%	15.90%	
25	9.31%	4.36%	3.10%	3.64%	16.05%	
26	9.45%	4.45%	3.10%	3.64%	16.19%	
27	9.60%	4.56%	3.10%	3.64%	16.34%	
28	9.75%	4.67%	3.10%	3.64%	16.49%	
29	9.89%	4.79%	3.10%	3.64%	16.63%	
30	10.05%	4.89%	3.10%	3.64%	16.79%	
31	10.21%	5.03%	3.10%	3.64%	16.95%	
32	10.36%	5.16%	3.10%	3.64%	17.10%	
33	10.52%	5.28%	3.10%	3.64%	17.26%	
34	10.69%	5.40%	3.10%	3.64%	17.43%	
35	10.86%	5.46%	3.10%	3.64%	17.60%	
36	11.03%	5.48%	3.10%	3.64%	17.77%	
37	11.19%	5.50%	3.10%	3.64%	17.93%	
38	11.38%	5.58%	3.10%	3.64%	18.12%	
39	11.56%	5.64%	3.10%	3.64%	18.30%	
40	11.75%	5.71%	3.10%	3.64%	18.49%	
41	11.95%	5.79%	3.10%	3.64%	18.69%	
42	12.16%	5.87%	3.10%	3.64%	18.90%	
43	12.38%	5.98%	3.10%	3.64%	19.12%	
44	12.63%	6.09%	3.10%	3.64%	19.37%	
45	12.90%	6.20%	3.10%	3.64%	19.64%	
46	13.14%	6.16%	3.10%	3.64%	19.88%	
47	13.09%	6.22%	3.10%	3.64%	19.83%	
48	13.04%	6.28%	3.10%	3.64%	19.78%	
49+	12.99%	6.35%	3.10%	3.64%	19.73%	



APPENDIX E – MEMBER	CONTRIBUTION RATES
----------------------------	---------------------------

		County Saf	ety: Tier 1B (31	.664.1)	
Entry		v	COL Limited	Additional	
Age	Basic	COL	to 3.10%	Cost Sharing	Total
20	8.61%	4.49%	3.10%	3.64%	15.35%
21	8.75%	4.52%	3.10%	3.64%	15.49%
22	8.89%	4.60%	3.10%	3.64%	15.63%
23	9.02%	4.70%	3.10%	3.64%	15.76%
24	9.16%	4.79%	3.10%	3.64%	15.90%
25	9.31%	4.88%	3.10%	3.64%	16.05%
26	9.45%	4.98%	3.10%	3.64%	16.19%
27	9.60%	5.07%	3.10%	3.64%	16.34%
28	9.75%	5.18%	3.10%	3.64%	16.49%
29	9.89%	5.27%	3.10%	3.64%	16.63%
30	10.05%	5.37%	3.10%	3.64%	16.79%
31	10.21%	5.50%	3.10%	3.64%	16.95%
32	10.36%	5.64%	3.10%	3.64%	17.10%
33	10.52%	5.78%	3.10%	3.64%	17.26%
34	10.69%	5.89%	3.10%	3.64%	17.43%
35	10.86%	6.00%	3.10%	3.64%	17.60%
36	11.03%	6.11%	3.10%	3.64%	17.77%
37	11.19%	6.24%	3.10%	3.64%	17.93%
38	11.38%	6.35%	3.10%	3.64%	18.12%
39	11.56%	6.47%	3.10%	3.64%	18.30%
40	11.75%	6.58%	3.10%	3.64%	18.49%
41	11.95%	6.41%	3.10%	3.64%	18.69%
42	12.16%	6.44%	3.10%	3.64%	18.90%
43	12.38%	6.50%	3.10%	3.64%	19.12%
44	12.63%	6.58%	3.10%	3.64%	19.37%
45	12.90%	6.69%	3.10%	3.64%	19.64%
46	13.14%	6.69%	3.10%	3.64%	19.88%
47	13.09%	6.70%	3.10%	3.64%	19.83%
48	13.04%	6.70%	3.10%	3.64%	19.78%
49+	12.99%	6.72%	3.10%	3.64%	19.73%

Some members who are receiving enhanced benefits under 31664.1 are paying an additional 2.60%, 3.530% or 3.885%, depending on their bargaining agreement.



	С	ounty Safety	: Tier 2A (31664	1. 2)	
Entry			COL Limited	Additional	
Age	Basic	COL	to 3.10%	Cost Sharing	Total
20	8.13%	2.36%	2.36%	3.64%	14.13%
21	8.26%	2.43%	2.43%	3.64%	14.33%
22	8.39%	2.50%	2.50%	3.64%	14.53%
23	8.52%	2.58%	2.58%	3.64%	14.74%
24	8.66%	2.65%	2.65%	3.64%	14.95%
25	8.79%	2.70%	2.70%	3.64%	15.13%
26	8.92%	2.76%	2.76%	3.64%	15.32%
27	9.07%	2.82%	2.82%	3.64%	15.53%
28	9.21%	2.89%	2.89%	3.64%	15.74%
29	9.35%	2.97%	2.97%	3.64%	15.96%
30	9.50%	3.04%	3.04%	3.64%	16.18%
31	9.66%	3.11%	3.10%	3.64%	16.40%
32	9.90%	3.20%	3.10%	3.64%	16.64%
33	10.11%	3.27%	3.10%	3.64%	16.85%
34	10.27%	3.34%	3.10%	3.64%	17.01%
35	10.43%	3.39%	3.10%	3.64%	17.17%
36	10.59%	3.41%	3.10%	3.64%	17.33%
37	10.75%	3.42%	3.10%	3.64%	17.49%
38	10.93%	3.47%	3.10%	3.64%	17.67%
39	11.11%	3.51%	3.10%	3.64%	17.85%
40	11.29%	3.55%	3.10%	3.64%	18.03%
41	11.48%	3.61%	3.10%	3.64%	18.22%
42	11.68%	3.66%	3.10%	3.64%	18.42%
43	11.90%	3.73%	3.10%	3.64%	18.64%
44	12.10%	3.80%	3.10%	3.64%	18.84%
45	12.20%	3.87%	3.10%	3.64%	18.94%
46	12.20%	3.85%	3.10%	3.64%	18.94%
47	12.16%	3.89%	3.10%	3.64%	18.90%
48	12.57%	3.93%	3.10%	3.64%	19.31%
49+	12.99%	3.97%	3.10%	3.64%	19.73%



APPENDIX E – MEMBER	R CONTRIBUTION RATES
----------------------------	-----------------------------

	County Safety: Tier 2B (31664.1)				
Entry			COL Limited	Additional	
Age	Basic	COL	to 3.10%	Cost Sharing	Total
20	8.13%	2.77%	2.77%	3.64%	14.54%
21	8.25%	2.79%	2.79%	3.64%	14.68%
22	8.38%	2.84%	2.84%	3.64%	14.86%
23	8.52%	2.90%	2.90%	3.64%	15.06%
24	8.65%	2.97%	2.97%	3.64%	15.26%
25	8.79%	3.02%	3.02%	3.64%	15.45%
26	8.93%	3.07%	3.07%	3.64%	15.64%
27	9.11%	3.13%	3.10%	3.64%	15.85%
28	9.32%	3.21%	3.10%	3.64%	16.06%
29	9.51%	3.27%	3.10%	3.64%	16.25%
30	9.65%	3.32%	3.10%	3.64%	16.39%
31	9.80%	3.41%	3.10%	3.64%	16.54%
32	9.96%	3.49%	3.10%	3.64%	16.70%
33	10.11%	3.57%	3.10%	3.64%	16.85%
34	10.27%	3.65%	3.10%	3.64%	17.01%
35	10.43%	3.71%	3.10%	3.64%	17.17%
36	10.59%	3.78%	3.10%	3.64%	17.33%
37	10.75%	3.87%	3.10%	3.64%	17.49%
38	10.93%	3.94%	3.10%	3.64%	17.67%
39	11.11%	4.01%	3.10%	3.64%	17.85%
40	11.29%	4.08%	3.10%	3.64%	18.03%
41	11.48%	3.98%	3.10%	3.64%	18.22%
42	11.68%	4.00%	3.10%	3.64%	18.42%
43	11.90%	4.05%	3.10%	3.64%	18.64%
44	12.10%	4.10%	3.10%	3.64%	18.84%
45	12.20%	4.16%	3.10%	3.64%	18.94%
46	12.20%	4.17%	3.10%	3.64%	18.94%
47	12.16%	4.18%	3.10%	3.64%	18.90%
48	12.57%	4.19%	3.10%	3.64%	19.31%
49+	12.99%	4.20%	3.10%	3.64%	19.73%

Some members who are receiving enhanced benefits under 31664.1 are paying an additional 2.60%, 3.530% or 3.885%, depending on their bargaining agreement.



South Mar	in Fire: Miscel	laneous Tier	1 (31676.19)
Entry			
Age	Basic	COL	Total
20	7.60%	2.44%	10.04%
21	7.63%	2.55%	10.18%
22	7.65%	2.63%	10.28%
23	7.67%	2.71%	10.38%
24	7.67%	2.81%	10.48%
25	7.67%	2.88%	10.55%
26	7.83%	2.92%	10.75%
27	7.98%	2.97%	10.95%
28	8.14%	3.01%	11.15%
29	8.30%	3.05%	11.35%
30	8.47%	3.11%	11.58%
31	8.64%	3.15%	11.79%
32	8.81%	3.21%	12.02%
33	8.98%	3.26%	12.24%
34	9.16%	3.33%	12.49%
35	9.34%	3.40%	12.74%
36	9.54%	3.45%	12.99%
37	9.73%	3.51%	13.24%
38	9.93%	3.56%	13.49%
39	10.12%	3.61%	13.73%
40	10.33%	3.66%	13.99%
41	10.54%	3.68%	14.22%
42	10.77%	3.70%	14.47%
43	11.01%	3.73%	14.74%
44	11.26%	3.75%	15.01%
45	11.52%	3.77%	15.29%
46	11.80%	3.73%	15.53%
47	12.12%	3.75%	15.87%
48	12.46%	3.76%	16.22%
49	12.87%	3.77%	16.64%
50	13.23%	3.74%	16.97%
51	13.19%	3.72%	16.91%
52	12.95%	3.70%	16.65%
53	12.73%	3.57%	16.30%
54+	12.49%	3.44%	15.93%



South	Marin Fire Sat	fety: Tier 1 (3	31664.1)
Entry		· · ·	
Age	Basic	COL	Total
20	8.29%	4.49%	12.78%
21	8.42%	4.52%	12.94%
22	8.56%	4.60%	13.16%
23	8.69%	4.70%	13.39%
24	8.84%	4.79%	13.63%
25	8.99%	4.88%	13.87%
26	9.13%	4.98%	14.11%
27	9.28%	5.07%	14.35%
28	9.42%	5.18%	14.60%
29	9.57%	5.27%	14.84%
30	9.72%	5.37%	15.09%
31	9.89%	5.50%	15.39%
32	10.04%	5.64%	15.68%
33	10.19%	5.78%	15.97%
34	10.37%	5.89%	16.26%
35	10.53%	6.00%	16.53%
36	10.70%	6.11%	16.81%
37	10.86%	6.24%	17.10%
38	11.06%	6.35%	17.41%
39	11.23%	6.47%	17.70%
40	11.43%	6.58%	18.01%
41	11.63%	6.41%	18.04%
42	11.83%	6.44%	18.27%
43	12.05%	6.50%	18.55%
44	12.31%	6.58%	18.89%
45	12.57%	6.69%	19.26%
46	12.82%	6.69%	19.51%
47	12.76%	6.70%	19.46%
48	12.71%	6.70%	19.41%
49+	12.66%	6.72%	19.38%



South Marin Fire Safety: Tier 2 (31664.2)				
Entry		v x		
Age	Basic	COL	Total	
20	8.29%	3.83%	12.12%	
21	8.43%	3.94%	12.37%	
22	8.56%	4.05%	12.61%	
23	8.70%	4.17%	12.87%	
24	8.83%	4.28%	13.11%	
25	8.98%	4.36%	13.34%	
26	9.13%	4.45%	13.58%	
27	9.27%	4.56%	13.83%	
28	9.43%	4.67%	14.10%	
29	9.57%	4.79%	14.36%	
30	9.73%	4.89%	14.62%	
31	9.88%	5.03%	14.91%	
32	10.04%	5.16%	15.20%	
33	10.20%	5.28%	15.48%	
34	10.36%	5.40%	15.76%	
35	10.53%	5.46%	15.99%	
36	10.70%	5.48%	16.18%	
37	10.87%	5.50%	16.37%	
38	11.05%	5.58%	16.63%	
39	11.23%	5.64%	16.87%	
40	11.43%	5.71%	17.14%	
41	11.62%	5.79%	17.41%	
42	11.83%	5.87%	17.70%	
43	12.06%	5.98%	18.04%	
44	12.30%	6.09%	18.39%	
45	12.58%	6.20%	18.78%	
46	12.82%	6.16%	18.98%	
47	12.76%	6.22%	18.98%	
48	12.71%	6.28%	18.99%	
49+	12.66%	6.35%	19.01%	



South I	Marin Fire Saf	ety: Tier 2A ((31664.2)
Entry			
Age	Basic	COL	Total
20	7.96%	3.49%	11.45%
21	8.09%	3.59%	11.68%
22	8.21%	3.70%	11.91%
23	8.35%	3.80%	12.15%
24	8.48%	3.91%	12.39%
25	8.62%	3.98%	12.60%
26	8.75%	4.07%	12.82%
27	8.90%	4.16%	13.06%
28	9.03%	4.27%	13.30%
29	9.18%	4.37%	13.55%
30	9.32%	4.48%	13.80%
31	9.48%	4.59%	14.07%
32	9.63%	4.71%	14.34%
33	9.79%	4.82%	14.61%
34	9.94%	4.93%	14.87%
35	10.10%	4.99%	15.09%
36	10.26%	5.00%	15.26%
37	10.43%	5.03%	15.46%
38	10.61%	5.09%	15.70%
39	10.78%	5.16%	15.94%
40	10.96%	5.22%	16.18%
41	11.15%	5.28%	16.43%
42	11.35%	5.36%	16.71%
43	11.57%	5.47%	17.04%
44	11.78%	5.57%	17.35%
45	11.88%	5.67%	17.55%
46	11.87%	5.63%	17.50%
47	11.83%	5.68%	17.51%
48	12.25%	5.74%	17.99%
49+	12.66%	5.81%	18.47%



Mar	in City CSD Tie	er 1, LAFCO	Tier 7,
Entry	Tamalpais CS		
Age	Basic	COL	Total
20	6.33%	1.74%	8.07%
21	6.35%	1.79%	8.14%
22	6.38%	1.84%	8.22%
23	6.38%	1.91%	8.29%
24	6.39%	1.96%	8.35%
25	6.40%	2.01%	8.41%
26	6.52%	2.08%	8.60%
27	6.65%	2.15%	8.80%
28	6.79%	2.22%	9.01%
29	6.92%	2.28%	9.20%
30	7.05%	2.35%	9.40%
31	7.20%	2.40%	9.60%
32	7.34%	2.46%	9.80%
33	7.48%	2.53%	10.01%
34	7.64%	2.59%	10.23%
35	7.79%	2.65%	10.44%
36	7.95%	2.70%	10.65%
37	8.10%	2.77%	10.87%
38	8.27%	2.82%	11.09%
39	8.44%	2.88%	11.32%
40	8.61%	2.93%	11.54%
41	8.79%	3.00%	11.79%
42	8.97%	3.05%	12.02%
43	9.17%	3.10%	12.27%
44	9.38%	3.17%	12.55%
45	9.60%	3.22%	12.82%
46	9.83%	3.26%	13.09%
47	10.09%	3.30%	13.39%
48	10.39%	3.34%	13.73%
49	10.73%	3.39%	14.12%
50	11.02%	3.41%	14.43%
51	10.98%	3.43%	14.41%
52	10.79%	3.44%	14.23%
53	10.60%	3.36%	13.96%
54	10.41%	3.28%	13.69%
55	10.32%	3.18%	13.50%
56	10.24%	3.06%	13.30%
57	10.14%	2.93%	13.07%
58	10.04%	2.82%	12.86%
59+	9.93%	2.70%	12.63%



Mosquito District Tier 1 (31676.14)				
Entry				
Age	Basic	COL	Total	
20	5.85%	1.98%	7.83%	
21	5.90%	2.04%	7.94%	
22	5.93%	2.12%	8.05%	
23	5.97%	2.18%	8.15%	
24	6.01%	2.24%	8.25%	
25	6.03%	2.31%	8.34%	
26	6.06%	2.38%	8.44%	
27	6.08%	2.44%	8.52%	
28	6.09%	2.50%	8.59%	
29	6.10%	2.57%	8.67%	
30	6.10%	2.63%	8.73%	
31	6.23%	2.68%	8.91%	
32	6.35%	2.73%	9.08%	
33	6.48%	2.79%	9.27%	
34	6.60%	2.85%	9.45%	
35	6.73%	2.91%	9.64%	
36	6.86%	2.97%	9.83%	
37	7.00%	3.03%	10.03%	
38	7.14%	3.09%	10.23%	
39	7.29%	3.14%	10.43%	
40	7.43%	3.20%	10.63%	
41	7.58%	3.25%	10.83%	
42	7.73%	3.29%	11.02%	
43	7.89%	3.34%	11.23%	
44	8.05%	3.40%	11.45%	
45	8.21%	3.44%	11.65%	
46	8.38%	3.46%	11.84%	
47	8.56%	3.50%	12.06%	
48	8.75%	3.53%	12.28%	
49	8.94%	3.56%	12.50%	
50	9.15%	3.56%	12.71%	
51	9.38%	3.56%	12.94%	
52	9.64%	3.55%	13.19%	
53	9.90%	3.44%	13.34%	
54	10.24%	3.31%	13.55%	
55	10.51%	3.20%	13.71%	
56	10.48%	3.07%	13.55%	
57	10.29%	2.96%	13.25%	
58	10.11%	2.83%	12.94%	
59+	9.93%	2.71%	12.64%	



LAFCO Tier 3 (31676.16)			
Entry			
Age	Basic	COL	Total
20	5.64%	1.23%	6.87%
21	5.68%	1.27%	6.95%
22	5.72%	1.30%	7.02%
23	5.77%	1.34%	7.11%
24	5.80%	1.38%	7.18%
25	5.82%	1.41%	7.23%
26	5.84%	1.45%	7.29%
27	5.86%	1.48%	7.34%
28	5.87%	1.52%	7.39%
29	5.88%	1.55%	7.43%
30	5.88%	1.58%	7.46%
31	6.00%	1.61%	7.61%
32	6.12%	1.65%	7.77%
33	6.23%	1.68%	7.91%
34	6.36%	1.72%	8.08%
35	6.49%	1.75%	8.24%
36	6.63%	1.78%	8.41%
37	6.75%	1.82%	8.57%
38	6.88%	1.86%	8.74%
39	7.02%	1.89%	8.91%
40	7.16%	1.92%	9.08%
41	7.30%	1.94%	9.24%
42	7.45%	1.97%	9.42%
43	7.60%	2.00%	9.60%
44	7.76%	2.02%	9.78%
45	7.92%	2.04%	9.96%
46	8.09%	2.05%	10.14%
47	8.26%	2.06%	10.32%
48	8.43%	2.09%	10.52%
49	8.62%	2.11%	10.73%
50	8.82%	2.11%	10.93%
51	9.04%	2.11%	11.15%
52	9.28%	2.10%	11.38%
53	9.52%	2.03%	11.55%
54	9.63%	1.97%	11.60%
55	9.60%	1.90%	11.50%
56	9.46%	1.82%	11.28%
57	9.29%	1.76%	11.05%
58	9.60%	1.69%	11.29%
59+	9.93%	1.62%	11.55%



Novato Miscellaneous Tier 1 (31676.16)			
Entry			
Age	Basic	COL	Total
20	5.85%	2.00%	7.85%
21	5.91%	2.06%	7.97%
22	5.93%	2.13%	8.06%
23	5.97%	2.18%	8.15%
24	6.01%	2.24%	8.25%
25	6.03%	2.31%	8.34%
26	6.06%	2.36%	8.42%
27	6.08%	2.41%	8.49%
28	6.09%	2.46%	8.55%
29	6.10%	2.52%	8.62%
30	6.10%	2.57%	8.67%
31	6.23%	2.62%	8.85%
32	6.35%	2.67%	9.02%
33	6.47%	2.73%	9.20%
34	6.60%	2.78%	9.38%
35	6.73%	2.84%	9.57%
36	6.87%	2.89%	9.76%
37	7.00%	2.95%	9.95%
38	7.14%	3.00%	10.14%
39	7.28%	3.05%	10.33%
40	7.43%	3.10%	10.53%
41	7.58%	3.14%	10.72%
42	7.72%	3.18%	10.90%
43	7.88%	3.23%	11.11%
44	8.05%	3.26%	11.31%
45	8.22%	3.30%	11.52%
46	8.39%	3.30%	11.69%
47	8.57%	3.33%	11.90%
48	8.76%	3.35%	12.11%
49	8.94%	3.39%	12.33%
50	9.15%	3.37%	12.52%
51	9.39%	3.37%	12.76%
52	9.64%	3.36%	13.00%
53	9.90%	3.26%	13.16%
54	10.24%	3.14%	13.38%
55	10.51%	3.03%	13.54%
56	10.48%	2.91%	13.39%
57	10.29%	2.80%	13.09%
58	10.12%	2.68%	12.80%
59+	9.92%	2.58%	12.50%



Nova	to Safety: '	Fier 1 (31	664.1)
Entry			
Age	Basic	COL	Total
20	8.29%	4.55%	12.84%
21	8.43%	4.58%	13.01%
22	8.57%	4.67%	13.24%
23	8.70%	4.77%	13.47%
24	8.84%	4.87%	13.71%
25	8.98%	4.97%	13.95%
26	9.13%	5.06%	14.19%
27	9.27%	5.16%	14.43%
28	9.42%	5.27%	14.69%
29	9.57%	5.37%	14.94%
30	9.73%	5.46%	15.19%
31	9.88%	5.61%	15.49%
32	10.04%	5.74%	15.78%
33	10.20%	5.87%	16.07%
34	10.36%	6.00%	16.36%
35	10.53%	6.10%	16.63%
36	10.70%	6.23%	16.93%
37	10.87%	6.34%	17.21%
38	11.05%	6.47%	17.52%
39	11.24%	6.58%	17.82%
40	11.42%	6.70%	18.12%
41	11.62%	6.53%	18.15%
42	11.83%	6.55%	18.38%
43	12.06%	6.61%	18.67%
44	12.30%	6.70%	19.00%
45	12.58%	6.80%	19.38%
46	12.82%	6.80%	19.62%
47	12.77%	6.81%	19.58%
48	12.72%	6.82%	19.54%
49+	12.66%	6.83%	19.49%



Nova	to Safety: '	Tier 2 (31	664.2)
Entry			
Age	Basic	COL	Total
20	8.29%	3.89%	12.18%
21	8.43%	3.99%	12.42%
22	8.56%	4.11%	12.67%
23	8.70%	4.23%	12.93%
24	8.83%	4.34%	13.17%
25	8.99%	4.43%	13.42%
26	9.13%	4.53%	13.66%
27	9.28%	4.63%	13.91%
28	9.42%	4.75%	14.17%
29	9.57%	4.87%	14.44%
30	9.73%	4.99%	14.72%
31	9.89%	5.11%	15.00%
32	10.04%	5.24%	15.28%
33	10.19%	5.38%	15.57%
34	10.37%	5.49%	15.86%
35	10.54%	5.55%	16.09%
36	10.70%	5.58%	16.28%
37	10.87%	5.60%	16.47%
38	11.06%	5.67%	16.73%
39	11.24%	5.74%	16.98%
40	11.42%	5.82%	17.24%
41	11.62%	5.89%	17.51%
42	11.84%	5.97%	17.81%
43	12.05%	6.09%	18.14%
44	12.31%	6.20%	18.51%
45	12.58%	6.31%	18.89%
46	12.82%	6.27%	19.09%
47	12.77%	6.33%	19.10%
48	12.72%	6.39%	19.11%
49+	12.66%	6.46%	19.12%



San Rafael Miscellaneous Tier 1 (31676.19)					
	Entry				
Age	Basic	COL	Total		
20	7.60%	2.35%	9.95%		
21	7.63%	2.44%	10.07%		
22	7.65%	2.54%	10.19%		
23	7.66%	2.62%	10.28%		
24	7.68%	2.70%	10.38%		
25	7.67%	2.78%	10.45%		
26	7.83%	2.82%	10.65%		
27	7.99%	2.86%	10.85%		
28	8.15%	2.90%	11.05%		
29	8.30%	2.95%	11.25%		
30	8.47%	3.00%	11.47%		
31	8.64%	3.05%	11.69%		
32	8.82%	3.09%	11.91%		
33	8.99%	3.15%	12.14%		
34	9.16%	3.22%	12.38%		
35	9.35%	3.28%	12.63%		
36	9.54%	3.33%	12.87%		
37	9.72%	3.40%	13.12%		
38	9.92%	3.44%	13.36%		
39	10.12%	3.48%	13.60%		
40	10.34%	3.53%	13.87%		
41	10.55%	3.55%	14.10%		
42	10.78%	3.57%	14.35%		
43	11.00%	3.61%	14.61%		
44	11.25%	3.63%	14.88%		
45	11.52%	3.65%	15.17%		
46	11.80%	3.62%	15.42%		
47	12.11%	3.63%	15.74%		
48	12.46%	3.64%	16.10%		
49	12.87%	3.65%	16.52%		
50	13.22%	3.63%	16.85%		
51	13.19%	3.59%	16.78%		
52	12.96%	3.58%	16.54%		
53	12.72%	3.46%	16.18%		
54+	12.50%	3.32%	15.82%		



San Raf	ael Miscellan	eous Tier 2 (31676.16)
Entry			
Age	Basic	COL	Total
20	5.64%	1.25%	6.89%
21	5.68%	1.29%	6.97%
22	5.72%	1.33%	7.05%
23	5.77%	1.37%	7.14%
24	5.80%	1.41%	7.21%
25	5.81%	1.45%	7.26%
26	5.85%	1.48%	7.33%
27	5.86%	1.51%	7.37%
28	5.87%	1.54%	7.41%
29	5.88%	1.56%	7.44%
30	5.88%	1.59%	7.47%
31	6.00%	1.62%	7.62%
32	6.12%	1.66%	7.78%
33	6.23%	1.69%	7.92%
34	6.36%	1.72%	8.08%
35	6.49%	1.75%	8.24%
36	6.63%	1.78%	8.41%
37	6.75%	1.81%	8.56%
38	6.89%	1.84%	8.73%
39	7.02%	1.87%	8.89%
40	7.16%	1.90%	9.06%
41	7.30%	1.93%	9.23%
42	7.45%	1.96%	9.41%
43	7.60%	2.00%	9.60%
44	7.76%	2.03%	9.79%
45	7.91%	2.08%	9.99%
46	8.08%	2.08%	10.16%
47	8.26%	2.10%	10.36%
48	8.43%	2.12%	10.55%
49	8.62%	2.13%	10.75%
50	8.82%	2.13%	10.95%
51	9.04%	2.13%	11.17%
52	9.28%	2.13%	11.41%
53	9.52%	2.06%	11.58%
54	9.63%	1.99%	11.62%
55	9.60%	1.92%	11.52%
56	9.45%	1.86%	11.31%
57	9.29%	1.78%	11.07%
58	9.60%	1.71%	11.31%
59+	9.92%	1.65%	11.57%



San Ra	afael Safety	7 Tier 1 (3	31664.2)
Entry			
Age	Basic	COL	Total
20	8.29%	3.69%	11.98%
21	8.43%	3.78%	12.21%
22	8.56%	3.90%	12.46%
23	8.70%	4.01%	12.71%
24	8.83%	4.12%	12.95%
25	8.99%	4.20%	13.19%
26	9.13%	4.30%	13.43%
27	9.28%	4.39%	13.67%
28	9.42%	4.51%	13.93%
29	9.57%	4.61%	14.18%
30	9.72%	4.73%	14.45%
31	9.89%	4.85%	14.74%
32	10.04%	4.97%	15.01%
33	10.20%	5.09%	15.29%
34	10.36%	5.20%	15.56%
35	10.54%	5.27%	15.81%
36	10.70%	5.28%	15.98%
37	10.87%	5.31%	16.18%
38	11.05%	5.38%	16.43%
39	11.24%	5.44%	16.68%
40	11.43%	5.51%	16.94%
41	11.62%	5.59%	17.21%
42	11.83%	5.66%	17.49%
43	12.05%	5.78%	17.83%
44	12.30%	5.88%	18.18%
45	12.58%	5.98%	18.56%
46	12.82%	5.94%	18.76%
47	12.76%	6.01%	18.77%
48	12.71%	6.07%	18.78%
49+	12.66%	6.13%	18.79%



	afael Safety	7 Tier 2 (3	31664.2)
Entry Age	Basic	COL	Total
20	7.95%	2.39%	10.34%
20 21	8.08%	2.39% 2.46%	10.54%
21	8.20%	2.53%	10.73%
22	8.34%	2.61%	10.95%
24	8.48%	2.67%	11.15%
25	8.61%	2.74%	11.35%
26	8.75%	2.79%	11.54%
27	8.90%	2.86%	11.76%
28	9.04%	2.93%	11.97%
29	9.18%	3.01%	12.19%
30	9.33%	3.07%	12.40%
31	9.48%	3.15%	12.63%
32	9.63%	3.24%	12.87%
33	9.79%	3.31%	13.10%
34	9.94%	3.39%	13.33%
35	10.10%	3.43%	13.53%
36	10.26%	3.45%	13.71%
37	10.43%	3.47%	13.90%
38	10.61%	3.51%	14.12%
39	10.79%	3.55%	14.34%
40	10.96%	3.61%	14.57%
41	11.15%	3.65%	14.80%
42	11.35%	3.70%	15.05%
43	11.57%	3.77%	15.34%
44	11.78%	3.85%	15.63%
45	11.87%	3.92%	15.79%
46	11.87%	3.90%	15.77%
47	11.83%	3.94%	15.77%
48	12.24%	3.98%	16.22%
49+	12.67%	4.02%	16.69%



PEPRA Rates					
All Ages Basic COLA Total					
PEPRA Misc 2% COLA	7.53%	1.53%	9.06%	9.18%	
PEPRA Misc 4% COLA	7.57%	2.44%	10.01%	8.23%	
PEPRA Safety 2% COLA	10.50%	2.57%	13.07%	13.53%	
PEPRA Safety 3% COLA	12.35%	4.37%	16.72%	17.59%	
PEPRA Safety 4% COLA	10.79%	4.02%	14.81%	13.74%	





Classic Values, Innovative Advice