

San Diego City Employees' Retirement System

> Actuarial Valuation as of June 30, 2013 for the City of San Diego

Produced by Cheiron

December 2013



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LETTER OF TRANSMITTAL

December 27, 2013

Board of Administration San Diego City Employees' Retirement System 401 West A Street, Suite 400 San Diego, California 92101

Re: San Diego City Employees' Retirement System June 30, 2013 Actuarial Valuation

Dear Members of the Board:

At your request, we have performed the June 30, 2013 Actuarial Valuation of the San Diego City Employees' Retirement System (SDCERS). The valuation results with respect to the City of San Diego (City) are contained in this valuation report. The table below presents the key results of the valuation for the City.

Table I-1 SDCERS - City of San Diego												
Valuation as of:June 30, 2013June 30, 2012												
Unfunded Actuarial Liability (in millions)	\$	2,237.7	\$	2,279.3								
Funding Ratio		70.4%		68.6%								
City Contribution Rate		59.55%		59.48%								
	Fi	scal Year 2015		Fiscal Year 2014								
Actuarially Determined Contribution (in millions	5)											
-if paid at the beginning of the year	\$	263.6	\$	275.4								
-if paid throughout the year	\$	272.9	\$	285.5								

- Unfunded Actuarial Liability (UAL): The City's UAL has decreased by \$41.6 million. The primary causes of this decrease were an assumed freeze on across the board (inflationary) pay increases through FY 2018 based on negotiated labor agreements, a reduction in the long-term pay inflation assumption after 2018, and a return on assets greater than expected. The rate of return on the actuarial value of assets was 8.19%, or 0.69% above last year's assumed 7.50% return, leading to a \$25.0 million decrease in the UAL. Partially offsetting these factors were a reduction in the discount rate and a loss on the actuarial liabilities, both of which increased the UAL.
- *Funding Ratio:* The ratio of the System's actuarial value of assets to its actuarial liabilities increased by 1.8%, from 68.6% to 70.4%.

Board of Administration December 27, 2013 Page ii

• *Contributions (ADC):* The results of this valuation produced a decrease in the City's Actuarially Determined Contribution (ADC) of \$11.8 million. The two largest factors impacting the ADC were the assumed freeze on inflationary pay increases, which decreased the ADC by \$24.6 million, and the net changes in economic assumptions (discount rate less long-term pay inflation), which increased it by \$9.3 million. When measured as a percent of member payroll, the ADC rose by 0.07%. The contribution (ARC) in Governmental Accounting Standards Board (GASB) Statement Number 25. However, the revised standard GASB Statement Number 67, effective in FY 2014, does not define an ARC. In this report we use the term ADC instead, to refer to the contribution determined by the actuary in accordance with the SDCERS Board's adopted funding policy.

More details on plan experience for the past year can be found in the valuation report. Furthermore, this valuation was prepared using census data and financial information as of the valuation date, June 30, 2013. Changes in membership and investment experience following that date are not reflected in this report.

In preparing our report, we relied on information (some oral and some written) supplied by SDCERS' 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 Number 23.

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.

Finally, this report was prepared exclusively for the San Diego City Employees' Retirement System for the purpose described herein and for the use by the plan auditor in completing an audit related to the matters herein. This report is not intended to benefit any third party, and Cheiron assumes no duty or liability to any such party.

Sincerely, Cheiron

Gene Kalwarski, FSA, EA, MAAA Principal Consulting Actuary

David Holland, FSA, EA, MAAA Associate Actuary

cc: Alice Alsberghe

-CHEIRON

SECTION I BOARD SUMMARY

The primary purpose of the actuarial valuation is to report, as of the valuation date, on the following:

- The financial condition of the SDCERS-City of San Diego Defined Benefit Plan,
- Past and expected trends in the financial condition of SDCERS-City of San Diego,
- The City's contribution rates for Fiscal Year 2015, and
- Information required by the Governmental Accounting Standards Board (GASB).

In this Section, we present a summary of the principal valuation results. This summary includes the basis upon which the June 30, 2013 valuation was completed and an examination of the current financial condition of SDCERS-City of San Diego. In addition, we present a review of the key historical trends followed by the projected financial outlook for SDCERS-City of San Diego.

A. Valuation Basis

In FY 2014 GASB 25, which outlines standards for pension plan financial reporting, will be replaced by GASB 67. Similarly, in FY 2015 GASB 27 (standards for plan sponsor reporting) will be replaced by GASB 68. As described above, one purpose of the June 30, 2013 valuation is to develop contribution rates for FY 2015. However, neither GASB 67 nor GASB 68 retain the concept of an Annual Required Contribution (ARC), which had previously been used as the System's de-facto funding policy. In response, the SDCERS Board at its November 2013 meeting adopted to formalize the funding policy based on the existing practices used to develop the ARC. In this report we have replaced the term ARC with Actuarially Determined Contribution (ADC), to refer to the contribution determined by the actuary each year based on the adopted funding policy. GASB 67 and 68 also use this term to refer to a contribution determined by the actuary in accordance with Actuarial Standards of Practice, but do not define it further.

At the November 2013 meeting, the Board also adopted several assumption changes following our annual review of economic assumptions. Inflationary pay increases are assumed to be 0% through FY 2018 based on the negotiated labor agreements, and the long-term across the board pay inflation assumption (after FY 2018) was lowered from 3.75% to 3.3% per year. The assumed investment return was also lowered from 7.5% to 7.25% per year, net of all expenses. More details on the assumptions and methods can be found in Appendix B.

As a result of Proposition B, effective July 20, 2012 SDCERS was closed to new City employees, except for the Police Plan, which remains open. The non-Police portion of the UAL as of June 30, 2012 is being amortized in level dollar amounts over a closed 15-year period. Subsequent gains and losses will be amortized over new 15-year periods in accordance with the System's funding policy, also in level dollar amounts. The portion of the UAL associated with the open Police Plan will continue to be amortized in layers as a level percentage of pay.



SECTION I BOARD SUMMARY

Throughout this report there will be references to "Old Plan," "2009 Plan," "2011 Plan", "2012 Plan" and "2012 No COL Plan," which distinguish each membership category's various benefit tiers according to their effective dates. In the 2013 valuation, two additional tiers have been added, a Fire-2012 Plan and a Police-2012 No COL Plan. There will also be a new tier under Proposition B for Police Members hired on or after July 1, 2013. Membership data for this tier will be disclosed in next year's valuation. More details on the plan provisions for all tiers can be found in Appendix C.



SECTION I BOARD SUMMARY

B. Current Financial Condition of SDCERS-City of San Diego

The following discussion summarizes the key results of the June 30, 2013 valuation and how they compare to the results from the June 30, 2012 valuation.

1. City Membership

Table I-2 shows that total membership in SDCERS-City of San Diego increased by 0.9% from 2012 to 2013. The increase was attributable to the growth in inactive membership (terminated vested, disabled, retirees, and beneficiaries), as the active membership count actually declined by 2.0%. Total active member payroll decreased by 2.3%, and the average pay per active member decreased by 0.2%. Since the Plan is closed to non-Police new hires, continued decreases in active member counts and total payroll are to be expected.

Table I-2 SDCERS - City of San Diego - Membership Total												
Valuation as of:June 30, 2013June 30, 2012% Change												
Active Counts		7,566		7,724	-2.0%							
Terminated Vested		2,971		2,892	2.7%							
Disabled		1,212		1,221	-0.7%							
Retirees		6,042		5,796	4.2%							
Beneficiaries		1,200		1,188	<u>1.0%</u>							
Total City Members		18,991		18,821	0.9%							
Active Member Payroll	\$	499,463,072	\$	511,090,601	-2.3%							
Average Pay per Active Member	\$	66,014	\$	66,169	-0.2%							
Benefits in Pay Status	\$	371,628,344	\$	350,163,967	6.1%							
Average Benefit	\$	43,959	\$	42,677	3.0%							



SECTION I BOARD SUMMARY

2. City Assets and Liabilities

Table I-3 presents a comparison between the June 30, 2013 and June 30, 2012 SDCERS-City of San Diego assets, liabilities, unfunded actuarial liability, and funding ratios.

The key results shown in Table I-3 indicate that due to the total actuarial liability increase of 4.0% and the actuarial value of assets increase of 6.7%, the funding ratio increased from 68.6% as of June 30, 2012 to 70.4% as of June 30, 2013. SDCERS employs a commonly used actuarial smoothing method on the market value that dampens market volatility, so the actuarial value of assets increased less than the market value (12.4%). Had the funding ratio been measured on a market value of assets basis, the ratio would be 71.4% as of June 30, 2013.

Section II-C provides additional information explaining the development of the actuarial value of assets.

Table I-3 SDCERS - City of San Diego - Assets & Liabilities										
Entry Age Normal (EAN) Liabilities	June 30, 2012	% Change								
Actives	\$	2,275,193,142	\$	2,352,526,805	-3.3%					
Terminated Vested		304,783,508		284,094,147	7.3%					
Disabled		459,745,043		445,229,719	3.3%					
Retirees		4,327,095,904		4,003,952,290	8.1%					
Beneficiaries		188,709,141		175,927,694	<u>7.3%</u>					
Total Actuarial (EAN) Liability	\$	7,555,526,738	\$	7,261,730,655	4.0%					
Market Value Assets	\$	5,395,158,000	\$	4,799,827,000	12.4%					
Actuarial Value Assets	\$	5,317,778,092	\$	4,982,441,649	6.7%					
Unfunded Actuarial Liability	\$	2,237,748,646	\$	2,279,289,006	-1.8%					
Funding Ratio-Actuarial Value		70.4%		68.6%	1.8%					



SECTION I BOARD SUMMARY

3. Components of UAL Change between June 30, 2012 and June 30, 2013

The unfunded actuarial liability (UAL) for SDCERS-City of San Diego decreased by \$41.6 million, from \$2,279.3 million to \$2,237.7 million. Table I-4 below presents the specific components of the change in the UAL.

The two largest components of the change in UAL were the assumed freeze on inflationary pay increases, which decreased the UAL by \$194.9 million, and the net impact of the reduction in the discount rate and long-term pay inflation assumption, which increased the UAL by \$146.9 million.

For a description of the method changes on line 7 below, see the end of Appendices A and B.

Table I-4										
	SDCERS - City of San Diego-Change in UAL									
	(In Millions)									
1.	UAL at June 30, 2012	\$	2,279.3							
2.	Expected change in UAL*		29.7							
3.	Investment experience gain									
	a. Anticipated loss/(gain)		49.1							
	b. Actual loss/(gain)		(25.0)							
	c. Difference (b - a)		(74.1)							
4.	Liability experience loss		40.6							
5.	Reduction in discount rate and long-term pay inflation assumption		146.9							
6.	Additional 4-year freeze on pay inflation		(194.9)							
7.	Method changes		8.2							
8.	Employee contributions paid less than expected		1.0							
9.	Other misc (includes purchased service)		1.1							
10.	Total change in UAL: sum of 2 through 9		(41.6)							
11.	UAL at June 30, 2013: 1 + 10	\$	2,237.7							

*Includes projected phase-in of asset gains or losses



SECTION I BOARD SUMMARY

4. City Contributions (ADC)

The City's actuarially determined contribution (ADC) for FY 2015 measured as a percent of membership payroll increased from 59.48% to 59.55%. In dollars, the beginning of year ADC decreased by \$11.8 million, from \$275.4 million to \$263.6 million. The ADC was expected to increase by \$5.9 million to \$281.3 million, assuming continued phase-in of investment experience from prior years, so the ADC of \$263.6 million is \$17.7 million less than expected.

The two largest factors impacting the ADC were the assumed freeze on inflationary pay increases, which decreased the ADC by \$24.6 million, and the net changes in economic assumptions (discount rate and long-term pay inflation), which increased it by \$9.3 million.

Table I-5 below presents the specific components of the change in the ADC. In Section IV we provide more detail on the development of this contribution. For a description of the method changes on line 7 below, see the end of Appendices A and B.

Table I-5										
	SDCERS - City of San Diego-Change in ADC									
	(In Millions)									
1.	ADC at June 30, 2012	\$	275.4							
2.	Expected change in ADC*		5.9							
3.	Investment experience gain									
	a. Anticipated increase/(decrease)		4.6							
	b. Actual increase/(decrease)		(2.4)							
	c. Difference (b - a)		(7.0)							
4.	Liability experience loss		4.0							
5.	Reduction in discount rate and long-term pay inflation assumption		9.3							
6.	Additional 4-year freeze on pay inflation		(24.6)							
7.	Method changes		0.4							
8.	Employee contributions paid less than expected		0.1							
9.	Other misc (includes purchased service)		0.0							
10.	Total change in ADC: sum of 2 through 9		(11.8)							
11.	ADC at June 30, 2013: 1 + 10	\$	263.6							

*Includes projected phase-in of asset gains or losses

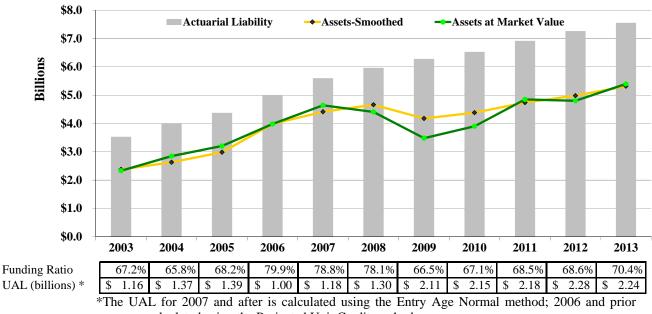


SECTION I BOARD SUMMARY

C. Historical Trends for SDCERS-City of San Diego

Despite the primary focus given each year on the most recently computed unfunded actuarial liability (UAL), funding ratio, and City contribution (ADC), it is important to remember that each valuation is merely a snapshot of the long-term progress of a pension plan. It is more important to judge a current year's valuation results relative to historical trends, and trends expected into the future.

In the chart below, we present the historical trends of the market value and smoothed assets compared to actuarial liabilities and SDCERS-City of San Diego funding ratios since 2003.



SDCERS-City of San Diego Assets and Liabilities 2003-2013

*The UAL for 2007 and after is calculated using the Entry Age Normal method; 2006 and prior years are calculated using the Projected Unit Credit method.

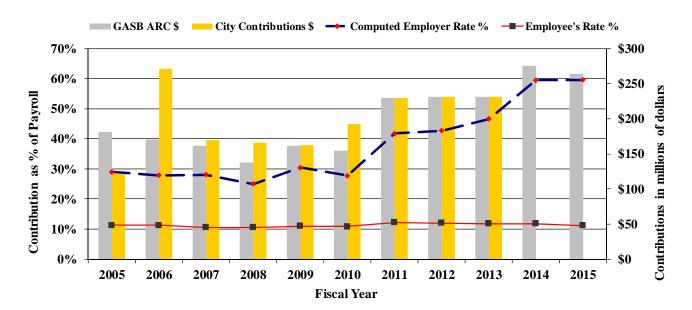
From a low of 65.8% in 2004, the funding ratio improved significantly over the next few years, primarily due to strong investment performance. In 2009, the funding ratio declined significantly due to investment losses but has since been increasing slightly each year.



SECTION I BOARD SUMMARY

In the chart below, we present the historical trends for the SDCERS-City of San Diego contribution rates, actual contributions made by the City and the actuarially computed contributions (previously the GASB ARC, but in the future will be referred to as the ADC).





The computed employer contribution rate was in the range of 30% for the first six fiscal years shown, but increased to over 40% of payroll in FY 2011 due to the significant asset loss resulting from the market decline of 2008/2009. In FY 2014 the employer rate increased significantly again due to the change from a level percent of pay to a level dollar amortization of the non-Police portion of the UAL. In the future the employer rate will continue to increase as the payroll gradually shrinks due to the partial closure of the Plan to new hires. The chart indicates that the Members' contribution rate has remained relatively stable throughout the fiscal years shown in contrast to the volatility in the employer rates.

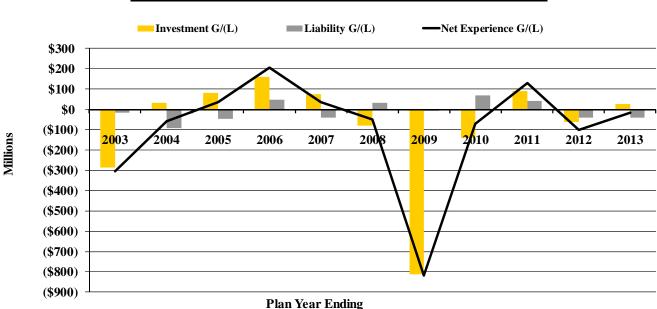
This chart also compares the actual contributions made by the City to the annual required contribution (ARC) based on the Board's adopted funding practice of Normal Cost plus amortization of the various UAL components, including the requirement beginning in fiscal year 2009 that there be no negative amortization. The chart indicates that the City has been consistently paying at or above the ARC since FY 2006.

Since the ARC is not defined in the new standards for public pension plan reporting, GASB 67 and 68, the term ADC will be used in future years to refer to the annual actuarially determined contribution and will be the basis for comparison to actual City contributions.



SECTION I BOARD SUMMARY

The chart below for SDCERS-City of San Diego presents the pattern of annual gains and losses, broken into the investment and liability components. The chart does not include any changes in SDCERS' assets and liabilities attributable to changes to actuarial methods, procedures or assumptions or plan benefit changes.



SDCERS-City of San Diego Historical Gain/(Loss) 2003-2013

The key insights from this chart are:

- The System experienced a significant investment loss (gold bars) in 2003, which was offset by investment gains from 2004 to 2007. However, the investment losses from 2008 through 2010 more than offset those gains.
- The investment loss in 2009 was by far the most significant gain or loss during the last ten years.
- From 2003 to 2007 (except for 2006), there was a pattern of liability losses. The liability experience has been more varied (small gains and small losses) since 2007.

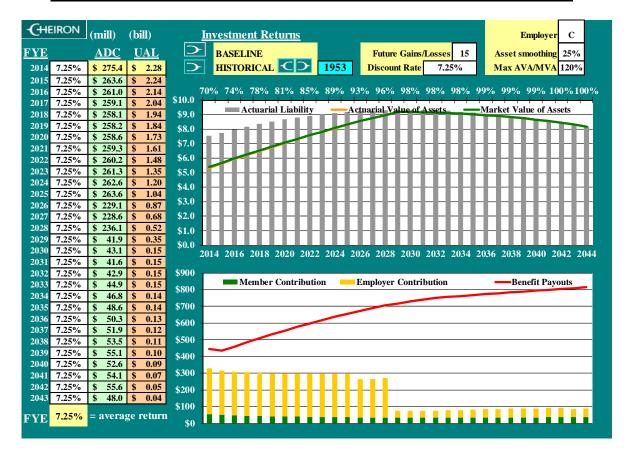


SECTION I BOARD SUMMARY

D. Projected Financial Trends

Our analysis of SDCERS-City of San Diego projected financial trends is a very important part of this valuation. Our assessment of the implications of the June 30, 2013 valuation results on the future outlook of SDCERS-City of San Diego in terms of benefit security (assets over liabilities) and the City's expected cost progression is set forth below.

In the chart that follows, we project the SDCERS-City of San Diego assets and liabilities and the City's contributions assuming 7.25% returns each and every year and liability growth exactly as anticipated by the Plan assumptions. The upper chart compares the assets (green and yellow lines) and liabilities (gray bars) and the lower chart shows contributions in dollars (employer contributions in yellow bars and member contributions in green bars). The left side of the exhibit shows the returns assumed each year followed by the annual ADC and UAL in dollar amounts.



SDCERS-City of San Diego Projections FY 2014-2043 (earnings as assumed)

Based on assuming 7.25% earnings each and every year, the City's funded status (percentages at the top of the upper graph) is ultimately projected to reach 100%. The plan's

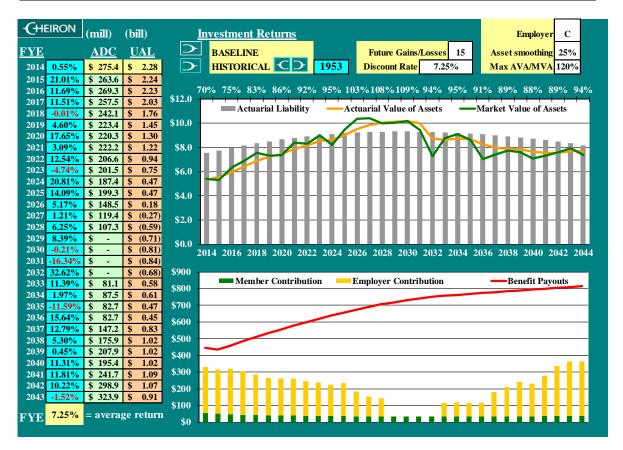
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SECTION I BOARD SUMMARY

assets and liabilities peak around the middle of the projection period, after which they begin to decline due to the closure of the non-Police portion of the plan to new hires. The City's ADC (formerly the ARC) is projected to remain in the range of approximately \$230-260 million until 2029, when it drops sharply to \$41.9 million as the Plan approaches full funding.

However, it is critical to note that these projections, while valid as baseline projections, **are not likely to occur** as experience never conforms exactly to assumptions from year to year. As a result, we present the following additional stress testing projection, based on assuming varying returns in the future which on average equal the assumed 7.25% earnings rate. The returns selected generally represent the returns that would have resulted from a passive 60%/40% equity/fixed income portfolio during the period of 1953 to 1983. This period was selected because it happened to mirror the assumed 7.25% investment assumption of SDCERS.

SDCERS-City of San Diego Projections FY 2014-2043 (earnings which vary by year)



With varying annual earnings that average over the period to 7.25%, one can see the volatility in the funding ratios in the top chart, and the fact that the ADC declines



SECTION I BOARD SUMMARY

significantly and then increases at the end of the projection period. Note that this chart is based on a particular historical period and is not intended to reflect future expectations.

This last chart demonstrates the risks faced by SDCERS measured in terms of funding ratios and contributions. Whether the System is fully funded or poorly funded, subsequent returns can quickly alter the financial position of the plan dramatically. The point being, it is impossible to judge the financial soundness of a system with a single year point measurement. What is more important to consider is the systems' level of conservatism in funding the plan, and the discipline and ability of the plan sponsor to consistently contribute the ADC as determined by the plan actuary.



SECTION II ASSETS

Like other public pension plans, SDCERS uses two different asset measurements that are presented in this section: the market value and the actuarial value of assets. The market value represents, as of the valuation date, the value of the assets if they were liquidated on that date. The actuarial value of assets is a value that smooths annual investment performance over multiple years to reduce the impact of annual investment volatility on employer contribution rates. The actuarial value of assets is used in determining SDCERS' contribution rates for the three participating employer plans.

Each employer receives a separate actuarial valuation report and cost determination. However, the assets of all employer plans are pooled for investment purposes. The apportionment of the assets among the employer plans directly impacts each employer's costs. Therefore, in the interest of ensuring transparency, this section discloses information on the total assets of SDCERS-All Employers. In addition, a brief explanation of how those assets are apportioned to the City of San Diego, the San Diego Unified Port District (Port), and the San Diego County Regional Airport Authority (Airport) is included.

On the following pages, detailed information is presented on SDCERS-All Employers assets, including:

- A. Disclosure of the June 30, 2013 total SDCERS market value of assets, by asset class;
- B. Market value of assets by Plan Sponsor;
- C. Development of the actuarial value of assets; and
- D. Disclosure of the investment performance for the year.



SECTION II ASSETS

A. Disclosure of Market Value of Assets

The market value of assets represents a "snap-shot" value as of June 30, 2013, the last day of the fiscal year, which provides the principal basis for measuring financial performance from one year to the next. Market values, however, can fluctuate widely with swings in the investment markets. Because these fluctuations would cause volatility in employer contributions, an actuarial value of assets is developed. Table II-1 below discloses the market value by asset class of SDCERS – All Employers' gross assets on June 30, 2013.

Table II-1 SDCERS – All Employers Summary of Reported Market Value of Total Defined Benefit Plan Assets									
Cash US Stocks International Stocks Private Equity Bonds Real Estate Receivables Miscellaneous Accounts Payable	\$	$\begin{array}{c} 237,090,000\\ 1,839,561,000\\ 1,353,839,000\\ 258,176,000\\ 1,718,919,000\\ 609,782,000\\ 214,194,000\\ 5,030,000\\ (423,278,000)\end{array}$							
Market Value of Assets – June 30, 2013	\$	5,813,313,000							



SECTION II ASSETS

B. Market Value of Assets by Plan Sponsor

As of July 1, 2007, the City, Unified Port District, and Airport Authority Plans were separated into independent, qualified, single employer governmental defined benefit plans and trusts. The assets of the three separate plans and trusts are pooled in the SDCERS Group Trust, which was established as of July 1, 2007. SDCERS invests and administers the Group Trust as a common investment fund and accounts separately for the proportional interest of each Plan and trust that participates in the Group Trust. Cash flow activity for each Plan is recorded directly to that Plan, with investment activity and other cash flow activity not specific to any one Plan being allocated based upon each plan's respective share of the Group Trust's total assets, with time-weighted adjustments for the plan-specific cash flows. Administrative expenses are allocated based on the proportion of participants of a participating trust to the number of total participants of all participating trusts on the first day of the plan year. Table II-2 below discloses the market value and actuarial value of assets by Plan.

Table II-2 Summary of Market and Actuarial Assets for Each Employer Group as of June 30, 2013											
	To	<u>Iarket Value</u> tal Net Assets une 30, 2012	T	<u>Market Value</u> otal Net Assets June 30, 2013	,	<u>ctuarial Value</u> Total Assets June 30, 2013					
City of San Diego	\$	4,799,827,000	\$	5,395,158,000	\$	5,317,778,092					
Unified Port District		271,703,000		309,699,000		302,321,696					
Airport Authority		<u>91,997,000</u>		<u>108,456,000</u>		<u>107,616,363</u>					
Total-SDCERS	\$	5,163,527,000	\$	5,813,313,000	\$	5,727,716,151					



SECTION II ASSETS

C. Actuarial Value of Assets

To determine on-going funding requirements, most pension funds utilize an actuarial value of assets. Unlike the market value of assets, the actuarial value of assets represents an asset value based on averaging or smoothing year-to-year market value returns for purposes of reducing the resulting volatility on contributions.

The actuarial value of assets is equal to 100% of the expected actuarial value of assets as of June 30, 2013 (based on the prior year assumption of 7.50% earnings for the year) plus 25% of the difference between the current actual market value of assets and the expected actuarial value of assets. (See Appendix B, Section B-2 for further explanation of the asset valuation method). In no event will the actuarial value of assets ever be less than 80% of the market value of assets nor greater than 120% of the market value of assets.

Table II-3										
SDCERS - City of San Diego										
Development of Actuarial Value of Assets at June 30, 2013										
Expected Value of Assets Method										
1. Actuarial Value of Assets at June 30, 2012	\$	4,982,441,649								
2. Amount in (1) with interest at 7.5% to June 30, 2013		5,356,124,773								
3. Employer and Member contributions for the Plan Year ended June 30, 2013		296,635,000								
 Disbursements from Trust excluding investment and admin expenses, June 30, 2012 through June 30, 2013 		366,036,000								
5. Interest on cash flows to June 30, 2013 at 7.5% per year		5,261,017								
6. Expected Actuarial Value of Assets at June 30, 2013 = (2) + (3) - (4) + (5)		5,291,984,790								
7. Actual Market Value of Assets at June 30, 2013		5,395,158,000								
8. Excess of (7) over (6)		103,173,210								
 9. Preliminary Actuarial Value of Assets at June 30, 2013 = (6) + 25% of (8) 	\$	5,317,778,092								
10. 80% Minimum Corridor on the Actuarial Value of Assets = 80% of (7)		4,316,126,400								
11. 120% Maximum Corridor on the Actuarial Value of Assets = 120% of (7)		6,474,189,600								
12. Final Actuarial Value of Assets at June 30, 2013 = (9), but no less than (10) and no more than (11)	\$	5,317,778,092								



SECTION II ASSETS

D. Investment Performance

The return on the market value of assets, as reported by SDCERS' investment consultant Hewitt Ennis Knupp, was 13.6%. The return in FY 2012 was 0.9%.

On an actuarial (smoothed) value of assets basis, the return for FY 2013 was 8.19%. This return produced for SDCERS-All Employers an overall investment gain of \$27.8 million for the year ending June 30, 2013. (Note: this reported gain is different than the investment gain of \$25.0 million reported on page 5 in this report. \$25.0 million is the gain only for SDCERS-City).



SECTION III LIABILITIES

In this section, we present detailed information on liabilities for SDCERS-City of San Diego, including:

- Disclosure of liabilities at June 30, 2012 and June 30, 2013, and
- Statement of changes in the unfunded actuarial liabilities during the year.

A. Disclosure

Several types of liabilities are calculated and presented in this report. Each type is distinguished by the purpose for which the figures are ultimately used.

- **Present Value of Future Benefits:** Used for measuring all future SDCERS obligations, represents the amount of money needed today to fully pay off all benefits of SDCERS both earned as of the valuation date and those to be earned in the future by current plan participants, under the current Plan provisions.
- Actuarial Liability-Entry Age Normal (EAN): Used for determining employer contributions and GASB accounting disclosures. This liability is calculated taking the present value of all future benefits and subtracting the present value of future Member contributions and future employer normal costs as determined under the EAN actuarial funding method. It represents the portion of the present value of future benefits attributed to service prior to the valuation date by the Entry Age Normal method.
- **Present Value of Accrued Benefits:** Disclosed in Section V of this report for accounting statement purposes (ASC Topic 960). This liability represents the present value of future benefits payable to all plan participants if the plan were terminated as of the valuation date, and future accruals and contributions stopped.

Table III-1, on the following page, discloses the first two of these liabilities for the current and prior year valuations. Subtracting the actuarial value of assets from the actuarial liability results in a net surplus or an unfunded actuarial liability (UAL).



SECTION III LIABILITIES

Table III-1											
SDCERS - City of San Diego - Total											
Valuation as of:		June 30, 2013		June 30, 2012							
Present Value of Future Benefits											
Actives	\$	2,949,691,756	\$	3,157,311,041							
Terminated Vested		304,783,508		284,094,147							
Disabled		459,745,043		445,229,719							
Retirees		4,327,095,904		4,003,952,290							
Beneficiaries		188,709,141		175,927,694							
Total City	\$	8,230,025,352	\$	8,066,514,890							
Actuarial Liability - EAN											
Total Present Value of Future Benefits	\$	8,230,025,352	\$	8,066,514,890							
Present Value of Future Normal Costs											
Employer Portion		324,133,102		388,843,184							
Employee Portion		350,365,512		415,941,051							
Actuarial Liability - EAN	\$	7,555,526,738	\$	7,261,730,655							
Actuarial Value of Assets	\$	5,317,778,092	\$	4,982,441,649							
Unfunded EAN Actuarial Liability	\$	2,237,748,646	\$	2,279,289,006							

Table III-2 shows the actuarial liability as of June 30, 2013 for General and Elected Members of SDCERS-City of San Diego.

Table III-2												
SDCERS - City of San Diego - General & Elected as of June 30, 2013												
		Total		General-Old		General-2009		Elected				
Present Value of Future Benefits												
Actives	\$	1,640,648,908	\$	1,591,397,427	\$	47,638,131	\$	1,613,350				
Terminated Vested		229,247,098		227,829,851		813,249		603,998				
Disabled		90,060,001		90,060,001		-		-				
Retirees		2,159,479,398		2,151,381,556		-		8,097,842				
Beneficiaries		81,282,225		80,675,644		-		606,581				
Total City General & Elected	\$	4,200,717,630	\$	4,141,344,479	\$	48,451,380	\$	10,921,771				
Actuarial Liability - EAN												
Actives	\$	1,314,261,243	\$	1,305,463,335	\$	7,934,130	\$	863,778				
Terminated Vested		229,247,098		227,829,851		813,249		603,998				
Disabled		90,060,001		90,060,001		-		-				
Retirees		2,159,479,398		2,151,381,556		-		8,097,842				
Beneficiaries		81,282,225		80,675,644	_	-		606,581				
Total City General & Elected	\$	3,874,329,966	\$	3,855,410,387	\$	8,747,379	\$	10,172,200				



SECTION III LIABILITIES

Table III-3 shows the actuarial liability as of June 30, 2013 for Police Members of SDCERS-City of San Diego.

				Table III-3	3								
SDCERS - City of San Diego - Police as of June 30, 2013													
		Total	Police-Old		Police-2009		P	olice-2012	Police-2012 No CO				
Present Value of Future Benefits													
Actives	\$	895,607,171	\$	843,786,003	\$	27,935,689	\$	7,050,508	\$	16,834,971			
Terminated Vested		64,202,471		63,938,694		250,054		4,527		9,196			
Disabled		250,593,369		250,593,369		-		-		-			
Retirees		1,348,411,645		1,348,411,645		-		-		-			
Beneficiaries		70,486,944		70,486,944		-				-			
Total City Safety	\$	2,629,301,600	\$	2,577,216,655	\$	28,185,743	\$	7,055,035	\$	16,844,167			
Actuarial Liability - EAN	[
Actives	\$	649,841,568	\$	643,768,552	\$	5,500,108	\$	518,626	\$	54,282			
Terminated Vested		64,202,470		63,938,694		250,054		4,527		9,196			
Disabled		250,593,369		250,593,369		-		-		-			
Retirees		1,348,411,645		1,348,411,645		-		-		-			
Beneficiaries		70,486,944		70,486,944				-		-			
Total City Safety	\$	2,383,535,995	\$	2,377,199,203	\$	5,750,162	\$	523,153	\$	63,478			



SECTION III LIABILITIES

Table III-4 shows the actuarial liability as of June 30, 2013 for Fire and Lifeguard Members of SDCERS-City of San Diego.

		Tab	le I	II-4								
SDCERS - City o	SDCERS - City of San Diego - Fire and Lifeguard as of June 30, 2013											
		Total Fire-Old				Fire-2012		Lifeguard				
Present Value of Future Benefits												
Actives	\$	413,435,678	\$	373,908,662	\$	422,938	\$	39,104,079				
Terminated Vested		11,333,941		9,837,992		906		1,495,043				
Disabled		119,091,673		107,574,909		-		11,516,764				
Retirees		819,204,860		773,222,271		-		45,982,589				
Beneficiaries		36,939,972		36,170,510		-		769,462				
Total City Safety	\$	1,400,006,124	\$	1,300,714,344	\$	423,843	\$	98,867,937				
Actuarial Liability - EAN												
Actives	\$	311,090,333	\$	281,049,472	\$	64,604	\$	29,976,257				
Terminated Vested		11,333,941		9,837,992		906		1,495,043				
Disabled		119,091,673		107,574,909		-		11,516,764				
Retirees		819,204,860		773,222,271		-		45,982,589				
Beneficiaries		36,939,972		36,170,510		-		769,462				
Total City Safety	\$	1,297,660,778	\$	1,207,855,153	\$	65,509	\$	89,740,115				



SECTION III LIABILITIES

B. Changes in Unfunded Actuarial Liabilities

The UAL of any retirement plan is expected to change at each subsequent valuation for a variety of reasons. In each valuation, we report on those elements of change in the UAL that have particular significance or could potentially affect the long-term financial outlook of a retirement plan. Below we present key changes in liabilities since the last valuation.

Table III-5										
Development of 2013 Experience Gain/(Loss) SDCERS - City of San Diego										
(In Millions)										
1. Unfunded Actuarial Liability at June 30, 2012		\$	2,279.3							
2. Beginning of year unfunded actuarial liability payment			(177.0)							
3. Interest accrued ((1+2) x 7.5%)	_		157.7							
4. Expected Unfunded Actuarial Liability at June 30, 2013 (1+2+3)			2,259.9							
5. Actual Unfunded Liability at June 30, 2013			2,237.7							
6. Difference: (4 - 5)			22.2							
7. Portion of difference (6) due to actuarial assumption or method changes			39.9							
8. Portion of difference (6) due to plan changes			-							
9. Portion of difference (6) due to employee contributions less than expected	ed		(1.0)							
10. Portion of difference (6) due to net experience Gain/(Loss)			(16.8)							
a) portion of (10) due to investment experience \$	25.0									
b) portion of (10) due to liability experience \$	(40.6)									
c) portion of (10) due to service purchases \$	(1.1)									
Elements of Liability Gain/(Loss)										
1. $G/(L)$ due to demographic and payroll experience			(40.6)							
2. Other Gain/(Loss)			-							
3. Total Estimated Liability Gain/(Loss): sum 1 and 2		\$	(40.6)							



SECTION III LIABILITIES

Exposiones	Table III-6 Experience Gain/(Loss) - Historical SDCERS - City of San Diego *										
Valuation	Gaili/(Loss) - Histor	Beginning-of-Year	Gain/(Loss)								
Date	Gain/(Loss)	Actuarial Liabilities	% of Liability								
6/30/1992	\$ 57,952,320	\$ 1,006,299,729	5.8%								
6/30/1993	(42,605,778)	1,057,238,917	(4.0								
6/30/1994	(6,744,850)	1,220,830,059	(0.6								
6/30/1995	(11,370,990)	1,338,279,541	(0.8								
6/30/1996	59,592,960	1,476,710,662	4.0								
6/30/1997	38,473,993	1,682,604,532	2.3								
6/30/1998	31,086,010	1,822,432,018	1.7								
6/30/1999	* 29,750,299	1,979,668,038	1.5								
6/30/2000	286,639,160	2,181,547,453	13.1								
6/30/2001	(193,168,984)	2,528,773,900	(7.6								
6/30/2002	(364,815,155)	2,809,537,745	(13.0								
6/30/2003	(303,699,305)	3,168,921,175	(9.6								
6/30/2004	(58,123,874)	3,532,625,521	(1.6								
6/30/2005	36,775,882	3,997,328,084	0.9								
6/30/2006	205,249,486	4,377,092,948	4.7								
6/30/2007	35,189,811	4,982,699,455	0.7								
6/30/2008	(49,930,537)	5,597,652,861	(0.9								
6/30/2009	(818,906,079)	5,963,549,545	(13.7								
6/30/2010	(71,030,037)	6,281,636,108	(1.1								
6/30/2011	130,020,025	6,527,223,751	2.0								
6/30/2012	(102,581,872)	6,917,175,002	(1.5								
6/30/2013	(16,759,103)	7,261,730,655	(0.2								

Table III-6 shows the history of past experience gains and losses.

* Beginning with the June 30, 1999 valuation, experience is City only. The prior years include all employers.

SECTION IV CONTRIBUTIONS

In the process of evaluating the financial condition of any pension plan, the actuary analyzes the assets and liabilities to determine what level (if any) of contributions is needed to achieve and maintain an appropriate funded status of a plan. Typically, the actuarial process will use an actuarial funding method that attempts to create a pattern of contributions that is both stable and predictable.

The actuarial funding methodology employed is the Entry Age Normal (EAN) actuarial funding method. Under EAN, there are two components to the total contribution: the normal cost and an amortization payment on the unfunded actuarial liability. The normal cost for an individual employee is the ratio of their present value of future benefits to present value of future salaries at entry age, multiplied by their valuation salary. The gross normal cost rate for each sub-group is determined by dividing the sum of the individual normal costs by the total valuation salary for that sub-group. The gross normal cost rate is then reduced by the average employee contribution rate to determine the employer normal cost rate. Finally, the employer normal cost rate for each sub-group is multiplied by that group's projected FY 2015 payroll to determine the normal cost component of the FY 2015 ADC.

The EAN actuarial liability is the Plan's total present value of future benefits minus the total present value of future normal costs. The difference between the EAN actuarial liability and the actuarial value of assets is the unfunded actuarial liability. The UAL for FY 2015 is to be amortized over several different periods. Table IV-2 shows the outstanding balance, the FY 2015 payment and the remaining amortization period for each of these components. If necessary, there is an additional UAL cost component to ensure that there is no negative amortization in any year.

Beginning with the June 30, 2012 valuation, the non-Police portion of the UAL has been amortized in level dollar amounts, due to the closure of that portion of the plan to new hires. The portion of the UAL associated with the open Police Plan continues to be amortized as a level percentage of pay.

Table IV-1 on the following page shows how the City's contribution rate for SDCERS for FY 2015 is developed. The methodology and assumptions used are in full compliance with the parameters set in GASB Statement Number 25 for purposes of determining the annual required contribution (ARC). However, starting in FY 2014 (SDCERS) and FY 2015 (City), the new GASB Statements Numbers 67 and 68 apply, neither of which contain the concept of an ARC nor provide guidance for plan funding. In response, the SDCERS Board adopted a formal funding policy based on the existing practices used to develop the ARC. In the future, the contribution based on this policy will be referred to as the Actuarially Determined Contribution (ADC).



SECTION IV CONTRIBUTIONS

Γ	Table IV-1 SDCERS - City of San Diego Development of the City's Contribution as of June 30, 2013, For (FY 2015)																										
	(dollars in millions)																										
		WE	GHTED			1	Non-S	afet	ty							1			Safe								
		т	OTAL	***	eighted		General		Jeneral			w	eighted	т	Police	р	olice	Do	lice		olice 012		Fire	Fire			
					Total		Jd Plan		009 Plan	I	Elected		Fotal		Old		2009)12		COL		Old	2012		Life	guard
1.	Total Normal Cost Rate as of June 30, 2013	2	1.42%	_	7.63%	-	17.84%		15.54%	_	35.76%		7.62%		7.73%	26	.86%		77%		.67%	2	7.82%	30.60	%		.71%
2.	Member Contribution Rate as of June 30, 2013	_	l.15%		9.1 <u>9%</u>		<u>9.39%</u>		7.46%		<u>9.07%</u>		4.37%		4.46 <u>%</u>		.46%		44%		.20%	_	4.74 <u>%</u>	<u>15.14</u>	_		.47%
3.	Employer Normal Cost Rate as of June 30, 2013 (1-2)	1).27%	8	8.44%		8.45%		8.08%	2	26.69%	13	3.25%	1	3.27%	13	.40%	12.	33%	14	.47%	1	3.08%	15.46	%	13	.24%
4.	Actuarial Liability	\$	7,555.5		3,874.3	\$	3,855.4		8.7	\$	10.2		3,681.2		2,377.2	\$	5.8	\$	0.5	\$	0.1	\$	1,207.9		0.1	\$	89.7
5.	Actuarial Assets	\$	5,317.8		2,740.0	\$	2,726.7	\$	6.4	\$			2,577.8		1,664.8	\$	4.2	\$	0.4	\$	0.0	\$	845.1		0.0	\$	63.2
6.	Total Unfunded Actuarial Liability (UAL) (4-5)*	\$	2,237.7	\$	1,134.3	\$	1,128.7	\$	2.4	\$	3.2	\$	1,103.4	\$	712.4	\$	1.6	\$	0.1	\$	0.0	\$	362.7	\$	0.0	\$	26.6
7.	Preliminary FY15 UAL amortization*	\$	217.8	\$	115.5	\$	115.0	\$	0.2	\$	0.3	\$	102.3	\$	62.5	\$	0.1	\$	0.0	\$	0.0	\$	36.9	\$	0.0	\$	2.7
8.	<u>Negative Amortization Test for FY15</u> a. Total UAL on 6/30/13 less FY14 UAL payment b. interest on 8a. To 6/30/14 c. preliminary FY15 UAL amortization (line 7) d. Negative interest (8b - 8c, not less than zero)	\$ \$ \$	2,013.4 146.0 217.8	\$ \$ \$	1,020.6 74.0 <u>115.5</u>	\$ \$ \$	1,015.6 73.6 115.0	\$ \$ \$	2.1 0.2 0.2	\$ \$ <u>\$</u>	2.9 0.2 0.3	\$ \$ \$	992.8 72.0 102.3	\$ \$ \$	641.0 46.5 62.5	\$ \$ \$	1.4 0.1 0.1 -	\$ \$ \$	0.1 0.0 0.0	\$ \$ \$	0.0 0.0 0.0	\$ \$ \$		\$	0.0 0.0 <u>0.0</u> -	\$ \$ \$	23.9 1.7 2.7 -
9.	Total FY15 UAL payment on 7/01/14 (8c + 8d)	\$	217.8	\$	115.5	\$	115.0	\$	0.2	\$	0.3	\$	102.3	\$	62.5	\$	0.1	\$	0.0	\$	0.0	\$	36.9	\$	0.0	\$	2.7
10.	Total FY15 UAL payment throughout year	\$	225.6	\$	119.6	\$	119.1	\$	0.3	\$	0.3	\$	105.9	\$	64.7	\$	0.1	\$	0.0	\$	0.0	\$	38.3	\$	0.0	\$	2.8
	Total Expected Payroll for FY15** FY15 Normal Cost paid throughout the year	\$ \$	458.3 47.4	\$ \$	275.4 23.2	\$ \$	246.3 20.8	\$ \$	28.7 2.3	\$ \$	0.4 0.1	\$ \$	183.0 24.1	\$ \$	102.8 13.6	\$ \$	7.9 1.1	\$ \$	2.3 0.3	\$ \$	18.5 2.4	\$ \$	46.5 6.1		0.1 0.0	\$ \$	4.9 0.6
	FY15 Normal Cost paid at start of year	\$	45.7	\$	22.4	\$	20.0	\$	2.2	\$	0.1	\$	23.3	\$	13.0	\$	1.0	\$	0.3	\$	2.3	\$	5.9		0.0	\$	0.6
	Determination of FY15 ADC % a. Employer Normal Cost Rate (12 divided by 11) b. UAL Rate (line 10 divided by line 11) c. Total employer ADC % (14a + 14b)	4).34% 9.21% 9.55%	4	8.44% <u>3.45%</u> 1.88%	4	8.45% <u>48.34%</u> 56.79%		8.08% <u>0.88%</u> 8.96%	8	26.69% <u>84.01%</u> 10.69%	<u>57</u>	3.19% <u>7.89%</u> 1.08%	6	3.27% <u>2.91%</u> 6.18%	<u>1</u> .	.40% <u>79%</u> .19%	0.5	33% 5 <u>8%</u> 91%	13 <u>0.</u>	.09% <u>01%</u> .10%	8	3.08% <u>2.26%</u> 5.34%	15.46 <u>1.79</u> 17.26	% <u>%</u>	57	.24% . <u>80%</u> .03%
15.	Determination of FY15 ADC dollars a. FY15 ADC if paid throughout year b. FY15 ADC if paid at beginning of year	\$ \$	272.9 263.6	\$ \$	142.9 138.0	\$ \$	139.9 135.1		2.6 2.5	\$ \$	0.4 0.4	\$ \$	130.1 125.6	\$ \$	78.3 75.6	\$ \$	1.2 1.2	\$ \$	0.3 0.3	\$ \$	2.4 2.3	\$ \$			0.0 0.0	\$ \$	3.4 3.3

* See Table IV-2 for components of these amounts. ** Police 2012 No COL amount includes expected FY15 payroll for Police Prop B plan. Note: Numbers may not add due to rounding.



SECTION IV CONTRIBUTIONS

Table IV-2 shows information on each layer of the June 30, 2013 UAL.

			Table	e I	V-2							
		S	DCERS - Cit	ty o	of San Diego							
		Schedule of	Amortizatio	n E	Bases as of July	1, 2	013					
Used in Development of the City's Contribution for FY 2015												
	Initial July 1, 2013 Outstanding Remaining Amortization											
	Date		Amortization		Outstanding	B	alance for FY	Amortization	Pa	yment for FY		
Type of Base	Established	Initial Amount	Years		Balance		2015 (BOY)*	Years	20	015 (BOY)**		
1. June 30, 2007 UAL	7/1/2007	\$ 1,184,242,049	20	\$	364,190,290	\$	357,596,760	14	\$	32,228,383		
2. Assumption Change	7/1/2008	83,787,434	30		30,244,663		30,560,090	25		1,849,240		
3. Experience Loss	7/1/2008	13,564,981	15		4,168,625		3,988,497	10		469,490		
4. Experience Loss	7/1/2009	810,661,179	15		257,037,693		247,954,570	11		27,002,934		
5. Experience Loss	7/1/2010	25,942,732	15		8,428,990		8,187,137	12		831,661		
6. Experience Gain***	7/1/2010	(50,000,000)	14		(14,756,666)		(14,235,199)	11		(1,550,252)		
7. Experience Gain	7/1/2011	(141,139,563)	15		(46,717,381)		(45,642,278)	13		(4,354,452)		
8. Assumption Change	7/1/2011	188,313,322	30		64,459,571		65,381,648	28		3,702,849		
9. Experience Loss	7/1/2012	36,799,824	15		39,559,811		38,843,595	14		3,500,776		
10. Method Change	7/1/2012	2,465,954	30		2,650,900		2,691,753	29		149,485		
11. Non-Police UAL****	7/1/2012	1,564,122,860	15		1,550,667,393		1,487,828,492	14		161,011,781		
12. Experience Loss	7/1/2013	25,877,674	15		25,877,674		27,753,805	15		2,721,844		
13. Salary Freeze	7/1/2013	(194,945,486)	15		(194,945,486)		(209,079,034)	15		(20,695,251)		
14. Assumption Change	7/1/2013	146,882,570	30		146,882,570		157,531,556	30		10,938,428		
TOTAL				\$	2,237,748,646	\$	2,159,361,394		\$	217,806,918		

* July 1, 2013 outstanding balance adjusted to the FY2015 beginning of year (BOY), July 1, 2014.

** For bases established 7/1/2013 and after, payment reflects level percent of pay amortization for Police portion and level dollar amortization for non-Police portion. *** Reduction in UAL from anticipated impact of PSC correction as of the June 30, 2010 valuation.

**** Entire non-Police UAL as of June 30, 2012. Other pre-2013 bases reflect amounts attributable to Police.

SECTION V ACCOUNTING STATEMENT INFORMATION

Accounting Standards Codification (ASC) Topic 960 of the Financial Accounting Standards Board (FASB) requires the disclosure of certain information regarding funding status. Statement Number 25 of the Governmental Accounting Standards Board (GASB) establishes standards for disclosure of pension information by public employee retirement systems and governmental employers in notes to financial statements and supplementary information.

The ASC Topic 960 disclosure provides a "snap shot" view of how system assets at market value compare to liabilities if contributions stopped and accrued benefit claims had to be satisfied.

The GASB Number 25 disclosure compares the actuarial liability computed for funding purposes to the actuarial value of assets to determine a funded ratio (i.e., the EAN liability).

Both the present value of accrued benefits (ASC Topic 960) and the actuarial liability (GASB Number 25) are determined assuming that participants continue to terminate employment, retire, etc., in accordance with the actuarial assumptions. Liabilities are discounted at the assumed valuation interest rate of 7.25% per annum.

ASC Topic 960 specifies that a comparison of the present value of accrued (accumulated) benefits to the market value of the assets as of the valuation date must be provided. GASB Statement Number 25 requires the actuarial liability be compared with the actuarial value of assets for funding purposes. The relevant amounts as of June 30, 2012 and June 30, 2013 are presented in Table V-1 and Table V-2.



SECTION V ACCOUNTING STATEMENT INFORMATION

	Table	V-1			
	SDCERS - City of S	an	Diego - Total		
	Valuation as of:		June 30, 2013	June 30, 2012	% Change
ASC	C Topic 960 Basis				
1.	Present Value of Benefits Accrued and Vested to Date				
	a. Members Currently Receiving Payments	\$	4,975,550,088	\$ 4,625,109,703	7.6%
	b. Vested Terminated and Inactive Members		304,783,508	284,094,147	7.3%
	c. Active Members		1,895,038,471	 1,811,221,370	4.6%
	d. Total PVAB	\$	7,175,372,068	\$ 6,720,425,220	6.8%
2.	Assets at Market Value	\$	5,395,158,000	\$ 4,799,827,000	12.4%
3.	Unfunded Present Value of Accrued Benefits,				
	But Not Less Than Zero	\$	1,780,214,068	\$ 1,920,598,220	
4.	Ratio of Assets to Value of Benefits (2)/(1)(d)		75.19%	71.42%	3.8%
GAS	SB No. 25 Basis				
1.	Actuarial Liabilities				
	a. Members Currently Receiving Payments	\$	4,975,550,088	\$ 4,625,109,703	7.6%
	b. Vested Terminated and Inactive Members		304,783,508	284,094,147	7.3%
	c. Active Members		2,275,193,142	 2,352,526,805	-3.3%
	d. Total Actuarial Liability	\$	7,555,526,738	\$ 7,261,730,655	4.0%
2.	Actuarial Value of Assets	\$	5,317,778,092	\$ 4,982,441,649	6.7%
3.	Unfunded Actuarial Liability	\$	2,237,748,646	\$ 2,279,289,006	-1.8%
4.	Ratio of Actuarial Value of Assets				
	to Actuarial Liability (2)/(1)(d)		70.38%	68.61%	1.8%

Table V-2 SDCERS - City of San Diego - Total									
Accumulated Benefit Obligation (ASC Topic 960)									
Actuarial Present Value of Benefits Accrued and Vested as of June 30, 2012	\$	6,720,425,220							
Increase (Decrease) During Year Attributable to:									
Passage of Time		490,305,541							
Benefits Paid		(366,036,000)							
Assumption Changes		173,025,774							
Plan Changes		-							
Benefits Accrued, Other Gains/Losses		157,651,533							
Net Increase (Decrease)	\$	454,946,848							
Actuarial Present Value of Benefits Accrued and Vested as of June 30, 2013	\$	7,175,372,068							



SECTION V ACCOUNTING STATEMENT INFORMATION

Tables V-3 through V-5 are exhibits required for the City's Comprehensive Annual Financial Report (CAFR). The Government Finance Officers Association (GFOA) recommends showing at least 6 years of experience in each of these exhibits in the CAFR. Table V-3 shows the Notes to Required Supplementary Information. Table V-4 presents an analysis of financial experience for the valuation year, and Table V-5 presents the Solvency Test which shows the portion of actuarial liability covered by assets.

Table V-	3
SDCERS - City of	
NOTES TO REQUIRED SUPPLEM	0
The information presented in the required supplementary sche	dules to the Financial Section of the City's
CAFR was determined as part of the actuarial valuation at the	date indicated. Additional information as
of the latest actuarial valuation follows.	
Valuation date	June 30, 2013
Actuarial funding method	Entry Age Normal
Amortization method	Closed; Level % (Police), Level \$ (non-Police)
Equivalent single amortization period	15.233 years ¹
Asset valuation method	Expected Value Method
Actuarial assumptions:	
Investment rate of return	7.25%
Projected salary increases due to inflation ²	0% for FY15-18, 3.3% thereafter
Cost-of-living adjustments	2.00%
The actuarial assumptions used have been recommended by the Board of Administration based on the most recent reviews of a and 2013.	
The rate of employer contributions to SDCERS is composed of the unfunded actuarial liability. The normal cost is a level per Member contributions, will pay for projected benefits at retire actuarial liability is that portion of the present value of project employer normal costs or Member contributions. The different accumulated as of the same date is the unfunded actuarial liab ¹ 14 years for the outstanding balance of the 2007 UAL, 15 years for	cent of payroll cost which, along with the ment for the average plan participant. The ed benefits that will not be paid by future nce between this liability and the funds ility.

² 14 years for the outstanding balance of the 2007 UAL, 15 years for experience gains and losses, 30 years for changes in methods and assumptions, five years for benefit changes, and 15 years for the non-Police UAL as of June 30, 2012.
 ² Additional merit salary increases of 0.50% to 8.00% based on a participant's years of service, and membership group.

² Additional merit salary increases of 0.50% to 8.00% based on a participant's years of service, and membership group are also assumed. These increases are not used in the amortization of City's UAL.



SECTION V ACCOUNTING STATEMENT INFORMATION

Table V-4SDCERS - City of San DiegoANALYSIS OF FINANCIAL EXPERIENCEGain and Loss in Actuarial Liability During Years Ended June 30Resulting from Differences Between Assumed Experienceand Actual Experience

and Actual Experience		
	Ŷ	n (or Loss) for Year ending Ine 30, 2013
Type of Activity		
Investment Income	\$	24,968,204
Combined Liability Experience		(40,640,350)
Gain (or Loss) During Year from Financial Experience	\$	(15,672,146)
Non-Recurring Gain (or Loss) Items (e.g., Contributions, Assumption Changes)		37,857,388
Composite Gain (or Loss) During Year	\$	22,185,242



SECTION V ACCOUNTING STATEMENT INFORMATION

			Table V-5 5 - City of Sa	-							
SOLVENCY TEST											
Actuarial Liabilities For											
(\$ in thousands)											
(A) (B) (C)											
Valuation	Active	Retirees	Remaining Active			tion of Actua bilities Cove					
Date	Member	And	Members'	Reported		Reported As					
June 30,	Contributions	Beneficiaries	Liabilities	Assets ¹	(A)	(B)	(C)				
2013 7	\$ 709,796	\$ 4,975,550	\$ 1,870,181	\$ 5,317,778	100%	92.61%	0.00%				
2012	662,488	4,625,110	1,974,133	4,982,442	100	93.40	0.00				
2011 ⁶	627,447	4,344,218	1,945,510	4,739,399	100	94.65	0.00				
2010	584,296	3,912,113	2,030,816	4,382,047	100	97.08	0.00				
2009	535,797	3,673,185	2,072,655	4,175,229	100	99.08	0.00				
2008 5	522,966	3,286,668	2,153,916	4,662,346	100	100	39.50				
2007 4	482,526	3,101,594	2,013,532	4,413,311	100	100	41.19				
2006 ³	456,562	2,822,203	1,703,935	3,981,932	100	100	41.27				
2005	457,550	2,183,263	1,736,279	2,983,080	100	100	19.71				
2004	414,986 ²	1,946,660	1,635,681	2,628,680	100	100	16.33				
2003	375,000 ²	1,741,490	1,416,126	2,375,431	100	100	18.28				

¹ Actuarial Value of Assets.

² Estimated.

³ Reflects contingent liabilities (<u>Corbett</u> pre-July 1, 2000 and 13th check), DROP reserves, supplemental COLA reserves, and IRC section 415 limits.

⁴ The actuarial liability on June 30, 2007 and after is based on the entry age actuarial funding method. All prior ⁵ Reflects revised actuarial and economic assumptions.

⁶ Reflects revised actuarial and economic assumptions.

⁷ Reflects revised actuarial and economic assumptions.



APPENDIX A MEMBERSHIP INFORMATION

	Table	A-1			
SDCER	S - City	of San Diego			
	v	ber Data			
1100		ine 30, 2013	Tı	ıne 30, 2012	% Change
Total	JU	ine 30, 2013	JL	inc 30, 2012	70 Change
Count		7,566		7,724	-2.0%
Average Current Age		44.5		44.3	-2.0%
Average Current Age		13.3		13.2	0.3%
Average Pensionable Earnings	¢	66,014	¢	66,169	-0.2%
6	\$	499,463,072	\$		
Annual Pensionable Earnings	\$, ,	\$	511,090,601	-2.3%
Average Valuation Compensation ¹	\$	66,014	\$	66,169	-0.2%
Annual Valuation Compensation ¹	\$	499,463,072	\$	511,085,600	-2.3%
Service Without Permissive Service Purchased		12.5		12.3	1.5%
Members with Paid Purchased Service		1,620		1,733	-6.5%
Members with Any Purchased Service		1,685		1,819	-7.4%
Amount of Paid Purchased Service		5,755		6,199	-7.2%
Amount of Total Purchased Service		6,228		6,835	-8.9%
<u>General</u>					
Count		5,338		5,471	-2.4%
Average Current Age		46.4		46.1	0.7%
Average Service		13.6		13.4	1.5%
Average Pensionable Earnings	\$	58,302	\$	58,596	-0.5%
Annual Pensionable Earnings	\$	311,216,674	\$	320,577,659	-2.9%
Average Valuation Compensation ¹	\$	58,302	\$	58,595	-0.5%
Annual Valuation Compensation ¹	\$	311,216,674	\$	320,572,658	-2.9%
Service Without Permissive Service Purchased		12.6		12.4	1.6%
Members with Paid Purchased Service		1,281		1,365	-6.2%
Members with Any Purchased Service		1,299		1,394	-6.8%
Amount of Paid Purchased Service		4,907		5,279	-7.0%
Amount of Total Purchased Service		5,085		5,550	-8.4%
<u>Safety</u>					
Count		2,228		2,253	-1.1%
Average Current Age		39.8		39.7	0.3%
Average Service		12.6		12.6	0.0%
Average Pensionable Earnings	\$	84,491	\$	84,560	-0.1%
Annual Pensionable Earnings	ֆ \$	188,246,398	ֆ \$	190,512,942	-0.1%
Average Valuation Compensation ¹					
	\$ \$	84,491 188 246 208	\$ ¢	84,560	-0.1%
Annual Valuation Compensation ¹	Э	188,246,398	\$	190,512,942	-1.2%
Service Without Permissive Service Purchased		12.1		12.1	0.0%
Members with Paid Purchased Service		339		368	-7.9%
Members with Any Purchased Service		386		425	-9.2%
Amount of Paid Purchased Service		848		920	-7.8%
Amount of Total Purchased Service		1,143		1,285	-11.1%

¹ The definition of valuation compensation differs from the definition of pensionable earnings due to IRS 401(a).



APPENDIX A MEMBERSHIP INFORMATION

Disabled 1,212 1,221 -0.7% 65.0 64.5 0.7% Beneficiaries 1,200 1,188 1.0% 74.2 74.2 0.0% Payee Total 8,454 8,205 3.0% 66.7 66.5 0.2% DROP Participants 984 914 7.7% 56.9 56.6 0.5% Deferred Vested ¹ 2,971 2,892 2.7% 46.2 45.8 0.9% Vested < 10 yrs svc 2,101 2,081 1.0% 67.2 67.1 0.1% Disabled 411 413 -0.5% 63.3 63.1 0.3% DROP Participants 546 487 12.1% 59.3 59.1 0.3% DROP Participants 546 487 12.1% 59.3 59.1 0.3% Deferred Vested ¹ 2,409 2,351 2.5% 47.4 47.0 0.9% Safety 2.047 1,964 4.2% 62.3 62.0 0.5% <td< th=""><th></th><th></th><th></th><th>Table A-2</th><th></th><th></th><th></th></td<>				Table A-2			
Count June 30, 2013 Count June 30, 2012 %Change June 30, 2013 Average Age June 30, 2013 $Merage Age$ Total Retired 6,042 5.796 4.2% 65.6 65.4 0.3% Disabled 1.212 1.221 -0.7% 65.0 64.5 0.7% Beneficiaries 1.200 1.188 1.0% 74.2 74.2 0.0% Payee Total 8,454 8.205 3.0% 66.7 66.5 0.2% DROP Participants 984 914 7.7% 56.9 56.6 0.5% Deferred Vested ¹ 2.971 2.892 2.7% 46.2 45.8 0.9% Vested < 10 yrs svc 2.101 2.081 1.0% 63.3 63.1 0.3% Beneficiaries 711 714 -0.4% 76.6 76.6 0.0% Payee Total 5,117 4,959 3.2% 68.2 68.2 0.0% DROP Participants 546 487 12.1% 59.3 59.1 <td< th=""><th></th><th></th><th></th><th>•</th><th>U</th><th></th><th></th></td<>				•	U		
June 30, 2013June 30, 2012%ChangeJune 30, 2013June 30, 2012%ChangeTotal Retired $6,042$ $5,796$ 4.2% 65.6 65.6 65.4 0.3% Disabled $1,212$ $1,221$ 1.221 0.7% 65.0 64.5 0.7% Beneficiaries $1,200$ $1,188$ 1.0% 74.2 74.2 0.0% Payee Total 8.454 8.205 3.0% 66.7 66.5 0.2% DROP Participants 984 914 7.7% 56.9 56.6 0.5% Deferred Vested 1 $2,971$ 2.892 2.7% 46.2 45.8 0.9% Vested < 10 yrs svc $2,101$ $2,081$ 1.0% 63.3 63.1 0.3% Deferred Vested 1 3.995 3.832 4.3% 67.2 67.1 0.1% Disabled 4111 413 -0.5% 63.3 63.1 0.3% Beneficiaries 711 714 -0.4% 76.6 76.6 0.0% Payee Total $5,117$ $4,959$ 3.2% 68.2 68.2 0.0% DROP Participants 546 487 12.1% 59.3 59.1 0.3% Deferred Vested 1 $2,409$ $2,351$ 2.5% 47.4 47.0 0.9% Vested < 10 yrs svc $1,707$ 1.695 0.7% 65.9 65.3 62.0 0.5% Disabled801808 -0.9% 65.9 65.3 62.9 65.3			Non-Activ	e Participan	t Data		
Total Retired 6,042 5,796 4.2% 65.6 65.4 0.3% Disabled 1,212 1,221 -0.7% 65.0 64.5 0.7% Beneficiaries 1,200 1,188 1.0% 74.2 74.2 0.0% Payee Total 8,454 8,205 3.0% 66.7 66.5 0.2% DROP Participants 984 914 7.7% 56.9 56.6 0.5% Deferred Vested ¹ 2,971 2,892 2.7% 46.2 45.8 0.9% Vested < 10 yrs svc 2,101 2,081 1.0% 67.2 67.1 0.1% Beneficiaries 711 714 -0.4% 76.6 76.6 0.0% Payee Total 5,117 4,959 3.2% 68.2 68.2 0.0% DROP Participants 546 487 12.1% 59.3 59.1 0.3% Deferred Vested ¹ 2,409 2,351 2.5% 47.4 47.0 0.9%		June 30. 2013		%Change	June 30, 2013		%Change
Retired $6,042$ $5,796$ 4.2% 65.6 65.4 0.3% Disabled $1,212$ $1,221$ -0.7% 65.0 64.5 0.7% Beneficiaries $1,200$ $1,188$ 1.0% 74.2 74.2 0.0% Payee Total $8,454$ 8.205 3.0% 66.7 66.5 0.2% DROP Participants 984 914 7.7% 56.9 56.6 0.5% Deferred Vested 1 2.971 2.892 2.7% 46.2 45.8 0.9% Owsted < 10 yrs svc	Total						
Beneficiaries1,2001,1881.0%74.274.20.0%Payee Total8,4548,2053.0%66.766.50.2%DROP Participants9849147.7%56.956.60.5%Deferred Vested 1 2,9712,8922.7%46.245.80.9%Vested < 10 yrs svc	Retired	6,042	5,796	4.2%	65.6	65.4	0.3%
Payee Total $8,454$ $8,205$ 3.0% 66.7 66.5 0.2% DROP Participants 984 914 7.7% 56.9 56.6 0.5% Deferred Vested 1 $2,971$ $2,892$ 2.7% 46.2 45.8 0.9% Vested < 10 yrs svc	Disabled	1,212	1,221	-0.7%	65.0	64.5	0.7%
DROP Participants 984 914 7.7% 56.9 56.6 0.5% Deferred Vested 1 2.971 2.892 2.7% 46.2 45.8 0.9% Vested < 10 yrs svc	Beneficiaries	1,200	1,188	<u>1.0%</u>	74.2	74.2	0.0%
Deferred Vested 1 2,9712,8922.7%46.245.80.9%Vested < 10 yrs svc	Payee Total	8,454	8,205	3.0%	66.7	66.5	0.2%
Vested < 10 yrs svc2,1012,0811.0%General Retired3,9953,8324.3%67.267.10.1%Disabled411413-0.5%63.363.10.3%Beneficiaries711714-0.4%76.676.60.0%Payee Total5,1174,9593.2%68.268.20.0%DROP Participants54648712.1%59.359.10.3%Deferred Vested ¹ 2,4092,3512.5%47.447.00.9%Vested < 10 yrs svc	DROP Participants	984	914	7.7%	56.9	56.6	0.5%
General Retired 3,995 3,832 4.3% 67.2 67.1 0.1% Disabled 411 413 -0.5% 63.3 63.1 0.3% Beneficiaries 711 714 -0.4% 76.6 76.6 0.0% Payee Total 5,117 4,959 3.2% 68.2 68.2 0.0% DROP Participants 546 487 12.1% 59.3 59.1 0.3% Deferred Vested ¹ 2,409 2,351 2.5% 47.4 47.0 0.9% Vested < 10 yrs svc	Deferred Vested ¹	2,971	2,892	2.7%	46.2	45.8	0.9%
Retired $3,995$ $3,832$ 4.3% 67.2 67.1 0.1% Disabled 411 413 -0.5% 63.3 63.1 0.3% Beneficiaries 711 714 -0.4% 76.6 76.6 0.0% Payee Total $5,117$ $4,959$ 3.2% 68.2 68.2 0.0% DROP Participants 546 487 12.1% 59.3 59.1 0.3% Deferred Vested 1 $2,409$ $2,351$ 2.5% 47.4 47.0 0.9% Vested < 10 yrs svc	Vested < 10 yrs svc	2,101	2,081	1.0%			
Disabled411413 -0.5% T1163.3 T0463.3 T6.663.1 	General						
Beneficiaries 711 714 -0.4% 76.6 76.6 0.0% Payee Total $5,117$ $4,959$ 3.2% 68.2 68.2 0.0% DROP Participants 546 487 12.1% 59.3 59.1 0.3% Deferred Vested ¹ $2,409$ $2,351$ 2.5% 47.4 47.0 0.9% Vested < 10 yrs svc	Retired	3,995	3,832	4.3%		67.1	0.1%
Payee Total $5,117$ $4,959$ 3.2% 68.2 68.2 0.0% DROP Participants 546 487 12.1% 59.3 59.1 0.3% Deferred Vested 1 $2,409$ $2,351$ 2.5% 47.4 47.0 0.9% Vested < 10 yrs svc	Disabled			-0.5%			0.3%
DROP Participants54648712.1%59.359.10.3%Deferred Vested 1 2,4092,3512.5%47.447.00.9%Vested < 10 yrs svc	Beneficiaries	711	714	<u>-0.4%</u>	76.6	76.6	0.0%
Deferred Vested 1 2,4092,3512.5%47.447.00.9%Vested < 10 yrs svc	Payee Total	5,117	4,959	3.2%	68.2	68.2	0.0%
Vested < 10 yrs svc 1,707 1,695 0.7% Safety Retired 2,047 1,964 4.2% 62.3 62.0 0.5% Disabled 801 808 -0.9% 65.9 65.3 0.9% Beneficiaries 489 474 3.2% 70.7 70.5 0.3% Payee Total 3,337 3,246 2.8% 64.4 64.1 0.5% DROP Participants 438 427 2.6% 53.9 53.8 0.2% Deferred Vested 1 562 541 3.9% 41.2 40.8 1.0%	DROP Participants	546	487	12.1%	59.3	59.1	0.3%
Vested < 10 yrs svc 1,707 1,695 0.7% Safety Retired 2,047 1,964 4.2% 62.3 62.0 0.5% Disabled 801 808 -0.9% 65.9 65.3 0.9% Beneficiaries 489 474 3.2% 70.7 70.5 0.3% Payee Total 3,337 3,246 2.8% 64.4 64.1 0.5% DROP Participants 438 427 2.6% 53.9 53.8 0.2% Deferred Vested 1 562 541 3.9% 41.2 40.8 1.0%	Deferred Vested ¹	2,409	2,351	2.5%	47.4	47.0	0.9%
Retired $2,047$ $1,964$ 4.2% 62.3 62.0 0.5% Disabled 801 808 -0.9% 65.9 65.3 0.9% Beneficiaries 489 474 3.2% 70.7 70.5 0.3% Payee Total $3,337$ $3,246$ 2.8% 64.4 64.1 0.5% DROP Participants 438 427 2.6% 53.9 53.8 0.2% Deferred Vested 1 562 541 3.9% 41.2 40.8 1.0%	Vested < 10 yrs svc			0.7%			
Disabled801808 -0.9% 65.965.3 0.9% Beneficiaries489474 3.2% 70.770.5 0.3% Payee Total3,3373,2462.8%64.464.10.5%DROP Participants4384272.6%53.953.80.2%Deferred Vested 15625413.9%41.240.81.0%	<u>Safety</u>						
Beneficiaries 489 474 3.2% 70.7 70.5 0.3% Payee Total 3,337 3,246 2.8% 64.4 64.1 0.5% DROP Participants 438 427 2.6% 53.9 53.8 0.2% Deferred Vested ¹ 562 541 3.9% 41.2 40.8 1.0%							
Payee Total 3,337 3,246 2.8% 64.4 64.1 0.5% DROP Participants 438 427 2.6% 53.9 53.8 0.2% Deferred Vested ¹ 562 541 3.9% 41.2 40.8 1.0%							
DROP Participants 438 427 2.6% 53.9 53.8 0.2% Deferred Vested ¹ 562 541 3.9% 41.2 40.8 1.0%	Beneficiaries	489	474	<u>3.2%</u>	70.7	70.5	<u>0.3%</u>
Deferred Vested ¹ 562 541 3.9% 41.2 40.8 1.0%	Payee Total	3,337	3,246	2.8%	64.4	64.1	0.5%
	DROP Participants	438	427	2.6%	53.9	53.8	0.2%
Vested < 10 yrs svc 394 386 2.1%	Deferred Vested ¹	562	541	3.9%	41.2	40.8	1.0%
	Vested < 10 yrs svc	394	386	2.1%			

¹ Includes all Participants having a contribution balance still on account with SDCERS.



APPENDIX A MEMBERSHIP INFORMATION

			ſ		ble A-3	D *				
				SDCERS - C Non-Active I	-		-			
		Total	l Aı	nnual Benefit			Avera	ge A	nnual Benefi	t
	J	une 30, 2013	\mathbf{J}_1	une 30, 2012	%Change	Ju	ne 30, 2013	Ju	ne 30, 2012	%Change
<u>Total</u>										
Retired	\$	312,528,881	\$	293,127,220	6.6%	\$	51,726	\$	50,574	2.3%
Disabled		39,597,716		38,696,914	2.3%		32,671		31,693	3.1%
Beneficiaries		19,501,747		18,339,834	<u>6.3%</u>		16,251		15,438	<u>5.3%</u>
Payee Total	\$	371,628,344	\$	350,163,968	6.1%	\$	43,959	\$	42,677	3.0%
DROP Participants	\$	57,528,747	\$	53,714,589	7.1%	\$	58,464	\$	58,769	-0.5%
Deferred Vested ¹	\$	134,186,414	\$	123,281,448	8.8%	\$	45,165	\$	42,628	6.0%
General										
Retired	\$	167,224,555	\$	156,456,700	6.9%	\$	41,858	\$	40,829	2.5%
Disabled		7,791,951		7,463,152	4.4%		18,959		18,071	4.9%
Beneficiaries		9,068,522		8,558,576	<u>6.0%</u>		12,755		11,987	<u>6.4%</u>
Payee Total	\$	184,085,028	\$	172,478,427	6.7%	\$	35,975	\$	34,781	3.4%
DROP Participants	\$	22,948,218	\$	20,275,584	13.2%	\$	42,030	\$	41,634	1.0%
Deferred Vested ¹	\$	107,311,378	\$	99,911,109	7.4%	\$	44,546	\$	42,497	4.8%
Safety										
Retired	\$	145,304,326	\$	136,670,520	6.3%	\$	70,984	\$	69,588	2.0%
Disabled		31,805,765		31,233,762	1.8%		39,708		38,656	2.7%
Beneficiaries		10,433,225		9,781,258	<u>6.7%</u>		21,336		20,636	<u>3.4%</u>
Payee Total	\$	187,543,315	\$	177,685,541	5.5%	\$	56,201	\$	54,740	2.7%
DROP Participants	\$	34,580,528	\$	33,439,005	3.4%	\$	78,951	\$	78,311	0.8%
Deferred Vested ¹	\$	26,875,036	\$	23,370,339	15.0%	\$	47,820	\$	43,198	10.7%

¹ Includes all Participants having a contribution balance still on account with SDCERS. Annual benefit for deferred vested Participants is the total contribution balance on account as of June 30, 2013.



APPENDIX A MEMBERSHIP INFORMATION

Table A-4 SDCERS - City of San Diego Distribution of Active Members (Excludes DROP Participants) as of June 30, 2013

					Total	City					
					Years of S	ervice					
Age	Under 1	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 and up	Total
Under 25	69	42	-	-	-	-	-	-	-	-	111
25 to 29	92	311	152	2	-	-	-	-	-	-	557
30 to 34	47	266	380	108	3	-	-	-	-	-	804
35 to 39	28	178	307	346	75	2	-	-	-	-	936
40 to 44	32	122	182	436	324	105	9	-	-	-	1,210
45 to 49	21	108	139	324	344	435	250	11	1	-	1,633
50 to 54	16	69	103	248	291	284	294	125	15	3	1,448
55 to 59	5	55	78	139	150	69	47	15	4	1	563
60 to 64	11	25	58	64	67	12	7	5	-	-	249
65 to 69	1	9	14	9	3	1	1	-	1	-	39
70 and up	1	7	5	1	1	-	-	-	-	1	16
Total Count	323	1,192	1,418	1,677	1,258	908	608	156	21	5	7,566

Table A-5
SDCERS - City of San Diego
Distribution of Active Members (Excludes DROP Participants) as of June 30, 2013

					Tota	I C	ity						
					Averag								
					Years of								
Age	Under 1	1 to 4	5 to 9	10 to 14	15 to 19		20 to 24	25 to 29	30 to 34	35 to 39	4	40 and up	Total
Under 25	\$ 41,093	\$ 45,978	\$ -	\$ -	\$ -	\$	-	\$ -	\$ -	\$ -	\$	-	\$ 42,942
25 to 29	44,345	61,278	67,984	39,250	-		-	-	-	-		-	60,232
30 to 34	43,562	62,562	69,604	66,972	73,740		-	-	-	-		-	65,414
35 to 39	39,186	63,324	70,051	72,162	72,448		64,355	-	-	-		-	68,809
40 to 44	38,948	57,864	65,872	68,553	78,178		70,984	58,254	-	-		-	69,001
45 to 49	43,009	57,217	60,577	62,579	74,391		78,525	82,307	57,750	84,531		-	71,539
50 to 54	39,295	60,369	54,765	57,044	63,376		66,029	69,672	66,877	60,277		72,835	63,358
55 to 59	24,814	57,274	57,307	56,992	59,188		63,935	70,588	66,673	56,706		62,358	59,614
60 to 64	60,498	66,905	56,420	54,346	63,637		65,325	76,038	72,101	-		-	60,357
65 to 69	12,553	52,963	75,322	70,182	42,169		54,246	66,581	-	71,802		-	63,961
70 and up	25,000	76,843	67,177	41,267	17,316		-	-	-	-		49,462	62,927
Avg. Salary	\$ 42,307	\$ 60,523	\$ 65,918	\$ 64,797	\$ 70,193	\$	72,403	\$ 74,837	\$ 66,381	\$ 61,301	\$	66,065	\$ 66,014



APPENDIX A MEMBERSHIP INFORMATION

Table A-6 SDCERS - City of San Diego Distribution of Active Members (Excludes DROP Participants) as of June 30, 2013

	_				Genera	l					
	1				Years of S	ervice					
Age	Under 1	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 and up	Total
Under 25	35	28	-	-	-	-	-	-	-	-	63
25 to 29	42	167	55	2	-	-	-	-	-	-	266
30 to 34	26	172	177	60	2	-	-	-	-	-	437
35 to 39	20	140	156	202	49	2	-	-	-	-	569
40 to 44	26	103	126	293	162	67	8	-	-	-	785
45 to 49	19	104	117	257	210	225	126	10	1	-	1,069
50 to 54	16	64	97	220	252	243	267	123	15	3	1,300
55 to 59	5	54	77	135	147	67	41	15	4	1	546
60 to 64	11	25	58	64	67	12	7	5	-	-	249
65 to 69	1	9	13	9	3	1	1	-	1	-	38
70 and up	1	7	5	1	1	-	-	-	-	1	16
Total Count	202	873	881	1,243	893	617	450	153	21	5	5,338

	Table A-7
SDCERS - City of San Diego	SDCERS - City of San Diego
Distribution of Active Members (Excludes DROP Participants) as of June 30, 2013	Distribution of Active Members (Excludes DROP Participants) as of June 30, 2013

					Gene	ral							
					Average								
					Years of	i Se	rvice					I	
Age	Under 1	1 to 4	5 to 9	10 to 14	15 to 19		20 to 24	25 to 29	30 to 34	35 to 39	4	40 and up	Total
Under 25	\$ 30,193	\$ 39,172	\$ -	\$ -	\$ -	\$	- \$	-	\$ -	\$ -	\$	-	\$ 34,184
25 to 29	34,397	50,613	46,894	39,250	-		-	-	-	-		-	47,198
30 to 34	36,216	56,632	54,937	51,694	61,849		-	-	-	-		-	54,077
35 to 39	32,293	61,018	58,243	61,851	62,921		64,355	-	-	-		-	59,719
40 to 44	34,208	55,069	58,987	59,670	63,487		58,241	53,884	-	-		-	58,720
45 to 49	42,037	56,347	56,787	56,644	63,411		63,373	67,144	54,873	84,531		-	60,364
50 to 54	39,295	58,342	52,972	53,198	59,661		60,839	66,193	65,829	60,277		72,835	59,935
55 to 59	24,814	55,737	56,904	56,039	58,693		63,329	67,725	66,673	56,706		62,358	58,640
60 to 64	60,498	66,905	56,420	54,346	63,637		65,325	76,038	72,101	-		-	60,357
65 to 69	12,553	52,963	66,388	70,182	42,169		54,246	66,581	-	71,802		-	60,606
70 and up	25,000	76,843	67,177	41,267	17,316		-	-	-	-		49,462	62,927
Avg. Salary	\$ 35,806	\$ 55,894	\$ 56,137	\$ 57,228	\$ 61,453	\$	61,839 \$	66,534	\$ 65,401	\$ 61,301	\$	66,065	\$ 58,302



APPENDIX A MEMBERSHIP INFORMATION

Table A-8 SDCERS - City of San Diego

Distribution of Active Members (Excludes DROP Participants) as of June 30, 2013

Safety

					Safety						
					Years of S	ervice					
Age	Under 1	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 and up	Total
Under 25	34	14	-	-	-	-	-	-	-	-	48
25 to 29	50	144	97	-	-	-	-	-	-	-	291
30 to 34	21	94	203	48	1	-	-	-	-	-	367
35 to 39	8	38	151	144	26	-	-	-	-	-	367
40 to 44	6	19	56	143	162	38	1	-	-	-	425
45 to 49	2	4	22	67	134	210	124	1	-	-	564
50 to 54	-	5	6	28	39	41	27	2	-	-	148
55 to 59	-	1	1	4	3	2	6	-	-	-	17
60 to 64	-	-	-	-	-	-	-	-	-	-	-
65 to 69	-	-	1	-	-	-	-	-	-	-	1
70 and up	-	-	-	-	-	-	-	-	-	-	-
Total Count	121	319	537	434	365	291	158	3	-	-	2,228

Table A-9
SDCERS - City of San Diego
Distribution of Active Members (Excludes DROP Participants) as of June 30, 2013

					Safe	ty								
					Average Years of									
Age	Under 1	1 to 4	5 to 9	10 to 14	15 to 19		20 to 24	25 to 29		30 to 34	35 to 39	40 and u	р	Total
Under 25	\$ 52,314	\$ 59,590	\$ -	\$ -	\$ -	\$	-	\$ -	\$	-	\$ -	\$	- {	54,436
25 to 29	52,702	73,646	79,943	-	-		-	-		-	-		-	72,146
30 to 34	52,658	73,413	82,392	86,069	97,523		-	-		-	-		-	78,913
35 to 39	56,421	71,820	82,250	86,626	90,404		-	-		-	-		-	82,902
40 to 44	59,488	73,016	81,364	86,752	92,870		93,450	93,213		-	-		-	87,989
45 to 49	52,239	79,830	80,732	85,346	91,599		94,758	97,715		86,528	-		-	92,721
50 to 54	-	86,313	83,763	87,268	87,380		96,791	104,076	1	31,275	-		-	93,423
55 to 59	-	140,275	88,338	89,138	83,444		84,229	90,154		-	-		-	90,875
60 to 64	-	-	-	-	-		-	-		-	-		-	-
65 to 69	-	-	191,454	-	-		-	-		-	-		-	191,454
70 and up	-	-	-	-	-		-	-		-	-		-	-
Avg. Salary	\$ 53,160	\$ 73,191	\$ 81,964	\$ 86,473	\$ 91,576	\$	94,801	\$ 98,486	\$ 1	16,359	\$ -	\$	- {	8 84,491



APPENDIX A MEMBERSHIP INFORMATION

Table A-10

SDCERS - City of San Diego

Retirees (Includes DROP Participants), Disabled, and Beneficiaries Tabulated by Attained Age/Benefit Effective Date

	× ×		ar erespunes)	, 21548104,	Total C	City			2		
					Age						
Plan Year	Under 50	50 to 54	55 to 59	60 to 64	65 to 69	70 to 74	75 to 79	80 to 84	85 to 89	90 and up	Total
pre-1994	9	24	44	62	154	176	262	261	245	149	1,386
1994	6	7	11	12	13	16	13	16	7	5	106
1995	4	5	14	7	11	19	18	24	4	1	107
1996	3	9	12	8	21	29	24	15	5	3	129
1997	10	8	8	10	53	89	42	20	4	7	251
1998	6	6	10	9	55	100	32	15	7	7	247
1999	3	15	6	21	112	64	41	10	8	4	284
2000	6	14	6	18	132	35	30	9	8	5	263
2001	8	11	13	73	119	60	28	12	10	3	337
2002	4	8	6	56	92	38	12	8	3	5	232
2003	4	3	8	94	249	86	23	11	5	9	492
2004	7	7	43	139	88	62	20	4	9	11	390
2005	6	6	83	207	97	64	6	7	4	5	485
2006	16	8	114	197	69	25	8	9	6	8	460
2007	6	5	93	219	71	18	12	9	15	9	457
2008	9	8	93	202	66	16	10	10	9	5	428
2009	18	101	258	87	80	18	9	15	7	4	597
2010	10	113	180	49	45	14	8	13	14	3	449
2011	10	118	220	60	37	9	2	4	6	4	470
2012	8	119	237	63	38	9	5	8	5	1	493
2013	9	93	173	77	14	4	6	6	3	6	391
Total	162	688	1,632	1,670	1,616	951	611	486	384	254	8,454

Surviving spouses benefit effective date no longer based on participant's original date of retirement.

Average Age at Retirement/Disability	55.5
Average Current Age	66.7
Average Annual Pension	\$ 43,959



APPENDIX A MEMBERSHIP INFORMATION

Table A-11

SDCERS - City of San Diego

Retirees (Includes DROP Participants), Disabled, and Beneficiaries Tabulated by Attained Age/Benefit Effective Date

	·		I I I I I		Gener	ral	·	·	5		
					Age	•					
Plan Year	Under 50	50 to 54	55 to 59	60 to 64	65 to 69	70 to 74	75 to 79	80 to 84	85 to 89	90 and up	Total
pre-1994	3	10	7	16	33	29	86	155	184	116	639
1994	1	3	1	7	5	5	11	15	6	3	57
1995	1	1	8	3	-	6	16	23	3	1	62
1996	2	2	3	5	5	16	20	12	4	2	71
1997	4	4	3	6	6	26	30	19	4	6	108
1998	3	4	5	6	5	64	30	15	6	6	144
1999	1	3	4	5	37	43	40	9	5	4	151
2000	5	7	3	6	51	30	29	9	5	1	146
2001	2	5	10	8	70	55	27	10	8	3	198
2002	1	4	3	4	51	35	12	8	3	5	126
2003	3	1	4	11	208	80	21	9	3	6	346
2004	2	4	7	86	75	56	16	3	6	7	262
2005	2	4	5	143	82	59	6	6	2	5	314
2006	11	3	16	164	64	23	6	8	2	5	302
2007	4	3	12	189	62	15	8	7	10	6	316
2008	4	3	4	187	62	13	7	9	4	3	296
2009	5	10	168	75	75	15	4	11	6	4	373
2010	3	11	149	44	43	7	7	9	10	1	284
2011	3	19	190	56	30	6	-	3	6	2	315
2012	3	10	209	60	34	8	4	4	5	1	338
2013	3	10	155	72	11	3	5	5	1	4	269
Total	66	121	966	1,153	1,009	594	385	349	283	191	5,117

Surviving spouses benefit effective date no longer based on participant's original date of retirement.

Average Age at Retirement/Disability	58.2
Average Current Age	68.2
Average Annual Pension	\$ 35,975



APPENDIX A MEMBERSHIP INFORMATION

Table A-12

SDCERS - City of San Diego

Retirees (Includes DROP Participants), Disabled, and Beneficiaries Tabulated by Attained Age/Benefit Effective Date

					Safet	y					
					Age						
Plan Year	Under 50	50 to 54	55 to 59	60 to 64	65 to 69	70 to 74	75 to 79	80 to 84	85 to 89	90 and up	Total
pre-1994	6	14	37	46	121	147	176	106	61	33	747
1994	5	4	10	5	8	11	2	1	1	2	49
1995	3	4	6	4	11	13	2	1	1	-	45
1996	1	7	9	3	16	13	4	3	1	1	58
1997	6	4	5	4	47	63	12	1	-	1	143
1998	3	2	5	3	50	36	2	-	1	1	103
1999	2	12	2	16	75	21	1	1	3	-	133
2000	1	7	3	12	81	5	1	-	3	4	117
2001	6	6	3	65	49	5	1	2	2	-	139
2002	3	4	3	52	41	3	-	-	-	-	106
2003	1	2	4	83	41	6	2	2	2	3	146
2004	5	3	36	53	13	6	4	1	3	4	128
2005	4	2	78	64	15	5	-	1	2	-	171
2006	5	5	98	33	5	2	2	1	4	3	158
2007	2	2	81	30	9	3	4	2	5	3	141
2008	5	5	89	15	4	3	3	1	5	2	132
2009	13	91	90	12	5	3	5	4	1	-	224
2010	7	102	31	5	2	7	1	4	4	2	165
2011	7	99	30	4	7	3	2	1	-	2	155
2012	5	109	28	3	4	1	1	4	-	-	155
2013	6	83	18	5	3	1	1	1	2	2	122
Total	96	567	666	517	607	357	226	137	101	63	3,337

Surviving spouses benefit effective date no longer based on participant's original date of retirement.

Average Age at Retirement/Disability	51.4
Average Current Age	64.4
Average Annual Pension	\$ 56,201



APPENDIX A MEMBERSHIP INFORMATION

Table A-13 SDCERS - City of San Diego Distribution of Retirees, Disabilitants, Beneficiaries and Survivors as of June 30, 2013

	Count	- -	
Age	General	Safety	Total
Under 50	66	96	162
50 to 54	121	567	688
55 to 59	966	666	1,632
60 to 64	1,153	517	1,670
65 to 69	1,009	607	1,616
70 to 74	594	357	951
75 to 79	385	226	611
80 to 84	349	137	486
85 to 89	283	101	384
90 and up	191	63	254
Total	5,117	3,337	8,454

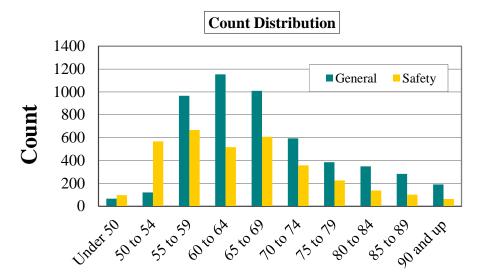


Chart A-1



APPENDIX A MEMBERSHIP INFORMATION

Table A-14 SDCERS - City of San Diego Distribution of Retirees, Disabilitants, Beneficiaries and Survivors as of June 30, 2013

	Annual Benefit					
Age		General		Safety		Total
Under 50	\$	1,200,522	\$	3,150,235	\$	4,350,757
50 to 54		1,783,676		39,036,788		40,820,464
55 to 59		42,594,976		42,513,934		85,108,910
60 to 64		50,998,499		31,612,644		82,611,142
65 to 69		40,214,594		34,372,707		74,587,301
70 to 74		20,206,628		18,595,860		38,802,489
75 to 79		11,438,149		10,918,775		22,356,924
80 to 84		8,377,901		4,007,238		12,385,139
85 to 89		5,247,064		2,185,680		7,432,744
90 and up		2,023,019		1,149,455		3,172,473
Total	\$	184,085,028	\$	187,543,315	\$.	371,628,344

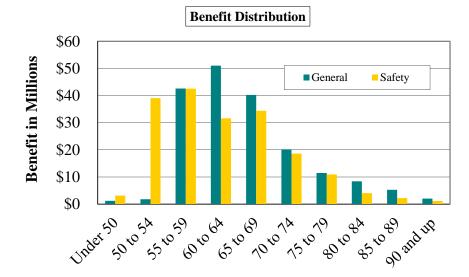


Chart A-2



APPENDIX A MEMBERSHIP INFORMATION

Data Assumptions and Practices

In preparing our data, we relied on information supplied by the SDCERS staff. This information includes, but is not limited to, plan provisions, employee data, and financial information. Our methodology for obtaining the data used for the valuation is based upon the following assumptions and practices:

- Service for Actives and Inactives was calculated using Benefit Service. An adjusted date of hire is retroactively calculated from the valuation date. Purchased Service that has been paid for is included in the Benefit Service field. Purchased Service that has been applied for, but not paid as of the valuation date will be assumed to be paid in full, and this service will be reflected in the projected benefit.
- Valuation Salary will be the maximum of "Current Annual Pensionable Salary" and annualized "Average Compensation."
- For accounts having duplicate records in the Actives and Inactives by Social Security Number, the information from the latest payroll date is regarded as most up to date. The other record is treated as out of date and invalid.
- For duplicate records (based on SSN and Benefit Type) in the payee file, records having the same plan and same benefit type but different benefit amounts, we have added those benefit amounts together.
- Records on the provided "Member" file are considered to be Active if they have no "Date of Death," no "Date of Separation," do not have a retiree record and they received pay in the last pay period (Last Pay Period = 26) of the current FY.
- Records on the "Member" file are considered to be Inactive if they do not have a "Date of Death," do not have a retiree record and either have a "Date of Separation" or have a "Last Pay Period" earlier than the last pay period of the current FY.
- Records on the "Payee" file are considered in pay status if their benefit is not suspended.
- Pension Benefit for retirees for each plan was calculated by summing "Monthly Pension," "Monthly Annuity," "COLA Annuity," "Surviving Spouse Annuity," and "COLA Pension" and subtracting "Non-COLA Adjustments." The "Non-COLA Adjustments" field is mainly for Qualified Domestic Relations Order purposes. The "Supplement Amount" field is added as an annual benefit (i.e., 13th check) and the "Corbett Supplemental Payment" is annualized for new retirees in the City only. It is assumed the payment is annual for retirees already in pay status prior to this valuation.
- Members retiring since the prior valuation date and not having a "Supplement Amount" (13th check) will have their projected "Supplement Amount" (13th check) calculated assuming \$30 multiplied by the "Total Service Credit."



APPENDIX A MEMBERSHIP INFORMATION

- Members may retire and receive benefits from multiple Plans (e.g., a City police officer could have also worked for the Airport Authority); we will value each Member's blended benefit individually. This will result in the counts being slightly higher than actual counts due to people having more than one benefit payable from multiple plans.
- We assume any retiree found in last year's "Payee" file and not in this year's file has died without a beneficiary and should be removed from the valuation data.
- We assume all deceased retirees with payments continuing to a beneficiary have already been accounted for in the "Payee" file.
- We exclude any payee receiving \$0.00 from a blended benefit plan.
- We assume that any active Member found in the inactive data last year has returned to work and should be valued as active.
- The Final 415 Regulations were used to calculate the present value of Member benefits over the Internal Revenue Service Code 415 Benefit Limits.

Changes Since Last Valuation

• Members with service in one SDCERS plan who are now active in another SDCERS plan have "frozen service" in the original plan. In prior valuations, Member records associated with frozen service were treated as active, but effective with this valuation they are treated as inactive. This affects the allocation of their total benefit liability between past (actuarial liability) and future (present value of future normal costs) but does not impact the value of the total benefit liability itself.



APPENDIX B ACTUARIAL ASSUMPTIONS AND METHODS

A. Actuarial Assumptions

1. Investment Return Assumption

SDCERS' assets are assumed to earn 7.25% net of both administrative and investment expenses.

2. Inflation Rate

An inflation assumption of 3.3% compounded annually is used for projecting the total annual payroll growth for amortization of the non-Police UAL.

3. Interest Credited to Member Contributions

7.25%, compounded annually.

4. Salary Increase Rate

Inflation component	3.3% (following assumed freezes in FYs 2015-2018. Freezes
	had also been assumed for FYs 2013 and 2014)

The additional merit component:

Table B-1					
Years of Service at					
Valuation Date	General	Safety			
0	5.00%	8.00%			
1	4.00%	7.00%			
2	3.00%	6.00%			
3	2.00%	3.50%			
4	1.00%	2.00%			
5+	0.50%	0.50%			



APPENDIX B ACTUARIAL ASSUMPTIONS AND METHODS

5. Cost-of-Living Increase in Benefits

Assumed to be 2% per annum, compounded annually.

There is a closed group of Special Safety Officers for whom we assume an annual adjustment equal to inflation (3.3% per year).

6. COL Annuity Benefit

For active Members, the COL annuity benefit is valued by adding to the liabilities onesixth of accumulated member contribution accounts and using load factors for future member contributions. The load varies by Plan as follows:

General	Elected	Police	Fire	Lifeguard
2.19%	2.5%	3.51%	3.69%	3.58%

For terminated vested participants, one-sixth of the accumulated member contribution accounts are recognized as a liability for the COL annuity.

7. Member Refunds

All or part of the employee contribution rate is subject to potential "offset" by the employer. That "offset" and the related accumulated interest are not to be refunded to employees at termination. However, such offsets are not directly reflected in either the employee contributions or related refund calculations.



APPENDIX B ACTUARIAL ASSUMPTIONS AND METHODS

8. Rates of Termination

	Table B-2				
SDCE	SDCERS - City of San Diego				
Rat	tes of Terminat	ion			
Service	General	Safety			
0	11.00%	8.80%			
1	10.00	7.72			
2	9.00	6.62			
3	8.00	5.53			
4	7.00	4.41			
5	6.00	3.31			
6	5.00	3.16			
7	5.00	3.09			
8	4.00	3.01			
9	3.50	2.94			
10	3.50	2.89			
11	3.50	2.77			
12	3.25	2.70			
13	3.25	2.63			
14	3.25	2.58			
15	3.25	2.52			
16	3.25	2.46			
17	3.25	2.41			
18	3.25	2.38			
19	3.25	2.37			
20	3.25	2.35			
21	3.25	2.34			
22+	3.25	2.33			

20% of terminating employees, with 10+ years of service at termination, are assumed to subsequently work for a reciprocal employer and receive 3.8% pay increases per year.



APPENDIX B ACTUARIAL ASSUMPTIONS AND METHODS

9. Rates of Disability

	Table B-3ERS - City of Sameof Disability at Select	0
Age	General	Safety
20	0.02%	0.25%
25	0.03	0.25
30	0.04	0.25
35	0.06	0.35
40	0.08	0.45
45	0.12	0.55
50	0.20	0.65
55	0.35	0.75
60	0.45	

60% of the General disabilities and 80% of the Safety disabilities are assumed to be industrial disability retirements. Non-industrial disability retirement is subject to a 10-year service requirement.

10. Rates of Mortality for Active Lives

To reflect improvements in mortality since the date of the tables, the mortality tables have been modified to reflect actual experience through June 30, 2010 and include a projection to 2013.

All active members follow the RP2000 Combined Healthy table (male and female) projected to 2013.

	Table B-4SDCERS - City of San DiegoRates of Mortality for Active Lives at Selected AgesGeneral and Safety						
Age	Male	Female					
20	0.03%	0.02%					
25	0.03	0.02					
30	0.04	0.02					
35	0.07	0.04					
40	0.10	0.06					
45	0.13	0.09					
50	0.17	0.13					
55	0.28	0.25					
60	0.55	0.47					
65	1.06	0.91					
70	1.83	1.57					

50% of active member deaths are assumed to be industrial deaths for Safety members and all active member deaths are assumed to be non-industrial deaths for other members.



APPENDIX B ACTUARIAL ASSUMPTIONS AND METHODS

11. Rates of Mortality for Retired Healthy Lives

To reflect improvements in mortality since the date of the tables, the mortality tables have been modified to reflect actual experience through June 30, 2010. No modifications have been made to project future mortality improvements. In the next experience study we will examine the mortality experience and consider the projection of future improvement.

All retired healthy members use the RP2000 Combined Healthy table (male and female). Safety female members use the RP2000 Combined Healthy female table, set forward one year.

	Table B-5SDCERS - City of San DiegoRates of Mortality for Retired Healthy Lives at Selected Ages						
	Ger	neral	Sa	fety			
Age	Male	Female	Male	Female			
40	0.11%	0.07%	0.11%	0.08%			
45	0.15	0.11	0.15	0.12			
50	0.21	0.17	0.21	0.19			
55	0.36	0.27	0.36	0.31			
60	0.67	0.51	0.67	0.58			
65	1.27	0.97	1.27	1.10			
70	2.22	1.67	2.22	1.86			
75	3.78	2.81	3.78	3.10			
80	6.44	4.59	6.44	5.08			
85	11.08	7.74	11.08	8.64			
90	18.34	13.17	18.34	14.46			



APPENDIX B ACTUARIAL ASSUMPTIONS AND METHODS

12. Rates of Mortality for Retired Disabled Lives

To reflect improvements in mortality since the date of the tables, the mortality tables have been modified to reflect actual experience through June 30, 2010. No modifications have been made to project future mortality improvements. In the next experience study we will examine the mortality experience and consider the projection of future improvement.

The mortality tables used for disabled retirees are variations of the CALPERS Disability Tables (male and female):

	Table B-6SDCERS - City of San DiegoRates of Mortality for Disabled Lives at Selected Ages						
	Gene	eral	Safe	ty			
Age	Male	Female	Male	Female			
40	1.45%	0.67%	0.19%	0.20%			
45	1.65	0.99	0.25	0.26			
50	1.63	1.25	0.44	0.36			
55	1.86	1.58	0.56	0.55			
60	2.19	1.63	0.78	0.80			
65	2.99	1.97	1.39	1.18			
70	3.76	3.02	2.24	1.72			
75	5.42	3.92	3.59	2.67			
80	7.90	5.56	6.93	4.53			
85	12.48	9.58	11.80	8.02			



APPENDIX B ACTUARIAL ASSUMPTIONS AND METHODS

13. Rates of Retirement

Rates of Retirement for City General and City Safety are shown in the two tables below.

	Т	able B-7					
	SDCERS - City of San Diego						
R	Rates of Retirement by Age and Service						
		neral	Safety				
Service	Prior to age 62	Age 62 or		0			
10	0	greater 60.0%	age 55	greater 40.0%			
10		45.0		40.0% 40.0			
11		43.0 45.0		40.0			
12		45.0 45.0		40.0			
13		45.0		40.0			
14		40.0		31.5			
16		40.0		31.5			
17		40.0		31.5			
18		40.0		31.5			
19		40.0		31.5			
20	50.0	55.0	35.0	50.0			
21	35.0	35.0	20.0	25.0			
22	37.5	35.0	25.0	30.0			
23	40.0	35.0	30.0	35.0			
24	42.5	35.0	35.0	40.0			
25	45.0	45.0	40.0	45.0			
26	47.5	45.0	45.0	50.0			
27	50.0	45.0	50.0	55.0			
28	52.5	45.0	55.0	60.0			
29	55.0	45.0	60.0	65.0			
30	57.5	50.0	100.0	100.0			
31	60.0	50.0	100.0	100.0			
32	60.0	55.0	100.0	100.0			
33	60.0	55.0	100.0	100.0			
34	60.0	55.0	100.0	100.0			
35+	100.0	100.0	100.0	100.0			

In addition, if a Police-2009 Plan, a Police-2012 Plan, a Police-2012 No COL Plan or a Fire-2012 Plan Member has both attained age 55 and completed at least 30 years of service, 100% retirement is assumed.

For vested deferred participants, we assume that retirement will occur provided they have at least 10 years of service on the later of attained age or:

General Members: Earlier of age 62 or age 55 and 20+ years of service.

Safety Members: Earlier of age 55 or age 50 and 20+ years of service.



APPENDIX B ACTUARIAL ASSUMPTIONS AND METHODS

Rates of Retirement for Elected Officials are based on age and are shown in the table below.

	Table B-9SDCERS - City of San DiegoRates of Retirement at Selected Ages				
Age	Elected Officials				
50					
51					
52					
53	15%				
54	1				
55	5				
56	3				
57	4				
58	5				
59	6				
60	60				
61	25				
62	37				
63	23				
64	34				
65	68				
66	69				
67	74				
68	80				
69	90				
70	100				

For vested deferred Elected Officials, we assume that retirement will occur provided they have at least four years of service on the later of attained age or the earlier of age 55 or age 53 and at least eight years of service.

If the inactive participant is not vested, the liability is the participant's contributions with interest.



APPENDIX B ACTUARIAL ASSUMPTIONS AND METHODS

14. Family Composition Assumptions

80% of men and 55% of women were assumed married at retirement. A female spouse is assumed to be three years younger than her male spouse.

15. Member Contributions for Spousal Continuance

All active Members contribute towards a 50% survivor continuance. However, Members who are unmarried at retirement may either be refunded that specific part of their contributions, or they may leave such contributions on account and receive an incremental benefit that is the actuarial equivalent of such contributions.

16. Deferred Member Benefit

The benefit was estimated based on information provided by SDCERS staff. The data used to value the estimated deferred benefit were date of birth, date of hire, date of termination, and last pay. Based on the data provided, service credit, highest average salary, and deferred retirement age were estimated. The estimates were used to compute the retirement benefit, upon which the liabilities are based. For those participants without sufficient data or service, accumulated participant contribution balances, with interest, were used as the actuarial accrued liability.

17. DROP Account Balances

For DROP participants still working, the liability for the account balances in the asset information received from SDCERS staff was adjusted to assume average commencement in 2 $\frac{1}{2}$ years and an interest crediting rate of 1.2%. Thereafter, it was assumed the account balance would be converted to an annuity at an interest rate of 3.3% over an average period of 10 years. The 10-year period was selected to average among the available DROP payment elections, including a lump sum, life expectancy, and 20 years. The liability for pre-2006 DROP account balances still left on account was valued assuming they would be paid out until age 70 $\frac{1}{2}$, with an interest crediting rate of 1.2%. The liability for the remaining account balances was adjusted based on the DROP annuity rate in effect at the Member's benefit effective date.

These adjustments are applied to the DROP account balance values provided in the financial statements. The account balance liability is allocated to each individual sub-group (e.g., General) based on the total amount of the DROP account balances for that sub-group in the valuation data.



APPENDIX B ACTUARIAL ASSUMPTIONS AND METHODS

18. Other

The contribution requirements and benefit values of a plan are calculated by applying actuarial assumptions to the benefit provisions and Member information, using the actuarial funding methods described in the following section.

Actual experience of SDCERS will not coincide exactly with assumed experience, regardless of the choice of the assumptions, the skill of the actuary or the precision of the many calculations made. Each valuation provides a complete recalculation of assumed future experience and takes into account all past differences between assumed and actual experience. The result is a continual series of adjustments to the computed contribution rate. From time to time it becomes appropriate to modify one or more of the assumptions, to reflect experience trends, but not random year-to-year fluctuations.

19. Changes Since Last Valuation

The following revisions to the economic assumptions were adopted by the SDCERS Board at its November 8, 2013 meeting:

- The assumed investment return was lowered from 7.5% to 7.25%,
- A freeze on inflationary pay increases is assumed for FYs 2015-2018, and
- The inflation assumption used for amortization of the UAL and inflationary pay increases (after the freeze) was lowered from 3.75% to 3.3%.

The DROP interest crediting and annuity rates used to value the liability for account balances were reduced from 1.9% to 1.2% and from 4.4% to 3.3%, respectively, to reflect the Board's adoption of these rates at its December 2012 meeting.



APPENDIX B ACTUARIAL ASSUMPTIONS AND METHODS

B. Actuarial Methods

1. Actuarial Funding Method

The Entry Age Normal funding method was used for active employees, whereby the normal cost rate is computed as the average level annual percent of pay required to fund the retirement benefits for all Members between their dates of hire and assumed dates of retirement. The EAN actuarial liability is the difference between the plan's total present value of future benefits and the present value of future normal costs, calculated for each sub-group (e.g., General). The unfunded actuarial liability is the difference between the actuarial liability and the actuarial value of assets, and is allocated to each sub-group based on its liability.

The unfunded actuarial liability is amortized by annual payments. For the non-Police portion of the plan, the UAL payments are determined as level dollar amounts. For the Police portion of the plan, the payments are determined as a level percentage of pay, assuming payroll increases of 3.3% per year. The UAL is amortized over various closed periods. The UAL as of June 30, 2007 is amortized over 20 years. Subsequent gains and losses are amortized over 15 years, changes in assumptions over 30 years, and changes in benefits over five years. The non-Police portion of the UAL as of June 30, 2012 is amortized over 15 years. Funding surplus, if any, is amortized over 30 years. Finally, if necessary, there is an additional UAL cost component to ensure that there is no negative amortization in any year.

2. Asset Valuation Method

For the purposes of determining the City of San Diego's annual required contribution to SDCERS, we use a smoothed actuarial value of assets. The asset smoothing method dampens the volatility in asset values that could occur because of the fluctuations in market conditions. Use of an asset smoothing method is consistent with the long-term nature of the actuarial valuation process. Assets are assumed to be used exclusively for the provision of retirement benefits and expenses.

The actuarial value of assets is equal to 100% of the *expected actuarial value of assets*¹ plus 25% of the difference between the current market value of assets and the expected actuarial value of assets. In no event will the actuarial value of assets ever be less than 80% of the market value of assets nor greater than 120% of the market value of assets.

3. Changes Since Last Valuation

The SDCERS Board adopted a policy of 30-year amortization of funding surplus, if any, at its November 8, 2013 meeting.

The gross normal cost rate is now determined by dividing the sum of the individual normal costs by the total valuation salary, instead of by dividing the total present value of future normal costs by the total present value of future salaries. This change was made to



APPENDIX B ACTUARIAL ASSUMPTIONS AND METHODS

be consistent with the disclosure requirements of GASB Statements Number 67 and Number 68.

¹ The expected actuarial value of assets is equal to the prior year's actuarial value of assets increased with actual contributions made, decreased with actual disbursements made, all items (prior assets, contributions and disbursements) further adjusted with expected investment returns for the year.



APPENDIX C SUMMARY OF PLAN PROVISIONS

1. Membership Requirement

Membership is mandatory from the first day of employment with the City, for all full, threequarter, and half-time classified employees initially hired between July 1, 1991 and July 19, 2012 and for any unclassified employees initially hired between August 11, 1993 and July 19, 2012. (§24.0104)*

Membership is mandatory from the first day of employment for Police Recruits hired between July 1, 1991 and June 30, 2013 and for all sworn police officers initially hired on or after July 1, 1991. (City Charter §140)

As a result of Proposition B, new employees (other than sworn Police) initially hired on or after July 20, 2012 will not participate in SDCERS.

2. Monthly Salary Base for Benefits

General and Safety Old Plan Members:

Highest consecutive 12-month average in any qualified employment with a California governmental jurisdiction (§ 24.0103), subject to a 10% increase for those who joined the system before July 1, 2002, if the General or Safety Member elects such increase in lieu of an increased benefit formula. (§24.0402 and §24.0403)

General-2009 Plan Members:

Average of highest three years in any qualified employment with a California governmental jurisdiction (§ 24.0103).

Police-2009 Plan Members:

Highest consecutive 12-month average in any qualified employment with a California governmental jurisdiction (§ 24.0103).

Fire-2012 Plan, Police-2012 Plan, and Police-2012 No COL Plan Members:

Average of highest three years in any qualified employment with a California governmental jurisdiction (§ 24.0103).

3. Service Retirement

<u>Eligibility</u>

General Members:

Age 62 with 10 years of service, or age 55 with 20 years of service (§ 141 of City Charter).

^{*} All "§" references are to the City of San Diego Municipal Code.



APPENDIX C SUMMARY OF PLAN PROVISIONS

Safety Members (includes Fire, Lifeguard, and Police): Age 55 with 10 years of service, or age 50 with 20 years of service (§ 141 of City Charter).

Elected Officers:

Age 55 with 4 years of service. Eligible to retire at any age with 8 years of service, however, benefit is reduced by 2% per year for each year under age 55. (§ 24.1705).

Benefit

The basic formula used to calculate monthly retirement allowances for all membership categories is: Retirement Factor X Final Average Compensation X Years of Service Credit.

General Members:

For General-Old Plan Members, choice of factors in place on June 30, 2000 (Option 1), or factors effective as of July 1, 2000 (Option 2), or factors in effect as of July 1, 2002 (Option 3), with a benefit cap of 90% of Final Average Compensation unless an exception to the 90% cap applies (§ 24.0402).

For General-2009 Plan Members, factors shown in Table C-1 (§ 24.0402.1).

There is an additional amount equal to the annuitized Member COL Annuity contributions at retirement date.

General Member Service Retirement Accrual Factors

Table C-1 SDCERS - City of San Diego General Member Service Retirement Accrual Factors Hired Before July 1, 2009 Hired on or After July 1, 2019							
Age	Option 1	Option 2	Option 3	2009			
55	2.00%	2.25%	2.50%	1.00%			
56	2.00%	2.25%	2.50%	1.25%			
57	2.00%	2.25%	2.50%	1.65%			
58	2.00%	2.25%	2.50%	1.758%			
59	2.08%	2.25%	2.50%	1.874%			
60	2.16%	2.30%	2.55%	2.00%			
61	2.24%	2.35%	2.60%	2.12%			
62	2.31%	2.40%	2.65%	2.24%			
63	2.39%	2.45%	2.70%	2.36%			
64	2.47%	2.50%	2.75%	2.46%			
65 and up	2.55%	2.55%	2.80%	2.60%			

Elected Officers:

The retirement factor for Elected Officers is 3.5% (§ 24.1706). A 2% annual reduction factor applies to benefits for Members retiring prior to age 55 (§ 24.1705).



APPENDIX C SUMMARY OF PLAN PROVISIONS

Safety Members:

For all Safety-Old Plan Members, choice of factors in place on June 30, 2000 (Option 1), or factors effective as of July 1, 2000 (Option 2), with a benefit cap of 90% of Final Average Compensation unless an exception to the 90% cap applies (§ 24.0403).

For Police-2009 Plan, Fire-2012 Plan, Police-2012 Plan and Police-2012 No COL Plan Members, formula shown in Table C-2 (§ 24.0403).

There is an additional amount equal to the annuitized Member COL Annuity contributions at retirement date, with the exception of Police-2012 No COL Plan members.

Table C-2 SDCERS - City of San Diego Safety Member Service Retirement Accrual Factors							
Police Hired Before July 1, 2009 Lifeguard Hired Before July 1, 2011 Fire Hired Before January 1, 2012 Fire-2012							
Retirement	Police & Fire	Safety	Police-2012				
Age	Option 1	Option 1	Option 2	Police-2012 No COL			
50	2.50%	2.20%	3.00%	2.50%			
51	2.60%	2.32%	3.00%	2.60%			
52	2.70%	2.44%	3.00%	2.70%			
53	2.80%	2.57%	3.00%	2.80%			
54	2.90%	2.72%	3.00%	2.90%			
55 and up	2.99%	2.77%	3.00%	3.00%			

Safety Member Service Retirement Accrual Factors

For vested Members who terminate City employment, different retirement accrual factors may apply depending on which options were available at the time of termination.

For Members of the General-2009 Plan who terminate City employment, the accrual factors are those shown in Tables C-1. For Members of the Police-2009 Plan, Fire-2012 Plan, Police-2012 Plan and Police-2012 No COL Plan who terminate City employment, the accrual factors are those shown in Table C-2. For General-Old Plan and Safety-Old Plan Members, the accrual factors are as shown in Tables C-3 and C-4:



APPENDIX C SUMMARY OF PLAN PROVISIONS

GENERAL:

Table C-3SDCERS - City of San Diego					
For Vested Members who terminated the accrual factors are					
Prior to January 1, 1997	See Table C-5				
January 1, 1997 - June 30, 2000	Option 1 without 10% increase in Final Average Compensation				
July 1, 2000 - June 30, 2002	Option 1 with 10% increase in Final Average Compensation; or Option 2				
July 1, 2002 - Present	Option 3				

SAFETY:

Table C-4SDCERS - City of San Diego					
For Vested Members who terminated the accrual factors are					
Prior to January 1, 1997	See Table C-5				
January 1, 1997 - June 30, 2000	Option 1 without 10% increase in Final				
	Average Compensation				
July 1, 2000 - Present	Option 1 with 10% increase in Final				
	Average Compensation; or Option 2				

Table C-5									
	SDCERS - City of San Diego								
Pre-1	Pre-1997 Member Service Retirement Accrual Factors								
	General Safety								
Age		Police	Fire	Lifeguard					
50		2.50%	2.20%	2.00%					
51		2.54%	2.32%	2.10%					
52		2.58%	2.44%	2.22%					
53		2.62%	2.57%	2.34%					
54		2.66%	2.72%	2.47%					
55	1.48%	2.70%	2.77%	2.62%					
56	1.55%	2.77%	2.77%	2.62%					
57	1.63%	2.77%	2.77%	2.62%					
58	1.72%	2.77%	2.77%	2.62%					
59	1.81%	2.77%	2.77%	2.62%					
60	1.92%	2.77%	2.77%	2.62%					
61	1.99%	2.77%	2.77%	2.62%					
62	2.09%	2.77%	2.77%	2.62%					
63	2.20%	2.77%	2.77%	2.62%					
64	2.31%	2.77%	2.77%	2.62%					
65 and up	2.43%	2.77%	2.77%	2.62%					



APPENDIX C SUMMARY OF PLAN PROVISIONS

Maximum Benefit

General-Old Plan Members: 90% of Final Average compensation if Option 3 is chosen, unless an exception to the 90% cap applies.

General-2009 Plan Members: 80% of Final Average compensation.

Safety-Old Plan Members: 90% of Final Average Compensation (subject to 10% increase).

Police-2009 Plan, Fire-2012 Plan, Police-2012 Plan and Police-2012 No COL Plan Members: 90% of Final Average compensation.

Elected Officers: None.

Unmodified Form of Payment

Monthly payments continued for the life of the Member, with 50% continuance to the eligible spouse upon Member's death. If there is no eligible spouse, the Member may receive either a lump sum payment equal to the accumulated surviving spouse contributions or an actuarially equivalent annuity (§ 24.0601).

Note: City employees withdrew from Social Security effective January 1, 1982. We assume that all future benefits for active Members will be determined on a non-integrated basis.

Note: Effective July 1, 1991, service credit earned under the 1981 Pension System will be considered equivalent to SDCERS service for the purpose of benefit calculations (i.e., the above formulas will apply to 1981 Pension System service) (§ 24.1102, 24.0210, 24.0310).

4. Non-Industrial Disability

Eligibility

Ten years of service (Charter §141).

Benefit

General Members:

Greater of 1.5% per year of service, one-third of final compensation, or the earned service retirement benefit (§24.0502, §24.0505).

Safety Members:

Greater of 1.8% per year of service, one-third of final compensation, or the earned service retirement benefit (§24.0502, §24.0504).

Elected Officers: Earned service retirement benefit (§24.1707).



APPENDIX C SUMMARY OF PLAN PROVISIONS

5. Industrial Disability

<u>Eligibility</u>

No age or service requirement (§24.0501).

<u>Benefit</u>

General Members:

Greater of one-half of final compensation, or the earned service retirement benefit if eligible. (§24.0502, §24.0505).

Safety Members: Greater of one-half of final compensation, or the earned service retirement benefit if eligible. (§24.0502, §24.0503).

Elected Officers: Earned service retirement benefit (§24.1707).

6. Non-Industrial Active Death Before Eligible to Retire

Refund of employee contributions with interest, plus one month's salary for each completed year of service, to a maximum of six months salary (§24.0702).

7. Non-Industrial Active Death After Eligible to Retire for Service

50% of earned benefit payable to surviving eligible spouse, domestic partner, or dependent child under 18 years of age. (§24.0704)

8. Industrial Active Death

50% of the final average compensation (subject to 10% increase) preceding death, payable to eligible spouse, domestic partner, or dependent child under 18 years of age. (§24.0705)

9. Death After Retirement

Continuance to surviving beneficiary depending on benefit selection made at retirement (§24.0601).

\$2,000 payable in lump sum to the beneficiary or the estate of the retiree. (§24.0710)



APPENDIX C SUMMARY OF PLAN PROVISIONS

10. Withdrawal Benefits (§24.0206, §24.0306)

Pre-12/8/76 Hires

If contributions left on deposit, entitled to earned benefits, commencing anytime after eligible to retire.

Post-12/7/76 Hires

Less than ten years of service:

Refund of accumulated employee contributions with interest, or may keep deposits in the System and earn additional interest and use service with a reciprocal system to establish eligibility for earned benefits upon concurrent retirement from reciprocal system (§24.0206, 24.0306, 24.1005).

Ten or more years of service:

If contributions left on deposit, entitled to earned benefits commencing anytime after eligible to retire (§24.0206, 24.0306)

11. Post-retirement Cost-of-Living Adjustment Benefit

General and Safety Members: Based on changes in Consumer Price Index, to a maximum of 2% per year (§24.1505).

12. COL Annuity

Actuarial equivalent of accumulated contributions in cost-of-living annuity account at time of retirement (§24.0103).



APPENDIX C SUMMARY OF PLAN PROVISIONS

13. Member Contributions

Member contributions vary by age at time of entrance into SDCERS (§24.0201, §24.0301), and were recalculated following the experience study in 2011 based on the then current actuarial assumptions, in accordance with the requirement in San Diego City Charter Section 143 for "substantially equal" employer and employee contributions. Member contributions were adjusted in 2013 based on the most recent changes to the actuarial assumptions as listed in Appendix B of this report. Table C-6 below contains the contribution rates by plan.

Table C-6 SDCERS - City of San Diego Employee Contribution Rates										
	GEN	ERAL	F	RE	LIFEGUARD			POLICE		
Entry Age	Hired Before 7/1/2009	Hired On or After 7/1/2009	Hired Before 1/1/2012	Hired On or After 1/1/2012	Hired Before 7/1/2011	Hired Before 7/1/2009	Hired On or After 7/1/2009 and Before 1/1/2012	Hired On or After 1/1/2012 and Before 8/2/2012	Hired On or After 8/2/2012 and Before 7/1/2013	Hired On or After 7/1/2013
20	7.45%	3.87%	12.75%	10.49%	12.66%	12.75%	10.60%	10.38%	8.71%	7.85%
21	7.56	4.07	12.87	10.92	12.79	12.87	11.05	10.81	9.08	8.25
22	7.73	4.27	13.10	11.37	13.01	13.10	11.51	11.25	9.45	8.67
23	7.92	4.49	13.39	11.83	13.24	13.39	11.98	11.71	9.84	9.11
24	8.14	4.72	13.69	12.30	13.49	13.69	12.46	12.18	10.22	9.57
25	8.35	4.94	13.98	12.78	13.73	13.98	12.96	12.66	10.63	10.04
26	8.56	5.17	14.25	13.08	13.95	14.25	13.26	12.95	10.87	10.27
27	8.76	5.40	14.51	13.22	14.15	14.51	13.40	13.09	10.98	10.57
28	8.96	5.64	14.75	13.41	14.32	14.75	13.60	13.27	11.14	10.91
29	9.16	5.89	14.97	13.62	14.44	14.97	13.82	13.48	11.32	11.24
30	9.34	6.14	15.29	13.85	14.76	15.29	14.06	13.71	11.52	11.55
31	9.51	6.40	15.34	14.09	14.68	15.34	14.31	13.95	11.71	11.82
32	9.68	6.65	15.45	14.35	14.61	15.45	14.57	14.20	11.92	12.08
33	9.82	6.89	15.60	14.61	14.56	15.60	14.83	14.46	12.14	12.32
34	9.95	7.15	15.72	14.85	14.55	15.72	15.09	14.70	12.35	12.55
35	10.18	7.40	15.90	15.03	14.68	15.90	15.28	14.88	12.49	12.71
36	10.09	7.62	16.13	15.35	14.90	16.13	15.60	15.19	12.76	12.98
37	10.02	7.81	16.40	15.65	15.14	16.40	15.92	15.50	13.02	13.26
38	9.96	7.98	16.66	15.95	15.39	16.66	16.23	15.79	13.26	13.52
39	9.96	8.16	16.93	16.24	15.63	16.93	16.53	16.08	13.50	13.78
40	9.99	8.33	17.17	16.51	15.87	17.17	16.81	16.34	13.72	14.02
41	10.02	8.50	17.56	16.75	16.23	17.56	17.07	16.59	13.93	14.24
42	10.06	8.68	17.88	16.98	16.52	17.88	17.30	16.81	14.11	14.44
43	10.27	8.88	18.15	17.17	16.76	18.15	17.51	17.00	14.27	14.62
44	10.47	9.08	18.33	17.31	16.95	18.33	17.66	17.14	14.39	14.76
45	10.65	9.29	18.46	17.39	17.05	18.46	17.76	17.21	14.46	14.84
46	10.83	9.48	18.01	17.07	16.63	18.01	17.43	16.90	14.19	14.57
47	11.00	9.66	17.68	16.91	16.33	17.68	17.27	16.74	14.06	14.43
48	11.18	9.84	17.33	16.80	16.01	17.33	17.16	16.64	13.97	14.34
49	11.33	9.99	16.96	16.68	15.66	16.96	17.04	16.52	13.87	14.24
50	11.44	10.14								
51	11.51	10.26								
52	11.61	10.36								
53	11.42	10.39								
54	11.20	10.37								
55	10.89	10.20								
56	10.57	9.90								
57	10.27	9.62								

APPENDIX C SUMMARY OF PLAN PROVISIONS

The employee contribution rates are the sum of four components, three of which are specified in the Municipal Code: a cost-of-living rate (§24.1506(a)), a surviving spouse rate (§24.0601), and, other than Police hired on or after August 2, 2012, a COL Annuity rate (§24.1506(b)). The fourth component is the "substantially equal" rate, which is 50% of the normal cost of accrued service retirement allowances, payable either immediately or deferred until a later age, when a member leaves employment via termination, disability, or service retirement. Since the cost-of-living rate funds the Member's portion of the post-retirement cost-of-living benefit, the surviving spouse rate funds the COL Annuity, these benefits are not included in the calculation of the "substantially equal" rate.

All benefits not included in the components described above are paid for entirely by the City. Those benefits paid for entirely by the City include the refund of member contributions for non-vested terminations, the portion of the disability allowance in excess of the earned service retirement (if any), the 13th check benefit, the pre-retirement death benefit for non-vested members, the pre-retirement industrial death benefit, and the post-retirement \$2,000 lump sum benefit.

The assumptions used to develop the rates were the same as those used in this valuation, except that mortality tables for General Members were blended 50/50 between male and female rates, mortality tables for Safety Members were blended 90/10 between male and female rates, and mortality table for beneficiaries of Safety Members were blended 10/90 between male and female rates.

Elected Officers (General) contribute 9.05% of total salary, regardless of entry age (§24.1704).

14. Internal Revenue Code Limitation

Benefits provided by SDCERS' Trust Fund are subject to the limitations set forth in Section 415 of the Internal Revenue Code in accordance with the "grandfather" election in Section 415(b)(10) of the Code (§24.1004).

As of the June 30, 2006 valuation, active participants' benefit payments were limited by Section 415 of the Internal Revenue Code. As of the June 30, 2007 valuation, all benefit payments were limited by Section 415 of the Internal Revenue Code.

15. Deferred Retirement Option Plan

Effective April 1, 1997, a deferred retirement option plan (DROP) was created and offered to Members as an alternative method of benefit accrual. Members eligible for service retirement are eligible to participate in DROP (except for Safety Members who elect to accrue benefits under Section 24.0403(g)), but only those hired before July 1, 2005 may enter the program (§24.1402.1).



APPENDIX C SUMMARY OF PLAN PROVISIONS

A participant in DROP may leave DROP at any time before the end of his or her designated DROP participation period by voluntarily leaving City employment (§24.1403). The maximum DROP participation period is 60 months (§24.1402).

A DROP participation account is a nominal account established with the Retirement System, which is credited with the following amounts (§24.1404):

- The Member's monthly service retirement allowance, credited monthly, calculated at the date of DROP entry and increased each year by a cost-of-living adjustment.
- The Member's supplemental 13th check benefit, if applicable, credited annually.
- 3.05% of base compensation, payable by the City and credited bi-weekly.
- 3.05% of base compensation, payable by the Member and credited bi-weekly.
- For a Firefighter's Local 145 bargaining unit Member, an amount representing their unused annual leave accrued after July 1, 2002, including annual leave accrued after July 1, 2002, while in DROP, which was not converted to creditable service before the date of DROP entry.
- Interest on the above amounts, as determined by the Board.

When a Member leaves DROP and City employment, they begin to collect their monthly service retirement allowance, their supplemental 13th check benefit (if applicable), and the amounts credited to their DROP participation account, payable as a single lump sum distribution, as a 240-month annuity with equal payments, or any other form approved by the Board and subject to applicable provisions of the Internal Revenue Code (§24.1407).

DROP is not intended to jeopardize the tax-qualified status of the retirement system under the rules and regulations of the Internal Revenue Service. Benefits provided under this division are subject to the limitations of Section 415 of the Internal Revenue Code relating to the amount of benefits that can be paid.

16. Blended Benefit with Participating Agencies

Members may retire and receive benefits from multiple Plans (e.g., a City police officer could have also worked for the Airport Authority).

17. Changes since Last Valuation

A new plan for Police Members was implemented on August 2, 2012. The only change to the predecessor Police plan was to remove the COL Annuity benefit.

Note: The summary of major plan provisions is designed to outline principal plan benefits. If the SDCERS staff should find the plan summary not in accordance with the actual provisions, the actuary should immediately be alerted so the proper provisions are valued.



APPENDIX D GLOSSARY OF TERMS

1. Actuarial Liability

The Actuarial Liability is the difference between the present value of all future system benefits and the present value of total future normal costs. This is also referred to by some actuaries as the "accrued liability" or "actuarial accrued liability."

2. Actuarial Assumptions

Estimates of future experience with respect to rates of mortality, disability, turnover, retirement rate or rates of investment income and salary increases. Actuarial assumptions (rates of mortality, disability, turnover and retirement) are generally based on past experience, often modified for projected changes in conditions. Economic assumptions (salary increases and investment income) consist of an underlying rate in an inflation-free environment plus a provision for a long-term average rate of inflation.

3. Accrued Service

Service credited under the System which was rendered before the date of the actuarial valuation.

4. Actuarial Equivalent

A single amount or series of amounts of equal actuarial value to another single amount or series of amounts, computed on the basis of appropriate actuarial assumptions.

5. Actuarial Cost Method

A mathematical budgeting procedure for allocating the dollar amount of the actuarial present value of a retirement system benefit between future normal cost and actuarial accrued liability. Sometimes referred to as the "actuarial funding method."

6. Actuarial Gain/(Loss)

The difference between actual experience and actuarial assumption anticipated experience during the period between two actuarial valuation dates.

7. Actuarial Present Value

The amount of funds currently required to provide a payment or series of payments in the future. It is determined by discounting future payments at predetermined rates of interest, and by probabilities of payment.



APPENDIX D GLOSSARY OF TERMS

8. Actuarially Determined Contribution (ADC)

Contribution determined each year based on the SDCERS Board's adopted funding policy. The term also exists in GASB 67 and 68 as a contribution determined by the actuary in accordance with Actuarial Standards of Practice, but no further guidance is provided.

9. Amortization

Paying off an interest-discounted amount with periodic payments of interest and principal as opposed to paying off with a lump sum payment.

10. Annual Required Contribution (ARC) under GASB 25

The Governmental Accounting Standards Board (GASB) Statement Number 25 defines the Plan Sponsor's "Annual Required Contribution" (ARC) as the employer's periodic required contributions to a defined benefit plan, calculated in accordance with the parameters outlined in Statement Number 25. Starting in FY 2014, GASB Statement Number 67, which does not contain the concept of an ARC, will replace Statement Number 25 for public pension plan accounting and financial reporting.

11. Normal Cost

The actuarial present value of retirement system benefits allocated to the current year by the actuarial funding method.

12. Set Back/Set Forward

Set back is a period of years that a standard published table (i.e., mortality) is referenced backwards in age. For instance, if the set back period is two years and the participant's age is currently 40, then the table value for age 38 is used from the standard published table. It is the opposite for set forward. A system would use set backs or set forwards to compensate for mortality experience in their work force.

13. Unfunded Actuarial Liability (UAL)

The difference between actuarial liability and the actuarial value of assets.

Most retirement systems have unfunded actuarial liability. They arise each time new benefits are added and each time an actuarial loss is realized.

The existence of unfunded actuarial liability is not in itself bad, any more than a mortgage on a house is bad. Unfunded actuarial liability does not represent a debt that is payable today. What is important is the ability to amortize the unfunded actuarial accrued liability, and the trend in its amount (after due allowance for devaluation of the dollar).

