



SDCERS

SAN DIEGO CITY EMPLOYEES' RETIREMENT SYSTEM

ON TRACK FOR RETIREMENT SECURITY

COMPREHENSIVE ANNUAL FINANCIAL REPORT FOR THE FISCAL YEAR ENDED JUNE 30, 2018

A defined benefit pension plan trust for employees of the City of San Diego, the San Diego Unified Port District and the San Diego County Regional Airport Authority. A fiduciary component unit of the City of San Diego

San Diego City Employees' Retirement System

A Fiduciary Component Unit of the City of San Diego

A Defined Benefit Pension Plan Trust for
Employees of the City of San Diego, the San Diego Unified Port District
and the San Diego County Regional Airport Authority.

COMPREHENSIVE ANNUAL FINANCIAL REPORT

FOR THE FISCAL YEAR ENDED JUNE 30, 2018

The San Diego City Employees' Retirement System's (SDCERS) mission
is to deliver accurate and timely benefits to its participants
and ensure the Trust Fund's safety, integrity and growth.

Issued by:

Gregg L. Rademacher
Chief Executive Officer

Ted A. LaSalvia
Controller

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Table of Contents

1. Introductory Section

Transmittal Letter from the Chief Executive Officer and Board President	2
GFOA Certificate of Achievement	6
Organization	
Board of Administration	7
Board of Administration Committees	8
Organization Chart	9
Professional Services	10

2. Financial Section

Independent Auditor's Report	12
Management's Discussion and Analysis (Unaudited)	15
Basic Financial Statements	
Statement of Plan Net Position	24
Statement of Changes in Plan Net Position	25
Statement of Fiduciary Net Position – Agency Funds	26
Notes to the Basic Financial Statements	27
Required Supplementary Information (Unaudited)	
Schedules of Changes in Net Pension Liability (Asset) and Related Ratios	59
Schedules of Plan Sponsor Contributions	62
Schedule of Investment Returns	63
Notes to Required Supplementary Information	64
Other Supplemental Information	
Schedule of Administrative Expenses	66
Schedule of Investment Expenses	67
Schedule of Payments to Consultants	68
Statement of Changes in Assets and Liabilities – Agency Funds	70

3. Investment Section

Investment Consultant's Statement.....	74
Asset Class Investment Returns	76
Investment Managers.....	77
Summary of Investment Goals and Philosophy.....	78
Long-Term Strategic Target and Actual Asset Allocation	79
Schedules of Largest Equity and Fixed Income Holdings.....	80
Schedule of Commissions	81
Growth of Investments, at Fair Value	82
Fiscal Year Investment Results.....	83

4. Actuarial Section

Actuary's Certification Letter	86
Summary of June 30, 2017 Valuation Results	89
Summary of SDCERS' Benefit Provisions	112

5. Statistical Section

Changes in Plan Net Position.....	124
Changes in Plan Net Position by Plan Sponsor.....	124
Additions to Plan Net Position by Source	125
Deductions from Plan Net Position by Type.....	126
Allowances Being Paid – Service and Disability Retirees and Beneficiaries.....	127
Retired Members by Type of Benefit.....	130
Average Benefit Payment Amounts.....	131
Average Benefit Payment Amounts by Year of Retirement.....	132
Active Members	134
Inactive Members.....	135
Participating Plan Sponsors	136

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INTRODUCTORY 1



Transmittal Letter



November 21, 2018

To the Members, Plan Sponsors, and Trustees of the San Diego City Employees' Retirement System:

We are pleased to present the San Diego City Employees' Retirement System's (SDCERS) Comprehensive Annual Financial Report (CAFR) for the fiscal year ended June 30, 2018 (FY 2018).

SDCERS' Background and History. SDCERS was established in 1927 by the City of San Diego (City) to provide retirement, disability, and death benefits to its members. Two additional Plan Sponsors were added when employees of the San Diego Unified Port District (Port) became members of SDCERS in 1963, and employees of the San Diego County Regional Airport Authority (Airport) became members in 2003. In 2012, the City's plan was closed to all new members except sworn police officers as a result of the voter-approved Proposition B.

To attain the appropriate level of funding for each member, SDCERS' actuary specifies a formula to calculate the amount that would need to be contributed by participating Plan Sponsors and members each year until retirement. SDCERS invests these contributions utilizing a long-term investment strategy consisting of a diversified mix of stocks, bonds, real estate, private equity, and infrastructure investments. Plan sponsor and member contributions, along with investment earnings, represent the three funding sources from which SDCERS pays benefits and its operational expenses.

SDCERS works with its actuarial and investment consultants to review system risk and to determine if any modifications to the risk profile of the portfolio are needed due to the partial City plan closure. At this time, no significant changes are required. SDCERS continues to receive contributions from over 7,000 City members, as well as all Port and Airport members, and will invest these funds over the life of members' careers and throughout their retirement. SDCERS strictly monitors cash flow, investment risk, and returns.

Investment Results. SDCERS' time-weighted investment returns for FY 2018 were 8.2% net of fees, compared to 13.5% for FY 2017. As of June 30, 2018, SDCERS' annualized total investment return net of fees was 7.5% over the past three years, 8.4% over the past five years, and 6.9% over the past 10 years. Over the past 20 years, SDCERS' investment returns were 7.4%, which is in the top 1 percent for public pension plans.

SDCERS' investment philosophy strategy remains focused on long-term results. Our long-standing, disciplined strategy of a well-balanced portfolio will continue to provide members with sustainable benefits for their retirement. Each year, SDCERS reviews portfolio risk and asset allocation to manage the fiscal health of the fund. The most recent reviews indicate no significant investment policy or asset allocation changes are needed at present.

Looking Ahead to New Accounting Standards. In FY 2020, SDCERS will implement a new financial reporting standard, GASB Statement No. 84 *Fiduciary Activities*, as required by the Governmental Accounting Standards Board (GASB). This standard establishes criteria for identifying fiduciary activities for all state and local governments, and will result in funds currently reported as agency funds being reported as a new type of fiduciary fund – custodial funds. In addition, in FY 2021, SDCERS will implement GASB Statement No. 87 *Leases*, which requires recognition of certain lease assets and liabilities for leases that were previously classified as operating leases and recognized as inflows of resources or outflows of resources based upon the payment provisions of the contract. The Financial Section basic financial statements and note disclosures will be expanded accordingly.

Funding Status. SDCERS engages an independent actuary to conduct annual actuarial valuations for funding purposes. Our three Plan Sponsors' June 30, 2017 actuarial valuations, the most recent available, are summarized in this CAFR. The valuations show the City's plan is 71.2% funded, the Port's plan is 74.3% funded, and the Airport's plan is 89.2% funded. All three Plan Sponsor funding ratios declined from a year ago, primarily due to lowering the investment return actuarial assumption. However, all three Plan Sponsors continued their strong funding trend of paying 100% of their Actuarially Determined Contributions in FY 2018. Historical trend information regarding funded status is provided in the Actuarial Section of this report.

FY 2017 CAFR Receives GFOA Certificate of Achievement. The Government Finance Officers Association (GFOA) awarded SDCERS' FY 2017 CAFR the Certificate of Achievement for Excellence in Financial Reporting. This Certificate of Achievement is the highest form of recognition in governmental accounting and financial reporting, and its attainment represents a significant accomplishment by a government and its management. This award continues our renewed recognition that began with the FY 2008 CAFR and is the direct result of extraordinary work by our communication, finance, investment and legal teams.

Status of Pension Reform Implementation. Proposition B, approved by City voters in 2012, closed the defined benefit retirement plan to City employees hired on or after July 20, 2012, other than for sworn police officers. Proposition B is subject to ongoing litigation between the City and its labor unions. On August 2, 2018, the California Supreme Court found that a violation of meet and confer labor laws occurred in connection with the passage of Proposition B and sent the case back to the Court of Appeal to address the appropriate remedy. SDCERS will continue to monitor developments on the issue and work with the parties involved on the outcome of any further court proceedings.

In September 2012, California Governor Jerry Brown signed the Public Employees' Pension Reform Act of 2013 (PEPRA) into law. As of January 2013, the Port and Airport Plans are governed by the provisions of their plan documents and PEPRA. PEPRA does not apply to cities with their own charter, as is the case with the City's plan.

Introductory Section

Serving our Members. A top priority for SDCERS is continued pursuit of excellence in serving our members. In FY 2018, key accomplishments included: expanding educational seminar offerings beyond pre-retirement seminars to include subject specific seminars including DROP Entry, DROP Retirement, Airport PEPRAs Benefits, Port Hybrid Benefits and Safety Member Benefits; increasing member service choice by promoting the SDCERS secure Member Portal's advantages for account review, estimating a retirement benefit, and submitting a retirement application; and updating our membership data to ensure we have the most complete and accurate information to administer our member service requests over the phone, through written correspondence and on-line using the secure Member Portal. More details on the FY 2018 Action Plan priorities and accomplishments can be found on the sdcers.org website.

Continued Pursuit of Investment Program Excellence. During the fiscal year, SDCERS conducted a review of the Investment Program's fee adjusted performance to analyze the value of active investment management in the publicly traded securities portfolios. The review's purpose was to assess if the publicly traded securities portfolio's performance returns were greater than the average market return after subtracting active investment management fees. As the Investment Program portfolio's adjusted fees compared favorably to average public market investments over a one-year and five-year time frame, the additional risk taken with active investment management was rewarded by earning additional investment income. SDCERS also evaluated custody bank services through a competitive bid process to ensure services provided are best available and cost effective. SDCERS' current service provider, State Street was selected due to their significant depth of experience in servicing large complex public plans, a dedication to technology, and a fully integrated custody and accounting system. Finally, staff and the investment consultant, Aon, continue to look for opportunities to add return to the portfolio on a risk-adjusted basis.

SDCERS Employees Recognized for Leadership Activities. Several SDCERS employees were panelists or chairpersons at conferences and networking functions this past year: David Bond, Liza Crisafi, Mark Hovey, Marcelle Voorhies Rossman, Johnny Tran, and Susan Youngflesh. We're proud of these employees for providing leadership and representing SDCERS' mission at events across the country.

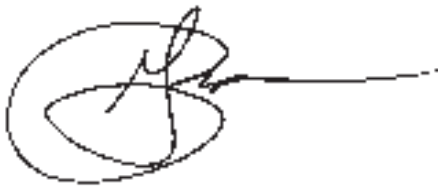
Audited Financial Statements. The financial statements included in this CAFR have been prepared by SDCERS' management, who are responsible for the integrity and fairness of the data presented, including the amounts that must be based on estimates and judgments. The accounting policies followed in preparation of these financial statements conform to accounting principles generally accepted in the United States. The basic financial statements presented are accompanied by a narrative introduction and financial overview and analysis in the form of Management's Discussion and Analysis (MD&A). This Transmittal Letter complements the MD&A, which follows the report of the independent auditor, and should be read in conjunction with it.

SDCERS' management is responsible for the accuracy, completeness and fair presentation of information, and all disclosures in this report. The auditing firm of Macias Gini & O'Connell LLP provides audit services to SDCERS. Their opinion on the financial statements states that SDCERS' financial statements are presented in conformity with generally accepted accounting principles and are free of material misstatements.

Internal Controls. SDCERS has established and maintains a framework of internal controls to provide reasonable assurance that assets are properly safeguarded, transactions are properly executed, and the financial statements are free from material misstatement. However, we recognize that even sound internal controls have inherent limitations. Because the cost of a control should not exceed the benefits to be derived, the objective is to provide reasonable rather than absolute assurance that the financial statements are free of any material misstatements. Therefore, internal controls are reviewed to ensure SDCERS' adherence to operating policies and procedures, and that the controls are adequate to ensure accurate and reliable financial reporting and to safeguard SDCERS' assets. The SDCERS' Internal Auditor reviews internal controls and operations, and reports regularly to the Board's Audit Committee; the Audit Committee reviews the audit findings, internal control recommendations, and management's actions to implement these recommendations. The Internal Auditor's work is subject to a periodic peer review by an external quality assessment team.

Acknowledgments. We would like to express our appreciation to the Board members and Audit Committee members who, without compensation, have provided the leadership, direction and support that have made our recent achievements possible. Plan Sponsors, members and the citizens of our community have been well served by the stewardship of the Board members and Audit Committee members.

Finally, we would like to thank the SDCERS staff. Each one works very hard to support our mission and our members. Their individual efforts, combined with those of a great group of professional advisors and investment managers, are essential to our ongoing success.



Gregg L. Rademacher
Chief Executive Officer



Valentine S. Hoy
President, SDCERS Board of Administration

**San Diego City Employees' Retirement System
GFOA Certificate of Achievement**



Government Finance Officers Association

**Certificate of
Achievement
for Excellence
in Financial
Reporting**

Presented to

**San Diego City
Employees' Retirement System
California**

For its Comprehensive Annual
Financial Report
for the Fiscal Year Ended

June 30, 2017

Christopher P. Morill

Executive Director/CEO

**San Diego City Employees' Retirement System
Board of Administration
As of June 30, 2018**

BOARD OF ADMINISTRATION			Valentine S. Hoy, President MAYORAL APPOINTEE
	Thomas P. Battaglia ELECTED GENERAL MEMBER		Carol Broad, Vice President MAYORAL APPOINTEE
	Carina E. Coleman MAYORAL APPOINTEE		William W. Haynor MAYORAL APPOINTEE
	Charles F. Hogquist ELECTED RETIREE		George C. Kenney MAYORAL APPOINTEE
	Michael H. McBride ELECTED SAFETY (FIRE) MEMBER		Thanasi K. Prevolos MAYORAL APPOINTEE
	Roberta J. Spoon MAYORAL APPOINTEE		Thomas A. Sullivan ELECTED SAFETY (POLICE) MEMBER
	Jeffrey J. Wallace ELECTED GENERAL MEMBER		Almis Udrys EX-OFFICIO, MAYORAL DESIGNEE

San Diego City Employees' Retirement System
Board of Administration Committees
As of June 30, 2018

In addition to regular Board duties, SDCERS Trustees also participate in one or more standing committees that review policies and procedures related to various areas of SDCERS' administration, report their findings and make recommendations to SDCERS' Board. The composition and responsibilities of the standing committees as of June 30, 2018 were as follows:

Audit Committee

Greg Kowieski* (Chair) Julie A. Firl* Paul Kaufmann* Edward W. Kitrosser* Roberta J. Spoon	Responsible for providing oversight of financial reporting process, the system of internal controls, and the independent audit process. Recommends to the full Board the acceptance of the CAFR, as well as acknowledgment and receipt of the independent auditor's report on the audited financial statements. Develops the performance plan and evaluates the performance of the Internal Auditor. The Audit Committee Charter requires at least three members to be independent, non-Board members appointed by the Board and such members are denoted by the "*" at left.
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Business and Governance Committee

Thanasi K. Preovolos (Chair) Valentine S. Hoy Charles F. Hogquist Roberta J. Spoon Thomas A. Sullivan Almis Udrys	Responsible for reviewing SDCERS' business and procedures, reviewing the annual budget, developing Board rules, and facilitating training programs for Board members.
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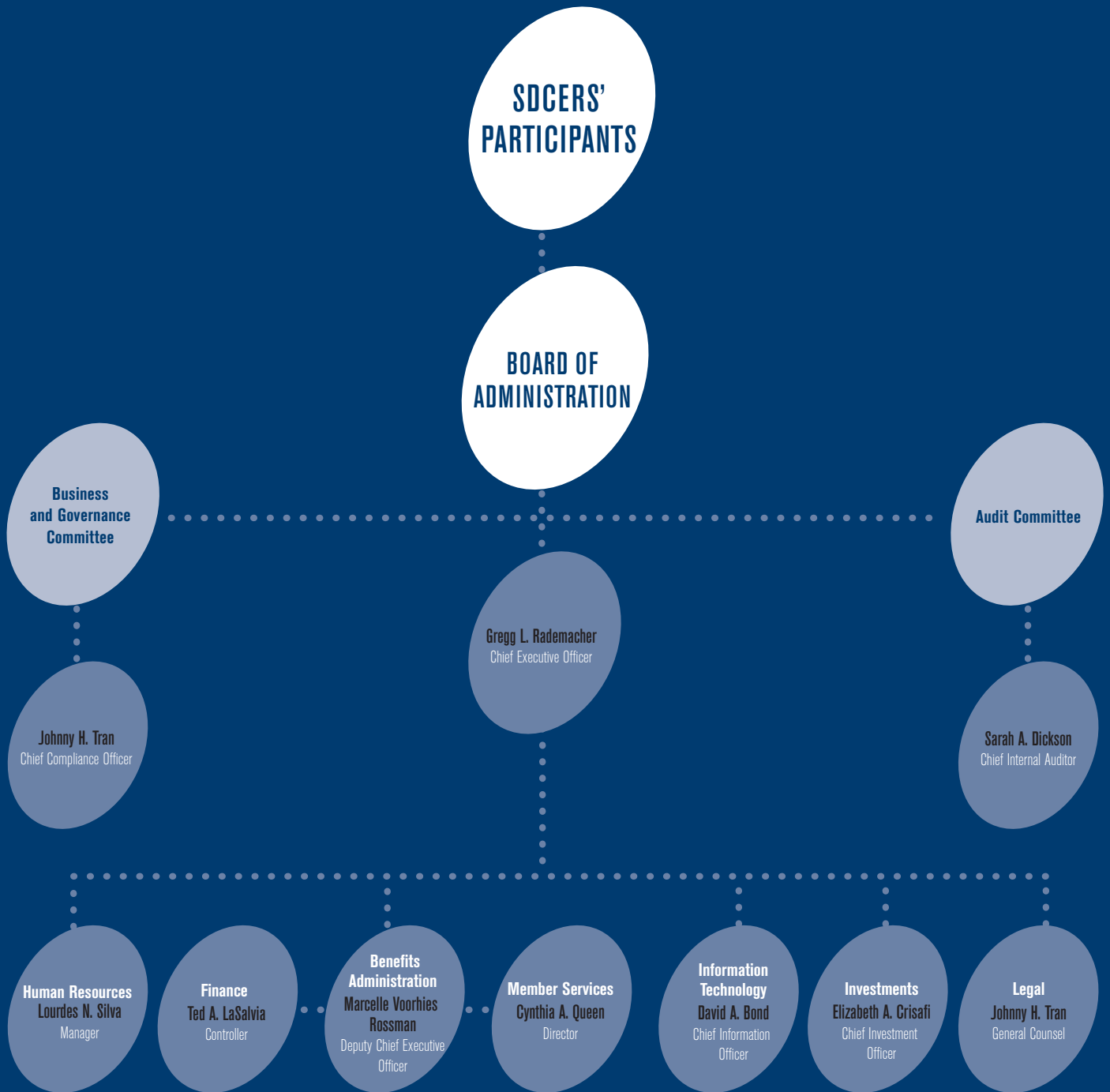
Disability Committee

Charles F. Hogquist (Chair) Valentine S. Hoy Michael H. McBride Thanasi K. Preovolos Jeffery J. Wallace	Responsible for reviewing staff recommendations on disability applications and making recommendations to the Board, recommending to the Board final decisions on hearing officer findings with regard to disability retirement applications, and making recommendations for changes to the disability retirement process.
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Investment Committee

Carol Broad (Chair) Thomas P. Battaglia Carina E. Coleman William W. Haynor George C. Kenney	Responsible for monitoring investment performance, hiring and terminating investment managers and consultants, and recommending changes to the Investment Policy Statement.
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**San Diego City Employees' Retirement System
Organization Chart
As of June 30, 2018**



San Diego City Employees' Retirement System
Professional Services
As of June 30, 2018

Actuary Cheiron McLean, VA	
Consulting and Professional Services	
Atos IT Solutions Sugarland, TX	Marsh & McLennan San Diego, CA
CGI Technologies Fairfax, VA	Hewlett Packard Los Angeles, CA
Kimble and Associates (KUMA) Bristow, VA	Sagitec Solutions, LLC Little Canada, MN
Custodian State Street Bank & Trust Company Sacramento, CA	
Independent Auditor Macias Gini & O'Connell LLP Certified Public Accountants San Diego, CA	
Investment Consultant Aon Hewitt Chicago, IL	
Real Estate Consultant Aon Hewitt Chicago, IL	
Private Equity and Infrastructure Consultants	
GCM Grosvenor Private Markets New York, NY	StepStone Group LLC San Diego, CA

SDCERS' medical and legal service providers are identified in Other Supplemental Information in the Financial Section. SDCERS provides a listing of investment managers and a schedule of commissions in the Investment Section on pages 77 and 81, respectively.

FINANCIAL 2





Certified
Public
Accountants

Independent Auditor's Report

To the Board of Administration of the
San Diego City Employees' Retirement System
San Diego, California

Report on the Financial Statements

We have audited the accompanying financial statements of the San Diego City Employees' Retirement System (the System), a fiduciary component unit of the City of San Diego, as of and for the fiscal year ended June 30, 2018, and the related notes to the financial statements, which collectively comprise the System's basic financial statements as listed in the table of contents.

Management's Responsibility for the Financial Statements

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

Auditor's Responsibility

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

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

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

Opinion

In our opinion, the financial statements referred to above present fairly, in all material respects, the plan net position and the assets and liabilities of the agency funds of the San Diego City Employees' Retirement System, as of June 30, 2018, and the changes in the plan net position for the fiscal year then ended in accordance with accounting principles generally accepted in the United States of America.

Emphasis of Matters

As discussed in Note 4 to the basic financial statements, based on the actuarial valuations as of June 30, 2017, rolled forward to June 30, 2018, the total pension liabilities for the City of San Diego, the San Diego Unified Port District, and the San Diego County Regional Airport Authority exceeded the plans' net position by \$2.6 billion, \$130.3 million, and \$18.4 million, respectively. The actuarial valuations are very sensitive to the underlying actuarial assumptions, including a discount rate of 6.5 percent, which represents the long-term expected rate of return.

Our opinion is not modified with respect to these matters.

Other Matters***Prior-Year Comparative Information***

The financial statements include partial prior-year comparative information. Such information does not include all of the information required to constitute a presentation in conformity with accounting principles generally accepted in the United States of America. Accordingly, such information should be read in conjunction with the System's financial statements for the fiscal year ended June 30, 2017, from which such partial information was derived.

We have previously audited the System's 2017 financial statements, and we expressed an unmodified audit opinion on the financial statements in our report dated November 22, 2017. In our opinion, the partial comparative information presented herein as of and for the fiscal year ended June 30, 2017, is consistent, in all material respects, with the audited financial statements from which it has been derived.

Required Supplementary Information

Accounting principles generally accepted in the United States of America require that management's discussion and analysis, the schedules of changes in net pension liability (asset) and related ratios, schedules of plan sponsor contributions, and schedule of investment returns, as listed in the table of contents, be presented to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

Other Information

Our audit was conducted for the purpose of forming an opinion on the financial statements that collectively comprise the System's basic financial statements. The introductory section, the other supplemental information in the financial section, and the investment, actuarial and statistical sections, as listed in the table of contents, are presented for purposes of additional analysis and are not a required part of the basic financial statements.

The other supplemental information is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the basic financial statements. Such information has been subjected to the auditing procedures applied in the audit of the basic financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the basic financial statements or to the basic financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the other supplemental information is fairly stated, in all material respects, in relation to the basic financial statements as a whole.

The introductory, investment, actuarial, and statistical sections have not been subjected to the auditing procedures applied in the audit of the basic financial statements and, accordingly, we do not express an opinion or provide any assurance on them.

Other Reporting Required by *Government Auditing Standards*

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

A handwritten signature in black ink that reads "Macias Gini & O'Connell LLP". The signature is written in a cursive, professional style.

San Diego, California
November 21, 2018

Management's Discussion and Analysis (Unaudited)

Management's Discussion and Analysis (MD&A) provides an overview and analysis of the San Diego City Employees' Retirement System's (SDCERS) financial condition as of and for the fiscal year ended June 30, 2018 (FY 2018), with results also compared to the fiscal year ended June 30, 2017 (FY 2017). The MD&A should be read in conjunction with the Letter of Transmittal in the introductory section and the basic financial statements that immediately follow the MD&A.

SDCERS' funding objective is to meet long-term benefit obligations through plan sponsor and member contributions and earnings on invested assets. SDCERS has three plan sponsors: the City of San Diego (City), the San Diego Unified Port District (Port) and the San Diego County Regional Airport Authority (Airport).

SDCERS' Board of Administration (Board) adopted a Declaration of Group Trust, effective July 1, 2007. The Internal Revenue Service (IRS) issued a favorable determination letter with respect to the Group Trust on September 10, 2009. Under the Group Trust, the City, Port and Airport plans are treated as separate plans, with assets of each pooled for investment purposes only. For FY 2018, the financial statements for each plan sponsor are presented in separate columns in the basic financial statements as required for retirement systems that administer more than one plan. In addition, management's discussion and analysis compares financial information between FY 2018 and FY 2017 for the total of all three plans.

Financial Highlights

As of June 30, 2018, the SDCERS Group Trust had \$8.075 billion in total net position restricted for the payment of pension benefits compared to total net position of \$7.569 billion at June 30, 2017. This represents an increase of \$506.4 million from FY 2017. Operationally, the FY 2018 plan net position increase of \$506.4 million reflects plan sponsor and member contributions of \$413.2 million, Deferred Retirement Option Plan (DROP) member and sponsor contributions of \$5.5 million, and net investment earnings of \$644.2 million, offset by payments of \$556.5 million for benefits, refunds, administrative expenses, and DROP interest.

For FY 2018, total contributions plus net investment gains resulted in total additions of \$1.063 billion to the Group Trust net position, a decrease of \$214.5 million or 16.8% from FY 2017 total additions of \$1.277 billion. A decrease in net investment earnings of \$283.8 million was the primary factor in the decrease over the prior fiscal year.

Deductions for benefits and expenses from Group Trust net position for FY 2018 totaled \$556.5 million, a \$39.9 million or 7.7% increase compared to FY 2017 deductions of \$516.6 million. An increase in the total number of retirees and DROP participants in FY 2018 and annual cost of living increases were the primary factors for the increase.

The June 30, 2016 actuarial valuation for each plan sponsor determined the actuarially determined contribution amounts for FY 2018. Actuarial valuations are performed for each plan sponsor annually as of June 30th and are presented to the Board for approval. Economic assumptions are reviewed annually by SDCERS' actuary and presented to the Board for review and if necessary, approval.

Financial Highlights (continued)

An indicator of funding status is the ratio of the Plan Net Position to the Total Pension Liability (TPL). The Net Pension Liability (NPL) is the liability of the plan sponsors to plan members for retirement benefits provided through the individual pension plans. Changes in actuarial assumptions can significantly impact the TPL and NPL, and performance in the stock and bond markets can substantially impact the fair value of assets and the Plan Net Position.

The NPL for the City, Port and Airport as of June 30, 2018 is \$2.614 billion, \$130.3 million and \$18.4 million, respectively. The Plan Net Position as a percentage of the TPL for the City, Port and Airport is 74.0%, 77.3% and 91.0%, respectively.

Historical trend information concerning the changes in NPL, employer contributions, and investment returns are presented as Required Supplementary Information in the Schedules of Changes in Net Pension Liability (Asset) and Related Ratios, Schedules of Plan Sponsor Contributions, and Schedule of Investment Returns with associated actuarial methods and assumptions located in the Notes to Required Supplementary Information. Additional information is presented in Note 5. *Contributions*, and in the Actuarial Section. The Actuarial Valuations can be found online at www.sdcers.org.

As discussed in Note 8. *Legal Actions*, SDCERS is involved in litigation matters. SDCERS' management does not believe that the outcome of these matters will have a material adverse impact on SDCERS' financial condition.

A San Diego voter-approved ballot initiative closed the current City defined benefit plan to non-Police Members hired on or after July 20, 2012. Additionally, SDCERS has implemented the California Public Employees' Pension Reform Act of 2013 (PEPRA) affecting the Port and Airport retirement plans. PEPRA was effective January 1, 2013.

In January 2015, the SDCERS Board voted to add an explicit administrative expense assumption for funding purposes and phase in the impact over three years beginning with the June 30, 2014 actuarial valuations for each plan sponsor. The June 30, 2016 valuation reflects the final year phase-in of expected administrative expenses.

At its November 13, 2015 meeting for funding purposes, SDCERS' Board voted to reduce the discount rate and wage inflation assumptions by 0.25% over a two-year period. The discount rate was reduced from 7.25% to 7.125% for the June 30, 2015 actuarial valuation, and to 7.0% for the June 30, 2016 actuarial valuation. The wage inflation rate was reduced from 3.3% to 3.175% for the 2015 actuarial valuation and 3.05% for the 2016 actuarial valuation.

At its September 8, 2017 meeting for funding purposes, SDCERS' Board voted to reduce the discount rate by 0.25% from 7.00% to 6.75% for the June 30, 2017 actuarial valuation. SDCERS' Board also voted to reduce the discount rate by 0.25% from 6.75% to 6.50% for the June 30, 2018 actuarial valuation, and that future change to an economic actuarial assumption was reviewed and approved at the September 14, 2018 Board meeting with other economic assumptions.

Overview of the Financial Statements

SDCERS' financial statements, notes to the financial statements, and supplementary information are comprised of the following six items:

1. Statement of Plan Net Position,
2. Statement of Changes in Plan Net Position,
3. Statement of Fiduciary Net Position – Agency Funds,
4. Notes to the Basic Financial Statements,
5. Required Supplementary Information, and
6. Other Supplemental Information.

The **Statement of Plan Net Position** presents the major categories of assets and liabilities and their related values for the Group Trust. It presents the assets available for future payments of benefits to retirees and beneficiaries and current liabilities that are owed as of June 30, 2018, with comparative totals as of June 30, 2017. As of July 1, 2007, the City, Port and Airport plans were separated into independent, qualified, single employer governmental defined benefit plans and trusts. Accordingly, the interests of each plan and trust are accounted for separately in the Statement of Plan Net Position.

The **Statement of Changes in Plan Net Position** provides an income statement presentation of annual additions to and deductions from Group Trust plan position for FY 2018, with comparative totals for FY 2017. The FY 2018 Statement of Changes in Plan Net Position also presents separate reporting for the City, Port and Airport, consistent with the Statement of Plan Net Position.

The **Statement of Fiduciary Net Position – Agency Funds** is a presentation of assets and liabilities for the Agency Funds as of June 30, 2018. It discloses the assets available to cover future payments to members eligible for Preservation of Benefit distributions and City Retiree Health costs. It also reflects liabilities owed.

The **Notes to the Basic Financial Statements** provide additional information essential to a full understanding of the data presented in the audited financial statements. This section provides a quantitative and qualitative basis for assessing SDCERS' financial condition and the changes in its net position. Note 1. *Summary of Significant Accounting Policies* provides information on the assumptions and methods used in the presentation of SDCERS' financial statements. It also provides the basis for accounting treatment of stated values under accounting principles generally accepted in the United States of America (U.S. GAAP) that are unique to a public employee retirement system.

The **Required Supplementary Information (RSI)** is an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. The Schedules of Changes in Net Pension Liability (Asset) and Related Ratios provide information on the sources of changes in the NPL for each Plan Sponsor. The schedules also provide information about the components of the NPL and related ratios, including the pension plan's fiduciary net position as a percentage of the TPL, and the NPL as a percentage of covered payroll. The RSI also presents Schedules of Plan Sponsor Contributions and a Schedule of Investment Returns.

The **Other Supplemental Information** includes a Schedule of Administrative Expenses, a Schedule of Investment Expenses, a Schedule of Payments to Consultants and a Statement of Changes in Assets and Liabilities – Agency Funds.

SDCERS' management is responsible for the accuracy, completeness and fair presentation of this information and all disclosures in accordance with U.S. GAAP.

Financial Analysis

Tables 1 and 2 summarize and compare SDCERS' plan net position and the changes in plan net position for the current and prior fiscal year for the Group Trust.

The Group Trust's total plan net position held in trust for the payment of defined benefit pension benefits as of June 30, 2018 totaled \$8.075 billion, an increase of \$506.4 million or 6.7% compared to net position of \$7.569 billion as of June 30, 2017. The increase in plan net position primarily resulted from the increase in investments of \$498.7 million resulting from higher investment returns, offset by a decrease in receivables resulting from cash collected from the sale of investments at year-end. The increase in securities lending collateral is offset by the increase in securities lending obligations and results from increased securities lending activity at year end. The total plan net position is available to meet SDCERS' ongoing retirement and disability payment obligations to retirees and beneficiaries. A comparative summary is presented in Table 1 below.

Table 1: Condensed Plan Net Position (Dollars in Thousands)

	2018	2017	Percentage Change
Cash and Cash Equivalents	\$290,147	\$142,365	103.8%
Receivables	181,881	286,466	-36.5
Investments, at Fair Value	8,083,419	7,584,715	6.6
Securities Lending Collateral	171,321	85,207	101.1
Capital Assets plus Prepaid Expenses	5,145	5,847	-12.0
Total Assets	\$8,731,913	\$8,104,600	7.7%
Current Liabilities	\$473,615	\$438,909	7.9%
Supplemental Benefits Payable	11,788	11,716	0.6
Securities Lending Obligations	171,306	85,217	101.1
Total Liabilities	\$656,709	\$535,842	22.6%
Plan Net Position	\$8,075,204	\$7,568,758	6.7%

Reserves

Pension plans establish reserves for various anticipated liabilities. SDCERS' reserves have been established to account for employer and employee contributions, the accumulation of current retired member expected benefits and other items.

The largest reserve balance is for accumulated benefits payable to retired SDCERS members. This comprises approximately 46.7% of plan net position (\$3.772 billion reserved for current retired members out of \$8.075 billion in plan net position) as of June 30, 2018. A complete listing of SDCERS' reserves and corresponding balances for FY 2018 are presented in Note 6. *Reserve Balances*.

Current Year Results

Key elements of FY 2018 results and year-over-year comparisons are summarized below.

Additions to Plan Net Position, necessary to pay current retirement benefits and accrue for future retirement benefits, are accumulated from plan sponsor and member contributions and the earnings on invested assets (net of investment management fees and related expenses). For FY 2018, contributions and investment gains combined to provide total additions of \$1.063 billion, a decrease of \$214.5 million over FY 2017 total additions of \$1.277 billion. The FY 2018 decrease is attributable to a lower return on assets; offset by an increase in the plan sponsors Actuarially Determined Contribution (ADC) resulting from net changes to economic assumptions.

Deductions from Plan Net Position reflect SDCERS' administration of lifetime retirement annuities, survivor benefits, DROP benefits, and permanent disability benefits. The costs of these programs include one-time and recurring pension benefit payments and refunds of contributions to terminated members. Deductions for FY 2018 were \$556.5 million, an increase of \$39.9 million compared to FY 2017 deductions of \$516.6 million. The increase results from the growth in the number of retired members.

A comparative summary of additions and deductions is presented in Table 2 below.

Table 2: Condensed Changes in Plan Net Position (Dollars in Thousands)

	2018	2017	Percentage Change
Additions:			
Plan Sponsor Contributions	\$351,337	\$283,039	24.1%
Member Contributions and Other Contributions	61,853	60,864	1.6
DROP Contributions	5,521	5,523	0.0
Net Investment Earnings	644,214	927,997	-30.6
Total Additions	\$1,062,925	\$1,277,423	-16.8%
Deductions:			
Benefit Payments	\$516,216	\$475,100	8.7%
Refund of Member Contributions	5,676	6,371	-10.9
Administrative Expenses	11,579	11,768	-1.6
DROP Interest Expense	23,008	23,328	-1.4
Total Deductions	\$556,479	\$516,567	7.7%
Changes in Plan Net Position	506,446	760,856	-33.4
Beginning Plan Net Position	7,568,758	6,807,902	11.2
Ending Plan Net Position	\$8,075,204	\$7,568,758	6.7%

FY 2018 plan sponsor contributions totaled \$351.3 million, an increase of \$68.3 million or 24.1% compared to contributions of \$283.0 million in FY 2017. The total of the ADC for all three plan sponsors in FY 2018 was higher than the ADC in FY 2017 as a result of the net changes in economic assumptions as detailed in the June 30, 2016 actuarial valuations. For further information about plan sponsor contributions, see Note 5. *Contributions* in the Notes to the Basic Financial Statements and the Schedules of Plan Sponsor Contributions in the Required Supplementary Information.

FY 2018 member contributions and member contributions paid by plan sponsors totaled \$61.9 million, an increase of \$1.0 million, or 1.6%, compared to contributions of \$60.9 million in FY 2017. The slight increase resulted from an increase in member contribution rates and Purchase Service Credit (PSC) purchases which totaled \$5.1 million for FY 2018 compared to \$4.8 million in FY 2017.

Financial Section

In FY 2018, net investment earnings totaled \$644.2 million, a decrease of \$283.8 million or 30.6% from FY 2017 investment returns of \$928.0 million due to comparatively lower investment returns. For FY 2018 net appreciation of \$390.2 million in the equity portfolio, \$77.2 million in the real estate portfolio, \$127.7 million in the private equity and infrastructure portfolio and \$85.4 million in dividend, interest and other investment income were the major components of investment earnings. Investment expenses increased \$2.9 million to \$38.2 million as compared to \$35.3 million in FY 2017.

A report on SDCERS' investment activity prepared by Aon Hewitt, SDCERS' investment consultant, is included in the Investment Section. This report provides commentary on specific asset class investment returns, index returns and peer group performance. The Investment Section also includes information about SDCERS' FY 2018 long-term investment performance.

SDCERS' one-year investment return as of June 30, 2018 was 8.4%, net of investment management fees on a money-weighted rate of return basis and 8.2% on a time-weighted rate of return. According to Aon Hewitt, SDCERS' annualized time-weighted total investment returns for three, five and ten years were 7.5%, 8.4% and 6.9%, respectively. These returns rank in the 17th, 25th, and 29th percentiles in our peer group of public pension plans, and SDCERS outperformed its investment benchmarks for each of the respective time periods.

In FY 2018, member benefit payments totaled \$516.2 million, an increase of \$41.1 million or 8.7% from FY 2017's payments of \$475.1 million. A 2.8% increase in the total number of retirees in FY 2018 and annual cost of living increases were the primary cause for the increased payments.

Analysis of Balances and Results by Plan Sponsor

Tables 3 and 4 summarize and compare SDCERS' financial results for the current and prior fiscal year by plan sponsor.

Table 3: Condensed Plan Net Position by Sponsor (Dollars in Thousands)

	As of June 30, 2018			As of June 30, 2017		
	City	Port	Airport	City	Port	Airport
Cash and Cash Equivalents	\$215,564	\$31,172	\$43,411	\$90,897	\$20,059	\$31,409
Receivables	168,868	9,714	3,299	265,330	15,541	5,595
Investments, at Fair Value	7,506,544	428,086	148,789	7,045,912	400,782	138,021
Securities Lending Collateral	158,009	9,438	3,874	78,710	4,662	1,835
Capital Assets plus Prepaid Expenses	4,778	279	88	5,418	320	109
Total Assets	\$8,053,763	\$478,689	\$199,461	\$7,486,267	\$441,364	\$176,969
Current Liabilities	\$439,427	\$25,156	\$9,032	\$407,325	\$23,292	\$8,292
Supplemental Benefits Payable	11,449	285	54	11,385	285	46
Securities Lending Obligations	157,998	9,436	3,872	78,723	4,661	1,833
Total Liabilities	\$608,874	\$34,877	\$12,958	\$497,433	\$28,238	\$10,171
Plan Net Position	\$7,444,889	\$443,812	\$186,503	\$6,988,834	\$413,126	\$166,798

The City plan net position of \$7.445 billion at June 30, 2018 increased \$456.1 million or 6.5% from \$6.989 billion at June 30, 2017. The increase for FY 2018 is the result of an increase in total assets of \$567.5 million, offset by an increase in total liabilities of \$111.4 million. The increase in assets was primarily due to the increase in the fair value of investments of \$460.6 million, cash and cash equivalents of \$124.7 million and securities lending collateral of \$79.3 million, offset by a decrease in receivables resulting from cash collected from the sale of investments at year-end of \$96.5 million and capital assets plus prepaid expenses of \$0.6 million. The increase in liabilities resulted from increased securities lending obligations of \$79.3 million due to increased securities lending activity and increased current liabilities of \$32.1 million related to the purchases of investments. Year-over-year changes in other assets or liabilities were not significant.

The Port plan net position of \$443.8 million at June 30, 2018 increased \$30.7 million or 7.4% from \$413.1 million at June 30, 2017. Similar to the City, the increase for FY 2018 is the result of an increase in total assets of \$37.3 million, offset by an increase in total liabilities of \$6.6 million. The increase in assets resulted from an increased investments portfolio of \$27.3 million, cash and equivalents of \$11.1 million, and securities lending collateral of \$4.8 million, offset by a decrease in receivables of \$5.8 million related to collected investment sales. The increase in liabilities was due to increased current liabilities of \$1.8 million resulting from the purchases of investments and securities lending obligations of \$4.8 million. Year-over-year changes in other assets or liabilities were not significant.

The Airport plan net position of \$186.5 million at June 30, 2018 increased \$19.7 million or 11.8% from \$166.8 million at June 30, 2017. The increase for FY 2018 reflects an increase in total assets of \$22.5 million, offset by an increase in total liabilities of \$2.8 million. The Airport plan is younger than the City and Port plans and has a higher funded ratio combined with lower retirement benefit payments at this time; hence, the higher percentage increase in plan net position. The growth in assets resulted from an increase in cash and cash equivalents of \$12.0 million, investment value of \$10.8 million, and securities lending collateral of \$2.0 million, offset by a decrease in receivables of \$2.3 million due to decreased year-end investment sales. The decrease in liabilities reflects increased current liabilities of \$0.8 million related to the purchase of investments and increased securities lending obligations of \$2.0 million. Year-over-year changes in other assets or liabilities were not significant.

Financial Section

Table 4: Condensed Changes in Plan Net Position by Sponsor (Dollars in Thousands)

	For The Fiscal Year Ended June 30, 2018			For The Fiscal Year Ended June 30, 2017		
	City	Port	Airport	City	Port	Airport
Additions:						
Plan Sponsor Contributions	\$326,372	\$17,718	\$7,247	\$263,000	\$14,618	\$5,421
Member Contributions and Other Contributions	55,387	3,374	3,092	54,478	3,456	2,930
DROP Contributions	5,099	279	143	5,145	258	120
Net Investment Earnings	594,845	35,333	14,036	857,922	50,594	19,481
Total Additions	\$981,703	\$56,704	\$24,518	\$1,180,545	\$68,926	\$27,952
Deductions:						
Benefit Payments	\$487,311	\$24,685	\$4,220	\$448,136	\$22,474	\$4,490
Refunds of Member Contributions	5,305	178	193	6,109	131	131
Administrative Expenses	10,570	659	350	10,778	666	324
DROP Interest Expense	22,462	496	50	22,794	485	49
Total Deductions	\$525,648	\$26,018	\$4,813	\$487,817	\$23,756	\$4,994
Changes in Plan Net Position	456,055	30,686	19,705	692,728	45,170	22,958
Beginning Plan Net Position	6,988,834	413,126	166,798	6,296,106	367,956	143,840
Ending Plan Net Position	\$7,444,889	\$443,812	\$186,503	\$6,988,834	\$413,126	\$166,798

The City plan net position increased \$456.1 million in FY 2018 compared to an increase of \$692.7 million in FY 2017, as FY 2018 total additions decreased \$198.8 million or 16.8% over FY 2017. Net investment earnings of \$594.8 million, reflecting a decrease of \$263.1 million over FY 2017 due to lower investment returns, accounted for most of the decrease. Plan sponsor contributions in FY 2018 were up \$63.4 million or 24.1% over FY 2017 resulting from an increased ADC payment, and member contributions in FY 2018 were slightly higher by \$0.9 million or 1.7% from FY 2017 due to increased member contribution rates that were offset by a decrease in the number of active members.

Total City deductions of \$525.6 million increased \$37.8 million or 7.8% in FY 2018. Benefit payments of \$487.3 million increased \$39.2 million or 8.7% primarily due to an increased number of retirees and cost of living adjustments. Year-over-year changes in other deduction line items were not material.

The Port plan net position increased \$30.7 million in FY 2018, as total additions of \$56.7 million decreased \$12.2 million or 17.7% from FY 2017. Net investment earnings were \$35.3 million, a decrease of \$15.3 million in FY 2018 due to lower investment returns compared to net investment earnings of \$50.6 million in FY 2017. Total Port deductions were \$26.0 million in FY 2018, an increase of \$2.3 million over FY 2017. The increase resulted from increased benefit payments due to an increase in the number of retirees.

The Airport plan net position increased \$19.7 million in FY 2018, as total additions of \$24.5 million decreased \$3.4 million or 12.3% from FY 2017. Net investment earnings of \$14.0 million decreased \$5.4 million as a result of lower investment returns compared to FY 2017.

Total Airport deductions were \$4.8 million in FY 2018, a decrease of \$0.2 million from FY 2017 reflecting an increase in benefit payments of \$0.7 million due to an increase in the number of retirees, offset by a decrease in DROP payments of \$0.9 million in FY 2018. Year-over-year changes in other deduction line items were not material.

Other Information

Proposition B: Amendments to the San Diego City Charter Affecting Retirement Benefits

The San Diego voter-approved ballot initiative “Comprehensive Pension Reform” (Proposition B) became effective July 20, 2012. This law closed the current City defined benefit plan to non-Police Members initially hired on or after July 20, 2012, and was replaced with a defined contribution (DC) plan for non-Police Members hired after that date. The City administers the DC plan through a third-party.

Proposition B is the subject of ongoing litigation for the City. In August 2018, the California Supreme Court found that a violation of meet and confer labor laws occurred in connection with the passage of Proposition B and sent the case back to the Court of Appeal to address the appropriate remedy. The June 30, 2017 actuarial valuation (the latest available at this time) assumes the validity of Proposition B and has been fully implemented by SDCERS.

Requests For Information

This Financial Report is designed to provide a general overview of SDCERS finances. Questions concerning any of the information provided in this report or requests for additional financial information should be addressed to: SDCERS, Finance Department, 401 West A Street, Suite 400, San Diego, CA, 92101, or by calling 800-774-4977.

Financial Section

San Diego City Employees' Retirement System

Statement of Plan Net Position

As of June 30, 2018 (with Comparative Totals as of June 30, 2017)

(Dollars in Thousands)

	2018				2017
	City	Port	Airport	Total	Total
ASSETS					
Cash and Cash Equivalents					
Cash on Deposit with Wells Fargo Bank	\$1,268	\$121	\$184	\$1,573	\$1,790
Cash and Cash Equivalents on Deposit with Custodial Bank and Fiscal Agents	214,296	31,051	43,227	288,574	140,575
Total Cash and Cash Equivalents	215,564	31,172	43,411	290,147	142,365
Receivables					
Member - Purchased Service Contracts	780	89	-	869	1,456
Plan Sponsor and Member Contributions	2,107	221	68	2,396	2,323
Investment Income Receivable	7,865	434	140	8,439	7,242
Securities Sold	158,116	8,970	3,091	170,177	275,445
Total Receivables	168,868	9,714	3,299	181,881	286,466
Investments, at Fair Value					
Domestic Fixed Income Securities	1,898,282	107,934	37,488	2,043,704	1,866,969
International Fixed Income Securities	521,541	30,013	10,574	562,128	517,206
Domestic Equity Securities	1,671,653	94,731	32,590	1,798,974	1,621,472
International Equity Securities	1,210,041	68,673	23,515	1,302,229	1,276,588
Global Equity Securities	367,001	20,950	6,982	394,933	383,547
Real Estate	777,915	44,403	15,558	837,876	779,441
Private Equity and Infrastructure	1,060,111	61,382	22,082	1,143,575	1,139,492
Total Investments	7,506,544	428,086	148,789	8,083,419	7,584,715
Securities Lending Collateral	158,009	9,438	3,874	171,321	85,207
Total Investments Including Securities Lending Collateral	7,664,553	437,524	152,663	8,254,740	7,669,922
Prepaid Expenses	175	10	2	187	233
Capital Assets at Cost, Net of Accumulated					
Depreciation of \$4,429	4,603	269	86	4,958	5,614
TOTAL ASSETS	\$8,053,763	\$478,689	\$199,461	\$8,731,913	\$8,104,600
LIABILITIES					
Accounts Payable and Other Liabilities	\$1,400	\$75	\$36	\$1,511	\$1,797
Accrued Investment Fees	2,806	154	43	3,003	4,536
Accrued Wages and Benefits	614	39	19	672	936
Supplemental Benefits Payable	11,449	285	54	11,788	11,716
Securities Purchased	434,607	24,888	8,934	468,429	431,640
Securities Lending Obligations for Cash Collateral	157,998	9,436	3,872	171,306	85,217
TOTAL LIABILITIES	\$608,874	\$34,877	\$12,958	\$656,709	\$535,842
NET POSITION RESTRICTED FOR PENSION BENEFITS	\$7,444,889	\$443,812	\$186,503	\$8,075,204	\$7,568,758

The accompanying notes are an integral part of these financial statements.

San Diego City Employees' Retirement System

Statement of Changes in Plan Net Position

For the Fiscal Year Ended June 30, 2018 (with Comparative Totals for the Fiscal Year Ended June 30, 2017)

(Dollars in Thousands)

	2018				2017
	City	Port	Airport	Total	Total
ADDITIONS					
Contributions					
Plan Sponsor	\$326,372	\$17,718	\$7,247	\$351,337	\$283,039
Members Portion Paid by Plan Sponsor	126	2,113	1,574	3,813	3,942
Members	50,238	1,302	1,372	52,912	51,988
Members for Purchased Service	4,961	(51)	146	5,056	4,833
Earned Interest on Purchased Service Installment Contracts	62	10	-	72	101
DROP Contributions	5,099	279	143	5,521	5,523
Total Contributions	386,858	21,371	10,482	418,711	349,426
Investment Earnings					
Net Appreciation in Fair Value of Investments					
Equity Securities	360,460	21,364	8,394	390,218	592,123
Fixed Income Securities	1,841	94	14	1,949	53,113
Real Estate	71,246	4,246	1,715	77,207	64,746
Private Equity and Infrastructure	117,770	7,041	2,881	127,692	173,300
Security Lending	23	1	1	25	220
Total Net Appreciation in Fair Value of Investments	551,340	32,746	13,005	597,091	883,502
Dividend Income	28,977	1,723	687	31,387	30,625
Interest Income	32,949	1,959	781	35,689	32,939
Real Estate Income	8,542	508	202	9,252	6,903
Private Equity and Infrastructure Income	7,087	422	168	7,677	6,812
Other Income	354	20	8	382	1,401
Securities Lending Income					
Gross Earnings	3,183	189	76	3,448	2,039
Less: Borrower Rebates and Bank Charges	(2,270)	(135)	(54)	(2,459)	(876)
Net Securities Lending Income	913	54	22	989	1,163
Total Investment Income	630,162	37,432	14,873	682,467	963,345
Investment Expenses	(35,317)	(2,099)	(837)	(38,253)	(35,348)
Net Investment Income	594,845	35,333	14,036	644,214	927,997
TOTAL ADDITIONS	\$981,703	\$56,704	\$24,518	\$1,062,925	\$1,277,423
DEDUCTIONS					
Benefit Payments					
Monthly Retirement and Disability Allowances	\$404,431	\$22,444	\$3,857	\$430,732	\$403,553
DROP Payments	70,717	1,900	304	72,921	59,073
13th Check	6,423	284	57	6,764	6,630
Corbett Benefits	5,023	-	-	5,023	5,090
Death Benefits	717	57	2	776	754
Total Benefit Payments	487,311	24,685	4,220	516,216	475,100
Refund of Member Contributions	5,305	178	193	5,676	6,371
Administrative Expenses	10,570	659	350	11,579	11,768
DROP Interest Expense	22,462	496	50	23,008	23,328
TOTAL DEDUCTIONS	\$525,648	\$26,018	\$4,813	\$556,479	\$516,567
INCREASE IN NET POSITION	456,055	30,686	19,705	506,446	760,856
NET POSITION RESTRICTED FOR PENSION BENEFITS AT JULY 1					
	6,988,834	413,126	166,798	7,568,758	6,807,902
NET POSITION RESTRICTED FOR PENSION BENEFITS AT JUNE 30					
	\$7,444,889	\$443,812	\$186,503	\$8,075,204	\$7,568,758

The accompanying notes are an integral part of these financial statements.

**San Diego City Employees' Retirement System
Statement of of Fiduciary Net Position - Agency Funds**

As of June 30, 2018

(Dollars in Thousands)

ASSETS	<u>Total</u>
Cash and Cash Equivalents	<u>\$ 55</u>
TOTAL ASSETS	<u>\$ 55</u>
LIABILITIES	
Accounts Payable	\$ 9
Sundry Trust Liability	<u>46</u>
TOTAL LIABILITIES	<u>\$ 55</u>
NET POSITION	<u>\$ -</u>

The accompanying notes are an integral part of these financial statements.

San Diego City Employees' Retirement System Notes to the Basic Financial Statements June 30, 2018

1. Summary of Significant Accounting Policies

Basis of Accounting

SDCERS' financial statements have been prepared in conformity with accounting principles generally accepted in the United States of America (U.S. GAAP). The Governmental Accounting Standards Board (GASB) is the accepted standard setting body for establishing governmental accounting and financial reporting principles. GASB Statement No. 67, *Financial Reporting for Pension Plans, an amendment of GASB Statement No. 25*, establishes financial reporting standards for defined benefit pension plans.

SDCERS is considered part of the City's financial reporting entity, and SDCERS' financial statements are included in the City's Comprehensive Annual Financial Report as a fiduciary component unit and reported as a pension trust fund in its fiduciary funds. Separate financial statements are presented for the retirement system and agency funds, which are excluded from the retirement system's group trust.

SDCERS' financial statements are prepared using the accrual basis of accounting, and accounted for on the flow of economic resources measurement focus. Member contributions are recognized in the period in which they are due. Plan sponsor contributions are recognized when received or due pursuant to legal requirements. Benefits and refunds are recognized when currently due and payable in accordance with SDCERS' Group Trust Agreement. SDCERS' investments are stated at fair value. Investment income is recognized in accordance with GASB Statement No. 67 and is stated net of investment management fees and related expenses. Agency funds do not have a measurement focus and thus, report only assets and liabilities. However, agency funds use the accrual basis of accounting when recognizing receivables and payables.

The Board of Administration (Board) adopted a Declaration of Group Trust, effective July 1, 2007, to fulfill requirements in the City Charter and Municipal Code that the assets of each SDCERS Plan be used to pay benefits and expenses relating only to that Plan. Under the Group Trust, the City of San Diego (City), San Diego Unified Port District (Port) and San Diego County Regional Airport Authority (Airport) plans are legally treated as separate defined benefit (DB) plans. Under a group trust the assets of one employer's plan are not legally available to pay benefits under any other employer's plan if one or more of the employers become insolvent. Assets of each sponsor's plan are pooled for investment purposes only. The financial statements for each plan sponsor are presented in separate columns in the basic financial statements as required for retirement systems that administer more than one plan.

SDCERS acts as agent for the City, Airport and Port Preservation of Benefit (POB) Plans and for the City Post-Employment Healthcare Benefit Plan (HCB Plan). The agency fund accounts for assets held by SDCERS in an agent capacity on behalf of the City, Port and Airport. The agency funds are custodial in nature and do not measure the results of operations. In October 2008, the IRS issued three Private Letter Rulings approving the three POB Plans and confirming that each plan is a qualified governmental excess benefit arrangement under Internal Revenue Code (IRC) Section 415(m), established to pay promised benefits to retirees and beneficiaries of the DB plans that exceed the IRC Section 415(b) limits. The California Public Employees' Pension Reform Act of 2013 (PEPRA) permits public employers to provide replacement benefit plans to employees first hired under an existing plan prior to January 1, 2013.

Receivables

SDCERS' receivables reflect accrued plan sponsor and member contributions due to SDCERS pursuant to legal requirements and member contributions for executed purchase of service credit contracts where payment is pending, net of an allowance for contract cancellations. See Note 5. *Contributions*.

Securities sold represent a receivable of cash under trade date accounting. Cash is received as of the transaction settlement date, which is typically trade date plus one to three business days.

San Diego City Employees' Retirement System
Notes to the Basic Financial Statements (continued)
June 30, 2018

Investments

The Board has the authority to delegate investment management duties to outside advisors, to seek the advice of outside investment counsel and to provide oversight and monitoring of the investment managers it hires. Additional discretion beyond the City Charter is provided for under the California State Constitution and other relevant authorities whereby the Board may, at its discretion, invest funds in any form or type of investment, financial instrument or financial transaction.

Investments are presented at fair value, and are classified by investment manager classification. SDCERS' investment managers manage all investments, which are held in SDCERS' name and stated at fair value in the accompanying Statement of Plan Net Position. SDCERS' custodial bank, State Street Bank and Trust Company (State Street), provides the fair values of exchange traded assets (fixed income, equity and certain real estate investments).

Through its agents, SDCERS also holds investments in non-publicly traded institutional investment funds, which are measured at fair value using the net asset value (NAV) per share or its equivalent. These institutional investment funds are comprised of exchange traded securities, the fair values of which are provided by the respective investment managers. Real estate assets are stated at appraised values as determined by SDCERS' real estate managers and third-party appraisal firms. Private equity and infrastructure assets are measured at fair value using NAV per share or its equivalent by their respective investment managers giving consideration to the financial condition and operating results of the portfolio companies, and other factors deemed relevant. These fair values are reviewed by SDCERS' investments staff and their real estate, private equity and infrastructure consultants. Where fair value information as of June 30, 2018 was not available at the time of these financial statements, SDCERS has estimated fair value by using the most recent fair value information available from the fund manager/general partner and adding any contributions and/or deducting any distributions to/from the investment from the date of the most recent fair value information to June 30, 2018.

Capital Assets

Purchased capital assets are recorded at historical cost. SDCERS capitalizes assets with an estimated useful life in excess of one year and which meet or exceed a capitalization threshold of \$5,000. Assets are depreciated using the straight-line method over the following useful lives:

Office Furniture and Fixtures	7-15 years
Computer Hardware and Software	3-10 years

The cost and accumulated depreciation of capital assets is as follows (Dollars in Thousands):

	June 30, 2017	Additions	Deletions & Transfers	June 30, 2018
Capital Assets Not Being Depreciated:				
Construction in Progress	\$151	\$160	\$289	\$22
Total Capital Assets Not Being Depreciated	151	160	289	22
Capital Assets Being Depreciated:				
Office Furniture and Fixtures	433	-	85	348
Computer Hardware and Software	9,373	289	645	9,017
Total Capital Assets Being Depreciated	9,806	289	730	9,365
Less Accumulated Depreciation:				
Office Furniture and Fixtures	(313)	(23)	85	(251)
Computer Hardware and Software	(4,030)	(793)	645	(4,178)
Total Accumulated Depreciation	(4,343)	(816)	730	(4,429)
Total Capital Assets Being Depreciated, Net	5,463	(527)	-	4,936
Capital Assets at Cost, Net of Accumulated Depreciation	\$5,614	\$(367)	\$289	\$4,958

San Diego City Employees' Retirement System
Notes to the Basic Financial Statements (continued)
June 30, 2018

Liabilities

Liabilities reflect financial obligations of SDCERS as of June 30, including the repayment of securities lending cash collateral at a future date. Securities purchased represent a payable of cash that is required under trade date accounting to settle pending purchases on a settlement date basis, which is typically trade date plus one to three business days.

Certain supplemental benefits payable to City retired members commonly known as the 13th Check and the Corbett settlement are contingent on the realization of sufficient investment earnings as established under San Diego Municipal Code Sections 24.1501 through 24.1503.5 and are measured as of June 30th of each fiscal year. Port and Airport retired members are also eligible to receive the 13th Check supplemental benefit subject to the same contingency on the realization of sufficient investment earnings as established under the relevant sections of the plan sponsor plan documents. In years in which sufficient earnings are not realized, the 13th Check and the Corbett benefits are not paid. The Corbett benefit is carried forward and paid in future years when sufficient earnings are realized and is accrued yearly. The 13th Check does not carry forward to future years and is accrued only in fiscal years when there are sufficient realized earnings as established in the Municipal Code or relevant section of the plan sponsor plan documents to pay the benefit. Unpaid balances as of the end of the fiscal year are reported as Supplemental Benefits Payable in the Statement of Plan Net Position.

Expenses

SDCERS' administrative expenses, which include actuarial services and other operational costs, are financed by contributions from plan sponsors. Investment expenses, which include fees for investment management, custodial bank services and other investment operational costs, are financed by investment earnings and contributions from plan sponsors. Both types of expenses are reflected as reductions in plan net position.

Income Taxes

Under Internal Revenue Code Section 401(a) and California Revenue and Taxation Code Section 23701, SDCERS' Group Trust and the three separate defined benefit plans participating in the Group Trust are exempt from federal and state income taxes. Accordingly, no provision for income taxes is made in the financial statements. While a determination letter is not required for a defined benefit plan to be tax-qualified, it confirms SDCERS' status as a qualified governmental pension plan.

Use of Estimates

The preparation of SDCERS' financial statements in conformity with U.S. GAAP requires SDCERS' management to make estimates and assumptions that affect the reported amounts of net position restricted for pension benefits as of the date of the financial statements. These estimates also affect the actuarial information included in the footnotes and the Required Supplementary Information as of the valuation date, the changes in plan net position during the reporting period and, when applicable, disclosures of contingent assets and liabilities at the date of the financial statements. Actual results could differ from those estimates.

Future GASB Pronouncements

GASB Statement No. 84

In January 2017, GASB issued Statement No. 84, *Fiduciary Activities* to improve guidance regarding the identification of fiduciary activities for accounting and financial reporting purposes and how those activities should be reported. The statement establishes criteria for identifying fiduciary activities of all state and local governments. The focus of the criteria generally is on (1) whether a government is controlling the assets of the fiduciary activity and (2) the beneficiaries with whom a fiduciary relationship exists. Separate criteria are included to identify fiduciary component units and postemployment benefit arrangements that are fiduciary activities. Funds currently reported as agency funds will be reported as a new type of fiduciary fund – custodial funds. This statement will become effective in FY 2020.

GASB Statement No. 87

In June 2017, GASB issued Statement No. 87, *Leases* to improve accounting and financial reporting of leases by

San Diego City Employees' Retirement System
Notes to the Basic Financial Statements (continued)
June 30, 2018

governments. The statement increases the usefulness of governments' financial statements by requiring recognition of certain lease assets and liabilities for leases that previously were classified as operating leases and recognized as inflows of resources or outflows of resources based on the payment provisions of the contract. It establishes a single model for lease accounting based on the foundational principle that leases are financings of the right to use an underlying asset. Under this statement, a lessee is required to recognize a lease liability and an intangible right-to-use lease asset, and a lessor is required to recognize a lease receivable and a deferred inflow of resources, thereby enhancing the relevance and consistency of information about governments' leasing activities. The statement will become effective in FY 2021.

Comparative Totals

The basic financial statements include certain prior year summarized comparative information in total but not at the level of detail required for a presentation in conformity with U.S. GAAP. Accordingly, such information should be read in conjunction with SDCERS' financial statements as of and for the fiscal year ended June 30, 2017, from which the summarized information was derived.

2. Plan Descriptions

General

SDCERS is governed by a 13-member Board responsible for the administration of retirement benefits for City, Port and Airport members, and for overseeing the investment portfolio of the retirement system's trust fund. The Board is comprised of seven appointed members, four active members, one retired member, and one ex-officio member. As of June 30, 2018, the Board had no vacancies.

SDCERS administers three separate single employer defined benefit pension plans for the City, Port and Airport, and SDCERS provides service retirement, disability retirement, death and survivor benefits to its participants. In addition, the retirement system provides a cost of living adjustment (COLA) benefit to all participants subject to changes in the consumer price index with maximum increases of two-percent per year and a cost of living (COL) annuity to most participants based upon accumulated member cost of living annuity contributions. Employees of the Port became members of SDCERS in 1963. Pursuant to an amendment to the San Diego City Charter in 2002, the Port contracts directly with SDCERS to administer its defined benefit plan. On January 1, 2003, the State of California established the Airport as a separate agency. In 2003, the Airport entered into an agreement with SDCERS to have SDCERS administer its defined benefit plan.

From January 1, 2003 through June 30, 2007, SDCERS administered a qualified multiple-employer defined benefit plan for the City, Port and Airport. However, as of July 1, 2007, the City, Port and Airport plans were separated into independent, qualified, single employer governmental defined benefit plans and trusts. The assets of the three separate plans and trusts were 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.

The City, Port, and Airport approved their respective Participation and Administration Agreements, and in September 2007, the San Diego City Council adopted a necessary enabling resolution approving each Agreement. To confirm the separation of the City, Port and Airport plans, SDCERS filed requests with the IRS for separate determination letters for the Group Trust, City, Port and Airport plans. The Internal Revenue Service issued a favorable determination letter for the Group Trust in September 2009 and updated determination letters for the City in June 2014, for the Port plan and trust in November 2016, and the Airport in September 2014. Effective January 1, 2017, the IRS has phased out its determination letter program for the five-year remedial filing cycle for individually-designed plans.

SDCERS acts as a common, independent investment and administrative agent for the City, Port and Airport, whose plans cover all eligible employees. In a defined benefit plan, pension benefits are actuarially determined by a member's age at retirement, number of years of service credit and final compensation, typically based on the highest salary earned over a one-year or three-year period. Airport and Port Safety members who are participants under

San Diego City Employees' Retirement System

Notes to the Basic Financial Statements (continued)

June 30, 2018

PEPRA are subject to all PEPRA provisions including a pensionable compensation cap. The Port's Miscellaneous plan members are not subject to the PEPRA benefit formula nor the cap on pensionable salary based on the SDCERS actuary certifying that the Miscellaneous plan has a lower normal cost. All other PEPRA provisions apply.

The Port and Airport plans provide for five-year vesting for employees to be eligible to receive pension benefits. Beginning January 1, 2009, new Port non-safety employees do not begin to earn a benefit until their sixth year of employment. The City plan requires ten years of service for its employees to vest for a pension benefit.

Contributions

SDCERS uses actuarial developed methods and assumptions to determine what level of contributions are required to achieve and maintain an appropriate funded status for each plan. The actuarial process uses a funding method that attempts to create a pattern of contributions that is both stable and predictable. The actual employer and member contributions rates in effect each year are based upon actuarial valuations performed by an independent actuary and adopted by the Board annually.

The actuarial valuations for each of the plan sponsors are completed as of June 30th each year. Once accepted by the Board, the approved contribution rates for each plan sponsor apply to the fiscal year beginning 12 months after the valuation date. For FY 2018, the actuarially determined contribution rates for plan sponsors and members were developed in the June 30, 2016 actuarial valuations. SDCERS' Board approved the valuations for the City, Port and Airport on March 10, 2017.

The funding objective of SDCERS is to fully fund the plans' actuarially accrued liabilities with contributions which, over time will remain as a level percent of payroll for the Port, Airport, and Police portion of the City plan and level dollar amounts for the City's non-Police portion of the plan. Under this approach the contribution rate is based on the normal cost rate and an amortization of any unfunded actuarial liability (UAL).

Membership

Except as otherwise noted, all City, Port and Airport employees receiving employment benefits participate in SDCERS. City salaried employees hired on or after August 11, 1993 but before July 20, 2012, became members of SDCERS upon employment, except for elected officials who had the option to join. In June 2012, the San Diego electorate passed Proposition B which amended the City Charter to close entrance to the SDCERS defined benefit plan for all City employees, other than sworn police officers, who are initially hired on or after July 20, 2012. The non-sworn employees initially hired on or after July 20, 2012, are placed in a defined contribution plan administered by the City through a third party. SDCERS does not administer the defined contribution plan.

The Airport and the Port Safety members hired on or after January 1, 2013 are subject to PEPRA. In general, PEPRA reduces the benefit formula, raises the retirement age, applies a three year final compensation period and imposes a cap on pensionable salary. PEPRA prohibits retroactive benefit enhancements, excludes certain types of compensation from pensionable pay and requires that the member pay 50% of the normal cost. For all members employed by the Airport and Port, PEPRA eliminated the purchase of nonqualified service credit or "air time" after January 1, 2013.

On May 17, 2013, the SDCERS Board voted to discontinue the purchase of additional service credit (permissive service) through post-tax payments and post-tax installment payment plans (excluding purchases of grandfathered service credit made by grandfathered members). A member who is not a grandfathered member may pay for purchases of service credit after this date by pre-tax funds only, such as: direct transfers from the City Supplemental Pension Savings Plan, 401(k) account, Deferred Compensation account, qualified IRAs, or any other qualified retirement plans. Purchases of service credit still allowed under PEPRA for the Port and the Airport must be made with pre-tax funds. The length of the installment contracts that were established prior to this Board rule change varies, but generally may not exceed the lesser of 15 years or the member's first eligible retirement date.

San Diego City Employees' Retirement System

Notes to the Basic Financial Statements (continued)

June 30, 2018

SDCERS participants consist of retirees (retired members and beneficiaries receiving benefits, and Deferred Retirement Option Plan (DROP) participants) and members (active members and inactive members who will be entitled to benefits but are not yet receiving them).

The following membership table provides information on the number of members by category for each plan sponsor. SDCERS' total number of participants decreased by 59 members in FY 2018, reflecting a net decrease of 478 active and DROP participants and an increase of 419 retirees and inactive members.

As of June 30, 2018

	City General Members	City Safety Members	Port General Members	Port Safety Members	Airport All Members	Total Members
Active	3,899	2,068	244	121	378	6,710
Inactive	2,276	645	229	47	139	3,336
Retirees	5,426	3,470	422	118	101	9,537
DROP Participants	757	371	35	13	27	1,203
Totals	12,358	6,554	930	299	645	20,786

City Post-Employment Healthcare Benefit Plan

SDCERS processes health insurance premium payments and healthcare reimbursement requests pertaining to the City's HCB Plan for eligible retirees. Post-employment healthcare benefits for members retiring from City employment are based on their health eligibility status. SDCERS also coordinates a special healthcare benefit for spouses and dependents of eligible City employees killed in the line of duty. The HCB Plan is reported within the Statement of Fiduciary Net Position – Agency Funds. The HCB Plan activity is reported in the Statement of Changes in Assets and Liabilities – Agency Funds.

Preservation of Benefit (POB) Plan Activity

In 2008, the IRS issued three Private Letter Rulings approving the City, Port and Airport POB Plans and confirming that each plan is a qualified governmental excess benefit arrangement under IRC Section 415(m), established to pay promised benefits to retirees and beneficiaries of the DB Plans that exceed the IRC Section 415(b) limits.

The POB Plans are unfunded within the meaning of the federal tax laws, requiring the plan sponsor to fund the Plans on a pay-as-you-go basis. The plan sponsor retains title to any assets, including cash that they designate to pay POB Plan benefits. Benefits payable from and the costs of administering the POB Plans, as determined by SDCERS and its actuary, are paid by the respective plan sponsor.

The City made monthly payments into the POB Plan in FY 2018 totaling \$1.4 million. A balance of approximately \$14 thousand remained in the fund at June 30, 2018 and will be carried forward to pay the City's FY 2019 POB Plan expenses.

The Port made monthly payments into the POB Plan in FY 2018 totaling \$0.2 million. A balance of approximately two thousand dollars remained in the fund at June 30, 2018 and will be carried forward to pay the Port's FY 2019 POB Plan expenses.

The Airport made monthly payments into the POB Plan in FY 2018 totaling \$56 thousand. A balance of approximately \$24 thousand remained in the fund at June 30, 2018 and will be carried forward to pay the Airport's FY 2019 POB Plan expenses.

POB Plan activity is presented within the Statement of Fiduciary Net Position - Agency Funds, the Statement of Changes in Assets and Liabilities – Agency Funds, and is also included in the City's, Port's and Airports' CAFRs.

3. Deposits and Investments

Cash and Cash Equivalents

At June 30, 2018, SDCERS' cash balance was \$1.6 million. Cash and cash equivalents on deposit with custodial bank and fiscal agents was \$288.6 million, which includes cash collateral for SDCERS' cash overlay program of \$41.7 million

San Diego City Employees' Retirement System
Notes to the Basic Financial Statements (continued)
June 30, 2018

and residual cash held in each manager's portfolio of \$246.9 million, which is invested overnight by SDCERS' custodial bank. SDCERS does not have a target allocation to cash; any cash or cash equivalent balances on deposit are reserved for paying benefits and SDCERS' operational expenses.

Investments

The Board has exclusive authority over the administration and investment of SDCERS' Trust Fund assets pursuant to Section 144 of the Charter of the City and the California State Constitution Article XVI, Section 17.

The Board is authorized to invest in bonds, notes or other obligations, common stock, preferred stock, real estate investments, private equity, infrastructure and pooled vehicles. The risks and correlations of each asset class and investment manager are considered relative to an entire portfolio. Investment policies permit the Board to invest in financial futures contracts provided the contracts do not hedge SDCERS' Trust Fund portfolio. Financial futures contracts are recorded at fair value each day and must be settled at expiration date. Changes in the fair value of the contracts result in the recognition of a gain or loss.

Net investment income includes the net appreciation (depreciation) in the fair value of investments, interest income, dividend income and other income not included in the appreciation (depreciation) in the fair value of investments, less total investment expenses, including investment management and custodial fees and all other significant investment-related costs. SDCERS' net realized gains totaled \$260.5 million for the year ended June 30, 2018. Realized gains and losses are independent of the calculation of net appreciation (depreciation) in the fair value of investments. Unrealized gains and losses on investments sold in the current year that had been held for more than one year were included in the net appreciation (depreciation) in the fair value of investments reported in the prior year and current year. Pursuant to the City, Port and Airport plan documents, realized gains and losses determine whether certain contingent benefits will be paid each fiscal year. Realized gains and losses are reported in the net appreciation (depreciation) in fair value of investments on the financial statements.

SDCERS' policy in regard to the allocation of invested assets is established and may be amended by SDCERS' Board. The asset allocation policy is reviewed and approved on an annual basis. Through its investment objectives and policies, the Board emphasizes generating a rate of return above inflation and the preservation of capital. Investments are made only after the risk/reward trade-offs are evaluated. SDCERS' assets are managed on a total return basis, which takes into consideration both investment income and capital appreciation. While SDCERS recognizes the importance of the preservation of capital, it also adheres to the principle that varying degrees of investment risk are generally rewarded with compensating returns.

The following was SDCERS' adopted asset allocation policy as of June 30, 2018:

ASSET CLASS	TARGET ALLOCATION
Domestic Equity	18.0%
International Equity	15.0
Global Equity	8.0
Domestic Fixed Income	22.0
Emerging Market Debt	5.0
Real Estate	11.0
Private Equity and Infrastructure	13.0
Opportunity Fund	8.0
Total	100.0%

For the fiscal year ended June 30, 2018, the annual money-weighted rate of return on pension plan investments, net of pension plan investment expense was 8.4%. The money-weighted rate of return expresses investment performance, net of investment expense, adjusted for the changing amounts actually invested.

San Diego City Employees' Retirement System
Notes to the Basic Financial Statements (continued)
June 30, 2018

Fair Value Measurements

SDCERS categorizes fair value measurements within the fair value hierarchy established by U.S. GAAP set forth in GASB Statement No. 72, *Fair Value Measurement and Application*. The hierarchy is based on the valuation inputs used to measure the fair value of the asset and give the highest priority to unadjusted quoted prices in active markets for identical assets or liabilities (Level 1 measurements) and the lowest priority to unobservable inputs (Level 3 measurements).

Level 1 Unadjusted quoted prices for identical instruments in active markets.

Level 2 Quoted prices for similar instruments in active markets; quoted prices for identical or similar instruments in markets that are not active; and model-derived valuations in which all significant inputs are observable.

Level 3 Valuations derived from valuation techniques in which significant inputs are unobservable.

Investments that are measured at fair value using the net asset value (NAV) per share (or its equivalent) as a practical expedient are not classified in the fair value hierarchy.

Where inputs used to measure fair value fall into different fair value levels, fair value measurements are categorized based on the lowest level input that is significant to the valuation. SDCERS' assessment of the significance of particular inputs to these fair value measurements requires judgment and considers factors specific to each asset or liability. The table on pages 35 and 36 shows the fair value leveling of the investments for the retirement system.

Short-term securities generally include investments in money market-type securities reported at cost plus accrued interest.

Equity securities classified in Level 1 are valued using prices quoted in active markets for those securities.

Debt and fixed income derivative securities classified in Level 2 are valued using either a bid evaluation or a matrix pricing technique. Bid evaluations may include market quotations, yields, maturities, call features and ratings. Matrix pricing is used to value securities based on the securities' relationship to benchmark quoted prices. Index linked fixed income securities are valued by multiplying the external market price by the applicable day's Index Ratio. Level 2 fixed income securities have non-proprietary information that was readily available to market participants, from multiple independent sources, which are known to be actively involved in the market. Equity and equity derivative securities classified in Level 2 are securities whose values are derived daily from associated traded securities.

Real estate assets classified in Level 3 are real estate investments generally valued using an income approach or appraisal approach by SDCERS' real estate managers and third-party appraisal firms. SDCERS' policy is to obtain an external appraisal a minimum of every three years for properties or portfolios for which the pension system has some degree of control or discretion. Appraisals are performed by an independent appraiser with preference for Member Appraisal Institute (MAI) designated appraisers. The appraisals are performed using generally accepted valuation approaches applicable to the property type.

San Diego City Employees' Retirement System
Notes to the Basic Financial Statements (continued)
Investments and Derivative Instruments Measured at Fair Value
As of June 30, 2018
(Dollars in Thousands)

	Fair Value Measures Using			
	Fair Value	Quoted Prices in Active Markets for Identical Assets Level 1	Significant Other Observable Inputs Level 2	Significant Unobservable Inputs Level 3
Investments by Fair Value Level				
Short-Term Securities	\$ (245)	\$ -	\$ (245)	\$ -
Fixed Income Securities				
Asset-Backed Securities	48,079	-	48,079	-
Commercial Mortgage-Backed Securities	20,310	-	20,310	-
Collateralized Mortgage Obligations	43,470	-	43,470	-
Corporates	473,047	-	473,047	-
Government & Agency Obligations	259,463	-	259,463	-
Mortgage Backed Securities	363,084	-	363,084	-
Total Fixed Income Securities	1,207,453	-	1,207,453	-
Equity Securities				
Consumer Discretionary	119,671	119,671	-	-
Consumer Staples	48,259	48,259	-	-
Energy	80,096	80,096	-	-
Financials	148,022	148,022	-	-
Healthcare	172,126	172,126	-	-
Industrials	64,700	64,700	-	-
Information Technology	137,210	137,210	-	-
Materials	22,248	22,248	-	-
Real Estate Investment Trust	11,010	11,010	-	-
Telecommunication Services	19,868	19,868	-	-
Utilities	14,066	14,066	-	-
Total Equity Securities	837,276	837,276	-	-
Real Estate	146,299	-	-	146,299
Total Investments by Fair Value Level	\$2,190,783	\$837,276	\$1,207,208	\$146,299
Investments Measured at the Net Asset Value (NAV)				
Equity Investments				
Commingled Domestic Equity Funds	\$1,409,834			
Commingled International Equity Funds	1,057,339			
Commingled Global Equity Funds	191,586			
Total Equity Investments Measured at the NAV	2,658,759			
Fixed Income Investments				
Commingled Domestic Fixed Income Funds	833,911			
Commingled International Fixed Income Funds	561,704			
Total Fixed Income Investments Measured at the NAV	1,395,615			
Real Estate Investments				
Real Estate Limited Partnerships	197,185			
Commingled Real Estate Funds	494,392			
Total Real Estate Investments Measured at the NAV	691,577			
Private Equity & Infrastructure Investments				
Commingled Private Equity & Infrastructure Funds	1,143,575			
Invested Securities Lending Collateral				
Commingled Equity Securities	22,449			
Commingled Fixed Income Securities	148,872			
Total Invested Securities Lending Collateral Measured at the NAV	171,321			
Total Investments Measured at the NAV	6,060,847			
Total Investments Measured at Fair Value¹	\$8,251,630			

San Diego City Employees' Retirement System**Notes to the Basic Financial Statements** (continued)**Investments and Derivative Instruments Measured at Fair Value (Continued)****As of June 30, 2018**

(Dollars in Thousands)

	Fair Value Measures Using			
	Fair Value	Quoted Prices in Active Markets for Identical Assets Level 1	Significant Other Observable Inputs Level 2	Significant Unobservable Inputs Level 3
Investment Derivative Instruments				
Fixed Income Securities				
Credit Default Swaps	\$192	\$ -	\$192	\$ -
Foreign Currency Forwards	1,153	-	1,153	-
Interest Rate Swaps	1,786	-	1,786	-
Options - Fixed Income	(90)	-	(90)	-
Options - Foreign Currency	-	-	-	-
Options - Futures	(6)	-	(6)	-
Total Fixed Income Derivative Securities	3,035	-	3,035	-
Equity Securities				
Rights	139	-	139	-
Total Investment Derivative Instruments¹	\$3,174	\$-	\$3,174	\$ -

¹ Total investments measured at fair value plus total investment derivatives differs from the total investments including securities lending collateral on the Statement of Plan Net Position because of investment receivables and payables unrealized gains and losses. Total investments measured at fair value excludes \$64 thousand of unrealized losses as of June 30, 2018.

Investments Measured at the NAV**As of June 30, 2018**

(Dollars in Thousands)

	Fair Value	Unfunded Commitments	Redemption Frequency (if Currently Eligible)	Redemption Notice Period
Equity Investments				
Commingled Domestic Equity Funds	\$1,409,834	\$ -	Daily	0-5 Days
Commingled International Equity Funds	1,057,339	-	Daily, Monthly	0-30 Days
Commingled Global Equity Funds	191,586	-	Daily	None
Total Equity Investments Measured at the NAV	2,658,759	-		
Fixed Income Investments				
Commingled Domestic Fixed Income Funds	833,911	-	Daily	None
Commingled International Fixed Income Funds	561,704	63,721	Daily	0-5 Days
Total Fixed Income Investments Measured at the NAV	1,395,615	63,721		
Real Estate Investments				
Real Estate Limited Partnerships	197,185	208,001	Not Eligible	N/A
Commingled Real Estate Funds	494,392	93,052	Monthly	None
Total Real Estate Investments Measured at the NAV	691,577	301,053		
Private Equity & Infrastructure Investments				
Commingled Private Equity & Infrastructure Funds	1,143,575	796,665	Not Eligible	N/A
Invested Securities Lending Collateral				
Commingled Equity Securities	22,449	-	Daily	3 Days
Commingled Fixed Income Securities	148,872	-	Daily	3 Days
Total Invested Securities Lending Collateral	171,321	-		
Total Investments Measured at the NAV	\$6,060,847	\$1,161,439		

San Diego City Employees' Retirement System
Notes to the Basic Financial Statements (continued)
June 30, 2018

The valuation method for investments measured at the NAV per share (or its equivalent) is presented on the preceding table on page 36 and in the following paragraphs:

Equity Investments

Commingled Domestic Equity Funds consist of a large cap passive index fund, a large cap growth passive index fund, a small cap growth passive index fund, a fund that invests in U.S. small cap value equities, and an options trading strategy blended with passive index fund. The Commingled International Equity Funds consist of broad international equity passive index funds with exposure to both developed and emerging markets, two funds that invest in emerging market equities, and two funds that invest in international small cap equities. The Commingled Global Equity Funds consist of two funds that invest in both international and U.S. equities. The fair values of the investments in these types have been determined using the NAV per share (or its equivalent).

Fixed Income Investments

The Commingled Domestic Fixed Income Funds consist of three funds that invest in domestic fixed income securities and one broad based domestic fixed income passive index fund. The Commingled International Fixed Income Funds consist of three emerging market debt funds and two funds that invest in global credit strategies. The fair values of the investments in these types have been determined using the NAV per share (or its equivalent).

Real Estate Investments

The Commingled Real Estate Funds consist of seven open-ended commingled funds and 26 real estate limited partnerships that are invested in apartments, retail, industrial and office assets throughout the United States, Europe and Asia. Although the open-ended commingled funds are private investments, they can be redeemed on a monthly basis, subject to available liquidity, and the fair value of these investments has been determined using the NAV per share (or its equivalent). Investments in the limited partnerships can never be redeemed with the funds. Instead, the nature of these investment funds is that distributions from each investment will be received as the underlying investments are liquidated. Because it is not probable that any individual investment will be sold, the fair value of SDCERS' ownership interest in partner's capital has been determined using the NAV per share (or its equivalent).

Private Equity and Infrastructure Investments

The Commingled Private Equity and Infrastructure Funds consist of two limited partnerships that are managed by two discretionary advisors. Generally, the limited partnerships invest in venture capital, growth equity, buyouts, special situations, mezzanine, and distressed debt. These investments are considered illiquid and cannot be redeemed during the lives of the partnerships. Instead, the nature of these investments is that distributions from each investment will be received as the underlying investments are liquidated. Because it is not probable that any individual investment will be sold, the fair value of SDCERS' ownership interest in partner's capital has been determined using the NAV per share (or its equivalent).

San Diego City Employees' Retirement System
Notes to the Basic Financial Statements (continued)
June 30, 2018

Securities Lending

SDCERS has entered into an agreement with State Street, its custodial bank, to lend domestic and international equity and fixed income securities to broker-dealers and banks in exchange for pledged collateral that will be returned for the same securities plus a fee in the future. All securities loans can be terminated on demand by either the lender or the borrower.

State Street manages SDCERS' securities lending program and receives cash and/or securities as collateral. Borrowers are required to deliver collateral for each loan equal to 102% for domestic loans and 105% for international loans. State Street does not have the ability to pledge or sell collateral securities delivered absent a borrower default. During FY 2018, SDCERS had no credit risk exposure to borrowers because the amounts provided to State Street on behalf of SDCERS, in the form of collateral plus accrued interest, exceeded the amounts broker-dealers and banks owed to State Street on behalf of SDCERS for securities borrowed. In addition, State Street has indemnified SDCERS by agreeing to purchase replacement securities or return cash collateral if a borrower fails to return or pay distributions on a loaned security. SDCERS incurred no losses during the fiscal year resulting from any reported default of the borrowers or State Street. Non-cash collateral (securities and letters of credit) are not reported in SDCERS' financial statements.

When lending its securities on a fully collateralized basis, SDCERS may encounter various risks related to securities lending agreements. These risks include operational risk, borrower or counterparty default risk and collateral reinvestment risk. State Street is required to maintain its securities lending program in compliance with applicable laws of the United States and all countries in which lending activities take place, as well as all rules, regulations and exemptions from time to time promulgated and issued under the authority of those laws.

As of June 30, 2018, securities on loan collateralized by cash had a fair value of \$167.8 million, and SDCERS received cash collateral of \$171.3 million, which was reported as securities lending obligations in the accompanying Statement of Plan Net Position. The collateral value exceeds the fair value of the securities on loan because borrowers are required to deliver collateral for each loan up to 102% for domestic loans and 105% for international loans. As of June 30, 2018, securities on loan collateralized by securities, irrevocable letters of credit or tri-party collateral had a fair value of \$140.5 million, and a collateral value of \$151.0 million, which was not reported as assets or liabilities in the accompanying Statement of Plan Net Position. The total collateral pledged to SDCERS at June 30, 2018 for its securities lending activities was \$322.3 million.

SDCERS and the borrowers maintain the right to terminate securities lending transactions upon notice. The cash collateral received for lent securities is invested by State Street, together with the cash collateral of other qualified tax-exempt plan lenders, in a collective investment fund, or collateral pool. State Street maintains two collateral pools: a liquidity pool and a duration pool. As of June 30, 2018, these collateral pools are not rated by the nationally-recognized statistical rating organizations (NRSROs).

As of June 30, 2018, SDCERS had \$170.5 million invested in the Quality D liquidity collateral pool, which had an average duration of 27.2 days and an average weighted final maturity of 113.7 days; SDCERS had \$0.8 million invested in the Quality D duration pool, which had an average duration of 19.6 days and an average weighted final maturity of 1,666.4 days. Duration is the weighted time average until cash flows are received in the collateral pool, and is measured in days. Alternatively, the weighted average final maturity measures when all final maturities in the portfolio will occur. The duration of the investments made with cash collateral does not generally match the duration of the loans. This is because the loans are terminable at any time by SDCERS or the borrower.

San Diego City Employees' Retirement System
Notes to the Basic Financial Statements (continued)
June 30, 2018

Fixed Income Instruments

SDCERS' investment portfolio includes fixed income strategies to diversify the investment portfolio. The percentage allocated to these strategies is based on information derived from an Asset/Liability Study performed every three years. The returns of fixed income strategies vary less than equity returns. SDCERS' target asset allocation policy is reviewed each year. SDCERS' long-term target allocation to fixed income strategies as of June 30, 2018 was 27%, which includes domestic fixed income and emerging market debt. The fixed income allocation is externally-managed and is comprised as follows: 22% to core domestic fixed income, which is benchmarked against the Barclays Capital Intermediate Aggregate Bond Index; and 5% to emerging market debt, which is benchmarked 40% to JP Morgan Emerging Market Bond Index Global Diversified and 60% to JP Morgan Government Bond Index-Emerging Market Global Diversified. A 2% target allocation to convertible bond securities, which is benchmarked to the Merrill Lynch All Convertibles All Qualities Index, is not included in the fixed income allocation, but instead is included in the domestic equity allocation. However, given that these convertible securities have fixed income attributes, the convertible bond allocation is included in the investment risk disclosures. SDCERS' overall portfolio diversification limits the fixed income invested in the debt security of any one issuer to 10% of the portfolio at the time of the initial commitment, except for U.S. Government obligations (or agencies and instruments of the U.S. Government) to minimize overall market and credit risk.

Credit Risk

Credit risk is the risk that an issuer or other underlying borrower to a debt instrument will not fulfill its obligations. NRSROs assign ratings to measure credit risk. These rating agencies assess a firm's or government's willingness and ability to repay its debt obligations based on many factors.

SDCERS employs two core bond managers that invest primarily in U.S. fixed income and derivative securities, fixed income mutual funds and some non-U.S. fixed income securities. SDCERS also invests in three emerging market debt commingled funds, one passive core fixed income index fund, and two opportunistic global credit funds. The investment management agreements between SDCERS and its two core bond managers contain specific investment guidelines that identify permitted fixed income investments. One of SDCERS' domestic core fixed income managers has limited tactical discretion to invest in non-U.S. fixed income securities.

The permitted securities and derivatives for the two domestic core fixed income managers include U.S. Government and agency obligations, collateralized mortgage obligations, U.S. corporate securities, commercial mortgage backed securities, asset backed securities, futures, forwards, options, interest rate swaps and credit default swaps. Investment guidelines include minimum average portfolio quality of AA- rating (fair value weighted) for SDCERS' domestic fixed income manager and minimum average portfolio quality of A+ for SDCERS' domestic fixed income manager with limited tactical discretion to invest in non-U.S. fixed income securities; and a minimum credit quality at time of purchase of BBB- for the two domestic fixed income managers.

San Diego City Employees' Retirement System
Notes to the Basic Financial Statements (continued)
June 30, 2018

The permitted securities for SDCERS' domestic convertible bond portfolio include convertible bonds, convertible preferred stocks, common stocks (due to forced conversions) and synthetic convertibles. SDCERS' domestic convertible bond portfolio will generally maintain an average quality rating of at least B.

The following table identifies the credit quality of SDCERS' fixed income strategies based on portfolio holdings as of June 30, 2018.

Credit Quality of SDCERS' Fixed Income Strategies
(Domestic & International)
As of June 30, 2018
(Dollars in Thousands)

S&P Quality Rating ⁴	Total Fair Value	Asset-Backed Securities	Commercial Mortgage-Backed Securities	Collateralized Mortgage Obligations	Corporates ¹	Government & Agency Obligations ²	Mortgage Backed Securities	Short-Term/ Other
U.S. Treasuries	\$226,065	\$-	\$-	\$-	\$-	\$226,065	\$-	\$-
GNMA Securities	34,961	-	-	-	-	-	34,961	-
AAA	43,248	20,943	6,580	68	15,657	-	-	-
AA+	340,238	7,810	-	3,308	997	-	328,123	-
AA	6,626	2,372	1,167	445	1,036	1,606	-	-
AA-	20,995	-	894	148	16,537	3,416	-	-
A+	28,768	984	-	1,448	24,842	1,494	-	-
A	40,938	1,313	-	2,135	37,490	-	-	-
A-	41,323	509	885	31	38,907	991	-	-
A-1+	982	982	-	-	-	-	-	-
BBB+	53,489	1,358	-	732	51,328	71	-	-
BBB	54,317	-	-	-	54,317	-	-	-
BBB-	32,187	-	-	-	32,187	-	-	-
BB+	8,559	-	-	-	8,559	-	-	-
BB	314	314	-	-	-	-	-	-
BB-	13,972	-	-	588	10,726	2,658	-	-
B+	9,184	-	-	-	7,568	1,616	-	-
B	2,203	-	-	-	2,203	-	-	-
B-	3,057	-	-	23	3,034	-	-	-
CCC+	6,746	-	-	-	6,746	-	-	-
CCC	1,937	-	-	-	1,937	-	-	-
NR ⁵	1,635,723	11,494	10,784	34,544	158,976	21,546	-	1,398,379 ³
Totals	\$2,605,832	\$48,079	\$20,310	\$43,470	\$473,047	\$259,463	\$363,084	\$1,398,379

¹ Corporate Bonds include convertible bonds from SDCERS' convertible bond manager.

² Includes international and municipal holdings.

³ Includes fixed income mutual fund investments of \$1,395,615. These institutional quality fund investments are not directly rated by major credit rating agencies.

⁴ Credit ratings with qualifiers and ratings outlooks have been combined to show the credit rating as of June 30, 2018

⁵ NR represents those securities that are not rated by one of the NRSROs.

Obligations of the U.S. Government or obligations explicitly guaranteed by the U.S. Government are not considered to have credit risk.

San Diego City Employees' Retirement System
Notes to the Basic Financial Statements (continued)
June 30, 2018

Custodial Credit Risk

Custodial credit risk is the risk that if a financial institution or counterparty fails, SDCERS would not be able to recover the value of its deposits, investments or securities. As of June 30, 2018, 100% of SDCERS' investments were held in SDCERS' name, and SDCERS is not exposed to custodial credit risk related to these investments. SDCERS' uninvested cash balances held in a demand deposit account (DDA) are subject to custodial credit risk. Such a balance or deposit with the bank establishes a debtor-creditor relationship and is not subject to the protection afforded SDCERS' other investments. Cash balances held in Short-Term Investment Funds (STIF) at State Street are held in SDCERS' name and are not subject to custodial credit risk. As of June 30, 2018, SDCERS held \$279.9 million in STIF and a cash balance of \$8.7 million on deposit with the custodial bank. SDCERS does not have a specific policy relating to custodial credit risk because the majority of SDCERS' assets are held in SDCERS' name and are not available to satisfy the obligations of State Street to its creditors.

SDCERS' custodial bank acts as its securities lending agent. SDCERS is exposed to custodial risk for the securities lending collateral such that certain collateral is received in the form of letters of credit, tri-party collateral or securities collateral. The fair value of non-cash collateral totaled \$151.0 million as of June 30, 2018. The non-cash collateral is not held in SDCERS' name and cannot be sold without a borrower default. The cash collateral held by SDCERS' custodian in conjunction with the securities lending program, which totaled \$171.3 million as of June 30, 2018, is also at risk as it is invested in pooled vehicles managed by the custodian. The investment characteristics of the collateral pools are disclosed in the Securities Lending section in this Note.

Concentration of Credit Risk

Concentration of credit risk is the risk of loss attributed to the relative size of an investment in a single issuer. As of June 30, 2018, SDCERS had no single issuer that exceeded 5% of total investments or that exceeded 5% of plan net position (excluding investments issued or explicitly guaranteed by the U.S. Government and investments in mutual funds, external investment pools and other pooled investments). With respect to the concentration of credit risk by issue, SDCERS' Investment Policy Statement states that not more than 10% of the fixed income portfolio shall be invested in the debt security of any one issue at the time of initial commitment, except for U.S. Government and Agency obligations. While SDCERS does not have a general investment policy on the concentration of credit risk by issuer, each manager's specific investment guidelines place limitations on the maximum holdings in any one issuer.

Interest Rate Risk

Interest rate risk is the risk that changes in interest rates will adversely affect the fair value of an investment. Fixed income portfolios use duration to measure how a change in interest rates will affect the value of the portfolio. SDCERS does not have a general investment policy that addresses interest rate risk. Rather, each investment manager's specific investment guidelines place limits on each portfolio to manage interest rate risk.

Convertible bonds are generally less sensitive to changes in interest rates and more sensitive to the profitability of the underlying issuer. Company fundamentals are the overriding factor in the bond's return, while fluctuations in interest rates have significantly less impact.

San Diego City Employees' Retirement System
Notes to the Basic Financial Statements (continued)
June 30, 2018

The following table identifies the durations of SDCERS' domestic and international fixed income strategies based on portfolio holdings:

SDCERS' Fixed Income Portfolios (Domestic & International)
Portfolio Duration Analysis
As of June 30, 2018
(Dollars in Thousands)

Type of Security	Effective Duration (in years)	Fair Value ¹
Asset-Backed Securities		
Asset-Backed Securities	0.33	\$48,079
Commercial Mortgage-Backed Securities		
Commercial Mortgage-Backed Securities	3.41	20,310
Collateralized Mortgage Obligations²		
Collateralized Mortgage Obligations	0.47	43,397
Corporate Bonds³		
Bank Loans	0.09	10,999
Corporate Bonds	2.21	268,407
Government & Agency Obligations⁴		
Municipals	3.26	4,757
Foreign	0.58	28,641
Treasury Securities	4.68	226,065
Mortgage-Backed Securities		
Mortgage-Backed Securities	5.15	363,084
Short-Term/Other⁴		
Cash Equivalents	-	-
Total	3.61	\$1,013,739

¹ Fair Value does not include convertible bonds, mutual funds and derivative instruments of \$1,592,093. These securities do not exhibit interest rate risk and/or duration cannot be calculated.

² Collateralized Mortgage Obligations do not include bonds of \$73 as duration was not available for these securities.

³ Corporates do not include convertible securities of \$193,641.

⁴ Duration could not be calculated for the derivative instruments, short-term instruments and mutual funds of \$1,398,379 within the Short-Term/Other category. Although the duration was not available for these securities, the weighted average maturity was calculated for the mutual funds. The following table depicts the weighted average maturity for the mutual funds.

San Diego City Employees' Retirement System
Notes to the Basic Financial Statements (continued)
June 30, 2018

The following table depicts the weighted average maturity for the commingled mutual funds (Dollars in Thousands):

Name of Institutional Mutual Fund	Fair Value	Weighted Average Maturity (In Years)
BlackRock U.S. Debt NL Fund	\$782,937	5.31
Davidson Kempner Special Opportunities Fund III ¹	35,027	-
Davidson Kempner Special Opportunities Fund IV ¹	4,575	-
GCM WindandSea Fund	154,739	1.90
Investec Emerging Market Debt	126,439	8.87
Metropolitan West Floating Rate	3,662	5.34
Metropolitan West High Yield Bond Fund	3,381	4.31
PIMCO PAPS Short-Term Floating NAV II Portfolio	43,932	0.02
Stone Harbor	128,956	10.27
Wellington Trust Company CIF II Opportunistic	111,967	11.00
Total	\$1,395,615	

¹ This fund is early in its lifecycle and the weighted average maturity is not applicable for the current underlying investments.

Investments Highly Sensitive to Interest Rate Changes

Certain terms in fixed income securities may increase the sensitivity of their fair values to changes in interest rates. The Portfolio Duration Analysis table discloses the degree to which SDCERS' investments are sensitive to interest rate changes due simply to the remaining term to maturity. The total values of securities that are highly sensitive to interest changes due to factors other than term to maturity are shown in the following table:

Investments Highly Sensitive to Interest Rate Changes

As of June 30, 2018

(Dollars in Thousands)

Type of Security	Fair Value	Percent of Fixed Income Portfolio
Adjustable Rate Notes	\$6,537	0.2%
Asset-Backed Securities	10,276	0.4
Floating Rate Notes	132,496	5.1
Range Notes	1,920	0.1
Total	\$151,229	5.8%

Although SDCERS does not have an investment policy that pertains directly to investments that are highly sensitive to interest changes, this risk is mitigated by diversification of issuer, credit quality, maturity and security selection.

San Diego City Employees' Retirement System
Notes to the Basic Financial Statements (continued)
June 30, 2018

Foreign Currency Risk

Foreign currency risk is the risk that changes in exchange rates will adversely affect the fair value of an investment or a deposit. The following table represents securities held in a foreign currency as of June 30, 2018:

Foreign Currency Risk¹
As of June 30, 2018
 (All Values are in U.S. Dollars, in thousands)

Local Currency Name	Cash	Equity	Fixed Income	Total
Argentine Peso	\$79	\$-	\$605	\$684
Australian Dollar	289	10,355	-	10,644
Brazilian Real	-	313	2,658	2,971
British Pound	540	71,830	3,879	76,249
Canadian Dollar	771	4,245	3,373	8,389
Danish Krone	1	5,958	15,657	21,616
Euro Currency	(351)	118,304	8,337	126,290
Hong Kong Dollar	24	19,858	-	19,882
Japanese Yen	833	69,605	16,823	87,261
Malaysian Ringgit	-	702	-	702
Mexican Peso	-	1,021	-	1,021
Norwegian Krone	-	592	-	592
South Korean Won	-	2,288	-	2,288
Swedish Krona	1	4,949	-	4,950
Swiss Franc	-	28,834	-	28,834
Taiwanese Dollar	-	393	-	393
Total	\$2,187	\$339,247	\$51,332	\$392,766

¹ This schedule does not include the foreign currency exposure to three international equity, one global equity, two emerging market equity and two emerging market debt (fixed income) institutional commingled mutual fund investments.

Foreign currency is comprised of international investment proceeds and income to be repatriated into U.S. dollars and funds available to purchase international securities. Foreign currency is not held by SDCERS as an investment. Foreign currency is held temporarily in foreign accounts until it is able to be repatriated or expended to settle trades. An important component of the diversification benefit of non-domestic investments comes from foreign currency exposure. SDCERS does not have a general investment policy in place to manage foreign currency risk or to hedge against fluctuations in foreign currency exposure. Instead, SDCERS' investment managers may hedge currencies at their discretion pursuant to their specific investment guidelines included in each of their investment management agreements.

San Diego City Employees' Retirement System
Notes to the Basic Financial Statements (continued)
June 30, 2018

Derivative Instruments

As of June 30, 2018, the derivative instruments held by SDCERS are considered investments and not hedges for accounting purposes. The gains and losses arising from this activity are recognized in the Statement of Changes in Plan Net Position.

SDCERS' investment managers, as permitted by their specific investment guidelines, may enter into transactions involving derivative financial instruments, consistent with the objectives established by the SDCERS' Investment Policy Statement. These instruments include futures, options, swaps, forwards, warrants and rights. By Board policy, these investments may not be used to leverage SDCERS' portfolio, i.e., use derivatives to increase the portfolio's notional exposure to any given asset class. These instruments are used in an attempt to enhance the portfolio's performance and/or reduce the portfolio's risk.

All investment derivatives discussed below are included in the investment risk discussion, which precedes this section. Investment derivative instruments are disclosed separately to provide a comprehensive and distinct view of this activity and its impact on the overall investment portfolio.

The following table provides a summary of the derivative instruments outstanding as of June 30, 2018:

Investment Derivative Disclosure

(Dollars in Thousands)

Investment Derivative Instruments	Net Appreciation (Depreciation) in Fair Value	Fair Value at June 30, 2018		
	Amount	Classification	Amount	Notional (Dollars)
Credit Default Swaps	\$(32)	Domestic Fixed Income	\$192	\$11,934
Fixed Income Futures	(10,813)	Domestic Fixed Income	-	196,593
Fixed Income Options	(57)	Domestic Fixed Income	(90)	(45,000)
Foreign Currency Futures	242	Domestic Fixed Income	-	-
Foreign Currency Options	103	Domestic Fixed Income	-	-
Futures Options	95	Domestic Fixed Income	(6)	(32)
Foreign Currency Forwards	217	Domestic Fixed Income	1,153	91,147
Index Futures	10,208	Domestic Fixed Income	-	20
Interest Rate Swaps	2,682	Domestic Fixed Income	1,786	180,654
Rights	(11)	Domestic Equity	139	1,285
Total Derivative Instruments	\$2,634		\$3,174	\$436,601

Some derivative instruments, such as credit default swaps and interest rate swaps, are not exchange traded and are priced using quarterly Over-the-Counter trading data.

San Diego City Employees' Retirement System
Notes to the Basic Financial Statements (continued)
June 30, 2018

Futures contracts are financial instruments that derive their value from underlying indices or reference rates and are marked-to-market at the end of each trading day. Daily settlement of gains and losses occur on the following business day. As a result, the futures contracts do not have a fair value as of June 30, 2018. Daily settlement of gains and losses is a risk control measure to limit counterparty credit risk. Futures variation margin amounts are settled each trading day and recognized in the financial statements under net appreciation (depreciation) in fair value of investments as they are incurred.

Foreign currency forward contracts are obligations to buy or sell a currency at a specified exchange rate and quantity on a specific future date. The fair value of the foreign currency forwards is the unrealized gain or loss calculated based on the difference between the specified exchange rate and the closing exchange rate at June 30, 2018.

Counterparty Credit Risk

The following table illustrates the counterparty credit ratings of SDCERS' non-exchange traded investment derivative instruments outstanding and subject to loss:

Counterparty Credit Risk
As of June 30, 2018
(Dollars in Thousands)

Counterparty Name	Fair Value	S&P Rating
Bank of America N.A.	\$402	A+
BNP Paribas SA	34	A
Citibank N.A.	256	A+
Goldman Sachs International	156	BBB+
HSBC Bank USA	5	AA-
JPMorgan Chase Bank N.A.	86	A+
Morgan Stanley Bank N.A.	133	A+
Morgan Stanley CME	267	BBB+
Morgan Stanley ICE	159	BBB+
Morgan Stanley LCH	1,719	BBB+
Royal Bank of Canada	16	AA-
Societe Generale	143	A
Standard Chartered Bank	23	A
Standard Chartered Bank, London	252	A
Toronto Dominion Bank	9	AA-
UBS AG	52	A+
Total	\$3,712	

The aggregate fair value of investment derivative instruments in an asset position subject to counterparty credit risk at June 30, 2018 was \$3.7 million. This represents the maximum loss that would be recognized at the reporting date if all counterparties failed to perform as contracted. At June 30, 2018, SDCERS did not have any significant exposure to counterparty credit risk with any single party. SDCERS does not have any specific policies relating to the posting of collateral or master netting agreements.

San Diego City Employees' Retirement System
Notes to the Basic Financial Statements (continued)
June 30, 2018

Derivative Custodial Credit Risk

At June 30, 2018, all of SDCERS' investments in derivative instruments were held in SDCERS' name and were not exposed to custodial credit risk.

Derivative Interest Rate Risk

At June 30, 2018, SDCERS was exposed to interest rate risk on its investments in interest rate swaps, options and credit default swaps. The table below illustrates the maturity periods of these derivative instruments.

Investment Maturities

(Dollars in Thousands)

Investment Type	Fair Value	Investment Maturities (in years)			
		Less Than 1	1 - 5	6 - 10	More Than 10
Credit Default Swaps	\$192	\$-	\$192	\$-	\$-
Fixed Income Options	(90)	(28)	(62)	-	-
Interest Rate Swaps	1,786	-	257	300	1,229
Total	\$1,888	\$(28)	\$387	\$300	\$1,229

Derivative Instruments Highly Sensitive to Interest Rate Changes

Credit default swaps, fixed income futures, options and interest rate swaps are highly sensitive to changes in interest rates. The table below reflects the fair value and notional amount of these derivative instruments.

Derivative Instruments Highly Sensitive to Interest Rate Changes

As of June 30, 2018

(Dollars in Thousands)

Investment Type	Fair Value	Notional
Credit Default Swaps	\$192	\$11,934
Fixed Income Futures	-	196,593
Fixed Income Options	(90)	(45,000)
Interest Rate Swaps	1,786	180,654
Total	\$1,888	\$344,181

San Diego City Employees' Retirement System
Notes to the Basic Financial Statements (continued)
June 30, 2018

Derivative Foreign Currency Risk

At June 30, 2018, SDCERS was exposed to foreign currency risk on its investments in options, currency forward contracts and interest rate swaps denominated in foreign currencies.

Foreign Currency Risk
(Dollars in Thousands)

Currency Name	Foreign Currency Forwards					Total
	Options/Rights/ Warrants	Net Receivables	Net Payables	Swaps		
Brazilian Real	\$-	\$(42)	\$421	\$-		\$379
Canadian Dollar	-	(26)	68	43		85
Danish Krone	-	1	324	-		325
Euro Currency	139	(3)	54	789		979
Pound Sterling	-	(7)	24	127		144
Japanese Yen	-	(4)	320	(152)		164
Swedish Krona	-	(187)	210	-		23
Subtotal	\$139	\$(268)	\$1,421	\$807		\$2,099
Investments Denominated in USD	(96)	-	-	1,171		1,075
Total	\$43	\$(268)	\$1,421	\$1,978		\$3,174

In addition to the investments listed in the above table, SDCERS has investments in foreign futures contracts with a total notional value of \$(9.9) million and in foreign index futures with a total notional value of \$0.6 million. As indicated previously, futures variation margin amounts are settled each trading day and recognized as realized gains/losses as they are incurred. As a result, the foreign futures contracts have no fair value at June 30, 2018.

Contingent Features

At June 30, 2018, SDCERS did not hold any positions in derivatives containing contingent features.

Real Estate

SDCERS' long-term target allocation to real estate is 11%. In July 2017, the target allocation to real estate was increased to 13% over the next four to five years. The Board has established that the composition of the real estate portfolio is 100% to private real estate investments. The portfolio is diversified with a target of 70% in core real estate and 30% in value-add and opportunistic real estate. No more than 40% of SDCERS' real estate portfolio is allocated to non-U.S. real estate investment opportunities.

Certain real estate investments are leveraged. In those cases, partnerships have been established to purchase properties through a combination of equity contributions from SDCERS, other investors and through the utilization of debt. SDCERS engages real estate advisors and operating partners who are responsible for managing a portfolio's daily activities, performance and reporting. As of June 30, 2018, real estate investments totaled \$837.9 million and unfunded capital commitments totaled \$301.1 million. Pursuant to a policy, SDCERS has established a maximum leverage limit of 50% at the portfolio level. As of June 30, 2018, SDCERS' real estate portfolio had leverage of 30.9%. SDCERS' share of outstanding debt in the real estate portfolio is \$47.4 million, excluding obligations of limited partnership interests in commingled funds. This balance of debt is comprised of all non-recourse loans that currently bear interest at rates ranging from 3.11% to 4.40% and maturity dates that range from February 2019 through June 2023.

San Diego City Employees' Retirement System
Notes to the Basic Financial Statements (continued)
June 30, 2018

The following table illustrates the mortgage loans that SDCERS has outstanding as of June 30, 2018 (Dollars in Thousands):

Fiscal Year Ending June 30	Principal	Interest	Total
2019	\$9,511	\$1,440	\$10,951
2020	6,851	1,189	8,040
2021	-	980	980
2022	-	980	980
2023	31,000	979	31,979
Total	\$47,362	\$5,568	\$52,930

Private Equity and Infrastructure

Private Equity assets are generally defined as direct investments in projects or companies that are privately negotiated and typically do not trade in a capital market. The risk is that these instruments are usually equity interests that are generally illiquid and long-term in nature.

Infrastructure is a subset of Private Equity, defined as permanent essential assets society requires to facilitate the orderly operation of the economy, such as roads, water supply, sewers, power and telecommunications. The risk is that these investments are usually equity interests that are generally illiquid and long-term in nature.

SDCERS' target allocation to private equity and infrastructure is 13%, with a portfolio composition focused on value and current income producing strategies. Unfunded capital commitments as of June 30, 2018 totaled \$796.7 million. As of June 30, 2018, private equity and infrastructure investments totaled \$1.144 billion.

4. Net Pension Liability of Plan Sponsors

The Net Pension Liability (NPL) of Plan Sponsors as of the reporting date are based on the fair value of assets as of June 30, 2018 and the Total Pension Liability (TPL) as of the valuation date, June 30, 2017, with updated actuarial procedures to roll forward to June 30, 2018. There were changes in actuarial assumptions as of the measurement date so the update procedures include the addition of service cost and interest cost offset by actual benefit payments, plus an adjustment due to the assumption change.

The NPL for each of the plan sponsors as of June 30, 2018, is as shown below (Dollars in Thousands):

	City	Port	Airport
Total Pension Liability	\$10,058,408	\$574,103	\$204,876
Plan Net Position	7,444,889	443,812	186,503
Net Pension Liability	\$2,613,519	\$130,291	\$18,373
Plan Net Position as a Percentage of the Total Pension Liability	74.0%	77.3%	91.0%

Actuarial valuations of the plan sponsors involve the use of estimates and assumptions about the probability of events far into the future. Examples include assumptions about future employment, mortality and future salary increases. Actuarial measurements of the total pension liability are subject to revision as actual results are compared with past expectations and new estimates are made about the future.

San Diego City Employees' Retirement System
Notes to the Basic Financial Statements (continued)
June 30, 2018

The membership data, actuarial methods, and plan provisions were based upon the June 30, 2017 actuarial valuations. The actuarial assumptions used in the June 30, 2017 valuations were updated to reflect the results of a reduction in the discount rate by 0.25% from 6.75% to 6.50% for the June 30, 2018 valuation and adopted by SDCERS' Board on September 14, 2018, and the results of an economic experience study performed by the actuary.

A summary of the updated actuarial assumptions as of the June 30, 2017 actuarial valuations, and the economic experience study is shown below.

Actuarial Assumptions

	City	Port	Airport
Valuation date	6/30/2017	6/30/2017	6/30/2017
Actuarial cost method	Entry age normal	Entry age normal	Entry age normal
Actuarial Assumptions:			
Discount Rate	6.50%	6.50%	6.50%
Wage inflation	0.00% for FY16-18, 3.05% thereafter	3.05%	3.05%
Additional merit increase	0.5% - 8.0%	0.5% - 8.0%	0.5% - 5.0%
Cost of living increase	1.90%	1.90%	1.90%

Mortality: Healthy retired members use the California Public Employees' Retirement System (CalPERS) Mortality Tables, projected 20 years from the 2009 base year using a variation of Scale MP-2015, with a 10% increase to healthy retired female rates. Disabled members use the CalPERS Work Related Disability Mortality Table, projected 20 years from the 2009 base year using a variation of Scale MP-2015.

For further information regarding actuarial assumptions and policies, see the Actuarial and Statistical Sections of this CAFR.

Long-Term Expected Rates of Return

Expected return estimates for equity and fixed income are developed using a geometric (long-term compounded) building block approach: 1) expected returns based on observable information in the equity and fixed income markets and consensus estimates for major economic and capital market inputs, such as earnings and inflation, and 2) where necessary, judgment-based modifications are made to these inputs. Return assumptions for other assets classes are based on historical results, current market characteristics, and professional judgment from SDCERS' general investment consultant specialist research teams.

Best estimates of geometric long-term real rates of return and nominal rates of return for each major asset class included in the pension plan's target asset allocation as of June 30, 2018, are summarized in the following table:

San Diego City Employees' Retirement System
Notes to the Basic Financial Statements (continued)
June 30, 2018

Long-Term Expected Real and Nominal Rates of Return
as of June 30, 2018

Asset Class	Long-Term Expected Real Rates of Return	Long-Term Expected Nominal Rates of Return
Domestic Equity	4.1%	6.5%
International Equity	5.1	7.5
Global Equity	4.8	7.2
Domestic Fixed Income	0.7	3.1
Emerging Market Debt	3.1	5.5
Real Estate	3.6	6.0
Private Equity and Infrastructure	6.0	8.4
Opportunity Fund	4.0	6.4

Discount Rate

The discount rate used to measure the total pension liability was 6.50%. The actuarial opinion used to determine the discount rate assumed that the plan members will continue to contribute to SDCERS at the current rates and the plan sponsors will continue their historical practice of contributing to SDCERS based on an actuarially determined contribution, reflecting a payment equal to annual Normal Cost, an amount necessary to amortize the remaining UAL, annual expected administrative expenses, and the amount needed to avoid negative amortization, if any. Adherence to the actuarial funding policy described above will result in the pension plan's projected plan net position being greater than or equal to the benefit payments projected for each future period. Therefore, the discount rate of 6.50% was applied to all periods of projected benefit payments to determine the total pension liability.

Sensitivity of the Net Pension Liability to Changes in the Discount Rate

The following presents the net pension liability of the City, Port and Airport, as of June 30, 2018, calculated using the discount rate of 6.50%, as well as what the net pension liability for each Plan Sponsor would be if it were calculated using a discount rate that is 1-percentage-point lower (5.50%) or 1-percentage-point higher (7.50%) than the current rate (Dollars in Thousands):

	1% Decrease 5.50 %	Discount Rate 6.50%	1% Increase 7.50 %
City's Net Pension Liability	\$3,825,894	\$2,613,519	\$1,616,332
Port's Net Pension Liability	\$202,960	\$130,291	\$70,512
Airport's Net Pension Liability (Asset)	\$47,506	\$18,373	(\$5,546)

San Diego City Employees' Retirement System
Notes to the Basic Financial Statements (continued)
June 30, 2018

5. Contributions

SDCERS uses actuarial developed methods and assumptions to determine what level of contributions are required to achieve and maintain an appropriate funded status for each plan. The actuarial process uses a funding method that attempts to create a pattern of contributions that is both stable and predictable. The actual employer and member contributions rates in effect each year are based upon actuarial valuations performed by an independent actuary and adopted by the Board annually.

The actuarial valuations for each of the plan sponsors are completed as of June 30 of each year. Once accepted by the Board, the approved rates for each plan sponsor apply to the fiscal year beginning 12 months after the valuation date. For FY 2018, the actuarially determined contribution rates for plan sponsors and members were developed in the June 30, 2016 actuarial valuations. SDCERS' Board approved the valuations for the City, Port and Airport on March 10, 2017.

In January 2015, the SDCERS' Board voted to add an explicit administrative expense assumption for funding purposes and phase in the impact over three years beginning with the June 30, 2014 actuarial valuations for each plan sponsor.

The funding objective of SDCERS is to fully fund the plans' actuarial liabilities with contributions which, over time will remain as a level percent of payroll for the Port, Airport, and Police portion of the City plan and level dollar amounts for the City's non-Police portion of the plan. Under this approach the contribution rate is based on the normal cost rate and an amortization of any UAL.

SDCERS' funding policy provides for periodic plan sponsor contributions at actuarially determined amounts designed to accumulate sufficient assets to pay vested benefits to SDCERS' members. Contributions are calculated under the Entry Age Normal (EAN) actuarial funding method, whereby the normal cost rate is computed as the average level percent of pay required to fund the retirement benefits for all members between the dates of hire and assumed dates of retirement.

The difference between the EAN actuarial liability and the actuarial value of assets is the UAL. The UAL as of the June 30, 2017 actuarial valuation, the most recent available is split into multiple tiers, each with a different remaining amortization period. The UAL is amortized by annual payments. The payments are determined as a level percentage of pay, assuming payroll increases of 3.05% per year, for the Police portion of the City plan, the Port and the Airport. The payments for the non-Police portion of the City plan are determined as level dollar amounts.

The City, Port and Airport make annual plan sponsor contributions to SDCERS based upon the Actuarial Determined Contribution (ADC) as determined by SDCERS' actuary.

The complete Actuarial Valuations for the City, Port and Airport are available at www.sdcers.org.

San Diego City Employees' Retirement System
Notes to the Basic Financial Statements (continued)
June 30, 2018

The following table illustrates the required FY 2018 plan sponsors' contribution rates, as a percent of payroll, as calculated annually by SDCERS' actuary, Cheiron:

FY 2018 Contribution Rates

Plan Sponsor Contribution Rates by Member Class, Based on Valuation of:	City (June 30, 2016, Actuarial Valuation)			Total Contribution Rate
	Normal Cost ¹	Amortization Payment ²	Administrative Expenses	
General Old Plan	10.45%	67.15%	2.85%	80.45%
General 2009 Plan	9.60	3.22	0.47	13.29
Elected Officers	28.42	119.39	5.43	153.24
Police Old Plan	15.64	94.78	4.06	114.48
Police 2009 Plan	15.34	5.54	0.77	21.65
Police 2012 Plan	15.43	3.53	0.70	19.66
Police 2012 No COL Plan	15.15	2.18	0.64	17.97
Police Prop B	15.11	0.30	0.57	15.98
Fire Old	15.64	102.58	4.34	122.56
Fire 2012	16.46	1.69	0.66	18.81
Lifeguard	16.51	64.64	2.98	84.13
Lifeguard 2011	16.41	1.02	0.64	18.07
Weighted Total	12.52	63.29	2.79	78.60

Plan Sponsor Contribution Rates by Member Class, Based on Valuation of:	Port (June 30, 2016, Actuarial Valuation)			Total Contribution Rate
	Normal Cost ¹	Amortization Payment ²	Administrative Expenses	
General	12.06%	43.85%	2.57%	58.48%
Miscellaneous	8.58	0.08	0.39	9.05
Executives	12.54	119.67	6.08	138.29
Safety Old	16.21	46.01	2.85	65.07
Safety PEPPA	12.44	0.15	0.58	13.17
Weighted Total	12.83	36.99	2.29	52.11

Plan Sponsor Contribution Rates by Member Class, Based on Valuation of:	Airport (June 30, 2016, Actuarial Valuation)			Total Contribution Rate
	Normal Cost ¹	Amortization Payment ²	Administrative Expenses	
General	13.96%	5.36%	1.33%	20.65%
PEPPA	8.48	0.09	0.59	9.16
Executives	14.58	10.03	1.69	26.30
Weighted Total	12.24	3.85	1.11	17.20

¹Rates assume that contributions are made uniformly during the plan year.

²In years where there is an UAL, in order to avoid "negative amortization" the amortization payment can never be less than full interest on the UAL.

San Diego City Employees' Retirement System
Notes to the Basic Financial Statements (continued)
June 30, 2018

Members are required to contribute a percentage of their annual salary to fund the annuity portion of their individual benefit. Contributions vary according to the member's age at the time of enrollment and member's group (e.g., safety, general, miscellaneous and elected officers).

Member contribution assumptions include an actuarial discount rate of 7.0% and a wage inflation rate of 0.00% through FY 2018 and 3.05% thereafter per year for the City and 3.05% per year for the Port and Airport. These assumptions are reflected in the June 30, 2016 valuation, which impacted contribution rates for members and plan sponsors beginning July 1, 2017.

Member weighted average contribution rates for FY 2018 from the June 30, 2016 actuarial valuations for each member class are shown below. Averages shown apply to salary amounts over \$400 per month in the case of members with social security integrated benefits.

	City	Port	Airport
General Members ¹	9.80%	9.48%	9.73%
Safety Members ²	14.92	13.07	n/a
All Members	11.84	10.77	9.73

¹General Members include Elected Officers, Executives, Miscellaneous and PEPRAs Members, as applicable.

²Safety Members include Police, Fire and Lifeguard Members, as applicable.

All or part of the member's contribution rate may be subject to a reduction for member contributions paid by the employer, as determined through annual meet and confer negotiations between the employers and employee bargaining groups. The rates above (actuarially determined amounts) are shown before any applicable reduction. Except as noted, member contributions paid by the employer and related accumulated interest are not refunded to the members at termination; only a member's actual contributions made plus credited interest are refunded to a member at termination of employment, upon the member's request. Airport executive member contributions paid by the employer are eligible to be refunded to a member at termination of employment. Employer paid contributions for the Port and Airport are for non-PEPRA plans only as PEPRA plans are not eligible for employer paid contributions.

For FY 2018, the City did not have contractual agreements to pay member contributions.

For FY 2018, the Port paid the following portion of members' contributions, stated as a percentage of a member's salary:

For General Members:	6.00% to 7.00%
For Safety Members:	8.80%
For Executive Members:	7.50% to 10.30%

For FY 2018, the Airport paid the following portion of members' contributions, stated as a percentage of a member's salary:

For General Members:	7.00% to 8.50%
For Executive Members:	8.50% plus 100% of the otherwise payable employee contributions amount in excess of 8.50%

San Diego City Employees' Retirement System
Notes to the Basic Financial Statements (continued)
June 30, 2018

SDCERS' members are allowed to purchase certain types of service credit, usually related to periods of missing service credit or missing employee contributions. The San Diego Municipal Code provides that City members may purchase service credit. For Airport members and Port members, their respective plan documents outline the purchase of service credit provisions.

Beginning in 1997, City and Port members became eligible to purchase an additional five years of service credit, in addition to their actual employment service credit. Airport members became eligible to purchase an additional five years of service credit at inception of their Plan on January 1, 2003. The five-year purchase may be applied toward the vesting requirements for the City members, but not for Port or Airport members. The option to purchase an additional five years of service credit was discontinued by the City, Port and Airport for employees hired on or after July 1, 2005, October 1, 2005 and October 3, 2006, respectively. As of January 1, 2013, PEPRA prohibited the purchase of additional service credit or "air time" for Port and Airport members.

On May 17, 2013, the Board discontinued the purchase of additional service credit (permissive service), through post-tax payments and post-tax installment payment plans (excluding grandfathered members making grandfathered purchases). A member who is not a grandfathered member may pay for purchases of service credit after this date by pre-tax funds only, such as: direct transfers from the City's Supplemental Pension Savings Plan, 401(k) account, Deferred Compensation account, qualified IRAs, or any other qualified retirement plan. Purchases of service credit still allowed under PEPRA for the Port and the Airport must be made with pre-tax funds. The length of the installment contracts that were established prior to this Board rule change varies, but generally may not exceed the lesser of 15 years or the member's first eligible retirement date.

As of June 30, 2018, a total of 87 members were making payments on installment contracts. Service credits purchased under an installment contract are not an actuarial liability of SDCERS until the purchase is paid by the member. A receivable for purchased service contracts totaling \$0.9 million, net of an allowance for contract cancellations of \$0.1 million, has been included in the accompanying Statement of Plan Net Position at June 30, 2018.

San Diego City Employees' Retirement System
Notes to the Basic Financial Statements (continued)
June 30, 2018

6. Reserve Balances

The Board establishes reserve accounts based on the advice of its actuary. Annual adjustments to the Trust Fund's reserves are a result of realized investment gains or losses and member and plan sponsor contributions received. These changes are distributed in accordance with the Group Trust.

Reserve balances as of June 30, 2018 (Dollars in Thousands):

Reserve for Current Retired Members	\$3,772,438
Reserve for Member Contributions	1,052,606
Reserve for DROP	582,517
Reserve for Plan Sponsor Contributions	432,050
Reserve for Receivables	870
Reserve for Supplemental COLA	154
Undistributed Earnings Reserve	160,536
Total Reserves¹	\$6,001,171

¹ Total reserves differ from the net position restricted for benefit payments reported in the Statement of Plan Net Position because investments are reported at fair value in the financial statements. The total reserves in this table exclude the accumulated unrealized gains totaling \$2.074 billion as of and for the fiscal year ended June 30, 2018.

Reserve for Current Retired Members. Upon retirement, member contribution balances are transferred from Reserve for Member Contributions to this reserve, along with sufficient funds from the Plan Sponsor Contributions Reserve, to fund the expected present and future cost of benefits for existing retirees.

Reserve for Member Contributions. This represents the accumulated contributions, plus accumulated allocated interest, held on account for all active and inactive members.

Reserve for Deferred Retirement Option Plan (DROP). Balances representing accumulated deferred retirement benefits, plus accumulated allocated interest, held on account for members participating in DROP. DROP accounts receive a member's pension allowance, 3.05% of salary contributed by the DROP member and a 100% matching contribution (3.05%) by the employer, plus interest calculated at the current DROP interest crediting rate, credited quarterly. Reserve for DROP for each Plan Sponsor at June 30, 2018 is as follows (Dollars in Thousands):

	City	Port	Airport	Total
Reserve for DROP	\$558,777	\$19,595	\$4,145	\$582,517

Reserve for Plan Sponsor Contributions. This represents the otherwise unallocated accumulated contributions, plus accumulated allocated interest, of all participating plan sponsors.

Reserve for Receivables. This represents the balance of funds expected to be received in the future consisting mainly of member contributions for purchase of service credit installment contracts and any invoiced contributions.

Reserve for Supplemental COLA. These are funds appropriated by the applicable plan sponsor each year as part of its budget process and transferred to SDCERS to pay the Supplemental COLA Benefit to retirees of that plan sponsor whose effective date of retirement was prior to June 30, 1982, for the rest of their lives and then to their survivors for the remainder of their lives. The benefit is not paid in any month in which the plan sponsor has failed to provide sufficient funds to pay the benefit. System assets are not used to pay this benefit.

Undistributed Earnings Reserve. This represents the balance of earnings remaining after the annual distribution to the member and plan sponsor reserve accounts in accordance with the Board established assumed rate of interest. At the beginning of each fiscal year, any Undistributed Earnings (Losses) from the prior fiscal year are credited to the Reserve for Plan Sponsor Contributions.

San Diego City Employees' Retirement System
Notes to the Basic Financial Statements (continued)
June 30, 2018

7. Lease

Operating Lease

The following is a schedule of future minimum rental payments required under an operating lease entered into by SDCERS that has an initial, non-cancelable lease term in excess of one year as of June 30, 2018:

Year Ending June 30, (Dollars in Thousands)

2019	\$1,023
2020	1,054
2021	1,086
2022	1,118
2023	1,152
Thereafter	96
Total	\$5,529

Rent expense related to the operating lease was \$1.0 million for the year ended June 30, 2018.

8. Legal Actions

SDCERS is subject to legal proceedings and claims which have arisen in the ordinary course of its business and have not been finally adjudicated. These actions, when finally concluded and determined, will not, in the opinion of the management of SDCERS, have a material adverse effect upon SDCERS' financial condition.

Purchase Service Credit (PSC) Litigation

Patrick Lenhart, et al. v. San Diego City Employees' Retirement System, San Diego Superior Court, Case No. 37-2011-00096587-CU-BC-CTL

On August 19, 2011, a complaint was filed against SDCERS on behalf of certain SDCERS "safety members" who are or were City of San Diego employees (or their beneficiaries) who purchased underpriced PSCs between August 15 and November 1, 2003, and whose alleged PSC contracts were thereafter not honored following the Court of Appeal decision of June 7, 2010 in the case *City of San Diego v. San Diego City Employees' Retirement System*, San Diego Superior Court, Case No. 37-2007-0008192-CU-WM-CTL. At trial, the Court ruled in favor of SDCERS and against Plaintiffs and Judgement in favor of SDCERS was entered on July 9, 2018. On or around August 3, 2018, the Plaintiffs appealed. SDCERS believes the lawsuit is without merit and will vigorously defend against the claims. The outcome of this matter is not expected to have a material adverse impact on SDCERS' financial condition.

Agnew, et. al. v. San Diego City Employees' Retirement System, San Diego Superior Court, Case No. 37-2013-00077705-CU-OE-CTL

On November 27, 2013, a complaint was filed by 115 members of SDCERS who are or were employees of the City of San Diego (or their beneficiaries) who purchased underpriced PSCs between August 15 and November 1, 2003, and whose alleged PSCs were thereafter not honored by SDCERS following the Court of Appeal's decision of June 7, 2010 in the case *City of San Diego v. San Diego City Employees' Retirement System*, San Diego Superior Court, Case No. 37-2007-0008192-CU-WM-CTL. Following the Court of Appeal decision in *Lenhart vs. SDCERS*, plaintiffs are pursuing a breach of contract claim. At trial, the Court ruled in favor of SDCERS and against Plaintiffs and Judgement in favor of SDCERS was entered on July 9, 2018. On or around August 3, 2018, the Plaintiffs appealed. SDCERS believes the lawsuit is without merit and will vigorously defend against the claims. The outcome of this matter is not expected to have a material adverse impact on SDCERS' financial condition.

San Diego City Employees' Retirement System
Notes to the Basic Financial Statements (continued)
June 30, 2018

Goodman v. San Diego City Employees' Retirement System, San Diego Superior Court, Case No. 37-2015-00024268-CU-BC-CTL

On July 18, 2016, a complaint was filed by three members who allege SDCERS breached their purchase of service contracts when SDCERS corrected those purchases following the Court of Appeal decision of June 7, 2010, in the case *City of San Diego v. San Diego City Employees' Retirement System*, San Diego Superior Court, Case No. 37-2007-0008192-CU-WM-CTL. The plaintiffs request unspecified damages. At trial, the Court ruled in favor of SDCERS and against Plaintiffs and Judgement in favor of SDCERS was entered on July 9, 2018. On or around August 3, 2018, the Plaintiffs appealed. SDCERS believes the lawsuit is without merit and will vigorously defend against the claims. The outcome of this matter is not expected to have a material adverse impact on SDCERS' financial condition.

Additional information on these matters is available at www.sdcers.org.

San Diego City Employees' Retirement System Required Supplementary Information

City

Schedule of Changes in Net Pension Liability and Related Ratios For the Fiscal Years Ended June 30, (Dollars in Thousands)

	2018	2017	2016	2015	2014 ¹
Total Pension Liability					
Service Cost	\$108,872	\$106,877	\$93,804	\$102,687	\$107,003
Interest	628,499	613,530	573,760	554,988	537,875
Differences Between Expected and Actual Experience	58,618	71,123	21,285	46,416	-
Changes in Assumptions	266,606	249,740	620,314	-	-
Benefit Payments and Refunds of Contributions	(515,078)	(477,039)	(452,781)	(429,238)	(384,980)
Net Change in Total Pension Liability	547,517	564,231	856,382	274,853	259,898
Total Pension Liability - Beginning	9,510,891	8,946,660	8,090,278	7,815,425	7,555,527
Total Pension Liability - Ending	\$10,058,408	\$9,510,891	\$8,946,660	\$8,090,278	\$7,815,425
Plan Net Position					
Contributions - Plan Sponsor ²	\$328,922	\$265,573	\$259,543	\$268,061	\$279,644
Contributions - Member ²	57,936	57,050	59,377	59,042	65,481
Net Investment Income	594,845	857,922	64,155	207,653	935,052
Benefit Payments and Refunds of Contributions	(515,078)	(477,039)	(452,781)	(429,238)	(384,980)
Administrative Expense	(10,570)	(10,778)	(10,901)	(8,693)	(10,467)
Net Change in Plan Net Position	456,055	692,728	(80,607)	96,825	884,730
Plan Net Position - Beginning	6,988,834	6,296,106	6,376,713	6,279,888	5,395,158
Plan Net Position - Ending	\$7,444,889	\$6,988,834	\$6,296,106	\$6,376,713	\$6,279,888
Net Pension Liability - Ending	\$2,613,519	\$2,522,057	\$2,650,554	\$1,713,565	\$1,535,537
Plan Net Position as a Percentage of the Total Pension Liability	74.0%	73.5%	70.4%	78.8%	80.4%
Covered Payroll	\$448,890	\$465,100	\$480,662	\$480,536	\$499,463
Net Pension Liability as a Percentage of Covered Payroll	582.2%	542.3%	551.4%	356.6%	307.4%

¹ Data is not available for years prior to FY 2014.

² Beginning in FY 2017, contributions made by a plan sponsor to satisfy the contribution requirements of a plan member are classified as plan member contributions.

San Diego City Employees' Retirement System Required Supplementary Information (continued)

Port Schedule of Changes in Net Pension Liability and Related Ratios For the Fiscal Years Ended June 30, (Dollars in Thousands)

	2018	2017	2016	2015	2014 ¹
Total Pension Liability					
Service Cost	\$8,551	\$8,113	\$7,648	\$7,969	\$8,388
Interest	35,866	34,526	32,102	30,611	29,357
Differences Between Expected and Actual Experience	(590)	4,460	(2,244)	4,572	-
Changes in Assumptions	16,022	15,009	35,813	-	-
Benefit Payments and Refunds of Contributions	(25,359)	(23,090)	(23,110)	(21,775)	(18,763)
Net Change in Total Pension Liability	34,490	39,018	50,209	21,377	18,982
Total Pension Liability - Beginning	539,613	500,595	450,386	429,009	410,027
Total Pension Liability - Ending	\$574,103	\$539,613	\$500,595	\$450,386	\$429,009
Plan Net Position					
Contributions - Plan Sponsor ²	\$17,858	\$14,747	\$16,822	\$16,887	\$16,595
Contributions - Member ²	3,513	3,585	1,277	1,309	1,542
Net Investment Income	35,333	50,594	3,860	12,064	53,656
Benefit Payments and Refunds of Contributions	(25,359)	(23,090)	(23,110)	(21,776)	(18,762)
Administrative Expense	(659)	(666)	(687)	(691)	(729)
Net Change in Plan Net Position	30,686	45,170	(1,838)	7,793	52,302
Plan Net Position - Beginning	413,126	367,956	369,794	362,001	309,699
Plan Net Position - Ending	\$443,812	\$413,126	\$367,956	\$369,794	\$362,001
Net Pension Liability - Ending	\$130,291	\$126,487	\$132,639	\$80,592	\$67,008
Plan Net Position as a Percentage of the Total Pension Liability	77.3%	76.6%	73.5%	82.1%	84.4%
Covered Payroll	\$34,388	\$33,685	\$33,512	\$33,273	\$34,528
Net Pension Liability as a Percentage of Covered Payroll	378.9%	375.5%	395.8%	242.2%	194.1%

¹ Data is not available for years prior to FY 2014.

² Beginning in FY 2017, contributions made by a plan sponsor to satisfy the contribution requirements of a plan member are classified as plan member contributions.

San Diego City Employees' Retirement System
Required Supplementary Information (continued)

Airport

Schedule of Changes in Net Pension Liability (Asset) and Related Ratios
For the Fiscal Years Ended June 30, (Dollars in Thousands)

	2018	2017	2016	2015	2014 ¹
Total Pension Liability					
Service Cost	\$7,391	\$6,996	\$6,205	\$6,155	\$6,099
Interest	12,621	11,417	10,278	9,327	8,466
Differences Between Expected and Actual Experience	(2,630)	3,975	(2,179)	346	-
Changes in Assumptions	6,416	5,871	10,474	-	-
Benefit Payments and Refunds of Contributions	(4,463)	(4,670)	(3,023)	(2,483)	(2,913)
Net Change in Total Pension Liability	19,335	23,589	21,755	13,345	11,652
Total Pension Liability - Beginning	185,541	161,952	140,197	126,852	115,200
Total Pension Liability - Ending	\$204,876	\$185,541	\$161,952	\$140,197	\$126,852
Plan Net Position					
Contributions - Plan Sponsor ²	\$7,319	\$5,481	\$5,772	\$5,665	\$5,671
Contributions - Member ²	3,163	2,990	1,243	1,073	1,019
Net Investment Income	14,036	19,481	1,651	4,390	18,303
Benefit Payments and Refunds of Contributions	(4,463)	(4,670)	(3,023)	(2,483)	(2,914)
Administrative Expense	(350)	(324)	(319)	(332)	(332)
Net Change in Plan Net Position	19,705	22,958	5,324	8,313	21,747
Plan Net Position - Beginning	166,798	143,840	138,516	130,203	108,456
Plan Net Position - Ending	\$186,503	\$166,798	\$143,840	\$138,516	\$130,203
Net Pension Liability (Asset) - Ending	\$18,373	\$18,743	\$18,112	\$1,681	(\$3,351)
Plan Net Position as a Percentage of the Total Pension Liability (Asset)	91.0%	89.9%	88.8%	98.8%	102.6%
Covered Payroll	\$31,628	\$31,132	\$29,189	\$27,955	\$26,380
Net Pension Liability (Asset) as a Percentage of Covered Payroll	58.1%	60.2%	62.1%	6.0%	-12.7%

¹ Data is not available for years prior to FY 2014.

² Beginning in FY 2017, contributions made by a plan sponsor to satisfy the contribution requirements of a plan member are classified as plan member contributions.

San Diego City Employees' Retirement System
Required Supplementary Information (continued)

City
Schedule of Plan Sponsor Contributions
For the Ten Fiscal Years Ended June 30 (2009 - 2018)
(Dollars in Thousands)

Fiscal Year	Actuarially Determined Contribution (ADC)	Contributions in Relation to the ADC	Contribution Deficiency/ (Excess) ¹	Covered Payroll ²	Contributions as a Percentage of Covered Payroll
2018	\$324,500	\$324,500	\$-	\$448,890	72.29%
2017	261,100	261,100	-	465,100	56.14
2016	254,900	254,900	-	480,662	53.03
2015	263,600	263,600	-	480,536	54.86
2014	275,400	275,400	-	499,463	55.14
2013	231,100	231,143	(43)	511,091	45.23
2012	231,200	231,200	-	514,265	44.96
2011	229,100	229,297	(197)	530,238	43.24
2010	154,200	192,533	(38,333)	536,591	35.88
2009	161,700	162,475	(775)	535,774	30.33

¹ Contributions for 2010 were made at a full actuarially-determined rate using the Entry Age Normal method. In addition, the City made contributions above this amount associated with the final settlement of litigation associated with the UAL.

² Covered Payroll represented above is based on pensionable earnings provided by the Plan Sponsor for each fiscal year.

Port
Schedule of Plan Sponsor Contributions
For the Ten Fiscal Years Ended June 30 (2009 - 2018)
(Dollars in Thousands)

Fiscal Year	Actuarially Determined Contribution (ADC)	Contributions in Relation to the ADC	Contribution Deficiency/ (Excess)	Covered Payroll ¹	Contributions as a Percentage of Covered Payroll
2018	\$17,700	\$17,700	\$-	\$34,388	51.47%
2017	14,600	14,600	-	33,685	43.34
2016	14,400	14,400	-	33,512	42.97
2015	14,300	14,300	-	33,273	42.98
2014	13,900	13,900	-	34,528	40.26
2013	13,200	13,200	-	35,873	36.80
2012	12,600	12,600	-	34,632	36.38
2011	11,500	11,501	(1)	39,165	29.37
2010	7,200	7,201	(1)	40,370	17.84
2009	7,300	7,340	(40)	38,635	19.00

¹ Covered Payroll represented above is based on pensionable earnings provided by the Plan Sponsor for each fiscal year.

San Diego City Employees' Retirement System
Required Supplementary Information (continued)

Airport
Schedule of Plan Sponsor Contributions
For the Ten Fiscal Years Ended June 30 (2009 - 2018)
(Dollars in Thousands)

Fiscal Year	Actuarially Determined Contribution (ADC)	Contributions in Relation to the ADC	Contribution Deficiency/ (Excess) ¹	Covered Payroll ²	Contributions as a Percentage of Covered Payroll
2018	\$5,416	\$7,247	\$(1,831)	\$31,628	22.91%
2017	3,765	5,421	(1,656)	31,132	17.41
2016	3,666	3,948	(282)	29,189	13.53
2015	3,823	3,823	-	27,955	13.67
2014	2,900	3,728	(828)	26,380	14.13
2013	2,600	2,600	-	24,840	10.47
2012	3,800	3,800	-	25,148	15.11
2011	4,300	4,300	-	25,596	16.80
2010	3,000	7,600	(4,600)	24,693	30.78
2009	3,000	3,035	(35)	23,488	12.92

¹ Contributions for 2010, 2014, 2016 and 2017 were made at a full actuarially-determined rate using the Entry Age Normal method. In addition, the Airport made contributions above this amount to achieve certain funding level thresholds.

² Covered Payroll represented above is based on pensionable earnings provided by the Plan Sponsor for each fiscal year.

Schedule of Investment Returns
Annual Money-Weighted Rate of Return,
Net of Investment Expense²
For the Fiscal Years Ended June 30,

Year ¹	Return %
2018	8.41%
2017	13.54
2016	1.00
2015	3.28
2014	16.84

¹ Data for the money-weighted rate of return is not available for years prior to FY 2014.

² The Annual Money-Weighted Rate of Return is applicable to all Plan Sponsors.

San Diego City Employees' Retirement System
Required Supplementary Information (continued)
Notes to Required Supplementary Information

1. Changes of Benefit Terms

There were no changes of benefit terms for the fiscal year ended June 30, 2018.

2. Methods and Assumptions Used to Determine Contributions

The actuarially determined contribution rates in the Schedules of Plan Sponsor Contributions for FY 2018 are calculated using the June 30, 2016 actuarial valuation, which is one year prior to the beginning of the plan year.

The following actuarial methods and assumptions were used to determine contributions reported in that schedule for the fiscal year ended June 30, 2018:

	City	Port	Airport
Valuation date	6/30/2016	6/30/2016	6/30/2016
Actuarial cost method	Entry Age Normal. Prior to the 2007 valuation, Projected Unit Credit was used.	Entry Age Normal. Prior to the 2007 valuation, Projected Unit Credit was used.	Entry Age Normal. Prior to the 2007 valuation, Projected Unit Credit was used.
Asset valuation method	Expected Value Method. Prior to the 2006 valuation, the "book value" smoothing method was used. The actuarial value of assets was set to the market value for the 2006 valuation, with the new smoothing method first applying to investment experience for the 2007 fiscal year.	Expected Value Method. Prior to the 2006 valuation, the "book value" smoothing method was used. The actuarial value of assets was set to the market value for the 2006 valuation, with the new smoothing method first applying to investment experience for the 2007 fiscal year.	Expected Value Method. Prior to the 2006 valuation, the "book value" smoothing method was used. The actuarial value of assets was set to the market value for the 2006 valuation, with the new smoothing method first applying to investment experience for the 2007 fiscal year.
Amortization Method	Closed periods. Payments are a level percentage of payroll (Police) or level dollar (non-Police). In the 2007 valuation, the amortization period was reduced from 27 to 20 years, with subsequent gains or losses amortized over different periods depending on the source. In the 2012 valuation, as a result of Proposition B, the UAL for the non-Police portion of the Plan was re-amortized over a closed 15-year period with level dollar payments.	Closed periods with payments as a level percentage of payroll. In the 2007 valuation, the amortization policy was modified so that future gains or losses would be amortized over different periods depending on the source.	Closed periods with payments as a level percentage of payroll. In the 2007 valuation, the amortization policy was modified so that future gains or losses would be amortized over different periods depending on the source.
Discount rate	7.00%. The discount rate was reduced from 8.00% to 7.75% in the 2008 valuation, from 7.75% to 7.50% in the 2011 valuation, from 7.50% to 7.25% in the 2013 valuation, from 7.25% to 7.125% in the 2015 valuation, and from 7.125% to 7.00% in the 2016 valuation.	7.00%. The discount rate was reduced from 8.00% to 7.75% in the 2008 valuation, from 7.75% to 7.50% in the 2011 valuation, from 7.50% to 7.25% in the 2013 valuation, from 7.25% to 7.125% in the 2015 valuation, and from 7.125% to 7.00% in the 2016 valuation.	7.00%. The discount rate was reduced from 8.00% to 7.75% in the 2008 valuation, from 7.75% to 7.50% in the 2011 valuation, from 7.50% to 7.25% in the 2013 valuation, from 7.25% to 7.125% in the 2015 valuation, and from 7.125% to 7.00% in the 2016 valuation.
Amortization growth rate	3.05%. Same pattern of changes described below for salary increase assumption (excluding freezes).	3.05%. Same pattern of changes described below for salary increase assumption (excluding freezes).	3.05%. Same pattern of changes described below for salary increase assumption (excluding freezes).

San Diego City Employees' Retirement System
Required Supplementary Information (continued)
Notes to Required Supplementary Information (continued)

2. Methods and Assumptions Used to Determine Contributions (continued)

	City	Port	Airport
Salary increases	3.05% (following assumed freezes in FYs 2013-2018) plus merit component based on employee classification and years of service. The across-the-board salary increase assumption was reduced from 4.25% to 4.00% in the 2008 valuation, from 4.00% to 3.75% in the 2011 valuation, from 3.75% to 3.30% in the 2013 valuation, from 3.30% to 3.175% in the 2015 valuation, and from 3.175% to 3.05% in the 2016 valuation. In the 2011 valuation a two-year salary freeze assumption (for FYs 2013-2014) was added and in the 2013 valuation an additional four-year freeze was assumed (FYs 2015-2018).	3.05% plus merit component based on employee classification and years of service. The across-the-board salary increase assumption was reduced from 4.25% to 4.00% in the 2008 valuation, from 4.00% to 3.75% in the 2011 valuation, from 3.75% to 3.30% in the 2013 valuation, and from 3.175% to 3.05% in the 2016 valuation.	3.05% plus merit component based on employee classification and years of service. The across-the-board salary increase assumption was reduced from 4.25% to 4.00% in the 2008 valuation, from 4.00% to 3.75% in the 2011 valuation, from 3.75% to 3.30% in the 2013 valuation, and from 3.175% to 3.05% in the 2016 valuation. In the 2011 valuation a two-year salary freeze assumption (for FYs 2013-2014) was added.
Cost of living increase	1.9%. The COLA assumption was reduced from 2.0% to 1.9% in the 2016 valuation.	1.9%. The COLA assumption was reduced from 2.0% to 1.9% in the 2016 valuation.	1.9%. The COLA assumption was reduced from 2.0% to 1.9% in the 2016 valuation.

Mortality: Retired healthy members use the CalPERS Post-Retirement Healthy Mortality Table base rates from the CalPERS January 2014 Experience Study, with a 10% increase to female rates, with projection for improvement. From 2005-2007 (valuation years), the UP-1994 table was used, with a two-year setback for males and females. From 2008-2010, the RP-2000 Combined Mortality Table was used, with a two-year set forward for males and females. From 2011-2016, healthy retired members used the RP-2000 Combined Mortality Table (male and female), with rates set forward one year for Safety female members. In September 2016, SDCERS' Board of Administration adopted the results of a full experience study performed by the actuary covering the period July 1, 2010 through June 30, 2015.

A complete description of the methods and assumptions used to determine the contribution for the year ended June 30, 2018 can be found in the June 30, 2016 actuarial valuation reports, which are available online at www.sdcers.org.

**San Diego City Employees' Retirement System
Other Supplemental Information**

**Schedule of Administrative Expenses
For the Fiscal Year Ended June 30, 2018**

(Dollars in Thousands)

Salaries and Personnel ¹	\$5,693
Information and Technology Services	
Data Processing and Computer Services	952
Contracted Services	870
Total Information and Technology Services	<u>1,822</u>
Legal/External	
Litigation/Fiduciary/Tax/General	632
Disability	15
Total Legal/External	<u>647</u>
General Operations	
Rent	1,019
Depreciation Expense	817
Actuary Services	628
Office Operations Expense	416
Fiduciary Insurance	260
Audit Services	104
Travel and Training	101
Disability Processing	72
Total General Operations	<u>3,417</u>
Grand Total	<u>\$11,579</u>

¹ Personnel expense of \$1.0 million can be readily identified as investment related costs and are reported as investment expenses in the Statement of Changes in Plan Net Position.

San Diego City Employees' Retirement System
Other Supplemental Information (continued)

Schedule of Investment Expenses
For the Fiscal Year Ended June 30, 2018

(Dollars in Thousands)

	Fair Value of Assets Under Management ¹	Total Fees Paid
Domestic Equity Managers	\$2,010,259	\$5,827
International Equity Managers	1,315,872	4,326
Global Equity Managers	399,403	2,424
Domestic Fixed Income Managers	1,913,881	1,953
Emerging Market Debt Strategies	367,362	2,385
Real Estate Managers	753,331	9,177
Private Equity and Infrastructure Managers	1,143,575	7,677
Opportunistic Strategies	285,561	1,365
Cash & Cash Overlay	182,749	226
Total	\$8,371,993	\$35,360
Other Investment Services Fees		
SDCERS Salaries and Personnel		\$1,029
Custodian Services		311
Investment Consultants		808
Investment Accounting Applications		12
Legal Services		186
General Operations		24
Taxes		514
Other		9
Total Other Investment Service Fees		\$2,893
Total Fees Paid to Investment Professionals		\$38,253

¹ Fair Values of Assets Under Management for SDCERS' investment managers include total investments at fair value (based on trade date), by investment strategy, as detailed in the actual asset allocation as depicted in the Investment Section of this CAFR. The audited financial statements classify SDCERS' aggregate portfolio by security type, cash, stocks, bonds, real estate, and private equity and infrastructure.

San Diego City Employees' Retirement System
Other Supplemental Information (continued)

Schedule of Payments to Consultants
For the Fiscal Year Ended June 30, 2018
(Dollars in Thousands)

Individual or Firm	Amount	Nature of Service
CGI Technologies	\$734	Computer/Applications Support
Legal Firms & Professional Legal Services ¹	647	Legal, Arbitration, Mediation, Court Reporting
Cheiron, Inc.	548	Actuary
Sagitec Solutions, LLC	476	Pension Administration System Development
Atos IT Solutions and Services, Inc.	449	Computer/Applications Support
Marsh USA, INC.	261	Fiduciary Insurance
Macias Gini & O'Connell LLP	104	Audit
Segal Consulting	80	Actuary Review
Doctors & Disability Services ¹	72	Medical Consulting
Hewlett Packard	53	Computer/Applications Support
Various Providers	33	Various Contractual Services
Total Payments to Consultants and Professional Service Providers	\$3,457	

¹See next page for full listing.

San Diego City Employees' Retirement System
Other Supplemental Information (continued)

Schedule of Payments to Consultants (continued)
For the Fiscal Year Ended June 30, 2018

SDCERS used the following Doctors' services:

California Orthopedic Institute Medical Associates, Inc

Dr. Michael Quinn, M.D.

Dr. Steven Tradonsky, M.D.

Dr. Drew Peterson, M.D.

Dr. William Tontz, Jr., M.D.

Consultative Examination Services, Inc.

Dr. Frank Guellich, M.D.

ExamWorks, Inc.

Dr. Harvey R. Wieseltier, M.D.

Girard Orthopedic Surgeons

Dr. Michael Kimball, M.D.

Dr. Neil Tayyab, M.D.

Other Doctors

Dr. Robert Bressler, M.D

Dr. David G. Smith, M.D.

Dr. Robert Warren, M.D.

SDCERS paid the following Legal & Professional Legal Services Firms:

ADR Services, Inc.

Cox, Castle & Nicholson, LLP

Ice Miller, LLP

JAMS (Judicial Arbitration Services)

Judicate West

K & L Gates, LLP

KPMG, LLP

KUMA, LLC

Noonan Lance Boyer & Banach, LLP

Nossaman, LLP

Olson Hagel & Fishburn, LLP

Peterson Reporting Video & Litigation

Steven W. Sanchez

San Diego City Employees' Retirement System
Other Supplemental Information (continued)

Statement of Changes in Assets and Liabilities - Agency Funds
For the Fiscal Year Ended June 30, 2018
(Dollars in Thousands)

	City Preservation of Benefits Fund			
	Balance June 30, 2017	Additions	Deductions	Balance June 30, 2018
ASSETS				
Cash on Deposit with Wells Fargo Bank	\$13	\$1,434	\$1,433	\$14
TOTAL ASSETS	\$13	\$1,434	\$1,433	\$14
LIABILITIES				
Sundry Trust Liability	\$13	\$1,434	\$1,433	\$14
TOTAL LIABILITIES	\$13	\$1,434	\$1,433	\$14

	Port Preservation of Benefits Fund			
	Balance June 30, 2017	Additions	Deductions	Balance June 30, 2018
ASSETS				
Cash on Deposit with Wells Fargo Bank	\$2	\$248	\$248	\$2
TOTAL ASSETS	\$2	\$248	\$248	\$2
LIABILITIES				
Sundry Trust Liability	\$2	\$248	\$248	\$2
TOTAL LIABILITIES	\$2	\$248	\$248	\$2

	Airport Preservation of Benefits Fund			
	Balance June 30, 2017	Additions	Deductions	Balance June 30, 2018
ASSETS				
Cash on Deposit with Wells Fargo Bank	\$-	\$56	\$32	\$24
TOTAL ASSETS	\$-	\$56	\$32	\$24
LIABILITIES				
Sundry Trust Liability	\$-	\$56	\$32	\$24
TOTAL LIABILITIES	\$-	\$56	\$32	\$24

	Preservation of Benefits Funds - Combined			
	Balance June 30, 2017	Additions	Deductions	Balance June 30, 2018
ASSETS				
Cash on Deposit with Wells Fargo Bank	\$15	\$1,738	\$1,713	\$40
TOTAL ASSETS	\$15	\$1,738	\$1,713	\$40
LIABILITIES				
Sundry Trust Liability	\$15	\$1,738	\$1,713	\$40
TOTAL LIABILITIES	\$15	\$1,738	\$1,713	\$40

San Diego City Employees' Retirement System
Other Supplemental Information (continued)

Statement of Changes in Assets and Liabilities - Agency Funds (continued)
For the Fiscal Year Ended June 30, 2018

(Dollars in Thousands)

	Post Employment Healthcare Benefit Plan Fund			Balance June 30, 2018
	Balance June 30, 2017	Additions	Deductions	
ASSETS				
Cash on Deposit with Wells Fargo Bank	\$15	\$43,343	\$43,343	\$15
Accounts Receivable	31	-	31	-
TOTAL ASSETS	\$46	\$43,343	\$43,374	\$15
LIABILITIES				
Accounts Payable	\$-	\$9	\$-	\$9
Sundry Trust Liability	46	43,334	43,374	6
TOTAL LIABILITIES	\$46	\$43,343	\$43,374	\$15

	Total Agency Funds			Balance June 30, 2018
	Balance June 30, 2017	Additions	Deductions	
ASSETS				
Cash on Deposit with Wells Fargo Bank	\$30	\$45,081	\$45,056	\$55
Accounts Receivable	31	-	31	-
TOTAL ASSETS	\$61	\$45,081	\$45,087	\$55
LIABILITIES				
Accounts Payable	\$-	\$9	\$-	\$9
Sundry Trust Liability	61	45,072	45,087	46
TOTAL LIABILITIES	\$61	\$45,081	\$45,087	\$55

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INVESTMENT 3



Investment Consultant's Statement



August 27, 2018

Mr. Gregg Rademacher
Chief Executive Officer
San Diego City Employees' Retirement System
401 West A Street, Suite 400
San Diego, CA 92101

Dear Mr. Rademacher,

The following letter is intended to provide a brief overview of the capital markets and performance of San Diego City Employees' Retirement System's (SDCERS) investments during the fiscal year ending June 30, 2018.

The 2018 fiscal year generated another period of solid capital market returns, as optimism regarding the global economy helped investors overcome ongoing geopolitical tensions throughout the year. Global equity markets generated positive returns and U.S. yields climbed higher as the U.S. Federal Reserve (Fed) continued pace with gradually raising interest rates. That said, long stagnant volatility re-emerged during the back half of the year, igniting some caution for a period of time. Yet, in general, markets remained resilient and continued to extend the second longest bull market in modern history.

The year began on a strong note, as risky assets continued their climb supported by a healthy global economy, the approval of the most sweeping overhaul of the U.S. tax system in over three decades, and modest, yet still supportive, policy changes from global central banks. Bond yields moved gradually higher and oil prices rallied to a two-year high. Emerging market equities were the greatest beneficiaries during the first half of the year, benefitting from strong global growth, rising oil prices, and supportive central bank policies. Gains weren't without headwinds, however. Ongoing tensions between the U.S. and North Korea, concerns over the potential economic impact of two major hurricanes hitting the U.S., pending roll back of central bank easing measures, and ongoing political uncertainty, particularly across the U.S., Germany, and Italy, all tempered returns.

The second half of the year began strong through January, but equity markets quickly came under pressure once in February and then again in March. Positive economic momentum and rising inflationary pressure ignited fears of a more hawkish Fed, causing U.S. bond yields to spike to a four-year high and equity markets to sell-off sharply in February. Though stocks recovered some losses, markets experienced another correction in March due to fears of a global trade-war ignited by the Trump administration's decision to impose tariffs on various imports. The re-emergence of volatility across capital markets triggered a more cautious sentiment and less risky assets fared better for a period. Though ongoing geopolitical tensions and escalating fears of a global trade war continued to distract investors, markets ended the year on a positive note, as U.S. earnings continued to be encouraging and commodity prices continued to rise.

Throughout the year, central banks performed a balancing act of continuing to provide supportive measures while beginning the rollback of many easing policies. The U.S. Fed raised rates three times, ending the year with a range of 1.75% to 2.00%. New Chairman, Jay Powell, was welcomed by the Fed in February, and while forecasts of further rate rises increased pace due to the strengthening U.S. economy and increasing inflation, Mr. Powell stressed that rate rises would continue to be gradual. Elsewhere, the European Central Bank began scaling back its asset-purchase program and announced plans to fully end the program by the end of 2018; however, President Mario Draghi stressed that interest rates would remain on hold until at least mid-2019. The Bank of England ended up raising interest rates by 25 basis points over the year, backing away from a second hike due to slowing economic growth and falling inflation during the second half of the year. Lastly, the Bank of Japan maintained its policy measures throughout the year.



With the backdrop of positive corporate earnings and generally strong global economic growth, global equity markets generated solid returns over the one-year period ending June 30, 2018. U.S. equities led markets, supported by continued strong company earnings, renewed merger and acquisition activity and the approved U.S. tax reform in the beginning of the year. The broad U.S. equity market, as represented by the Dow Jones U.S. Total Stock Market Index, returned 14.8%. Developed international markets lagged the U.S., as political uncertainty across several countries and trade tensions with the U.S. negatively impacted economic data and equity market returns. The MSCI EAFE Index returned 6.8% in USD terms and 6.1% in local currency terms. Emerging markets started the year off strong due to optimism over the health of the global economy; however, fears of a global trade war, rising U.S. interest rates, and a strengthening USD triggered significant outflows toward the end of the year. Still outpacing international developed markets, the MSCI Emerging Markets Equity Index posted an 8.2% return in USD terms and 10.5% in local currency terms. As U.S. yields rose throughout the year, the U.S. bond market, as represented by the Bloomberg Barclays Aggregate Bond Index, declined 0.3%. The mostly risk-on mentality drove most U.S. spread sectors of the bond market to outpace safe haven treasuries. Similar to emerging market equities, emerging market debt (EMD) returns were negatively impacted by rising U.S. rates, a strong dollar and a general sentiment shift towards the end of the year. Local currency EMD declined 2.3%, while USD denominated EMD declined 1.6% over the year, as tracked by the JPM GBI-EM Global Diversified and JPM EMBI-Global Diversified Indices, respectively. Overall, despite the re-emergence of volatility during the back half of the year, and seemingly relentless political drama, capital markets continued to prove resilient and most risk assets continued their climb higher.

The SDCERS Trust Fund ended the fiscal year with \$8.1 billion in assets, representing a fiscal year return of 8.2% on a time-weighted basis, net-of-investment manager fees¹. On a relative basis, the SDCERS Trust Fund meaningfully outperformed its Policy Benchmark return of 7.1%. Strong U.S. public equity returns drove a significant portion of the performance, though private equity and real estate also contributed meaningfully to both absolute and relative returns. SDCERS' U.S. Equity allocation returned 16.3% relative to the DJ U.S. Total Stock Market Index return of 14.8%. Private Equity and Real Estate returned 11.4% and 9.5%, respectively, outperforming their benchmark returns of 8.2% and 6.0%, respectively (Private Equity and Real Estate returns are reported with a one-quarter lag). Relative to its peer group², the Total Fund's fiscal year return ranked favorably, ranking in the thirty-first percentile of the universe. Long-term performance of the SDCERS Trust Fund also continues to be favorable, as it has returned an annualized 7.5% and 8.4% over the trailing three- and five-year periods, respectively, and outperformed its Policy Benchmark over both time periods.

During the 2018 fiscal year, there were modest changes to the SDCERS portfolio. As a result of the annual asset allocation and structure reviews, the SDCERS' Board approved two modifications to the Trust Fund's Policy. The first approved change was to separate the Private Equity and Infrastructure performance reporting and to update the allocations' performance benchmarks in order to more effectively evaluate the success of the two allocations. The second approved change was to eliminate the U.S. equity bias within the public equity portfolio and transition to a globally weighted equity mandate. Through year-end, the Board continues to evaluate different implementation approaches with expectations that the global mandate will be achieved before the end of the 2018 calendar year. Additionally, the restructuring of the real estate allocation continues to progress favorably towards its long-term goals.

The asset allocation and investment structure of the Plan undergo ongoing monitoring and evaluation to ensure they are in line with SDCERS' investment objectives and the current market environment. We continue to believe the SDCERS Trust Fund is well-diversified and appropriately structured to meet its long-term objectives.

Sincerely,

Steve Voss
Partner

Katie Comstock
Senior Consultant

¹ Returns quoted throughout this letter represent time-weighted rates of return.

² Universe data is compiled by BNY Mellon and Investment Metrics. The universe includes only public pension plan total fund returns.

San Diego City Employees' Retirement System

Asset Class Investment Returns^{1, 2, 3}

For the Fiscal Year Ended June 30, 2018

	Annualized Performance			
	1-YEAR	3-YEAR	5-YEAR	10-YEAR
Domestic Equity Performance	16.3%	11.8%	13.2%	10.4%
Benchmark: Dow Jones U.S. Total Stock Market (100% weight)	14.8%	11.6%	13.2%	10.6%
International Equity Performance	7.0%	5.3%	6.3%	2.2%
Benchmark: MSCI AC World Ex-US IMI Index (94.4% weight)	7.8%	5.5%	6.4%	3.0%
MSCI Emerging Markets Index (5.6% weight)				
Global Equity Performance	11.3%	8.6%	8.8%	--
Benchmark: MSCI All-Country World Index	10.7%	8.2%	9.4%	5.8%
Domestic Fixed Income Performance	-0.3%	1.3%	1.7%	4.1%
Benchmark: Barclays Intermediate Aggregate Bond Index (100% weight)	-0.3%	1.3%	1.8%	3.2%
Emerging Market Debt Performance	-2.3%	2.8%	1.4%	--
Benchmark: JPM EMBI Global Diversified (40% weight)	-2.0%	3.1%	1.4%	5.8%
JPM GBI-EM Global Diversified (60% weight)				
Opportunity Fund Performance⁵	11.7%	9.7%	--	--
Benchmark: MSCI All Country World Index IMI (78% weight)	8.6%	6.9%	7.9%	5.8%
Barclays Intermediate Aggregate Bond Index (22% weight)				
Real Estate Performance⁶	9.5%	10.6%	10.9%	6.3%
Benchmark: NFI-ODCE + 50 basis points (100% weight)	6.0%	8.1%	9.8%	5.7%
Private Equity and Infrastructure Performance^{4,5,6}	11.4%	11.7%	--	--
Benchmark: 50th Percentile time-weighted return of the Burgiss Universe (83% Weight)	8.2%	9.4%	10.0%	10.0%
CPI+500bps (17% weight)				
Total Fund Performance⁷	8.2%	7.5%	8.4%	6.9%
Performance Benchmark, comprised of:	7.1%	6.8%	8.0%	6.8%
Dow Jones U.S. Total Stock Market Index (23.9%);				
International Equity Benchmark (17.0%);				
Barclays Intermediate Agg (23.1%);				
Custom Real Estate Benchmark (11.0%);				
MSCI AC World Index (5.0%); Emerging Market Debt Benchmark (5.0%);				
Private Equity Benchmark (10.0%); and Opportunity Fund Benchmark (3.0%);				
and Infrastructure Benchmark (2.0%)				

¹ Basis of calculation is time-weighted rates of return based on market values.

² Long-Term Performance: 3-year, 5-year and 10-year performance benchmarks may have been comprised of different indices and percentage weights due to changes in SDCERS' asset allocation strategy over time.

³ Net of fees returns began to be calculated in FY2011. Prior to that, all returns are gross of fees.

⁴ SDCERS' Board approved the combination of the Private Equity and Infrastructure allocations in November 2014.

⁵ This allocation is currently being funded. Performance will not be available until a meaningful allocation is reached.

⁶ Returns for Real Estate and Private Equity and Infrastructure are lagged one quarter due to the availability of data.

⁷ The 1-year gross of fees return for the Total Fund Performance was 8.4%.

San Diego City Employees' Retirement System
Investment Managers
As of June 30, 2018

Domestic Equity Investment Managers				
Allianz Global Investors Capital San Diego, CA	BlackRock Institutional Trust Company San Francisco, CA	Dimensional Fund Advisors Santa Monica, CA	Fisher Investments Woodside, CA	
Domestic Fixed Income Investment Managers				
BlackRock Institutional Trust Company San Francisco, CA	Pacific Investment Management Company (PIMCO) Newport Beach, CA		The TCW Group, Inc./MetWest Los Angeles, CA	
Global Equity Investment Managers				
Dodge & Cox San Francisco, CA	Grantham, Mayo, Van Otterloo & Co. LLC Boston, MA		Walter Scott & Partners Limited Edinburgh, Scotland	
International Equity Investment Managers				
Aberdeen Asset Management Philadelphia, PA	AQR Capital Management Greenwich, CT	BlackRock Institutional Trust Company San Francisco, CA		
Brandes Investment Partners San Diego, CA	CopperRock Capital Partners Boston, MA		Neuberger Berman New York, NY	
Emerging Market Debt Investment Managers				
Investec Asset Management London, England	Stone Harbor Investment Partners New York, NY		Wellington Management Company Boston, MA	
Real Estate Investment Managers				
AEW Capital Management Boston, MA	Alcion Ventures Boston, MA	CBRE Global Investors Los Angeles, CA	Colony Capital, LLC Los Angeles, CA	Cornerstone Real Estate Advisers Glastonbury, CT
DWS/RREEF Management LLC San Francisco, CA	Europa Capital London, England	Greystar Real Estate Partners, LLC Charleston, SC		Invesco Real Estate Dallas, TX
J.P. Morgan Asset Management New York, NY	Landmark Partners Simsbury, CT	LaSalle Investment Management San Francisco, CA	Long Wharf Real Estate Partners (Fidelity) Boston, MA	
Mesa West Capital Los Angeles, CA	Morgan Stanley New York, NY	Normandy Real Estate Partners (Capmark) Morristown, NJ		Pacific Coast Capital Partners El Segundo, CA
MetLife Investment Management Whippany, NJ	PGIM Real Estate (PRISA) Madison, NJ		The Carlyle Group Washington, DC	UBS Realty Investors Hartford, CT
Private Equity and Infrastructure Consultants				
GCM Gosvenor Private Markets Los Angeles, CA			StepStone Group, LLC San Diego, CA	
Opportunity Fund Investment Managers				
Davidson Kempner Capital Management (Global Credit Fund) New York, NY	GCM Grosvenor (Global Credit Fund) Chicago, IL	Mesa West Capital (Opportunistic Real Estate) Los Angeles, CA	Oaktree Capital Management (Opportunistic Real Estate) Los Angeles, CA	Torchlight Investors (Opportunistic Real Estate) New York, NY
Cash Overlay Investment Manager				
Parametric Minneapolis, MN				

**San Diego City Employees' Retirement System
Summary of Investment Goals and Philosophy
As of June 30, 2018**

Consistent with SDCERS' Mission Statement, the goal of SDCERS' investment program is to generate long-term returns that, when combined with employer and employee contributions, will result in sufficient assets to pay the present and future obligations of SDCERS. The following objectives are intended to assist in achieving this goal:

- SDCERS should earn, on a long-term average basis, a total rate of return in excess of SDCERS' actuarial investment return assumption of 7.00% for FY 2018. At its September 8, 2017 meeting the SDCERS Board voted to reduce the discount rate by 0.25% from 7.00% to 6.75% for the June 30, 2017 valuation, and also voted to reduce the discount rate by 0.25% from 6.75% to 6.50% for the June 30, 2018 valuation. At its September 14, 2018 meeting, the Board voted to accept the change in economic assumptions.
- SDCERS should seek to earn a return in excess of its policy benchmark over the long term.
- SDCERS' assets will be managed on a total return basis, which takes into consideration both investment income and capital appreciation. While SDCERS recognizes the importance of the preservation of capital, it also adheres to the principle that varying degrees of investment risk are generally rewarded with compensating returns.

To achieve these objectives, SDCERS allocates its investment assets with a strategic, long-term perspective of the capital markets.

It is the purpose of SDCERS' investment program to ensure that sufficient financial assets are available to provide SDCERS' participants and their beneficiaries with all benefits due as specified in SDCERS' plan documents. Therefore, the participants' and beneficiaries' financial interests shall take precedence over all other financial interests. In addition, SDCERS manages its investment program based on principles outlined under the Prudent Expert standard. SDCERS also diversifies the investments so as to maximize the probability of achieving the actuarial rate of return while minimizing risk.

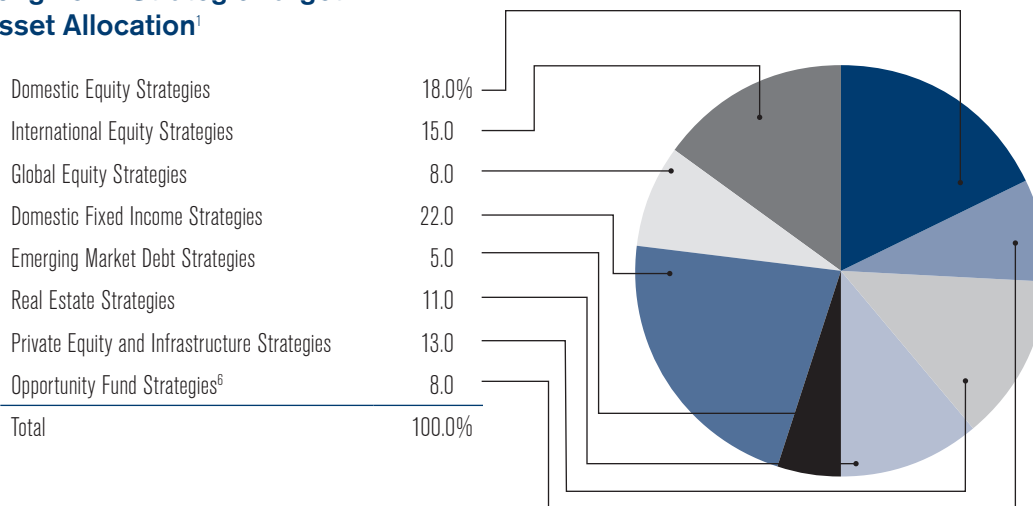
* * *

These goals and objectives are found in SDCERS' Investment Policy Statement (IPS). The IPS encompasses the investment goals, objectives and policies of the SDCERS Trust Fund. The purpose of the IPS is to assist the Board, the Investment Committee and Staff to effectively supervise and monitor SDCERS' investment program.

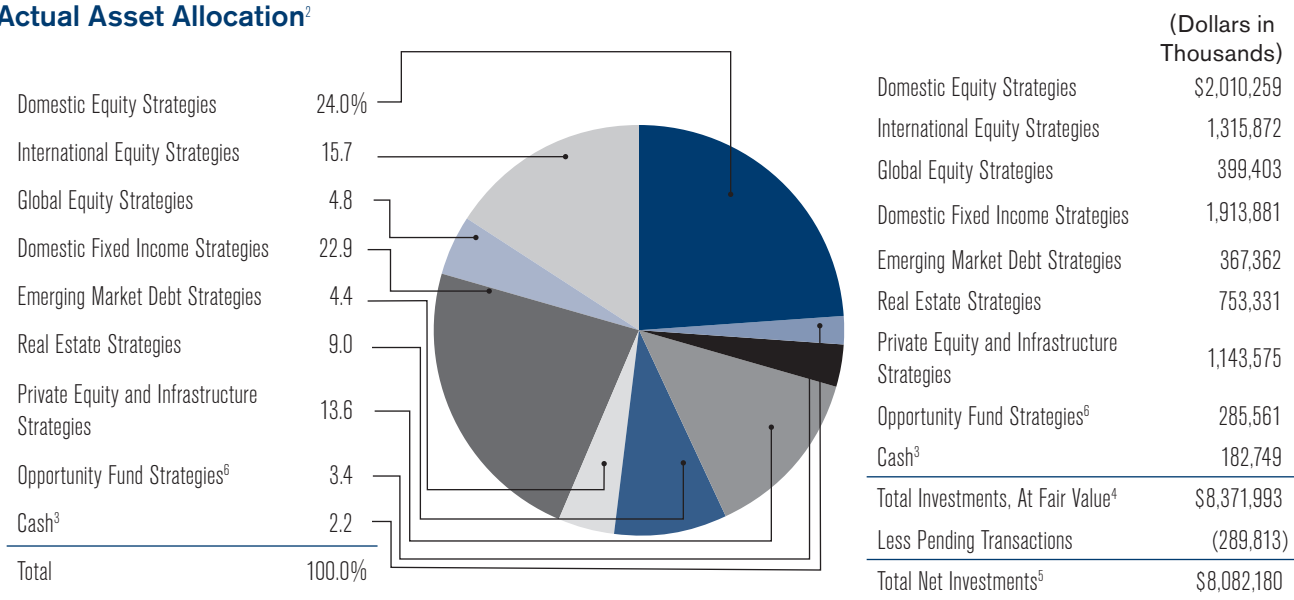
San Diego City Employees' Retirement System Long-Term Strategic Target and Actual Asset Allocation

As of June 30, 2018

Long-Term Strategic Target Asset Allocation¹



Actual Asset Allocation²



¹The long-term strategic target asset allocation presented above is a long-term goal for the asset allocation. Due to the complexity of funding asset classes, SDCERS expects to move the portfolio to these asset classes and weights over time. To track the portfolio's progress, SDCERS uses the following interim asset allocation weights: domestic equity 23.2%, international equity 17.2%, global equity 5.0%, domestic fixed income 23.2%, emerging market debt 5.0%, real estate 10.0%, private equity and infrastructure 13.0% and opportunity fund 3.4%.

²Actual asset allocation values illustrated above are based upon SDCERS' investment managers' specific strategies. Each portfolio, including all securities and cash held by an investment manager, is categorized based upon the strategy that SDCERS hired that manager to execute. Investment strategy totals by asset class here will differ from those that appear in the audited financial statements. For GASB reporting purposes, investments in the audited financial statements are classified by security type: i.e., cash, equities, fixed income, real estate, private equity and infrastructure, not by investment strategy.

³SDCERS does not have a target allocation to cash.

⁴Total Investments at fair value include amounts reported as Cash and Cash Equivalents on Deposit with Custodial Bank and Fiscal Agents in the Audited Financial Statements.

⁵Investment balances are presented using the accrual basis of accounting.

⁶In October 2010, the opportunity fund was added as a new asset class with a maximum allocation of 8%. Three opportunistic real estate investments and three opportunistic credit funds currently reside within this allocation.

San Diego City Employees' Retirement System Schedule of Largest Equity and Fixed Income Holdings

As of June 30, 2018 (Shares and Dollars in Thousands)

Schedule of Largest Equity Holdings

Rank	Shares	Equity Securities	CUSIP	Fair Value	Percentage of Total Net Investments
1	155	Microsoft Corp.	594918104	\$15,294	0.2%
2	12	Alphabet Inc.	02079K107	12,983	0.2
3	200	Wells Fargo & Co.	949746101	11,082	0.2
4	330	Comcast Corp.	20030N101	10,827	0.1
5	204	Charles Schwab Corp.	808513105	10,440	0.1
6	111	Capital One Financial Corp.	14040H105	10,201	0.1
7	231	Cisco Systems, Inc.	17275R102	9,923	0.1
8	348	Bank of America Corp.	060505104	9,799	0.1
9	30	Charter Communications Inc.	16119P108	8,818	0.1
10	131	Schlumberger Ltd.	806857108	8,768	0.1
Total				\$108,135	1.3%

Schedule of Largest Fixed Income Holdings

Rank	Shares	Fixed Income Securities	CUSIP	Fair Value	Percentage of Total Net Investments
1	58,900	Interest Rate Swap - Rec USD Variable 3 Month LIBOR 1% 03 Sep 2020	99S12DSI1	\$58,900	0.7%
2	56,000	FNMA TBA 30 Year 4.0% 13 Aug 2048	01F040685	57,011	0.7
3	52,735	U.S. Treasury Note 2.625% 30 Jun 2023	9128284U1	52,478	0.7
4	44,905	U.S. Treasury Note 2.5% 31 May 2020	9128284Q0	44,884	0.6
5	41,400	FNMA TBA 30 Year 3% 13 Aug 2048	01F030686	40,066	0.5
6	34,775	U.S. Treasury Note 2.75% 30 Apr 2023	9128284L1	34,809	0.4
7	33,800	FNMA TBA 30 Year 3.5% 13 Aug 2048	01F032682	33,599	0.4
8	28,350	FNMA TBA 30 Year 3.5% 12 Jul 2048	01F032674	28,217	0.3
9	22,100	Interest Rate Swap - Rec USD Variable 3 Month LIBOR 1% 16 Dec 2019	99S003430	22,100	0.3
10	17,300	Interest Rate Swap - Rec Eur Fixed 1.25% 19 Sep 2028	99S116RF4	20,846	0.3
Total				\$392,910	4.9%

A complete list of portfolio holdings is available upon request.

Investment Section

**San Diego City Employees' Retirement System
Schedule of Commissions¹**

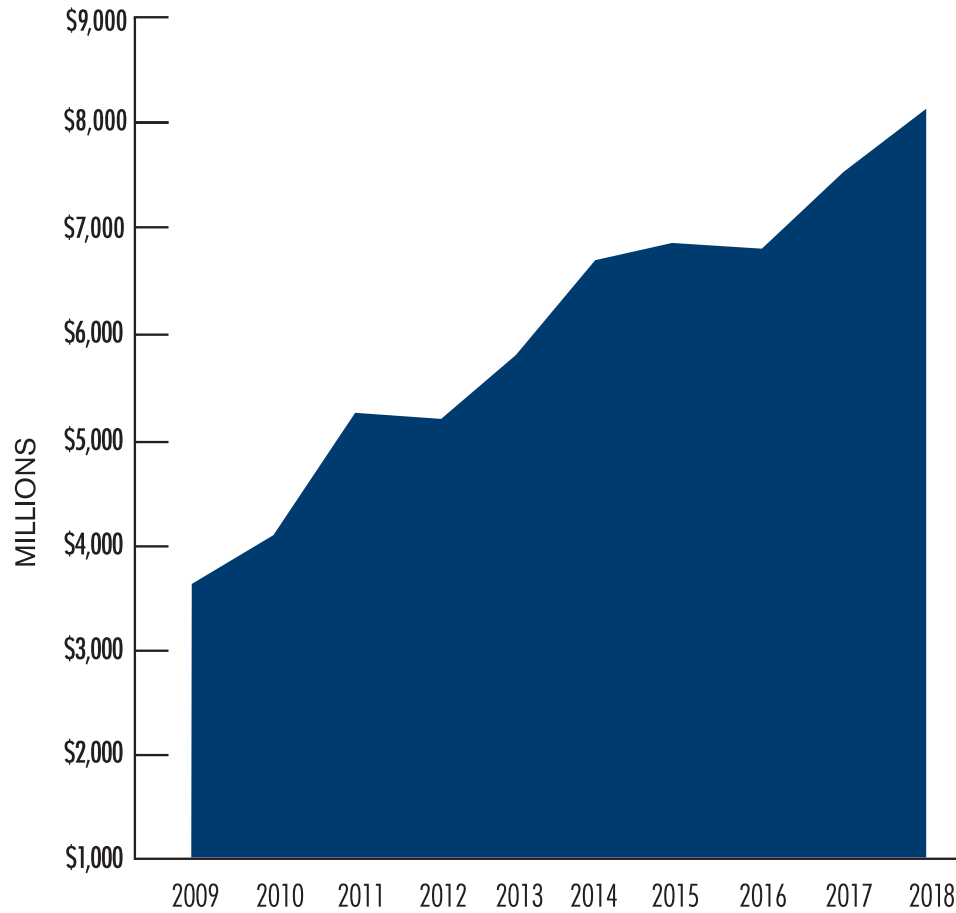
Top 25 Brokerage Firms Used

For the Fiscal Year Ended June 30, 2018 (Shares and Dollars in Thousands)

Rank	Broker Name	Shares	Base Commission	Commission Per Share
1	Goldman Sachs & Co.	2,885,276	\$89	0.00003
2	Morgan Stanley Co., Inc.	20,505,833	36	0.00000
3	Citigroup Global Markets, Inc.	2,225,528	22	0.00001
4	Sanford C Bernstein and Co.	310,867	21	0.00007
5	UBS AG	1,334,011	15	0.00001
6	Deutsche Bank AG	591,350	11	0.00002
7	Mitsubishi UFJ Securities	4,709,325	11	0.00000
8	Credit Suisse International	2,041,241	11	0.00001
9	Jefferies and Co., Inc.	708,842	11	0.00002
10	Daiwa Securities America Inc.	6,314,895	9	0.00000
11	Merrill Lynch and Co., Inc.	2,116,084	9	0.00000
12	Macquarie Bank Ltd.	47,883	7	0.00014
13	Societe Generale SA	268,643	7	0.00002
14	Mizuho International PLC	1,423,305	6	0.00000
15	SMBC Securities, Inc.	1,526,603	6	0.00000
16	Pershing LLC	10,779	5	0.00050
17	Instinet LLC	354,317	5	0.00002
18	J.P. Morgan Chase Bank	1,115,524	5	0.00000
19	Barclays Bank PLC	1,045,699	4	0.00000
20	Redburn Partners LLC	2,556	4	0.00154
21	Capital Guardian LLC	57	4	0.06439
22	Parel	1,506	4	0.00240
23	Joh. Berenberg, Gossler and Co. KG	2,064	4	0.00175
24	BNP Paribas SA	3,286,006	3	0.00000
25	Exane SA	1,346	3	0.00215
	All Other Brokers	6,749,599	62	\$0.00001
	Total	59,579,139	374	\$0.00001

¹This schedule contains trading information which includes equities and fixed income. Commissions for fixed income trades are implicitly included in the price of a security that is bought or sold, rather than explicitly stated for equities. This will cause some of the commission per share numbers to seem artificially low.

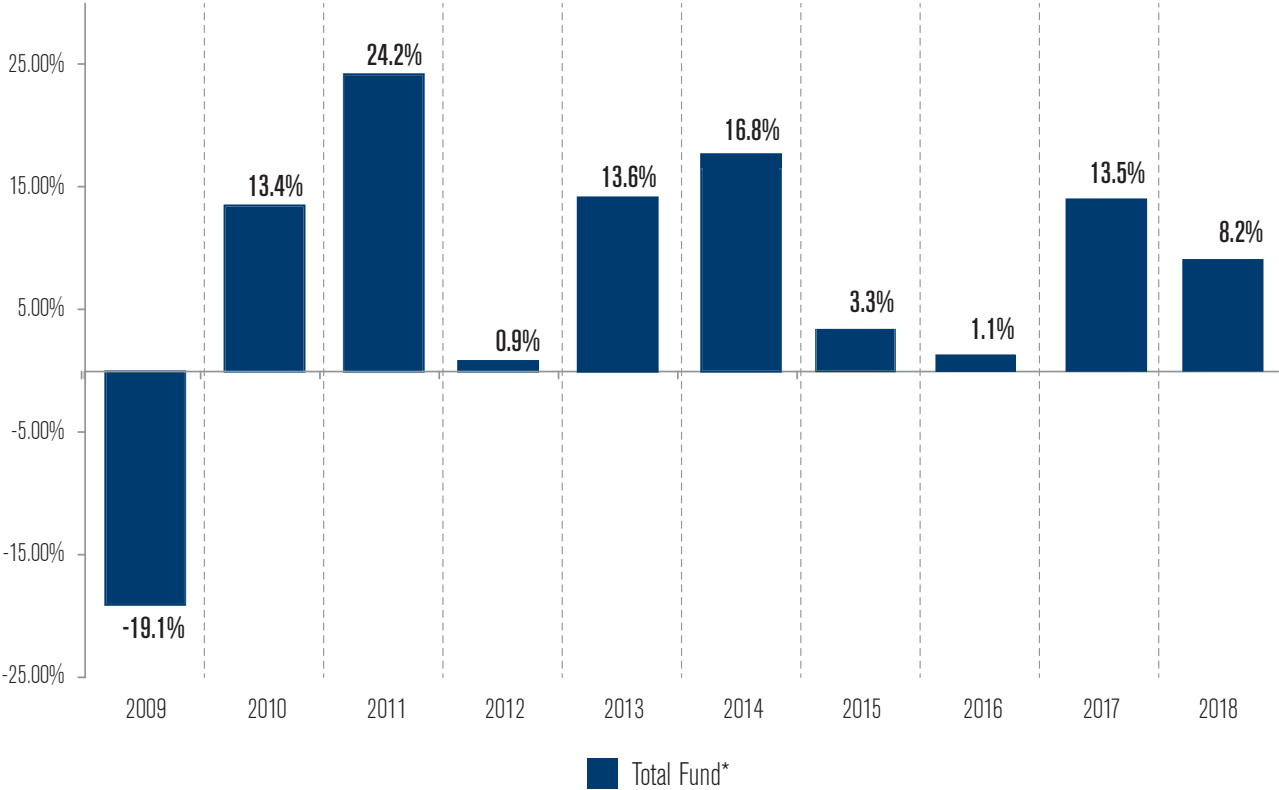
San Diego City Employees' Retirement System
Growth of Investments, at Fair Value
For Ten Fiscal Years Ended June 30



Fiscal Year	Fair Value¹ (Dollars in Thousands)
2018	\$8,082,180
2017	7,576,337
2016	6,813,762
2015	6,890,918
2014	6,768,783
2013	5,815,027
2012	5,151,968
2011	5,182,482
2010	4,161,807
2009	3,697,249

¹Fair value includes investments, cash and cash equivalents on deposit, net of pending transactions (receivable for securities sold and liability for securities purchased). Investment balances are presented using the accrual basis of accounting.

**San Diego City Employees' Retirement System
Fiscal Year Investment Results
For Ten Fiscal Years Ended June 30**



*Total Fund returns are shown net of investment management fees beginning FY 2011. Returns prior to FY 2011 are gross of investment management fees.

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ACTUARIAL 4



Actuary's Certification Letter



October 19, 2018

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

Re: Actuarial Certification Letter

Dear Members of the Board:

Actuarial valuations for the San Diego City Employees' Retirement System (SDCERS) are performed annually. The results of the June 30, 2017 actuarial valuations of SDCERS are summarized in this letter

Funding Objective

The funding objective of SDCERS with respect to its plans open to new hires is to fully fund the System's liabilities with contributions, which over time, will remain a level percent of payroll. The open plans include plans sponsored by the Unified Port District, the Airport Authority, and the City of San Diego with respect to the Police portion of the plan. For the plans closed to new hires, the funding objective is to fully fund these plans with level dollar annual payments. The closed plans consist of plans sponsored by the City of San Diego for its Elected and General Employees, Firefighters, and Lifeguards. The System's funding policy is adopted by the SDCERS Board with significant input from the actuary.

Funding Method

The actuarial funding method used by SDCERS is the Entry Age Normal (EAN) actuarial funding method. The normal cost rate is determined by taking the value, as of entry age into the plan, of each member's projected future benefits. This value is then divided by the value, also at entry age, of the each member's expected future salary. The normal cost rate is multiplied by current salary to determine each member's normal cost. Finally, the normal cost is reduced by the member contribution to produce the employer normal cost. The actuarial liability under the EAN method is equal to the present value of all future benefits to be paid to current and former members less the present value of future employer normal costs and member contributions on behalf of current members. Finally, the difference between the EAN actuarial liability and the actuarial value of assets is the Unfunded Actuarial Liability (UAL). The UAL is amortized over the periods described below for each plan sponsor.

Amortization of Unfunded Actuarial Liability

In May 2007, the SDCERS Board adopted the following closed amortization periods, which have been used to calculate the portion of the June 30, 2017 contribution that is attributable to the UAL for all three plan sponsors. The amortization period for the then-existing June 30, 2007 UAL for each plan sponsor was set at 20 years for the City, and 14 years for the Unified Port District and the Airport Authority. For all three plan sponsors, the amortization of future experience gains

and losses was set at 15 years, and the amortization of changes in actuarial methods or assumptions were set at 30 years. The amortization period for plan amendments was set at five years for the City, and 20 years for the Unified Port District and the Airport Authority. All the above amortizations are based on payments being a level percent of payroll.

With the closure of the non-Police portion of the City's plan to new hires effective July 20, 2012, the then-existing UAL layers attributable to that portion of the plan were collapsed into a single amount that was amortized over 15 years. Subsequent gains or losses resulting in additional UAL layers are amortized over 15 years. All UAL amortization layers for the non-Police plan are based on payments being level dollar amounts each year.

Finally, with respect to each plan sponsor, the Board also adopted an additional UAL cost component to ensure there is no negative amortization of the UAL in any year.

Assumptions and Methods

In September 2017, the SDCERS Board adopted two significant changes for the June 30, 2017 valuation. First, the discount rate was lowered from 7.00% to 6.75%, and is scheduled to be reduced from 6.75% to 6.50% for the June 30, 2018 Actuarial Valuation. Second, which only applied to the City and the Unified Port District, a five-year layering method was adopted for certain components of the UAL in order to improve the projected stability of future employer contributions. Under this method, the remaining balance of certain existing UAL bases were each split into five equal layers, with one layer continuing to be amortized over the same period, and each successive layer being amortized over one additional year.

All other assumptions and methods remain the same as in the June 30, 2016 valuation. The assumptions as a whole represent our best estimate for the future experience of SDCERS. The results of this report are dependent upon future experience conforming to these assumptions. To the extent that future experience deviates from these assumptions, the true cost of SDCERS could vary from our results.

The assumptions and methods used in performing this valuation meet the parameters set by Governmental Accounting Standards Board (GASB) Statement No. 67, *Financial Reporting for Pension Plans*, as well as applicable Actuarial Standards of Practice set out by the Actuarial Standards Board.

Plan Provisions

For members of the City of San Diego, the results of the June 30, 2017 valuation included adjustments to the employee contribution rates based on the revised discount rate, as required under San Diego City Charter Section 143 ("substantially equal"). For "New Members" under the California Public Employees' Pension Reform Act (PEPRA) of the Unified Port District and the Airport Authority, the results of the June 30, 2017 valuation included a recalculation of the employee contribution rates, as required under PEPRA. All other plan provisions remain the same as in the June 30, 2016 valuation.

Reliance on Others

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 No. 23.

Supporting Schedules

Using historical information along with results developed by Cheiron, we prepared all supporting schedules to be found in the Actuarial Section and most in the Statistical Section of this CAFR.

Compliance with Code of San Diego §24.0100-0200 and Charter section 149

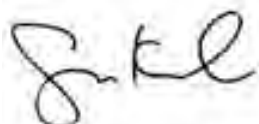
As we are not attorneys we cannot confirm with absolute certainty, but to the best of our knowledge we have complied with the Code of San Diego §24.0100-0200 in valuing the benefits provided to future and current retirees of SDCERS – City Employees. In addition to §24.0100-0200, we have complied with Charter Section 149 in valuing the benefits provided to future and current retirees of the San Diego Unified Port District and the San Diego Airport Authority.

Certification

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, including the use of assumptions and methods for funding purposes that comply with the Actuarial Standards of Practice. Furthermore, as credentialed actuaries, we meet the Qualification Standards of the American Academy of Actuaries to render the opinion contained in this report. This report does not address any contractual or legal issues. We are not attorneys, and our firm does not provide any legal services or advice.

Sincerely,

Cheiron



Gene Kalwarski, FSA, MAAA, EA
Principal Consulting Actuary



Alice Alsberghe, ASA, MAAA
Associate Actuary

San Diego City Employees' Retirement System Summary of June 30, 2017 Valuation Results

Overview

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

- The financial condition of the System,
- Historical trends in the financial condition of the System,
- The SDCERS actuarially determined contribution rates, and
- Information required for the Comprehensive Annual Financial Report (CAFR).

On the pages that follow, we present the following information and schedules from our actuary:

1. The actuary's general comments on the valuation,
2. Historical trends showing the System's funding progress and contributions,
3. Detailed information on the unfunded actuarial liability and the actuarially determined contribution,
4. Summary of actuarial assumptions and methods,
5. Schedule of active member valuation data,
6. Schedule of retirees and beneficiaries added to and removed from the rolls,
7. Solvency test,
8. Analysis of financial experience, and
9. Schedules of funding progress and employer contributions, and
10. Summary of SDCERS benefit provisions and Deferred Retirement Option Plan (DROP) program.

Note that these liabilities are not applicable for settlement purposes, including the purchase of annuities and the payment of lump sums.

San Diego City Employees' Retirement System **Summary of June 30, 2017 Valuation Results** (continued)

1. General Comments

In September 2017, the SDCERS Board adopted two significant changes for the June 30, 2017 valuation. First, the discount rate was lowered from 7.00% to 6.75%, and is scheduled to be reduced from 6.75% to 6.50% for the June 30, 2018 actuarial valuation. Second, which only applied to the City and the Port, a five-year layering method was adopted for certain components of the UAL in order to improve the projected stability of future employer contributions. Under this method, two of the existing UAL bases were each split into five equal layers, with one layer continuing to be amortized over the same period, and each successive layer being amortized over one additional year.

For the City, the results of the valuation included adjustments to the employee contribution rates based on the revised discount rate, as required under San Diego City Charter Section 143 ("substantially equal").

For the Port and the Airport, the results of the valuation included a recalculation of the employee contribution rates for "New Members" under the California Public Employees' Pension Reform Act (PEPRA). The recalculation was required for two reasons. First, since the normal cost rate increased by more than 1% from the time the initial contribution rates were established, PEPRA requires a recalculation of employee contribution rates. Second, at the direction of SDCERS Staff following their revised legal interpretation, SDCERS adjusted the rates to include the full expected cost of the Cost-of-Living (COL) Annuity.

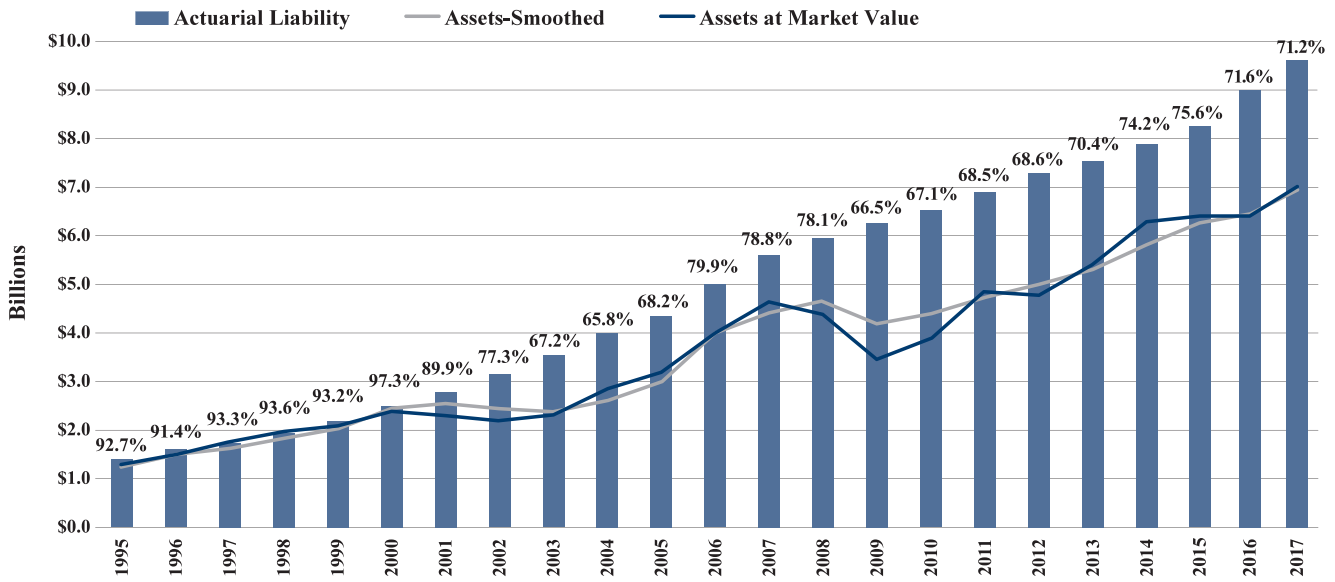
More details on the actuarial assumptions and plan provisions can be found in the Actuarial Assumptions and Methods section of this CAFR.

Effective with the June 30, 2014 valuation, GASB Statement disclosures (No. 67 and No. 68, previously No. 25 and No. 27) have been removed from the Actuarial Valuation Report and are presented in a stand-alone report, which will generally be issued in October of each year.

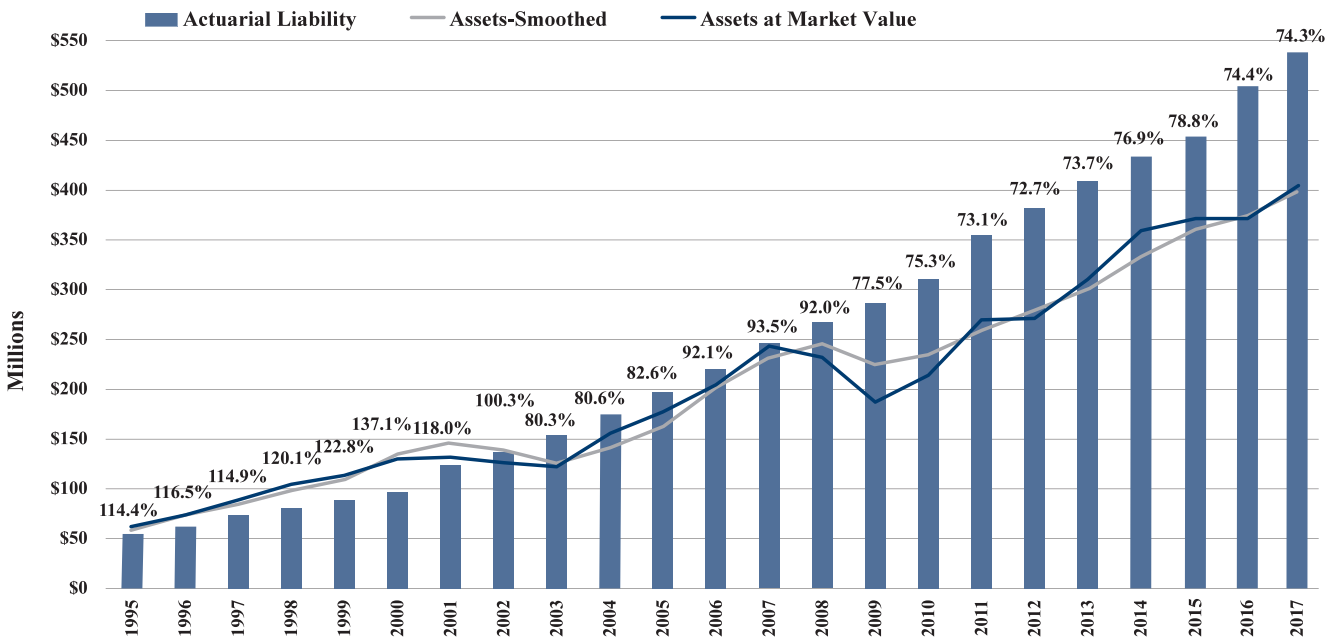
San Diego City Employees' Retirement System
Summary of June 30, 2017 Valuation Results (continued)

2. Historical Trends and Funding Progress
Assets and Liabilities

SDCERS - City Assets and Liabilities 1995 - 2017



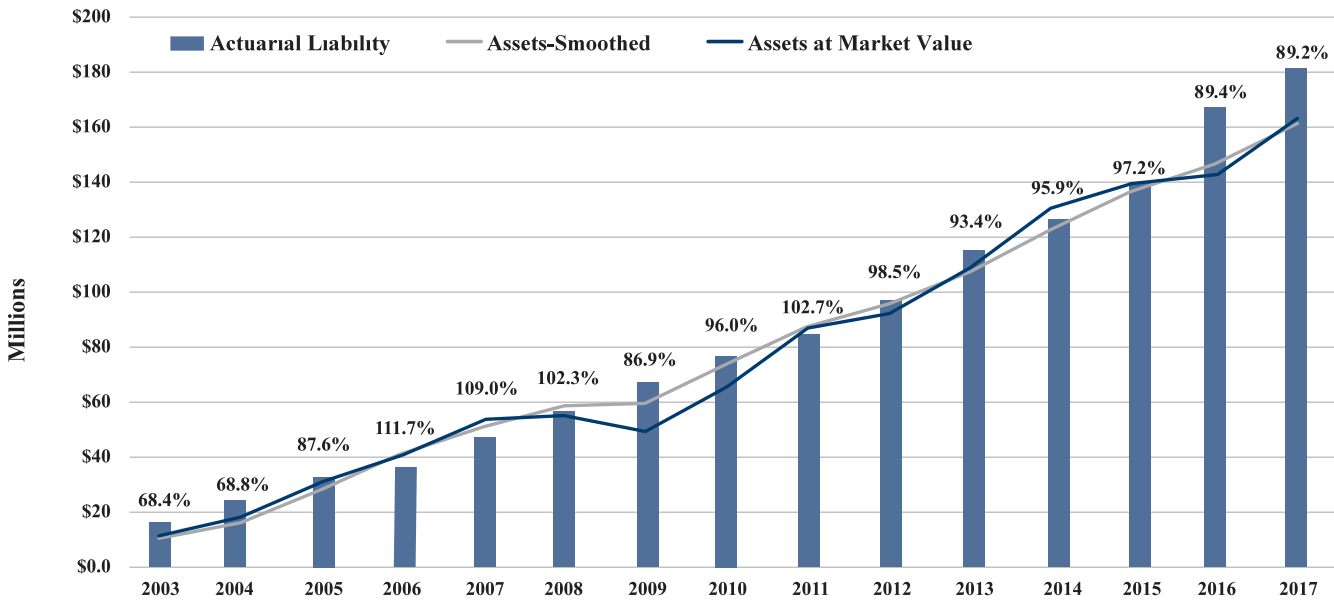
SDCERS - Port Assets and Liabilities 1995 - 2017



San Diego City Employees' Retirement System
Summary of June 30, 2017 Valuation Results (continued)

2. Historical Trends and Funding Progress
Assets and Liabilities

SDCERS - Airport Assets and Liabilities 2003 - 2017



For all three plan sponsors' funding purposes, the target amount is represented by the top of the bar. We compare the actuarial value of assets to this measure of actuarial liability in developing the funded ratio which is shown as percentages in each year.

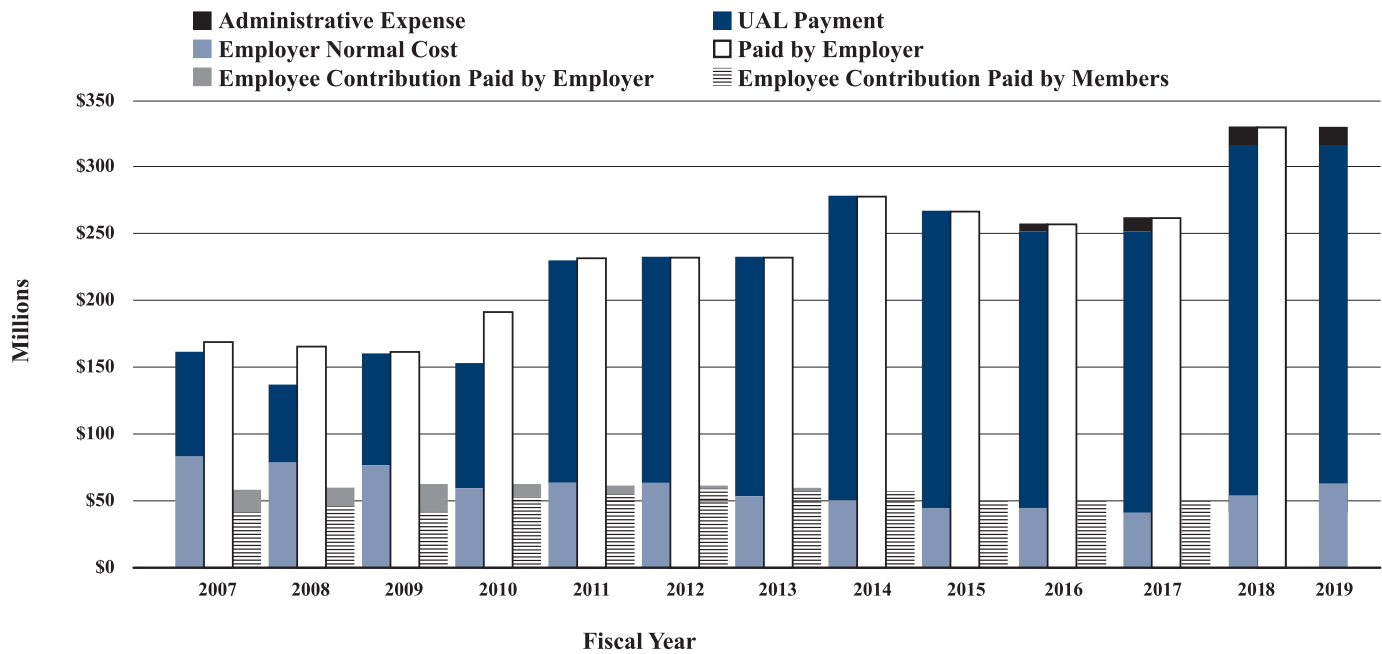
For the periods shown, the most significant decline to the funding ratios was in 2009 due to the market losses of 2008 and 2009. Since 2009, the City's funding ratio was increasing steadily until 2016. The Port's funding ratio decreased slightly in the years following 2009 but had since increased in recent years until 2016. Following 2009, the Airport's funding ratio had been above 90% until 2016.

For 2016 and 2017, all three plan sponsors experienced a decline in the funding ratios driven primarily by changes in assumptions from the recent Experience Study. The assumption changes led to an increase in actuarial liabilities which in turn decreased the funding ratios.

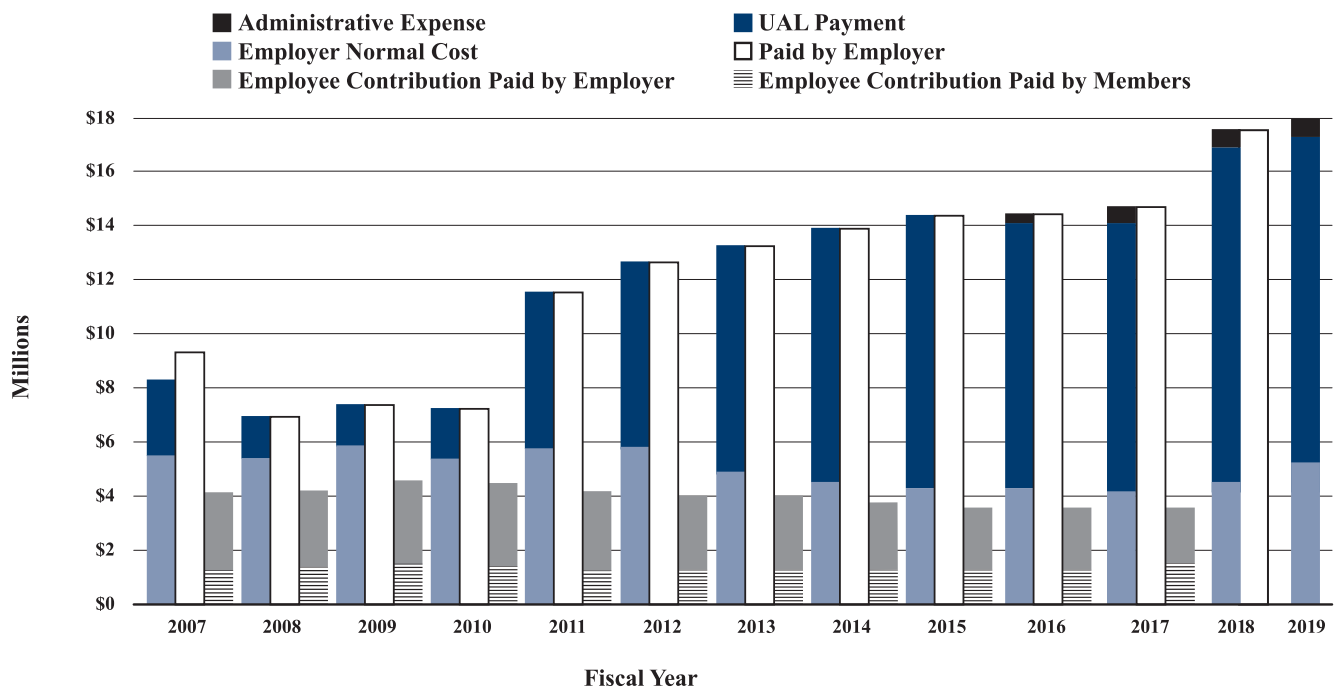
San Diego City Employees' Retirement System
Summary of June 30, 2017 Valuation Results (continued)

3. Contribution Amounts

SDCERS - City and Member Contributions FY 2007 – 2019



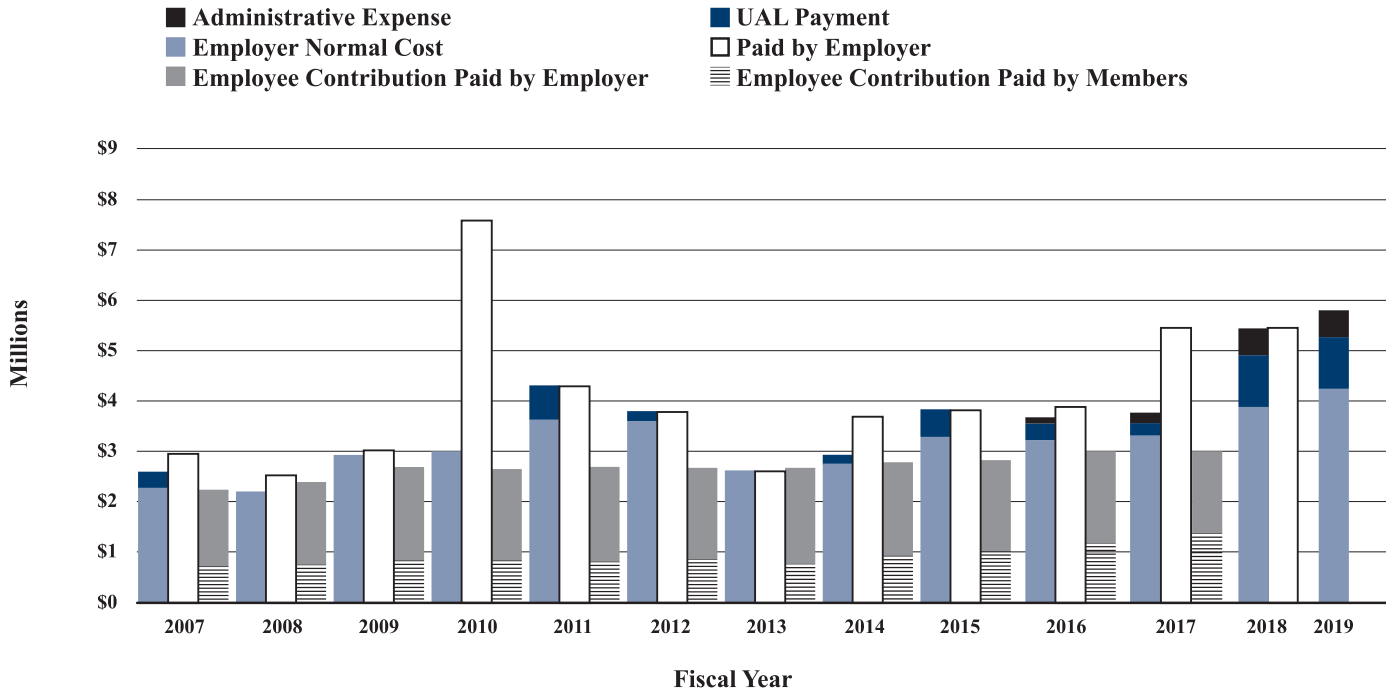
SDCERS – Port and Member Contributions FY 2007 - 2019



San Diego City Employees' Retirement System
Summary of June 30, 2017 Valuation Results (continued)

3. Contribution Amounts

SDCERS - Airport and Member Contributions 2007 - 2019



These charts compare the actual contributions made by the plan sponsor (white bars) to the actuarially determined contributions (ADC). The ADC is broken out by component - Employer Normal Cost plus UAL Payment, plus Administrative Expense (light blue, dark blue, and black bars). The contributions paid by the plan sponsor are based on the Board's adopted funding practice of normal cost plus amortization of the various UAL components, including the requirement beginning in FY 2009 that there is no negative amortization and the requirement beginning in FY 2016 to fund the administrative expenses. Other than the City prior to 2006, all three plan sponsors have consistently contributed at or above the ADC during the periods shown.

In addition, employee contributions paid by the plan sponsor (grey bars) and the Members (striped bars) are also shown. A substantial portion of employee contributions continue to be "offset" (paid for) by the Port and the Airport, whereas for the City such offsets have disappeared almost completely in recent years.

San Diego City Employees' Retirement System Summary of June 30, 2017 Valuation Results (continued)

3. Contribution Rate, UAL and ADC Information

SDCERS - City

Valuation Date	June 30, 2017	June 30, 2016
Unfunded Actuarial Liability (millions)	\$2,757.4	\$2,557.8
Funding Ratio	71.2%	71.6%
City Contribution Rate	76.1%	78.6%
Fiscal Year	2019	2018
Actuarially Determined Contribution		
• if paid at the beginning of the year	\$322.9 million	\$324.5 million

SDCERS - City - Membership Total

Valuation as of:	June 30, 2017	June 30, 2016	% Change
Active Counts	6,388	6,748	-5.3%
Terminated Vested	2,851	2,865	-0.5
Disabled	1,161	1,180	-1.6
Retirees	7,272	6,961	4.5
Beneficiaries	1,335	1,313	1.7
Total City Members	19,007	19,067	-0.3%
Active Member Payroll	\$448,889,789	\$465,100,254	-3.5%
Average Pay per Active Member	70,271	68,924	2.0
Benefits in Pay Status	\$470,812,001	\$443,788,677	6.1%
Average Benefit	48,199	46,942	2.7

SDCERS - City - Assets & Liabilities

Entry Age Normal (EAN) Liabilities	June 30, 2017	June 30, 2016	% Change
Total Actuarial (EAN) Liability	\$9,565,802,458	\$9,013,130,184	6.1%
Market Value Assets	\$7,000,219,655	\$6,307,412,212	11.0%
Actuarial Value Assets	6,808,418,225	6,455,378,088	5.5
Unfunded Actuarial Liability	\$2,757,384,233	\$2,557,752,096	7.8%
Funding Ratio-Actuarial Value	71.2%	71.6%	-0.4%

SDCERS - City - Change in UAL (Dollars in Millions)

1. UAL at June 30, 2016:	\$2,557.8
2. Expected change in UAL	6.3
3. Asset experience	
a. Anticipated investment loss/(gain)	34.8
b. Actual investment loss/(gain)*	(63.1)
c. Employee contributions paid greater than expected	(2.6)
d. Net asset experience (b - a + c)	(100.5)
4. Liability experience loss*	39.9
5. Changes in economic assumptions	254.0
6. Change in amortization method	N/A
7. Other miscellaneous	(0.1)
8. Total change in UAL: sum of 2 through 8	199.6
9. UAL at June 30, 2017: 1 + 8	\$2,757.4

* Combined impact from experience of \$23.2 million (\$63.1 million actual investment gain less \$39.9 million actual liability experience loss).

SDCERS - City - Change in ADC (Dollars in Millions)

1. ADC at June 30, 2016	\$324.5
2. Expected change in ADC	4.8
3. Asset experience	
a. Anticipated investment loss/(gain)	3.6
b. Actual investment loss/(gain)*	(6.5)
c. Employee contributions paid greater than expected	(0.2)
d. Net asset experience (b - a + c)	(10.3)
4. Liability experience loss	8.8
5. Changes in economic assumptions	17.5
6. Change in amortization method	(22.5)
7. Other miscellaneous	0.1
8. Total change in ADC: sum of 2 through 7	(1.6)
9. ADC at June 30, 2017: 1 + 8	\$322.9

San Diego City Employees' Retirement System Summary of June 30, 2017 Valuation Results (continued)

3. Contribution Rate, UAL and ADC Information

SDCERS - Port

	Valuation Date	June 30, 2017	June 30, 2016
Unfunded Actuarial Liability (millions)		\$138.4	\$129.5
Funding Ratio		74.3%	74.4%
Port Contribution Rate		51.5%	52.1%
	Fiscal Year	2019	2018
Actuarially Determined Contribution			
• if paid at the beginning of the year		\$17.9 million	\$17.7 million

SDCERS - Port - Membership Total

Valuation as of:	June 30, 2017	June 30, 2016	% Change
Active Counts	367	362	1.4%
Terminated Vested	274	279	-1.8
Disabled	60	61	-1.6
Retirees	430	415	3.6
Beneficiaries	87	82	6.1
Total Port Members	1,218	1,199	1.6%
Active Member Payroll	\$34,388,005	\$33,684,615	2.1%
Average Pay per Active Member	93,700	93,051	0.7
Benefits in Pay Status	\$25,662,742	\$24,084,860	6.6%
Average Benefit	44,476	43,163	3.0

SDCERS - Port - Assets & Liabilities

Entry Age Normal (EAN) Liabilities	June 30, 2017	June 30, 2016	% Change
Total Actuarial (EAN) Liability	\$539,060,501	\$504,763,128	6.8%
Market Value Assets	\$413,410,765	\$368,232,658	12.3%
Actuarial Value Assets	400,674,072	375,301,415	6.8
Unfunded Actuarial Liability	\$138,386,429	\$129,461,713	6.9%
Funding Ratio-Actuarial Value	74.3%	74.4%	-0.1%

SDCERS - Port - Change in UAL (Dollars in Millions)

1. UAL at June 30, 2016:	\$129.5
2. Expected change in UAL	0.3
3. Asset experience	
a. Anticipated investment loss/(gain)	1.8
b. Actual investment loss/(gain)*	(4.2)
c. Employee contributions paid less than expected	0.0
d. Net asset experience (b - a + c)	(6.0)
4. Liability experience gain*	(0.4)
5. Changes in economic assumptions	15.0
6. Change in amortization method	N/A
7. Other miscellaneous	0.0
8. Total change in UAL: sum of 2 through 8	8.9
9. UAL at June 30, 2017: 1 + 8	\$138.4

* Combined impact from experience of \$4.6 million (\$4.2 million actual investment gain plus \$0.4 million actual liability experience gain).

SDCERS - Port - Change in ADC (Dollars in Millions)

1. ADC at June 30, 2016	\$17.7
2. Expected change in ADC	0.6
3. Asset experience	
a. Anticipated investment loss/(gain)	0.2
b. Actual investment loss/(gain)	(0.3)
c. Employee contributions paid less than expected	0.0
d. Net asset experience (b - a + c)	(0.5)
4. Liability experience gain	(0.1)
5. Changes in economic assumptions	1.1
6. Change in amortization method	(1.0)
7. Other miscellaneous	0.1
8. Total change in ADC: sum of 2 through 7	0.2
9. ADC at June 30, 2017: 1 + 8	\$17.9

San Diego City Employees' Retirement System Summary of June 30, 2017 Valuation Results (continued)

3. Contribution Rate, UAL and ADC Information

SDCERS - Airport

Valuation Date	June 30, 2017	June 30, 2016
Unfunded Actuarial Liability (millions)	\$19.8	\$17.6
Funding Ratio	89.2%	89.4%
Airport Contribution Rate	17.9%	17.2%
Fiscal Year	2019	2018
Actuarially Determined Contribution		
• if paid at the beginning of the year	\$5.7 million	\$5.4 million

SDCERS - Airport - Membership Total

Valuation as of:	June 30, 2017	June 30, 2016	% Change
Active Counts	394	385	2.3%
Terminated Vested	119	112	6.3
Disabled	2	2	0.0
Retirees	100	83	20.5
Beneficiaries	5	5	0.0
Total Airport Members	620	587	5.6%
Active Member Payroll	\$31,628,301	\$31,131,795	1.6%
Average Pay per Active Member	80,275	80,862	-0.7
Benefits in Pay Status	\$4,717,765	\$3,719,054	26.9%
Average Benefit	44,091	41,323	6.7

SDCERS - Airport - Assets & Liabilities

Entry Age Normal (EAN) Liabilities	June 30, 2017	June 30, 2016	% Change
Total Actuarial (EAN) Liability	\$183,077,245	\$165,666,873	10.5%
Market Value Assets	\$166,843,561	\$143,873,239	16.0%
Actuarial Value Assets	163,315,728	148,084,058	10.3
Unfunded Actuarial Liability	\$19,761,517	\$17,582,816	12.4%
Funding Ratio-Actuarial Value	89.2%	89.4%	-0.2%

SDCERS - Airport - Change in UAL (Dollars in Millions)

1. UAL at June 30, 2016:	\$17.6
2. Expected change in UAL	2.4
3. Asset experience	
a. Anticipated investment loss/(gain)	1.0
b. Actual investment loss/(gain)*	(1.2)
c. Employer and Employee contributions paid greater than expected	(1.6)
d. Net asset experience (b - a + c)	(3.8)
4. Liability experience gain*	(2.2)
5. Changes in economic assumptions	5.8
6. Other miscellaneous	(0.0)
7. Total change in UAL: sum of 2 through 6	2.2
8. UAL at June 30, 2017: 1 + 7	\$19.8

* Combined impact from experience of \$3.4 million (\$1.2 million actual investment gain plus \$2.2 million actual liability experience gain).

SDCERS - Airport - Change in ADC (Dollars in Millions)

1. ADC at June 30, 2016	\$5.4
2. Expected change in ADC	0.1
3. Asset experience	
a. Anticipated investment loss/(gain)	0.1
b. Actual investment loss/(gain)*	(0.1)
c. Employer and Employee contributions paid greater than expected	(0.1)
d. Net asset experience (b - a + c)	(0.3)
4. Liability experience gain	(0.1)
5. Changes in economic assumptions	0.6
6. Other miscellaneous	(0.0)
7. Total change in ADC: sum of 2 through 6	0.3
8. ADC at June 30, 2017: 1 + 7	\$5.7

San Diego City Employees' Retirement System Summary of June 30, 2017 Valuation Results (continued)

4. Summary of Assumptions and Methods

SDCERS administers three separate single employer defined benefit pension plans for the City, Port and Airport, and provides service retirement, disability retirement, death and survivor benefits to its participants.

The SDCERS Board has the authority to select economic and demographic assumptions for the plans. The investment return, inflation, and COLA assumptions reflect the results of an economic experience study performed by Cheiron and presented to the SDCERS Board in September 2017. All other assumptions described on the following pages reflect the results of a full experience study performed by Cheiron covering the period July 1, 2010 through June 30, 2015, and adopted by the SDCERS Board in September 2016.

In regards to the City, the December 5, 2017 agreement between the City of San Diego and the San Diego Police Officers Association is not reflected in the assumptions for the June 30, 2017 valuation, except in projecting total payroll to FY 2019 for the purpose of determining the normal cost portion of the ADC.

A. 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 UAL is the difference between the actuarial liability and the actuarial value of assets, and is allocated to each sub-group based on its liability.

Expected administrative expenses are included in the actuarially determined contribution (ADC). The administrative expense component is assumed to increase by 2.5% per year.

The UAL is amortized by annual payments. The payments are determined as a level percentage of pay, assuming payroll increases 3.05% per year, for the Police portion of the City plan, the Port, and the Airport. The payments for the non-Police portion of the City plan are determined as level dollar amounts. For all three plan sponsors, if necessary, there is an additional UAL cost component to ensure that there is no negative amortization in any year. The UAL for FY 2019 is amortized over several different periods, which as of June 30, 2017, are as follows:

City

2017 Police Assumption Change – 30 years (level percentage of pay)
 2017 Police Experience Gain – 15 years (level percentage of pay)
 2017 Non-Police Assumption Change – 30 years (level dollar payments)
 2017 Non-Police Experience Gain – 15 years (level dollar payments)
 2016 Police Assumption Change – 29 years (level percentage of pay)
 2016 Police Experience Loss – 14 years (level percentage of pay)
 2016 Non-Police Assumption Change – 29 years (level dollar payments)
 2016 Non-Police Experience Loss – 14 years (level dollar payments)
 2015 Police Assumption Change – 28 years (level percentage of pay)
 2015 Police Experience Gain – 13 years (level percentage of pay)
 2015 Non-Police Assumption Change – 28 years (level dollar payments)
 2015 Non-Police Experience Gain – 13 years (level dollar payments)
 2014 Police Experience Gain – 12 years (level percentage of pay)
 2014 Non-Police Experience Gain – 12 years (level dollar payments)
 2013 Police Salary Freeze – 11 years (level percentage of pay)
 2013 Police Assumption Change – 26 years (level percentage of pay)
 2013 Police Experience Loss – 11 years (level percentage of pay)
 2013 Non-Police Salary Freeze – 11 years (level dollar payments)
 2013 Non-Police Assumption Change – 26 years (level dollar payments)
 2013 Non-Police Experience Loss – 11 years (level dollar payments)

2012 Non-Police UAL – (level dollar payments)

Layer 1 – 10 years
 Layer 2 – 11 years
 Layer 3 – 12 years
 Layer 4 – 13 years
 Layer 5 – 14 years
 2012 Method Change – 25 years
 2012 Experience Loss – 10 years
 2011 Assumption Change – 24 years
 2011 Experience Gain – 9 years
 2010 Experience Gain (PSC) – 7 years
 2010 Experience Loss – 8 years
 2009 Experience Loss –
 Layer 1 – 7 years
 Layer 2 – 8 years
 Layer 3 – 9 years
 Layer 4 – 10 years
 Layer 5 – 11 years
 2008 Experience Loss – 6 years
 2008 Assumption Change – 21 years
 2007 Original UAL – 10 years

San Diego City Employees' Retirement System Summary of June 30, 2017 Valuation Results (continued)

Port

2017 Assumption Change – 30 years
 2017 Experience Gain – 15 years
 2016 Assumption Change – 29 years
 2016 Experience Loss – 14 years
 2015 Assumption Change – 28 years
 2015 Experience Gain – 13 years
 2014 Experience Gain – 12 years
 2013 Assumption Change – 26 years
 2013 Experience Gain – 11 years
 2012 Method Change – 25 years
 2012 Experience Loss – 10 years
 2011 Assumption Change – 24 years
 2011 Plan Change (ERIP) – 14 years
 2011 Experience Gain – 9 years
 2010 Experience Loss – 8 years
 2009 Experience Loss –
 Layer 1 – 7 years
 Layer 2 – 8 years
 Layer 3 – 9 years
 Layer 4 – 10 years
 Layer 5 – 11 years
 2008 Experience Loss – 6 years
 2008 Assumption Change – 21 years
 2007 Original UAL – 4 years

Airport

2017 Assumption Change – 30 years
 2017 Experience Gain – 15 years
 2016 Assumption Change – 29 years
 2016 Experience Loss – 14 years
 2015 Assumption Change – 28 years
 2015 Experience Gain – 13 years
 2014 Experience Gain – 12 years
 2013 Assumption Change – 26 years
 2013 Experience Loss – 11 years
 2012 Method Change – 25 years
 2012 Experience Loss – 10 years
 2011 Assumption Change – 24 years
 2011 Experience Gain – 9 years
 2010 Experience Gain (PSC) – 8 years
 2010 Experience Gain – 8 years
 2009 Experience Loss – 7 years
 2008 Experience Gain – 6 years
 2008 Assumption Change – 21 years
 2007 Original UAL – 4 years

B. Asset Valuation Method

For the purposes of determining each plan sponsor's actuarially determined contribution, SDCERS' actuaries 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 each year is equal to 100% of the expected actuarial value of assets 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 ever greater than 120% of the market value of assets.

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, and all items (prior assets, contributions, and disbursements) are further adjusted with expected investment returns for the year.

C. Method Changes Since Last Valuation

An adjustment to the method for calculating the UAL amortization payment for the City and the Unified Port District using a 5-year layering approach for specified bases was implemented, as voted by the SDCERS Board at the September 2017 meeting.

San Diego City Employees' Retirement System
Summary of June 30, 2017 Valuation Results (continued)

Long Term Assumptions Used to Determine System Costs and Liabilities

D. Demographic Assumptions

Rates of Mortality for Active Lives

Active members use the CalPERS Pre-Retirement Mortality Table base rates from the CalPERS January 2014 Experience Study, projected 20 years from the 2009 base year using a variation of Scale MP-2015 from the Society of Actuaries. The scale was modified using the Society of Actuaries' model implementation tool with rates converging to the ultimate rate in 2019 (instead of 2029) and an ultimate rate of improvement of 0.75% (instead of 1.0%) up to age 85 and decreasing to 0.60% (instead of 0.85%) at age 95. Sample rates are as follows (including mortality improvement projection):

Rates of Mortality for Active Lives at Selected Ages

Age	General and Safety	
	Male	Female
20	0.02%	0.02%
25	0.03	0.02
30	0.04	0.02
35	0.05	0.03
40	0.06	0.04
45	0.09	0.06
50	0.13	0.09
55	0.21	0.14
60	0.31	0.19
65	0.42	0.27
70	0.58	0.38

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

Rates of Mortality for Retired Healthy Lives & Terminated Vested Members

Retired healthy and terminated vested members use the CalPERS Post-Retirement Healthy Mortality Table base rates from the CalPERS January 2014 Experience Study, with a 10% increase to female rates, projected 20 years from the 2009 base year using a variation of Scale MP-2015 from the Society of Actuaries. The scale was modified using the Society of Actuaries' model implementation tool with rates converging to the ultimate rate in 2019 (instead of 2029) and an ultimate rate of improvement of 0.75% (instead of 1.0%) up to age 85 and decreasing to 0.60% (instead of 0.85%) at age 95. Sample rates are as follows (including mortality improvement projection):

Rates of Mortality for Retired Healthy Lives at Selected Ages

Age	General and Safety	
	Male	Female
40	0.09%	0.09%
45	0.18	0.19
50	0.42	0.46
55	0.54	0.45
60	0.71	0.50
65	0.88	0.67
70	1.44	1.13
75	2.42	1.98
80	4.3	3.38
85	7.76	6.13
90	13.54	11.42

San Diego City Employees' Retirement System
Summary of June 30, 2017 Valuation Results (continued)

Rates of Mortality for Retired Disabled Lives

Disabled members use the CalPERS Work-Related Disability Mortality Table base rates from the CalPERS January 2014 Experience Study, projected 20 years from the 2009 base year using a variation of Scale MP-2015 from the Society of Actuaries. The scale was modified using the Society of Actuaries' model implementation tool with rates converging to the ultimate rate in 2019 (instead of 2029) and an ultimate rate of improvement of 0.75% (instead of 1.0%) up to age 85 and decreasing to 0.60% (instead of 0.85%) at age 95. Sample rates are as follows (including mortality improvement projection):

Rates of Mortality for Disabled Lives at Selected Ages

Age	General and Safety	
	Male	Female
40	0.19%	0.17%
45	0.26	0.24
50	0.42	0.42
55	0.54	0.41
60	0.75	0.54
65	1.19	0.86
70	1.80	1.44
75	3.11	2.42
80	5.41	4.14
85	8.55	6.64
90	13.54	10.38

Termination of Employment (Prior to Normal Retirement Eligibility)

Rates of termination vary by plan sponsor.

SDCERS - City
Rates of Termination

Service	General	Safety	Service	General	Safety
0	10.00%	10.00%	11	2.75	1.80
1	9.00	8.00	12	2.75	1.80
2	8.50	6.00	13	2.75	1.80
3	7.50	5.00	14	2.75	1.80
4	6.50	4.00	15	2.75	1.60
5	5.50	3.00	16	2.75	1.60
6	4.50	2.75	17	2.75	1.60
7	4.25	2.50	18	2.75	1.60
8	4.00	2.25	19	2.75	1.60
9	3.25	2.00	20+	2.75	1.50
10	2.75	1.80			

For the City of San Diego, 20% of terminating employees, with 10+ years of service at termination (4+ years of service for Elected), are assumed to subsequently work for a reciprocal employer and receive 3.55% pay increases per year.

San Diego City Employees' Retirement System
Summary of June 30, 2017 Valuation Results (continued)

SDCERS - Port Rates of Termination			SDCERS - Airport Rates of Termination	
Service	General	Safety	Service	General
0	11.00%	14.00%	0	11.00%
1	10.00	12.00	1	10.00
2	9.00	10.00	2	9.00
3	8.00	8.00	3	8.00
4	7.00	5.00	4	7.00
5	6.50	4.25	5	5.50
6	6.00	4.25	6	4.50
7	5.50	4.25	7	4.50
8	5.25	4.25	8	4.00
9	5.00	4.25	9	4.00
10	4.75	4.00	10	3.00
11	4.75	4.00	11	3.00
12	4.75	4.00	12	3.00
13	4.75	4.00	13	3.00
14	4.75	4.00	14	3.00
15	4.50	3.75	15	3.00
16	4.50	3.75	16	3.00
17	4.50	3.75	17	3.00
18	4.50	3.75	18	3.00
19	4.50	3.75	19	3.00
20+	4.25	3.50	20+	3.00

For the Port and the Airport, 10% of termination employees, with 5+ years of service at termination (10+ years of service if terminated prior to December 31, 2002), are assumed to subsequently work for a reciprocal employer and receive 3.55% pay increases per year.

No terminations are assumed once retirement eligible for all plan sponsors.

Disability

Rates of Disability at Selected Ages

Age	General	Safety
20	0.01%	0.15%
25	0.02	0.18
30	0.03	0.20
35	0.04	0.27
40	0.05	0.37
45	0.08	0.47
50	0.15	0.57
55	0.20	0.67
60	0.30	--

75% of the General and Elected disabilities and 90% of the Safety disabilities are assumed to be industrial disability retirements. Non-industrial disability retirement is subject to a service requirement.

Family Composition

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.

San Diego City Employees' Retirement System
Summary of June 30, 2017 Valuation Results (continued)

Retirement

Rates of retirement vary by plan sponsor. Retirement rates include both service retirements and entry into DROP.

SDCERS - City
Rates of Retirement by Age and Service

Service	General – Old Plan		Safety – All Plans	
	Prior to age 62	Age 62 or greater	Prior to age 55	Age 55 or greater
10	-%	45.0%	-%	45.0%
11	-	40.0	-	40.0
12	-	40.0	-	40.0
13	-	40.0	-	40.0
14	-	40.0	-	40.0
15	-	40.0	-	35.0
16	-	43.0	-	35.0
17	-	46.0	-	35.0
18	-	49.0	-	35.0
19	-	52.0	-	35.0
20	50.0	55.0	25.0	50.0
21	35.0	40.0	30.0	45.0
22	37.5	40.0	35.0	45.0
23	40.0	40.0	40.0	45.0
24	42.5	40.0	45.0	45.0
25	45.0	40.0	50.0	45.0
26	47.5	40.0	55.0	45.0
27	47.5	40.0	60.0	45.0
28	47.5	40.0	65.0	45.0
29	47.5	40.0	65.0	45.0
30	55.0	40.0	100.0	100.0
31	57.5	40.0	100.0	100.0
32	60.0	40.0	100.0	100.0
33	62.5	40.0	100.0	100.0
34	65.0	40.0	100.0	100.0
35+	100.0	100.0	100.0	100.0

San Diego City Employees' Retirement System
Summary of June 30, 2017 Valuation Results (continued)

SDCERS - City Rates of Retirement by Age For General 2009 Plan		SDCERS - City Rates of Retirement at Selected Ages	
Age	General	Age	Elected Officials
55	3.0%	50	-%
56	3.0	51	-
57	3.0	52	-
58	5.0	53	15.0
59	5.0	54	1.0
60	10.0	55	5.0
61	15.0	56	3.0
62	20.0	57	4.0
63	30.0	58	5.0
64	40.0	59	6.0
65	50.0	60	60.0
66	50.0	61	25.0
67	50.0	62	37.0
68	50.0	63	23.0
69	50.0	64	34.0
70	100.0	65	68.0
		66	69.0
		67	74.0
		68	80.0
		69	90.0
		70	100.0

All members are assumed to retire at the later of current age or age 70, regardless of service.

For terminated vested members of the City, 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.

General 2009 Members: Age 65.

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

For terminated vested City 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.

San Diego City Employees' Retirement System
Summary of June 30, 2017 Valuation Results (continued)

SDCERS - Port					SDCERS - Airport		
Rates of Retirement by Service Years					Rates of Retirement by Service Years		
Service	General		Safety		Service	Prior to age 62	Age 62 or greater
	Prior to age 62	Age 62 or greater	Prior to age 55	Age 55 or greater			
5-9	-%	33.0%	-%	9.0%	5-9	-%	9.0%
10	-	40.0	-	40.0	10	-	33.3
11	-	40.0	-	40.0	11	-	33.3
12	-	40.0	-	40.0	12	-	33.3
13	-	40.0	-	40.0	13	-	33.3
14	-	40.0	-	40.0	14	-	33.3
15	-	42.5	-	40.0	15	-	40.0
16	-	42.5	-	40.0	16	-	40.0
17	-	42.5	-	40.0	17	-	40.0
18	-	42.5	-	40.0	18	-	40.0
19	-	42.5	-	40.0	19	-	40.0
20	40.5	50.0	45.0	50.0	20	30.0	45.0
21	33.3	50.0	35.0	50.0	21	15.0	47.0
22	35.1	50.0	40.0	50.0	22	17.5	49.0
23	36.9	50.0	45.0	50.0	23	20.0	51.0
24	38.7	50.0	50.0	50.0	24	22.5	53.0
25	40.5	50.0	55.0	60.0	25	22.5	55.0
26	42.3	50.0	60.0	60.0	26	22.5	57.0
27	44.1	50.0	65.0	60.0	27	25.0	59.0
28	45.9	50.0	70.0	60.0	28	25.0	61.0
29	47.7	50.0	75.0	60.0	29	30.0	63.0
30	49.5	50.0	100.0	100.0	30	30.0	65.0
31	51.3	50.0	100.0	100.0	31	40.0	67.0
32	53.1	50.0	100.0	100.0	32	40.0	69.0
33	54.9	50.0	100.0	100.0	33	40.0	71.0
34	56.7	50.0	100.0	100.0	34	40.0	73.0
35+	100.0	100.0	100.0	100.0	35+	100.0	100.0

All members are assumed to retire at the later of current age or age 70, regardless of service.

For terminated vested members of the Port and the Airport, we assume that retirement will occur provided they have at least five years of service (for Port members, at least ten years of service if terminated prior to December 31, 2002) 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 (50 if PEPRA) or age 50 and 20+ years of service.

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

San Diego City Employees' Retirement System
Summary of June 30, 2017 Valuation Results (continued)

E. Economic Assumptions

- Investment Return: SDCERS' assets are assumed to earn 6.75% net of investment expenses.
- Interest Credited to Member Contributions: 6.75%, compounded annually.
- Administrative Expense: Administrative expenses are assumed to be \$11,787,500 for the City, \$799,500 for the Port, and \$358,750 for the Airport for FY 2019, increasing by 2.50% annually.
- Rate of Wage Increase: 3.05% compounded annually (following an assumed freeze in FY 2018 for the City. A freeze had also been assumed for FYs 2013 and 2014 for the Airport and for FYs 2013-2017 for the City).

Additional Merit Wage Increase:	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%	

Rate of Increase in Cost-of-Living: 1.90% compounded per annum, compounded annually.

Total Payroll Increase (For amortization): 3.05% compounded per annum.

COL Annuity Benefit: For both active and terminated vested members, the actuarial liability for the COL annuity benefit is valued by added one-sixth of accumulated member contribution accounts.

For active members of the City, the normal cost of the COL annuity benefit is equal to one-sixth of the employee contribution rate.

For active members of the Port and Airport, a load factor of 2.5% and 2.0%, respectively, is applied on the normal cost for future member contributions.

For PEPRA participants of the Port and Airport, the normal cost of the COL annuity is equal to one-sixth of the employee contribution rate.

Members under the City Elected, City Police 2012 No COL Plan, City Police Prop B Plan, and Port Miscellaneous Plan do not receive a COL annuity benefit.

F. Assumption Changes Since Last Valuation

In September 2017, the SDCERS Board voted to reduce the discount rate from 7.00% to 6.75% for the 2017 valuation. This assumption is scheduled to be further reduced to 6.50% for the 2018 valuation.

The DROP interest crediting rate used to value the liability for account balances was increased from 1.5% to 2.0% to reflect the Board's adoption of these rates at its November 2017 meeting.

San Diego City Employees' Retirement System
Summary of June 30, 2017 Valuation Results (continued)

5. Schedule of Active Member Valuation Data

SDCERS - City

<u>Valuation Date</u>	<u>Active Members</u>	<u>Annual Payroll¹</u>	<u>Average Annual Payroll</u>	<u>% Increase In Average Annual Pay</u>
6/30/2017	6,388	\$448,889,789	\$70,271	1.95%
6/30/2016	6,748	465,100,254	68,924	0.92
6/30/2015	7,038	480,662,378	68,295	3.35
6/30/2014	7,272	480,535,973	66,080	0.10
6/30/2013	7,566	499,463,072	66,014	-0.23
6/30/2012	7,724	511,090,601	66,169	0.26
6/30/2011	7,792	514,264,750	65,999	1.07
6/30/2010	8,120	530,238,356	65,300	0.68
6/30/2009	8,273	536,591,287	64,861	2.74
6/30/2008	8,487	535,774,438	63,129	4.64

SDCERS - Port

<u>Valuation Date</u>	<u>Active Members</u>	<u>Annual Payroll¹</u>	<u>Average Annual Payroll</u>	<u>% Increase In Average Annual Pay</u>
6/30/2017	367	\$34,388,005	\$93,700	0.70%
6/30/2016	362	33,684,615	93,051	4.68
6/30/2015	377	33,512,411	88,892	2.86
6/30/2014	385	33,272,693	86,423	4.37
6/30/2013	417	34,528,283	82,802	0.41
6/30/2012	435	35,872,676	82,466	10.49
6/30/2011	464	34,632,573	74,639	1.39
6/30/2010	532	39,164,664	73,618	2.85
6/30/2009	564	40,370,258	71,578	4.68
6/30/2008	565	38,634,835	68,380	2.87

SDCERS - Airport

<u>Valuation Date</u>	<u>Active Members</u>	<u>Annual Payroll¹</u>	<u>Average Annual Payroll</u>	<u>% Increase In Average Annual Pay</u>
6/30/2017	394	\$31,628,301	\$80,275	-0.73%
6/30/2016	385	31,131,795	80,862	1.95
6/30/2015	368	29,189,357	79,319	2.71
6/30/2014	362	27,955,455	77,225	1.58
6/30/2013	347	26,380,323	76,024	4.37
6/30/2012	341	24,839,570	72,843	-0.36
6/30/2011	344	25,148,489	73,106	-0.89
6/30/2010	347	25,595,623	73,763	0.97
6/30/2009	338	24,693,427	73,057	6.06
6/30/2008	341	23,488,283	68,881	1.64

¹ Beginning with FY 2012, reported payroll includes across the board increases for the upcoming fiscal year. Historical data for prior years does not include those increases.

San Diego City Employees' Retirement System
Summary of June 30, 2017 Valuation Results (continued)

6. Schedule of Retirees and Beneficiaries Added to and Removed From Rolls

SDCERS - City

Year Ended	Added			Removed			Total			% Increase In Annual Allowances	Average Annual Allowances
	Count	Annual Allowances	Avg. Age	Count	Annual Allowances	Avg. Age	Count	Annual Allowances	Avg. Age		
6/30/2017	545	\$25,475,201	58.2	231	\$6,623,297	79.4	9,768	\$470,812,001	67.3	6.09%	\$48,199
6/30/2016	526	24,157,144	59.1	175	4,779,592	80.1	9,454	443,788,677	67.1	5.86	46,942
6/30/2015	507	20,835,315	59.1	226	6,281,172	80.4	9,103	419,209,660	66.9	5.17	46,052
6/30/2014	587	25,462,105	58.5	219	5,501,855	81.2	8,822	398,603,107	66.7	7.26	45,183
6/30/2013	443	19,731,540	57.5	194	4,468,578	80.8	8,454	371,628,344	66.7	6.13	43,959
6/30/2012	493	22,347,927	57.6	190	4,458,749	79.7	8,205	350,163,968	66.5	7.17	42,677
6/30/2011	515	22,410,486	57.2	194	4,665,675	78.3	7,902	326,748,899	66.4	7.68	41,350
6/30/2010	439	19,192,613	58.0	227	4,443,897	79.6	7,581	303,457,616	66.4	7.01	40,029
6/30/2009	629	28,495,488	57.7	200	3,531,559	80.9	7,369	283,586,563	66.3	11.69	38,484
6/30/2008	446	19,239,330	58.2	185	3,487,942	79.8	6,940	253,894,388	66.6	8.43	36,584

SDCERS - Port

Year Ended	Added			Removed			Total			% Increase In Annual Allowances	Average Annual Allowances
	Count	Annual Allowances	Avg. Age	Count	Annual Allowances	Avg. Age	Count	Annual Allowances	Avg. Age		
6/30/2017	37	\$1,531,184	60.8	18	\$400,443	83.7	577	\$25,662,742	68.7	6.55%	\$44,476
6/30/2016	28	1,216,201	60.9	6	100,832	83.7	558	24,084,860	68.7	5.90	43,163
6/30/2015	32	1,733,799	57.9	14	297,954	76.2	536	22,743,044	68.3	8.13	42,431
6/30/2014	42	2,319,752	59.5	9	333,982	74.5	518	21,033,503	68.2	12.65	40,605
6/30/2013	21	958,662	59.4	11	484,745	72.9	485	18,670,937	68.1	4.61	38,497
6/30/2012	27	980,818	64.3	16	271,767	74.7	475	17,847,929	67.6	6.09	37,575
6/30/2011	78	4,003,858	58.7	16	319,641	80.7	464	16,823,951	67.1	30.32	36,259
6/30/2010	20	931,654	58.3	9	123,377	79.7	402	12,910,177	68.3	8.78	32,115
6/30/2009	38	1,315,959	60.4	8	189,559	77.8	391	11,867,970	68.1	12.20	30,353
6/30/2008	24	825,588	61.6	12	207,767	74.8	361	10,577,682	68.2	8.09	29,301

SDCERS - Airport

Year Ended	Added			Removed			Total			% Increase In Annual Allowances	Average Annual Allowances
	Count	Annual Allowances	Avg. Age	Count	Annual Allowances	Avg. Age	Count	Annual Allowances	Avg. Age		
6/30/2017	17	\$924,921	61.9	0	\$-	N/A	107	\$4,717,765	65.8	26.85%	\$44,091
6/30/2016	16	664,448	62.0	2	25,785	59.6	90	3,719,054	65.5	22.04	41,323
6/30/2015	9	347,737	62.7	-	-	N/A	76	3,047,331	65.1	14.18	40,096
6/30/2014	16	614,884	60.4	-	-	N/A	67	2,668,801	64.5	32.52	39,833
6/30/2013	6	285,905	61.1	1	21,407	77.3	51	2,013,899	64.8	17.33	39,488
6/30/2012	8	448,928	61.0	-	-	N/A	46	1,716,384	64.5	36.26	37,313
6/30/2011	12	326,099	63.2	-	-	N/A	38	1,259,628	64.3	35.54	33,148
6/30/2010	4	130,624	60.9	-	-	N/A	26	929,350	63.8	18.84	35,744
6/30/2009	5	286,756	57.2	-	-	N/A	22	782,035	63.3	62.84	35,547
6/30/2008	5	148,248	59.3	-	-	N/A	17	480,239	64.1	46.61	28,249

San Diego City Employees' Retirement System
Summary of June 30, 2017 Valuation Results (continued)

7. Aggregate Accrued Liabilities Solvency Test

SDCERS - City

Valuation Date	Aggregate Accrued Liabilities for (Dollars in Thousands)				Portion of Accrued Liabilities Covered by Reported Assets		
	(A)	(B)	(C)		(A)	(B)	(C)
	<u>Active Member Contributions</u>	<u>Retirees And Beneficiaries</u>	<u>Remaining Active Members' Liabilities</u>	<u>Reported Assets¹</u>			
6/30/2017 ²	\$808,937	\$6,692,735	\$2,064,131	\$6,808,418	100.00%	89.64%	0.00%
6/30/2016 ²	798,226	6,221,393	1,993,511	6,455,378	100.00	90.93	0.00
6/30/2015 ²	779,487	5,579,503	1,846,962	6,204,244	100.00	97.23	0.00
6/30/2014	741,628	5,304,270	1,812,805	5,828,594	100.00	95.90	0.00
6/30/2013 ³	709,796	4,975,550	1,870,181	5,317,778	100.00	92.61	0.00
6/30/2012	662,488	4,625,110	1,974,133	4,982,442	100.00	93.40	0.00
6/30/2011 ²	627,447	4,344,218	1,945,510	4,739,399	100.00	94.65	0.00
6/30/2010	584,296	3,912,113	2,030,816	4,382,047	100.00	97.08	0.00
6/30/2009	535,797	3,673,185	2,072,655	4,175,229	100.00	99.08	0.00
6/30/2008 ²	522,966	3,286,668	2,153,916	4,660,346	100.00	100.00	39.50

SDCERS - Port

Valuation Date	Aggregate Accrued Liabilities for (Dollars in Thousands)				Portion of Accrued Liabilities Covered by Reported Assets		
	(A)	(B)	(C)		(A)	(B)	(C)
	<u>Active Member Contributions</u>	<u>Retirees And Beneficiaries</u>	<u>Remaining Active Members' Liabilities</u>	<u>Reported Assets¹</u>			
6/30/2017 ²	\$23,006	\$346,947	\$169,108	\$400,674	100.00%	100.00%	18.17%
6/30/2016 ²	22,964	318,513	163,286	375,301	100.00	100.00	20.71
6/30/2015 ²	21,857	285,175	146,742	357,600	100.00	100.00	34.46
6/30/2014	22,613	261,029	149,630	333,229	100.00	100.00	33.14
6/30/2013 ²	23,744	230,880	155,402	302,322	100.00	100.00	30.69
6/30/2012	21,236	218,954	141,824	277,822	100.00	100.00	26.53
6/30/2011 ²	19,138	207,854	127,845	259,315	100.00	100.00	25.28
6/30/2010	21,999	150,188	138,280	233,788	100.00	100.00	44.55
6/30/2009	20,784	137,803	130,112	223,879	100.00	100.00	50.18
6/30/2008 ²	19,397	123,029	124,611	245,580	100.00	100.00	82.78

SDCERS - Airport

Valuation Date	Aggregate Accrued Liabilities for (Dollars in Thousands)				Portion of Accrued Liabilities Covered by Reported Assets		
	(A)	(B)	(C)		(A)	(B)	(C)
	<u>Active Member Contributions</u>	<u>Retirees And Beneficiaries</u>	<u>Remaining Active Members' Liabilities</u>	<u>Reported Assets¹</u>			
6/30/2017 ²	\$14,393	\$65,368	\$103,316	\$163,316	100.00%	100.00%	80.87%
6/30/2016 ²	14,073	50,999	100,595	148,084	100.00	100.00	82.52
6/30/2015 ²	14,033	39,380	86,373	135,859	100.00	100.00	95.45
6/30/2014	12,949	34,430	79,795	121,918	100.00	100.00	93.41
6/30/2013 ²	13,384	26,779	75,037	107,616	100.00	100.00	89.89
6/30/2012	11,371	22,438	63,416	95,793	100.00	100.00	97.74
6/30/2011 ²	11,132	16,133	56,778	86,309	100.00	100.00	103.99
6/30/2010	10,611	11,832	54,004	73,401	100.00	100.00	94.36
6/30/2009	9,120	9,924	48,827	58,981	100.00	100.00	81.79
6/30/2008 ²	7,335	6,341	43,131	58,096	100.00	100.00	102.99

¹ Actuarial Value of Assets.

² Reflects revised actuarial and economic assumptions.

San Diego City Employees' Retirement System
Summary of June 30, 2017 Valuation Results (continued)

8. Analysis of Financial Experience
Gain and Loss in Accrued Liability
Resulting from Differences Between Assumed Experience and Actual Experience

Development of Gain/(Loss) SDCERS - City

Valuation Date	Investment Income	Combined Liability Experience	Financial Experience Gain (or Loss)	Non-Recurring Gain (or Loss) Items	Composite Gain (or Loss) During Year
6/30/2017	\$63,106,890	\$(39,883,695)	\$23,223,195	\$(251,342,990)	\$(228,119,795)
6/30/2016	(49,983,430)	(49,734,740)	(99,718,170)	(539,381,258)	(639,099,428)
6/30/2015	60,483,393	(25,677,899)	34,805,494	(92,819,181)	(58,013,687)
6/30/2014	154,272,465	(28,100,573)	126,171,892	3,079,669	129,251,561
6/30/2013	24,968,204	(40,640,350)	(15,672,146)	37,857,388	22,185,242
6/30/2012	(62,151,335)	(40,430,537)	(102,581,872)	(16,289,062)	(118,870,935)
6/30/2011	89,255,659	40,764,366	130,020,025	(177,193,785)	(47,173,759)
6/30/2010	(141,536,346)	70,506,309	(71,030,037)	90,933,819	19,903,782
6/30/2009	(811,380,431)	(7,525,648)	(818,906,079)	8,244,901	(810,661,178)
6/30/2008	(81,306,075)	31,375,539	(49,930,537)	(47,421,879)	(97,352,416)

Development of Gain/(Loss) SDCERS - Port

Valuation Date	Investment Income	Combined Liability Experience	Financial Experience Gain (or Loss)	Non-Recurring Gain (or Loss) Items	Composite Gain (or Loss) During Year
6/30/2017	\$4,190,865	\$412,147	\$4,603,012	\$(15,081,540)	\$(10,478,528)
6/30/2016	(2,412,140)	(1,876,829)	(4,288,969)	(33,000,161)	(37,289,130)
6/30/2015	4,094,200	1,906,267	6,000,467	(5,654,814)	345,653
6/30/2014	9,630,889	(3,907,523)	5,723,366	(382,992)	5,340,374
6/30/2013	2,471,939	2,915,682	5,387,622	(10,117,448)	(4,729,826)
6/30/2012	(2,056,053)	(5,096,839)	(7,152,892)	(1,768,281)	(8,921,173)
6/30/2011	3,393,967	(3,782,326)	(388,359)	(18,830,773)	(19,219,132)
6/30/2010	(7,317,424)	(1,513,654)	(8,831,078)	62,510	(8,768,568)
6/30/2009	(42,227,122)	(2,379,929)	(44,607,050)	843,209	(43,763,842)
6/30/2008	(4,428,892)	2,429,387	(1,999,505)	(2,615,672)	(4,615,176)

Development of Gain/(Loss) SDCERS - Airport

Valuation Date	Investment Income	Combined Liability Experience	Financial Experience Gain (or Loss)	Non-Recurring Gain (or Loss) Items	Composite Gain (or Loss) During Year
6/30/2017	\$1,181,395	\$2,165,984	\$3,347,379	\$(4,178,086)	\$(830,707)
6/30/2016	(1,378,007)	(451,243)	(1,829,250)	(12,025,526)	(13,854,776)
6/30/2015	899,235	1,823,632	2,722,867	(1,592,701)	1,130,166
6/30/2014	2,845,308	(1,223,934)	1,621,374	1,115,469	2,736,843
6/30/2013	316,719	(4,308,779)	(3,992,059)	(1,715,295)	(5,707,354)
6/30/2012	(1,291,682)	(510,059)	(1,801,741)	(2,175,243)	(3,976,984)
6/30/2011	2,117,232	2,691,583	4,808,814	(18,725)	4,790,090
6/30/2010	(1,903,032)	1,930,821	27,790	6,826,579	6,854,369
6/30/2009	(9,584,108)	(1,391,991)	(10,976,099)	1,083,115	(9,892,984)
6/30/2008	(1,350,066)	1,842,772	492,707	(1,944,924)	(1,452,217)

San Diego City Employees' Retirement System Summary of June 30, 2017 Valuation Results (continued)

9. Schedules of Funding Progress (Dollars in Thousands) and Employer Contributions

The Required Supplementary Information in the Financial Section of the CAFR contains a 10-year schedule of employer contributions for each of the plan sponsors. The schedules of funding progress are shown below.

SDCERS - City

Valuation Date	AVA	Continuation Indicators				
		AL	UAL	Funded Ratio	Member Payroll ¹	UAL Ratio to Member Payroll
6/30/2017 ²	\$6,808,418	\$9,565,802	\$2,757,384	71.2%	\$448,890	614.3%
6/30/2016 ²	6,455,378	9,013,130	2,557,752	71.6	465,100	549.9
6/30/2015 ²	6,204,244	8,205,953	2,001,709	75.6	480,662	416.4
6/30/2014	5,828,594	7,858,703	2,030,110	74.2	480,536	422.5
6/30/2013 ²	5,317,778	7,555,527	2,237,749	70.4	499,463	448.0
6/30/2012	4,982,442	7,261,731	2,279,289	68.6	511,091	446.0
6/30/2011 ²	4,739,399	6,917,175	2,177,776	68.5	514,265	423.5
6/30/2010	4,382,047	6,527,224	2,145,176	67.1	530,238	404.6
6/30/2009	4,175,229	6,281,636	2,106,407	66.5	536,591	392.6
6/30/2008 ²	4,660,346	5,963,549	1,303,203	78.1	535,774	243.2

SDCERS - Port

Valuation Date	AVA	Continuation Indicators				
		AL	UAL	Funded Ratio	Member Payroll ¹	UAL Ratio to Member Payroll
6/30/2017 ²	\$400,674	\$539,060	\$138,386	74.3%	\$34,388	402.4%
6/30/2016 ²	375,301	504,763	129,462	74.4	\$33,685	384.3
6/30/2015 ²	357,600	453,774	96,174	78.8	33,512	287.0
6/30/2014	333,229	433,272	100,043	76.9	33,273	300.7
6/30/2013 ²	302,322	410,026	107,705	73.7	34,528	311.9
6/30/2012	277,822	382,013	104,191	72.7	35,873	290.4
6/30/2011 ²	259,315	354,837	95,521	73.1	34,632	275.8
6/30/2010	233,788	310,467	76,679	75.3	39,165	195.8
6/30/2009	223,879	288,698	64,819	77.5	40,370	160.6
6/30/2008 ²	245,580	267,036	21,456	92.0	38,635	55.5

SDCERS - Airport

Valuation Date	AVA	Continuation Indicators				
		AL	UAL	Funded Ratio	Member Payroll ¹	UAL Ratio to Member Payroll
6/30/2017 ²	\$163,315	\$183,077	\$19,762	89.2%	\$31,628	62.5%
6/30/2016 ²	148,084	165,667	17,583	89.4	31,132	56.5
6/30/2015 ²	135,859	139,787	3,928	97.2	29,189	13.5
6/30/2014	121,918	127,174	5,256	95.9	27,955	18.8
6/30/2013 ²	107,616	115,200	7,584	93.4	26,380	28.7
6/30/2012	95,793	97,225	1,432	98.5	24,840	5.8
6/30/2011 ²	86,309	84,042	(2,266)	102.7	25,148	-9.0
6/30/2010	73,401	76,447	3,047	96.0	25,596	11.9
6/30/2009	58,981	67,871	8,890	86.9	24,693	36.0
6/30/2008 ²	58,096	56,808	(1,288)	102.3	23,488	-5.5

¹ Beginning with FY 2012, reported payroll includes across the board increases for the upcoming fiscal year. Historical data for prior years does not include those increases.

² Reflects revised actuarial assumptions.

San Diego City Employees' Retirement System Summary of SDCERS' Benefit Provisions As of June 30, 2017

10. Summary of SDCERS' Benefit Provisions

The following pages illustrate the various benefit provisions for the City's, Port's and Airport's SDCERS participants. For a complete description of these benefits, please see the Retirement Plan Summaries under the Publications link on the SDCERS website at www.sdcers.org.

City

1. Membership Requirements

Membership is mandatory from the first day of employment with the City for all full, three-quarter, and half-time salaried, classified and unclassified employees initially hired before July 20, 2012. (§24.0104)

Membership is mandatory from the first day of employment for Police Recruits hired between July 1, 1991 and June 30, 2013. (§24.0104)

Membership is mandatory for all sworn police officers (§24.0104)

Membership is permissive for Elected Officers who initially assume office or are initially hired prior to July 20, 2012. (§24.1702)

2. Final Compensation for Calculation of Benefits

Highest one year period for General Members hired before July 1, 2009 and Elected Members regardless of hire date; Police Safety Members on active City payroll before January 1, 2012; Lifeguard Safety Members on active City payroll before July 1, 2011; and Fire Safety Members on active payroll before January 1, 2012. (§24.0103)

The average of the three highest years at any time during membership for General Members hired after June 30, 2009; Police Safety Members hired after December 31, 2011 but before July 1, 2013; Lifeguard Safety Members hired after June 30, 2011; and Fire Safety Members hired after December 31, 2011. (§24.0103)

Highest consecutive 36 months for Police Safety Members hired after June 30, 2013. (§24.0103)

3. Service Retirement Eligibility

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

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

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 and for each full and fractional year under age 55. (§24.1704)

Port

Membership is mandatory upon first day of employment for all full-time Port employees. (§0103)

Miscellaneous Members hired on or after January 1, 2009, are participants for purposes of establishing reciprocity, but do not begin earning service credit until the first day of their sixth year of employment. (§0102)

Highest one-year period, for General Members hired before October 1, 2006, and Safety Members hired before January 1, 2010. (§0102)

Highest three-year period, for General Members hired on or after October 1, 2006 and Miscellaneous Members. (§0102)

Final three year period for Safety Members hired on or after January 1, 2010. (§0102)

Highest consecutive 36 months for Safety Members hired on or after January 1, 2013. (Gov. Code §7522.32)

General Members - Age 62 with 5 years of service credit, or age 55 with 20 years of service credit. (§0300)

Miscellaneous Members – Age 62 with 5 years of service credit, or age 55 with 20 years of service credit. (§0301)

Safety Members hired before January 1, 2010 - Age 55 with 5 years of service credit, or age 50 with 20 years of service credit. (§0302)

Safety Members hired on or after January 1, 2010- Age 55 with 5 years of service credit, or any age with 30 years of service credit. (§0302)

Safety Members hired on or after January 1, 2013 - Age 50 with 5 or more years of service credit. (Gov. Code §7522.25)

Airport

Membership is mandatory upon first day of employment for all full-time Airport employees. (§0103)

Highest one-year period for General Members hired before January 1, 2013. (§0102)

Highest 36 consecutive months for General Members hired on or after January 1, 2013. (§0102)

General Members hired before January 1, 2013 – Age 62 with 5 years of service credit or age 55 with 20 years of service credit. (§0300)

General Members hired on or after January 1, 2013 – Age 52 with 5 years of service credit. (§0300)

San Diego City Employees' Retirement System
Summary of SDCERS' Benefit Provisions (continued)
As of June 30, 2017

City

Benefit Formula Per Year of Service

General Members

General Members who joined the System before July 1, 2002 - Choice of: (1) 2.0% per year of service at age 55, increasing to 2.55% at age 65, with an additional 10% added to Final Compensation; (2) 2.25% per year of service at age 55, increasing to 2.55% at age 65; or, (3) 2.5% per year of service at age 55, increasing to 2.8% at age 65, not to exceed 90% of Final Compensation. (§24.0402)

General Members who joined the System on or after July 1, 2002 and prior to July 1, 2009 - 2.5% per year of service at age 55, increasing to 2.8% per year of service at age 65, not to exceed 90% of Final Compensation. (§24.0402)

For General Members hired on or after July 1, 2009, 1.0% per year of service at age 55, increasing to 2.6% at age 65, not to exceed 80% of Final Compensation. (§24.0402.0001)

Safety Members

(City - Fire, Police & Lifeguard, Port - Harbor Police)

Police Safety Members hired before July 1, 2009 - Choice of: (1) 2.5% per year of service at age 50, increasing to 2.99% at age 55, with an additional 10% added to Final Compensation, not to exceed 90% of Final Compensation; or, (2) 3.0% per year of service at age 50 and above, not to exceed 90% of Final Compensation. (§24.0403)

Fire Safety Members hired before January 1, 2012 - Choice of: (1) 2.5% per year of service at age 50, increasing to 2.99% at age 55, with an additional 10% added to Final Compensation, not to exceed 90% of Final Compensation or (2) 3.0% per year of service at age 50 and above, not to exceed 90% of Final Compensation. (§24.0403)

Lifeguard Safety Members hired before July 1, 2011 - Choice of: (1) 2.2% per year of service at age 50, increasing to 2.77% at age 55, with an additional 10% added to Final Compensation, not to exceed 90% of Final Compensation or (2) 3.0% per year of service at age 50 and above, not to exceed 90% of Final Compensation. (§24.0403)

Police Safety Members hired on or after July 1, 2009, Fire Safety Members hired on or after January 1, 2012, and Lifeguard Safety Members hired on or after July 1, 2011 - 2.5% at age 50, increasing to 3.0% at age 55, not to exceed 90% of Final Compensation. (§24.0403.0001, §24.0403.0002 and §24.0403.0003)

Police Safety Members hired on or after July 1, 2013 - 2.5% at age 50, increasing to 3.0% at age 55, not to exceed 80% of Final Compensation when retiring at age 55. A 3% annual reduction factor applies to benefits when retiring prior to age 55. (§24.0405.0002 and City Charter §141.1)

Elected Officers

3.5% per year of service. (§24.1705) A 2% reduction factor applies for each year or fractional year for Elected Officers retiring prior to age 55. (§24.1704)

Port

For General Members hired before November 10, 2001 - Choice of (1) 2.0% per year of service at age 55, increasing to 2.55% at age 65, with an additional 10% added to final compensation; (2) 2.25% per year of service at age 55, increasing to 2.55% at age 65; or (3) 2.5% per year of service at age 55, increasing to 3.0% at age 65, not to exceed 90% of final compensation. (§ 0300)

General Members hired on or after November 10, 2001 - 2.5% per year of service at age 55, increasing to 3.0% at age 65, not to exceed 90% of final Average Compensation. (§ 0300)

Miscellaneous Members hired on or after January 1, 2009 - (a) 0.75% per year of service for the first through fifth years of service credit; (b) 1% per year of service for the sixth through tenth years of service credit; (c) 1.25% per year of service for the eleventh through fifteenth years of service credit; and (d) 1.5% per year for each additional year of service beginning with the member's sixteenth year of service credit. (§0301)

Executive Members who take office before January 1, 2013 - 3% per year of service at age 55. (§0300)

Executive Members who take office on or after January 1, 2013 - a blended benefit based on their two categories of service. (§0300)

Airport

Andrecht-Covered Members (§0102) - Choice of: (1) 2.0% per year of service at age 55, increasing to 2.55% at age 65, with an additional 10% added to Final Compensation; (2) 2.25% per year of service at age 55, increasing to 2.55% at age 65; or (3) 2.5% per year of service at age 55, increasing to 3.0% at age 65, not to exceed 90% of Final Compensation. (§0300)

Non- Andrecht-Covered Members (§0102) - 2.5% per year of service at age 55, increasing to 3.0% at age 65, not to exceed 90% of Final Compensation. (§0300)

PEPRA Members hired on or after January 1, 2013 - 1% per year of service at age 52, increasing to 2.5% at age 67, not to exceed 90% of Final Compensation. (§0300)

Executive Members who enter into that membership category before January 1, 2013 - 3% per year of service at age 55. (§0300)

Executive Members who enter into that membership category on or after January 1, 2013 - a blended benefit based on their two categories of service. (§0300, §0400)

Safety Members hired before January 1, 2010 - Choice of (1) 2.5% per year of service at age 50, increasing to 2.7% at age 55, with 10% increase in final compensation or (2) 3.0% per year of service at age 50 not to exceed 90% of final compensation. (§0302)

N/A

Safety Members hired on or after January 1, 2010 - 3% per year of service at age 50, not to exceed 90% of final compensation. (§0302)

Safety Members hired on or after January 1, 2013 - 2% per year of service at age 50, increasing to 2.7% at age 57 (Gov. Code §7522.25)

N/A

N/A

San Diego City Employees' Retirement System
Summary of SDCERS' Benefit Provisions (continued)
 As of June 30, 2017

City

Choice of:

Retirement Payment Options

Maximum Benefit - Provides the maximum monthly allowance to the member for their lifetime and guarantees their eligible surviving spouse or registered domestic partner, who has been designated as a beneficiary, a 50% automatic continuance after the member dies for the rest of his or her life. If unmarried, the member may choose to receive a lump sum refund of surviving spouse contributions and interest or treat them as voluntary additional contributions to provide a larger annuity benefit for the member. (§24.0402, §24.0402.0001 and §24.0403)

Option 1 - Receive a reduced monthly retirement allowance until the member's death. If the member dies before they receive the total amount of their accumulated contributions, SDCERS will pay the balance to their beneficiary or estate. If the member dies after their annuity payments exceed their accumulated contributions, no payments will be made to the member's beneficiary or estate. (§24.0603)

Option 2 - Receive a reduced monthly retirement allowance until the member's death. When the member dies, their beneficiary will receive a retirement allowance equal to 100% of the member's reduced monthly retirement allowance for the rest of his or her life. The amount of the reduction depends upon the age difference between the member and their beneficiary. (§24.0605)

Option 3 - Receive a reduced monthly retirement allowance until the member's death. When the member dies, their beneficiary will receive a retirement allowance equal to 50% of the member's reduced monthly benefit for the rest of his or her life. The amount of the reduction depends upon the age difference between the member and their beneficiary. (§24.0606)

Option 4 - Receive a reduced monthly retirement allowance until the member's death. When the member dies, their beneficiary will receive a retirement allowance based on a percentage of the member's reduced monthly benefit in an amount selected by the member, for the rest of his or her life. The higher the percentage to the beneficiary and the greater the age difference between the member and their beneficiary, the greater the reduction in the member's monthly retirement allowance. (§24.0607)

Social Security Integrated Option - The member may select this option in addition to one of the other five payment choices only if the member is eligible to receive a Social Security benefit. The member would receive an initial increased monthly allowance from SDCERS based on their estimated Social Security benefit. When the member turns 65, SDCERS will then reduce their monthly retirement allowance for the remainder of their life. This modified allowance may be further modified on an actuarial basis under Options 1, 2, 3, or 4. (§24.0608)

Port

Airport

Choice of:

Maximum Benefit - Provides the maximum monthly allowance to the member for their lifetime and guarantees their eligible surviving spouse or registered domestic partner who is designated as a beneficiary a 50% automatic continuance after the member dies for the rest of his or her life. If unmarried, the member may choose to receive a lump sum refund of surviving spouse contributions and interest or treat them as voluntary additional contributions to provide a larger annuity benefit for the member. (§0300, §0301, §0302)

Maximum Benefit - Provides the maximum monthly allowance to the member for their lifetime and guarantees their eligible surviving spouse or registered domestic partner who is designated as a beneficiary a 50% automatic continuance after the member dies for the rest of his or her life. If unmarried, the member may choose to receive a lump sum refund of surviving spouse contributions and interest or treat them as voluntary additional contributions to provide a larger annuity benefit for the member. (§0300)

Option 1 - Receive a reduced monthly retirement allowance until the member's death. If the member dies before they receive the total amount of their accumulated contributions, SDCERS will pay the balance to their beneficiary or estate. If the member dies after their annuity payments exceed their accumulated contributions, no payments will be made to the member's beneficiary or estate. (§0602)

Option 1 - Receive a reduced monthly retirement allowance until the member's death. If the member dies before they receive the total amount of their accumulated contributions, SDCERS will pay the balance to their beneficiary or estate. If the member dies after their annuity payments exceed their accumulated contributions, no payments will be made to the member's beneficiary or estate. (§0602)

Option 2 - Receive a reduced monthly retirement allowance until the member's death. When the member dies, their beneficiary will receive a retirement allowance equal to 100% of the member's reduced monthly retirement allowance for the rest of his or her life. The amount of the reduction depends upon the age difference between the member and their beneficiary. (§0604)

Option 2 - Receive a reduced monthly retirement allowance until the member's death. When the member dies, their beneficiary will receive a retirement allowance equal to 100% of the member's reduced monthly retirement allowance for the rest of his or her life. The amount of the reduction depends upon the age difference between the member and their beneficiary. (§0604)

Option 3 - Receive a reduced monthly retirement allowance until the member's death. When the member dies, their beneficiary will receive a retirement allowance equal to 50% of the member's reduced monthly benefit for the rest of his or her life. The amount of the reduction depends upon the age difference between the member and their beneficiary. (§0605)

Option 3 - Receive a reduced monthly retirement allowance until the member's death. When the member dies, their beneficiary will receive a retirement allowance equal to 50% of the member's reduced monthly benefit for the rest of his or her life. The amount of the reduction depends upon the age difference between the member and their beneficiary. (§0605)

Option 4 - Receive a reduced monthly retirement allowance until the member's death. When the member dies, their beneficiary will receive a retirement allowance based on a percentage of the member's reduced monthly benefit in an amount selected by the member, for the rest of his or her life. The higher the percentage to the beneficiary and the greater the age difference between the member and their beneficiary, the greater the reduction in the member's monthly retirement allowance. (§0606)

Option 4 - Receive a reduced monthly retirement allowance until the member's death. When the member dies, their beneficiary will receive a retirement allowance based on a percentage of the member's reduced monthly benefit in an amount selected by the member, for the rest of his or her life. The higher the percentage to the beneficiary and the greater the age difference between the member and their beneficiary, the greater the reduction in the member's monthly retirement allowance. (§0606)

Social Security Integrated Option - N/A

Social Security Integrated Option - The member may select this option in addition to one of the other five payment choices only if the member is eligible to receive a Social Security benefit. The member would receive an initial increased monthly allowance from SDCERS based on their estimated Social Security benefit. When the member turns 65, SDCERS will then reduce their monthly retirement allowance for the remainder of their life. This modified allowance may be further modified on an actuarial basis under Options 1, 2, 3, or 4. (§0607)

San Diego City Employees' Retirement System
Summary of SDCERS' Benefit Provisions (continued)
 As of June 30, 2017

	City
4. Non-Industrial Disability Eligibility	Ten years of service credit. (City Charter §141)
Benefit Formula Per Year of Service	<p>General Members - Greater of: (1) 1.5% per year of service multiplied by final compensation; (2) one-third of final compensation; or, (3) the earned service retirement benefit, if eligible. (§24.0502, 24.0506)</p> <p>Safety Members - Greater of: (1) 1.8% per year of service multiplied by final compensation; (2) one-third of final compensation; or, (3) the earned service retirement benefit, if eligible. (§24.0502, 24.0504)</p> <p>Elected Officers - Earned service retirement benefit. (§24.1706)</p>
5. Industrial Disability Eligibility	No age or service requirement. (§24.0501)
Benefit Formula Per Year of Service	<p>General Members - Greater of: (1) 50% of final compensation; or (2) the earned service retirement benefit, if eligible. (§24.0502, §24.0505)</p> <p>Safety Members - Greater of: (1) 50% of final compensation; or (2) the earned service retirement benefit, if eligible. (§24.0502, §24.0503)</p> <p>Elected Officers - Earned service retirement benefit. (§24.1706)</p>
6. Non-Industrial Death Before Eligible to Retire	Refund of employee contributions with interest plus one-twelfth of the Member's final compensation multiplied by the Member's years of Creditable Service, not to exceed one-half of the Member's final compensation. (§24.0702)
7. Non-Industrial Death After Eligible to Retire for Service	50% of the monthly allowance the Member would have received if the Member had retired on the day they died payable to the eligible surviving spouse or domestic partner designated as a beneficiary, or dependent child(ren) under 18 years of age. (§24.0704)
8. Industrial Death	50% of the final compensation preceding death, payable to eligible surviving spouse or registered domestic partner designated as a beneficiary, or child(ren) under 18 years of age. (§24.0705)
9. Death After Retirement	\$2,000 payable in lump sum to the beneficiary or to the next of kin of the retiree. If none of the above, SDCERS can pay towards funeral expenses. (§24.0706, §24.0707, §24.0710)

Port	Airport
Ten years of service credit. (§0504)	Ten years of service credit. (§0502)
<p>General Members hired before January 1, 2009 - Greater of (1) 1.5% per year of service multiplied by final compensation; (2) one-third of final compensation; or (3) the earned service retirement benefit, if eligible. (§0506)</p> <p>Miscellaneous Members hired on or after January 1, 2009 - Greater of (1) 0.1875% per year of service multiplied by final compensation; (2) 11% of final compensation; or (3) earned service retirement benefit. (§0507)</p> <p>Safety Members - Greater of (1) 1.8% per year of service multiplied by final compensation; (2) one-third of final compensation; or (3) the earned service retirement benefit. (§0505)</p>	<p>Greater of: (1) 1.5% per year of service multiplied by final compensation; (2) one-third of final compensation; or (3) the earned service retirement benefit, if eligible. (§0503)</p>
No age or service requirement for General or Safety Members. Miscellaneous Members must have 5 years of Port employment to be eligible for an industrial disability benefit. (§0500)	No age or service requirement. (§0500)
<p>General Members hired before January 1, 2009, greater of one-third of final compensation or the earned service retirement benefit, if eligible. (§0502)</p> <p>Miscellaneous Members hired on or after January 1, 2009, the greater of 11% of final compensation or earned service retirement benefit, if eligible. (§0503)</p> <p>Safety Members greater of one-half of final compensation or the earned service retirement benefit. (§0501)</p>	Greater of one-third of final compensation or the earned service retirement benefit, if eligible. (§0501)
Refund of employee contributions with interest plus one-twelfth of Member's final compensation multiplied by the years of service credit not to exceed one-half of the Member's final compensation. (§0701)	Refund of employee contributions with interest plus one-twelfth of Member's final compensation multiplied by the years of service credit not to exceed one-half of the Member's final compensation. (§0701)
50% of the monthly allowance the member would have received if the Member had retired on the day they died payable to eligible surviving spouse or registered domestic partner designated as a beneficiary, or dependent child(ren) under 21 years of age. (§0703)	50% of the monthly allowance the member would have received if the Member had retired on the day they died payable to eligible surviving spouse or registered domestic partner designated as a beneficiary, or dependent child(ren) under 21 years of age. (§0703)
50% of the final average salary, payable to eligible surviving spouse or registered domestic partner designated as a beneficiary, or dependent child(ren) under 21 years of age. Miscellaneous Members hired on or after January 1, 2009 must have 5 years of Port employment to be eligible for an industrial death benefit. (§0704)	50% of the final average salary, payable to eligible surviving spouse or registered domestic partner designated as a beneficiary, or dependent child(ren) under 21 years of age. (§0704)
\$2,000 payable in lump sum to the beneficiary or to the next of kin of the retiree. If none of the above, SDCERS can pay towards funeral expenses. (§0705, §0706, §0708)	\$2,000 payable in lump sum to the beneficiary or to the next of kin of the retiree. If none of the above, SDCERS can pay towards funeral expenses. (§0705, §0706, §0708)

San Diego City Employees' Retirement System
Summary of SDCERS' Benefit Provisions (continued)
 As of June 30, 2017

City

10. Withdrawal Provisions	If a Member's employment is discontinued other than by death or retirement the Board will pay the Member, upon request, their accumulated contributions, including interest compounded annually. (§24.0206, §24.0306)
11. Post-Retirement Cost-of-Living Adjustment	Based on changes in Consumer Price Index, increases a maximum of 2% per year and decreases limited to the initial retirement allowance. (§24.1505)
12. COL Annuity	Actuarial equivalent of accumulated contributions in cost of living annuity account at time of retirement. (§24.1507)
13. Member Contributions	Based on the Member's age at the Member's nearest birthday on the effective day of membership. (§24.0201, §24.0301)
14. Internal Revenue Code Compliance	The Plan complies with applicable sections of the Internal Revenue Code Provisions (§24.1004)
15. 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 Port or Airport). (§24.0103, Port and Airport Plans §0400)

Port	Airport
<p>If a Member's employment is discontinued other than by death or retirement the Board will pay the Member, upon request, their accumulated contributions. (§0205)</p>	<p>If a Member's employment is discontinued other than by death or retirement the Board will pay the Member, upon request, their accumulated contributions. (§0205)</p>
<p>Based on changes in Consumer Price Index, increases a maximum of 2% per year and decreases limited to the initial retirement allowance. (§1301)</p>	<p>Based on changes in Consumer Price Index, increases a maximum of 2% per year and decreases limited to the initial retirement allowance. (§1301)</p>
<p>Actuarial equivalent of accumulated contributions in cost of living annuity account at time of retirement. (§0300)</p>	<p>Actuarial equivalent of accumulated contributions in cost of living annuity account at time of retirement. (§0300)</p>
<p>Based on the Miscellaneous Member's age at the Miscellaneous Member's nearest birthday on the first day of his/her sixth year of employment. (§0200). Based on the Member's age at the Member's nearest birthday on the effective day of membership. (§0200).</p>	<p>Based on the Member's age at the Member's nearest birthday on the effective day of membership. (§0200).</p>
<p>The Plan compiles with applicable sections of the Internal Revenue Code Provisions. (§1000)</p>	<p>The Plan compiles with applicable sections of the Internal Revenue Code Provisions. (§1000)</p>
<p>Members may retire and receive benefits from multiple Plans (e.g., a Port member could have also worked for the Airport or the City). (Port and Airport Plans §0400 City §24.0103)</p>	<p>Members may retire and receive benefits from multiple Plans (e.g. – an Airport member could have also worked for the Port or the City). (Port and Airport Plans §0400, City §24.0103)</p>

San Diego City Employees' Retirement System
Summary of SDCERS' Benefit Provisions (continued)
As of June 30, 2017

Deferred Retirement Option Plan (DROP)

The Deferred Retirement Option Plan (DROP) is a voluntary program created by SDCERS' plan sponsors (employers) to provide SDCERS' members (employees) with an alternative method to accrue benefits in SDCERS. (City – Article 4, Division 14; Port and Airport Division 12)

The DROP benefit was eliminated and is no longer available for City employees hired on or after July 1, 2005 (§24.1402), for Port employees hired on or after October 1, 2005 (§1201), and for Airport employees hired on or after October 3, 2006 (§1200).

For actuarial valuation purposes, SDCERS' members entering DROP are considered "retired" the date they enter DROP. An SDCERS' member's decision to enter DROP is irrevocable. If an SDCERS member participates in DROP, they will have access to a lump sum benefit in addition to their normal monthly retirement allowance when they retire. SDCERS' members are eligible to participate in DROP when they are eligible for a service retirement. A DROP participant continues to work for his/her respective plan sponsor and receives a regular paycheck. Both the plan sponsor and the DROP Participant cease making normal cost retirement contributions to SDCERS, and the DROP participant stops earning creditable service. A DROP participant continues to receive most of the employer-offered benefits available to regular employees.

An SDCERS member must select a retirement option when they enter DROP. If the DROP participant elects to leave a continuance to a beneficiary, the DROP participant must name a beneficiary at that time as well. The selection of a retirement option and the designation of a beneficiary for a continuance are irrevocable and cannot be changed once the first payment is made into a DROP account.

SDCERS members electing to enter DROP must agree to participate in the program for a specific period of time, up to a maximum of five years. A DROP participant must end employment with their plan sponsor on or before the end of the selected DROP participation period.

When an SDCERS member participates in DROP, a DROP account is set up for that individual. Money credited to a DROP account comes from six sources:

1. A DROP participant's DROP contributions – 3.05% of salary each pay period of participation in DROP (no employee contributions are made to SDCERS during this time);
2. The plan sponsor's DROP contributions – 3.05% of salary each pay period of participation in DROP (no employer contributions are made to SDCERS during this time);
3. The DROP participant's monthly retirement allowance, as determined when entering DROP;
4. The COLA increases to a monthly retirement allowance that occurs while participating in DROP;
5. SDCERS' Supplemental Benefit (13th Check) payments made while participating in DROP; and
6. Interest credited to the DROP account each quarter, at the rate determined by SDCERS' Board.

The DROP benefit is the value of a DROP participant's account at the end of the DROP participation period. It is available either in a lump sum or periodic distribution. Once a participant leaves DROP, they begin receiving their monthly retirement allowance directly.

SDCERS will distribute the funds in a participant's DROP account when they leave employment and begin retirement. The distribution can be made as a single lump sum, periodic payments in 240 equal monthly payments, or as otherwise allowed by SDCERS' Board, subject to the applicable provisions of the Internal Revenue Code.

STATISTICAL 5



Statistical Section

This section provides additional historical perspective, context and detail in order to provide a more comprehensive understanding of this year's financial statements, note disclosures and supplementary information. This section also provides multi-year trends of financial and operating information to facilitate comprehensive understanding of how SDCERS' financial position and performance has changed over time. More specifically, the financial and operating information provides contextual data for SDCERS' net position, additions, deductions and different types of retirement benefits. The financial and operating trend information is located on the following pages.

San Diego City Employees' Retirement System Changes in Plan Net Position For Fiscal Years Ended June 30 10-Year Review (Dollars in Thousands)

Fiscal Year	Additions	Deductions	Net Change	Net Position	
				Beginning of Year	End of Year
2018	\$1,062,925	\$556,479	\$506,446	\$7,568,758	\$8,075,204
2017	1,277,423	516,567	760,856	6,807,902	7,568,758
2016	413,701	490,822	(77,121)	6,885,023	6,807,902
2015	576,144	463,213	112,931	6,772,092	6,885,023
2014	1,376,963	418,184	958,779	5,813,313 ²	6,772,092
2013	1,037,021	425,147	611,874	4,710,508	5,322,382
2012	345,778	405,070	(59,292)	4,769,800	4,710,508
2011	1,395,848	412,008	983,840	3,785,960	4,769,800
2010	772,019	340,375	431,644	3,354,316	3,785,960
2009	(707,507)	323,024	(1,030,531)	4,384,847	3,354,316

San Diego City Employees' Retirement System Changes in Plan Net Position by Plan Sponsor¹ For Fiscal Years Ended June 30 (Dollars in Thousands)

City	Fiscal Year	Additions	Deductions	Net Change	Net Position	
					Beginning of Year	End of Year
City	2018	\$981,703	\$525,648	\$456,055	\$6,988,834	\$7,444,889
	2017	1,180,545	487,817	692,728	6,296,106	6,988,834
	2016	383,075	463,682	(80,607)	6,376,713	6,296,106
	2015	534,756	437,931	96,825	6,279,888	6,376,713
	2014	1,280,177	395,447	884,730	5,395,158 ²	6,279,888
	2013	961,806	403,486	558,320	4,359,360	4,917,680
	2012	319,813	384,844	(65,031)	4,424,391	4,359,360
	2011	1,300,294	394,441	905,853	3,518,538	4,424,391
	2010	718,158	325,750	392,408	3,126,130	3,518,538
	2009	(667,706)	309,584	(977,290)	4,103,420	3,126,130
Port	2018	\$56,704	\$26,018	\$30,686	\$413,126	\$443,812
	2017	68,926	23,756	45,170	367,956	413,126
	2016	21,960	23,798	(1,838)	369,794	367,956
	2015	30,260	22,467	7,793	362,001	369,794
	2014	71,793	19,491	52,302	309,699 ²	362,001
	2013	56,670	19,272	37,398	260,865	298,263
	2012	19,382	18,067	1,315	259,550	260,865
	2011	71,709	15,650	56,059	203,491	259,550
	2010	37,282	13,355	23,927	179,564	203,491
	2009	(35,155)	12,419	(47,574)	227,138	179,564

¹ In March 2007, the Board adopted a Declaration of Group Trust, effective July 1, 2007. Under the Group Trust, the City, Port and Airport plans are legally treated as separate plans. Prior to July 1, 2007, the SDCERS plan was a multiple-employer cost-sharing plan and changes in net position were not captured for each individual plan sponsor.

² In FY 2014, SDCERS' DROP benefits were accounted for under the requirements of GASB 67, which resulted in an adjustment to beginning net position. Beginning net position for the City, Port and Airport was increased by \$477,478, \$11,436, and \$2,017, respectively.

San Diego City Employees' Retirement System
Changes in Plan Net Position by Plan Sponsor (continued) ¹
For Fiscal Years Ended June 30 (Dollars in Thousands)

Airport	Fiscal Year	Additions	Deductions	Net Change	Net Position	
					Beginning of Year	End of Year
	2018	\$24,518	\$4,813	\$19,705	\$166,798	\$186,503
	2017	27,952	4,994	22,958	143,840	166,798
	2016	8,666	3,342	5,324	138,516	143,840
	2015	11,128	2,815	8,313	130,203	138,516
	2014	24,993	3,246	21,747	108,456 ²	130,203
	2013	18,545	2,389	16,156	90,283	106,439
	2012	6,583	2,159	4,424	85,859	90,283
	2011	23,845	1,917	21,928	63,931	85,859
	2010	16,579	1,270	15,309	48,622	63,931
	2009	(4,646)	1,021	(5,667)	54,289	48,622

¹In March 2007, the Board adopted a Declaration of Group Trust, effective July 1, 2007. Under the Group Trust, the City, Port and Airport plans are legally treated as separate plans. Prior to July 1, 2007, the SDCERS plan was a multiple-employer cost-sharing plan and changes in net position were not captured for each individual plan sponsor.

²In FY 2014, SDCERS' DROP benefits were accounted for under the requirements of GASB 67, which resulted in an adjustment to beginning net position. Beginning net position for the City, Port and Airport was increased by \$477,478, \$11,436, and \$2,017, respectively.

San Diego City Employees' Retirement System
Additions to Plan Net Position by Source
For Fiscal Years Ended June 30
(Dollars in Thousands)

	Fiscal Year	Plan Sponsor Contributions	Member Contributions Paid By Plan Sponsors	Member Contributions for Service Purchased	Earned Interest on PSC Installment Contracts ¹	Drop Contributions ²	Net Investment Income	Total Additions	
Dollars	2018	\$351,337	\$3,813	\$52,912	\$5,056	\$72	\$5,521	\$644,214	\$1,062,925
% of Total		33.1%	0.3%	5.0%	0.5%	0.0%	0.5%	60.6%	100.0%
Dollars	2017	283,039	3,942	51,988	4,833	101	5,523	927,997	1,277,423
% of Total		22.2	0.3	4.1	0.4	0.0	0.4	72.6	100.0
Dollars	2016	275,343	4,090	53,118	5,928	148	5,407	69,667	413,701
% of Total		66.6	1.0	12.8	1.4	0.0	1.3	16.9	100.0
Dollars	2015	283,804	4,242	54,705	3,956	200	5,130	224,107	576,144
% of Total		49.3	0.7	9.5	0.7	0.0	0.9	38.9	100.0
Dollars	2014	294,888	4,484	60,101	5,149	264	5,066	1,007,011	1,376,963
% of Total		21.4	0.3	4.4	0.4	0.0	0.4	73.1	100.0
Dollars	2013	246,943	5,364	61,539	7,374	323	-	715,478	1,037,021
% of Total		23.9	0.5	5.9	0.7	0.0	-	69.0	100.0
Dollars	2012	247,600	5,444	62,759	(2,428)	315	-	32,088	345,778
% of Total		71.6	1.6	18.2	-0.7	0.1	-	9.2	100.0
Dollars	2011	245,098	11,247	58,094	40,935	623	-	1,039,851	1,395,848
% of Total		17.6	0.8	4.2	2.9	0.0	-	74.5	100.0
Dollars	2010	207,334	12,313	56,340	3,936	758	-	491,338	772,019
% of Total		26.9	1.6	7.3	0.5	0.1	-	63.6	100.0
Dollars	2009	172,850	25,284	45,362	4,167	927	-	(956,097)	(707,507)
% of Total		24.4	3.6	6.4	0.6	0.1	-	-135.1	100.0

¹Earned Interest on PSC Installment Contracts was presented separately in the Statement of Changes in Plan Net Position to conform with generally accepted accounting principles. In prior years, Earned Interest on PSC Installment Contracts was included in Member (Employee) Contributions for Purchased Service in the Statement of Changes in Plan Net Position.

²In FY 2014, SDCERS implemented GASB 67 which required the DROP benefit to be accounted for as a component of Net Position with recognition of DROP contributions, interest and payments in the Statement of Changes in Plan Net Position. Prior to July 1, 2013, the DROP benefit was accounted for as a liability with DROP contributions, interest and payments included as changes to the DROP liability.

Statistical Section

**San Diego City Employees' Retirement System
Deductions from Plan Net Position by Type
For Fiscal Years Ended June 30**

(Dollars in Thousands)

	Fiscal Year	Retirement, Death and Disability Benefits	Drop Payments ¹	Administrative Expenses	DROP Program Interest Expense	Refund of Member Contributions	Total Deductions
Dollars	2018	\$443,295	\$72,921	\$11,579	\$23,008	\$5,676	\$556,479
% of Total		79.7%	13.1%	2.1%	4.1%	1.0%	100.0%
Dollars	2017	416,027	59,073	11,768	23,328	6,371	516,567
% of Total		80.6	11.4	2.3	4.5	1.2	100.0
Dollars	2016	391,800	57,468	11,907	23,168	6,479	490,822
% of Total		79.9	11.7	2.4	4.7	1.3	100.0
Dollars	2015	368,451	57,304	9,716	23,017	4,725	463,213
% of Total		79.5	12.4	2.1	5.0	1.0	100.0
Dollars	2014	341,321	40,147	11,528	22,446	2,742	418,184
% of Total		81.6	9.6	2.8	5.4	0.6	100.0
Dollars	2013	382,060		12,979	26,044	4,064	425,147
% of Total		89.9		3.0	6.1	1.0	100.0
Dollars	2012	361,018		11,839	26,867	5,346	405,070
% of Total		89.1		2.9	6.7	1.3	100.0
Dollars	2011	336,460		14,600	24,878	35,119	411,057
% of Total		81.8		3.6	6.1	8.5	100.0
Dollars	2010	296,554		14,968	25,375	3,478	340,375
% of Total		87.1		4.4	7.5	1.0	100.0
Dollars	2009	277,131		14,726	27,098	4,069	323,024
% of Total		85.8		4.5	8.4	1.3	100.0

¹ In FY 2014, SDCERS implemented GASB 67 which required the DROP benefit to be accounted for as a component of Net Position with recognition of DROP contributions, interest and payments in the Statement of Changes in Plan Net Position. Prior to July 1, 2013, the DROP benefit was accounted for as a liability with DROP contributions, interest and payments included as changes to the liability.

San Diego City Employees' Retirement System
Allowances Being Paid - Service and Disability Retirees and Beneficiaries
As of Fiscal Years Ended June 30

		City					
	As of Fiscal Year ¹	Total Service Retirements	Total Disability Retirements	Total Deaths Before Retirement ²	Total Deaths After Retirement	Total Allowances Being Paid	
No. of Allowances	2017	7,272	1,161	29	1,306	9,768	
Annual Allowances		\$401,762,775	\$41,914,596	\$865,163	\$26,269,467	\$470,812,001	
No. of Allowances	2016	6,961	1,180	31	1,282	9,454	
Annual Allowances		377,042,523	41,346,765	954,846	24,444,543	443,788,677	
No. of Allowances	2015	6,648	1,190	32	1,233	9,103	
Annual Allowances		355,083,956	40,946,485	951,605	22,227,614	419,209,660	
No. of Allowances	2014	6,414	1,197	24	1,187	8,822	
Annual Allowances		337,838,017	39,993,657	696,390	20,075,043	398,603,107	
No. of Allowances	2013	6,042	1,212	25	1,175	8,454	
Annual Allowances		312,528,881	39,597,716	711,764	18,789,983	371,628,344	
No. of Allowances	2012	5,796	1,221	25	1,163	8,205	
Annual Allowances		293,127,220	38,696,914	702,400	17,637,434	350,163,968	
No. of Allowances	2011	5,480	1,236	26	1,160	7,902	
Annual Allowances		271,206,018	38,033,989	715,740	16,793,152	326,748,899	
No. of Allowances	2010	5,189	1,241	27	1,124	7,581	
Annual Allowances		249,905,055	37,142,983	702,943	15,706,635	303,457,616	
No. of Allowances	2009	4,975	1,257	27	1,110	7,369	
Annual Allowances		231,698,837	36,337,577	688,948	14,861,201	283,586,563	
No. of Allowances	2008	4,597	1,244	28	1,071	6,940	
Annual Allowances		205,288,070	34,628,149	617,394	13,360,775	253,894,388	

¹ Data for all years is final data from the respective June 30 valuations.

² Total Deaths Before Retirement represents one-time payments to members' beneficiaries and refund of members' contributions, plus interest.

San Diego City Employees' Retirement System
Allowances Being Paid - Service and Disability Retirees and Beneficiaries (continued)
As of Fiscal Years Ended June 30

	As of Fiscal Year ¹	Total Service Retirements	Port Total Disability Retirements	Total Deaths Before Retirement ²	Total Deaths After Retirement	Total Allowances Being Paid
No. of Allowances	2017	430	60	1	86	577
Annual Allowances		\$22,174,324	\$1,710,685	\$7,134	\$1,770,599	\$25,662,742
No. of Allowances	2016	415	61	1	81	558
Annual Allowances		20,802,341	1,694,793	7,134	1,580,592	24,084,860
No. of Allowances	2015	392	62	1	81	536
Annual Allowances		19,572,584	1,686,471	7,134	1,476,855	22,743,044
No. of Allowances	2014	375	64	-	79	518
Annual Allowances		17,991,965	1,616,266	-	1,425,272	21,033,503
No. of Allowances	2013	346	64	-	75	485
Annual Allowances		15,717,792	1,592,871	-	1,360,274	18,670,937
No. of Allowances	2012	342	64	-	69	475
Annual Allowances		15,235,817	1,561,905	-	1,050,207	17,847,929
No. of Allowances	2011	336	63	-	65	464
Annual Allowances		14,482,254	1,362,780	-	978,917	16,823,951
No. of Allowances	2010	282	62	1	57	402
Annual Allowances		10,778,285	1,276,645	11,601	843,646	12,910,177
No. of Allowances	2009	268	63	1	59	391
Annual Allowances		9,744,449	1,279,376	11,387	832,758	11,867,970
No. of Allowances	2008	246	60	1	54	361
Annual Allowances		8,693,247	1,184,093	11,177	689,165	10,577,682

¹ Data for all years is final data from the respective June 30 valuations.

² Total Deaths Before Retirement represents one-time payments to members' beneficiaries and refund of members' contributions, plus interest.

San Diego City Employees' Retirement System
Allowances Being Paid - Service and Disability Retirees and Beneficiaries (continued)
As of Fiscal Years Ended June 30

			Airport			
	As of Fiscal Year ¹	Total Service Retirements	Total Disability Retirements	Total Deaths Before Retirement ²	Total Deaths After Retirement	Total Allowances Being Paid
No. of Allowances	2017	100	2	-	5	107
Annual Allowances		\$4,585,571	\$37,088	\$-	\$95,106	\$4,717,765
No. of Allowances	2016	83	2	-	5	90
Annual Allowances		3,589,413	36,374	-	93,267	3,719,054
No. of Allowances	2015	68	2	2	4	76
Annual Allowances		2,913,320	35,926	25,785	72,300	3,047,331
No. of Allowances	2014	59	2	2	4	67
Annual Allowances		2,536,340	35,427	25,784	71,250	2,668,801
No. of Allowances	2013	45	2	-	4	51
Annual Allowances		1,909,883	34,380	-	69,636	2,013,899
No. of Allowances	2012	41	1	-	4	46
Annual Allowances		1,633,186	14,916	-	68,282	1,716,384
No. of Allowances	2011	33	1	-	4	38
Annual Allowances		1,178,216	14,630	-	66,783	1,259,629
No. of Allowances	2010	23	1	-	2	26
Annual Allowances		875,275	14,349	-	39,726	929,350
No. of Allowances	2009	20	1	-	1	22
Annual Allowances		745,037	14,074	-	22,924	782,035
No. of Allowances	2008	16	-	-	1	17
Annual Allowances		457,761	-	-	22,478	480,239

¹ Data for all years is final data from the respective June 30 valuations.

² Total Deaths Before Retirement represents one-time payments to members' beneficiaries and refund of members' contributions, plus interest.

**San Diego City Employees' Retirement System
Retired Members by Type of Benefit¹
For Fiscal Year Ended June 30, 2017²**

City

Amount of Monthly Benefit	Total Allowances Paid	Type of Retirement		
		Service Retirements	Disability Retirements	Death Beneficiaries
\$0 - \$1,000	894	325	71	498
\$1,001 - \$2,000	1,527	682	380	465
\$2,001 - \$3,000	1,635	1,248	217	170
\$3,001 - \$4,000	1,532	1,163	264	105
\$4,001 - \$5,000	1,038	922	60	56
\$5,001 - \$6,000	966	900	42	24
\$6,001 - \$7,000	835	770	57	8
\$7,001 - \$8,000	593	550	39	4
\$8,001 - \$9,000	352	331	20	1
\$9,001 - \$10,000	187	176	7	4
Over \$10,000	209	205	4	0
	9,768	7,272	1,161	1,335

Port

Amount of Monthly Benefit	Total Allowances Paid	Type of Retirement		
		Service Retirements	Disability Retirements	Death Beneficiaries
\$0 - \$1,000	73	34	4	35
\$1,001 - \$2,000	119	64	28	27
\$2,001 - \$3,000	93	72	7	14
\$3,001 - \$4,000	88	66	15	7
\$4,001 - \$5,000	59	56	3	0
\$5,001 - \$6,000	35	32	2	1
\$6,001 - \$7,000	43	42	0	1
\$7,001 - \$8,000	18	18	0	0
\$8,001 - \$9,000	16	15	0	1
\$9,001 - \$10,000	9	8	1	0
Over \$10,000	24	23	0	1
	577	430	60	87

Airport

Amount of Monthly Benefit	Total Allowances Paid	Type of Retirement		
		Service Retirements	Disability Retirements	Death Beneficiaries
\$0 - \$1,000	5	5	0	0
\$1,001 - \$2,000	26	20	2	4
\$2,001 - \$3,000	21	20	0	1
\$3,001 - \$4,000	22	22	0	0
\$4,001 - \$5,000	5	5	0	0
\$5,001 - \$6,000	10	10	0	0
\$6,001 - \$7,000	6	6	0	0
\$7,001 - \$8,000	5	5	0	0
\$8,001 - \$9,000	2	2	0	0
\$9,001 - \$10,000	2	2	0	0
Over \$10,000	3	3	0	0
	107	100	2	5

¹Data above reflects the number of retirement allowances paid. Death beneficiaries include Qualified Domestic Relation Orders (QDRO), and do not include lump sum payments to beneficiaries for members who died before or after retirement.

²Data for FY 2017 is the most recent available from SDCERS' actuary.

San Diego City Employees' Retirement System
Average Benefit Payment Amounts
As of Fiscal Years Ended June 30

Fiscal Year ¹	Number of Allowances	Annual Allowances Paid	Averages				
			Annual Allowance	Percentage Increase (Decrease) Over Prior Year	Attained Age	Age At Retirement ²	Service Years At Retirement
City							
2017	9,768	\$470,812,001	\$48,199	2.68%	67.3	55.9	23.7
2016	9,454	443,788,677	46,942	1.93	67.1	55.8	23.7
2015	9,103	419,209,660	46,052	1.92	66.9	55.6	23.7
2014	8,822	398,603,107	45,183	2.78	66.7	55.5	23.7
2013	8,454	371,628,344	43,959	3.00	66.7	55.4	23.8
2012	8,205	350,163,968	42,677	3.21	66.5	55.4	23.7
2011	7,902	326,748,899	41,350	3.30	66.4	55.3	23.8
2010	7,581	303,457,616	40,029	4.01	66.4	55.3	23.7
2009	7,369	283,586,563	38,484	5.19	66.3	55.3	23.6
2008	6,940	253,894,388	36,584	4.35	66.6	55.0	23.5
Port							
2017	577	\$25,662,742	\$44,476	3.04%	68.7	57.7	19.0
2016	558	24,084,860	43,163	1.72	68.7	57.8	19.0
2015	536	22,743,044	42,431	4.50	68.3	57.6	18.7
2014	518	21,033,503	40,605	5.48	68.2	57.6	18.5
2013	485	18,670,937	38,497	2.45	68.1	57.6	18.4
2012	475	17,847,929	37,575	3.63	67.6	57.7	18.5
2011	464	16,823,951	36,259	12.90	67.1	57.6	18.6
2010	402	12,910,177	32,115	5.81	68.3	57.8	17.6
2009	391	11,867,970	30,353	3.59	68.1	57.9	17.6
2008	361	10,577,682	29,301	4.49	68.2	57.6	17.7
Airport							
2017	107	\$4,717,765	\$44,091	6.70%	65.8	62.0	16.9
2016	90	3,719,054	41,323	3.06	65.5	61.9	16.4
2015	76	3,047,331	40,096	0.66	65.1	61.8	15.8
2014	67	2,668,801	39,833	0.87	64.5	61.6	15.9
2013	51	2,013,899	39,488	5.83	64.8	61.8	15.7
2012	46	1,716,384	37,313	12.56	64.5	62.0	15.7
2011	38	1,259,629	33,148	-7.26	64.3	62.0	15.5
2010	26	929,350	35,744	0.55	63.8	61.4	16.9
2009	22	782,035	35,547	25.83	63.3	61.3	16.6
2008	17	480,239	28,249	3.49	64.1	62.7	17.0

¹ Data for all years is final data from the respective June 30 valuations.

² Service and Disability retirees only, beneficiaries are excluded.

San Diego City Employees' Retirement System
Average Benefit Payment Amounts by Year of Retirement¹
As of Fiscal Years Ended June 30²

City		Years of Creditable Service						
		0-5	6-10	11-15	16-20	21-25	26-30	31+
2017	Average Monthly Benefit	\$563	\$1,739	\$2,573	\$3,522	\$4,598	\$5,664	\$5,376
	Average Final Monthly Salary	9,657	6,369	6,479	6,093	6,737	6,894	5,915
	Number of New Retirees	3	20	38	106	91	94	55
2016	Average Monthly Benefit	1,315	1,848	2,454	3,220	4,654	5,802	5,651
	Average Final Monthly Salary	5,915	7,304	5,895	5,837	6,723	6,993	6,291
	Number of New Retirees	3	18	40	92	96	127	40
2015	Average Monthly Benefit	809	2,171	2,146	3,285	4,526	5,840	5,046
	Average Final Monthly Salary	7,335	8,136	5,357	6,044	6,444	7,049	5,746
	Number of New Retirees	5	16	49	89	99	100	48
2014	Average Monthly Benefit	791	1,829	2,377	3,114	4,330	5,694	4,805
	Average Final Monthly Salary	7,731	5,863	5,966	5,618	6,220	6,848	5,218
	Number of New Retirees	5	24	34	92	103	115	41
2013	Average Monthly Benefit	-	2,749	1,759	2,702	3,835	5,331	5,471
	Average Final Monthly Salary	-	8,399	5,375	5,614	6,159	6,809	6,224
	Number of New Retirees	-	7	45	33	109	113	56
2012	Average Monthly Benefit	1,101	-	1,641	3,165	3,693	5,524	5,306
	Average Final Monthly Salary	13,908	-	4,898	6,349	5,942	6,853	6,166
	Number of New Retirees	2	-	38	24	127	118	59
2011	Average Monthly Benefit	916	1,966	1,834	3,219	3,831	5,621	5,367
	Average Final Monthly Salary	7,559	9,458	5,298	6,531	6,105	7,042	5,870
	Number of New Retirees	4	1	25	31	139	90	66
2010	Average Monthly Benefit	525	1,304	1,840	2,502	3,786	5,480	5,425
	Average Final Monthly Salary	5,050	6,757	5,142	5,127	5,975	6,783	5,927
	Number of New Retirees	2	6	29	19	119	90	58
2009	Average Monthly Benefit	1,132	1,312	1,794	2,996	3,816	5,651	5,580
	Average Final Monthly Salary	11,391	6,365	5,120	6,072	6,077	7,169	6,152
	Number of New Retirees	3	5	46	32	165	152	82
2008	Average Monthly Benefit	128	1,101	1,716	2,358	3,421	5,357	5,455
	Average Final Monthly Salary	5,022	3,553	5,098	4,828	5,623	6,951	6,128
	Number of New Retirees	2	9	34	23	122	106	69
Port	Average Monthly Benefit	\$1,003	\$1,314	\$3,268	\$3,705	\$6,240	\$7,456	\$10,064
	Average Final Monthly Salary	8,872	6,313	8,708	6,531	9,058	8,655	12,013
	Number of New Retirees	4	5	6	7	5	2	1
2016	Average Monthly Benefit	420	1,399	1,801	3,321	4,824	7,416	4,850
	Average Final Monthly Salary	6,793	11,042	4,090	5,974	7,614	8,538	5,405
	Number of New Retirees	4	1	2	5	7	2	1
2015	Average Monthly Benefit	433	770	3,360	5,474	4,922	9,187	-
	Average Final Monthly Salary	5,816	9,410	5,683	11,593	8,338	12,163	-
	Number of New Retirees	2	3	7	6	12	3	-
2014	Average Monthly Benefit	830	2,900	2,020	6,733	5,687	11,276	-
	Average Final Monthly Salary	5,816	9,410	5,683	11,593	8,338	12,163	-
	Number of New Retirees	2	3	7	6	12	3	-
2013	Average Monthly Benefit	44	933	2,089	3,466	4,231	7,624	-
	Average Final Monthly Salary	2,264	7,023	5,884	7,358	6,409	9,302	-
	Number of New Retirees	1	3	2	3	2	5	-
2012	Average Monthly Benefit	654	1,661	1,288	-	5,070	7,453	7,023
	Average Final Monthly Salary	8,371	8,930	4,905	-	8,510	9,275	8,706
	Number of New Retirees	1	4	3	-	4	1	2
2011	Average Monthly Benefit	-	2,756	2,300	2,824	5,028	6,285	5,246
	Average Final Monthly Salary	-	13,653	6,664	5,567	7,543	7,922	5,833
	Number of New Retirees	-	1	6	7	22	22	6
2010	Average Monthly Benefit	104	2,570	2,566	3,775	4,193	7,125	7,642
	Average Final Monthly Salary	4,126	8,805	6,953	7,523	6,929	8,058	8,648
	Number of New Retirees	1	2	3	2	3	2	3
2009	Average Monthly Benefit	76	1,073	2,916	2,695	4,727	4,523	2,684
	Average Final Monthly Salary	5,629	4,790	8,284	5,326	7,274	10,093	5,553
	Number of New Retirees	1	4	6	4	8	3	2
2008	Average Monthly Benefit	222	490	1,237	2,308	4,223	5,484	-
	Average Final Monthly Salary	5,225	3,263	2,951	4,425	6,940	6,512	-
	Number of New Retirees	2	1	6	7	2	6	-

¹ Retirees only (including DROP participants); beneficiaries excluded.

² Data for FY 2017 is the most recent available from SDCERS' actuary.

San Diego City Employees' Retirement System
Average Benefit Payment Amounts by Year of Retirement¹ (continued)
As of Fiscal Years Ended June 30²

		Years of Creditable Service							
		0-5	6-10	11-15	16-20	21-25	26-30	31+	
Airport	2017	Average Monthly Benefit	\$-	\$1,945	\$9,045	\$4,368	\$4,233	\$6,758	\$-
		Average Final Monthly Salary	-	6,913	20,350	7,412	6,247	8,634	-
		Number of New Retirees	-	7	1	3	5	4	-
	2016	Average Monthly Benefit	583	2,485	8,419	3,860	3,736	5,366	6,124
		Average Final Monthly Salary	6,932	8,958	20,783	7,799	6,643	7,202	6,722
		Number of New Retirees	1	5	1	5	2	1	1
	2015	Average Monthly Benefit	1,240	1,768	3,563	2,967	-	5,939	6,140
		Average Final Monthly Salary	10,038	6,082	9,825	5,786	-	7,711	6,808
		Number of New Retirees	1	3	2	2	-	1	1
	2014	Average Monthly Benefit	820	2,109	2,638	7,333	\$-	5,915	-
		Average Final Monthly Salary	4,981	8,175	7,169	13,179	-	7,683	-
		Number of New Retirees	1	6	2	3	-	1	-
	2013	Average Monthly Benefit	-	1,666	-	-	4,981	-	-
		Average Final Monthly Salary	-	8,864	-	-	9,543	-	-
		Number of New Retirees	-	2	-	-	2	-	-
	2012	Average Monthly Benefit	882	1,349	7,679	-	4,057	10,070	-
		Average Final Monthly Salary	14,912	6,234	16,867	-	6,444	11,001	-
		Number of New Retirees	1	2	2	-	2	1	-
	2011	Average Monthly Benefit	-	1,804	2,788	2,839	-	-	-
		Average Final Monthly Salary	-	8,273	9,021	5,051	-	-	-
		Number of New Retirees	-	2	5	1	-	-	-
	2010	Average Monthly Benefit	-	1,926	-	-	802	-	7,986
		Average Final Monthly Salary	-	8,496	-	-	4,117	-	9,289
		Number of New Retirees	-	1	-	-	1	-	1
2009	Average Monthly Benefit	-	877	-	8,125	-	-	5,409	
	Average Final Monthly Salary	-	5,996	-	15,016	-	-	7,338	
	Number of New Retirees	-	1	-	2	-	-	1	
2008	Average Monthly Benefit	928	-	-	2,929	2,169	3,339	-	
	Average Final Monthly Salary	8,466	-	-	5,484	3,908	4,424	-	
	Number of New Retirees	1	-	-	2	1	1	-	

¹ Retirees only (including DROP participants); beneficiaries excluded.

² Data for FY 2017 is the most recent available from SDCERS' actuary.

Statistical Section

San Diego City Employees' Retirement System
Active Members
As of Fiscal Years Ended June 30

Fiscal Year ^{1,2}	Number of Members	Payroll	Averages			
			Annual Salary	Percentage Increase (Decrease) Over Prior Year	Current Age	Years of Service Credit
City						
2017	6,388	\$448,889,789	\$70,271	1.95%	45.1	14.0
2016	6,748	465,100,254	68,924	0.92	45.0	13.8
2015	7,038	480,662,378	68,295	3.35	44.9	13.7
2014	7,272	480,535,973	66,080	0.10	44.7	13.4
2013	7,566	499,463,072	66,014	-0.23	44.5	13.3
2012	7,724	511,090,601	66,169	0.26	44.3	13.2
2011	7,792	514,264,750	65,999	1.07	44.1	13.5
2010	8,120	530,238,356	65,300	0.68	43.7	13.1
2009	8,273	536,591,287	64,861	2.74	43.4	13.0
2008	8,487	535,774,438	63,129	4.64	43.5	13.2
Port						
2017	367	\$34,388,005	\$93,700	0.70%	46.4	12.4
2016	362	33,684,615	93,051	4.68	46.7	12.9
2015	377	33,512,411	88,892	2.86	46.6	12.6
2014	385	33,272,693	86,423	4.37	46.5	12.6
2013	417	34,528,283	82,802	0.41	45.9	12.5
2012	435	35,872,676	82,466	10.49	45.1	11.5
2011	464	34,632,573	74,639	1.39	44.5	10.6
2010	532	39,164,664	73,618	2.85	45.0	10.8
2009	564	40,370,258	71,578	4.68	44.3	9.9
2008	565	38,634,835	68,380	2.87	44.3	9.7
Airport						
2017	394	\$31,628,301	\$80,275	-0.73%	46.8	9.0
2016	385	31,131,795	80,862	1.95	47.2	9.1
2015	368	29,189,357	79,319	2.71	48.1	9.5
2014	362	27,955,455	77,225	1.58	47.6	9.2
2013	347	26,380,323	76,024	4.37	48.1	9.9
2012	341	24,839,570	72,843	-0.36	47.7	9.3
2011	344	25,148,489	73,106	-0.89	47.1	9.0
2010	347	25,595,623	73,763	0.97	46.8	8.5
2009	338	24,693,427	73,057	6.06	46.4	8.0
2008	341	23,488,283	68,881	1.64	45.5	7.2

¹ Data for all years is final data from the respective June 30 valuations.

² Beginning with FY 2012, reported payroll includes across the board increases for the upcoming fiscal year. Historical data for prior years does not include those increases.

San Diego City Employees' Retirement System
Inactive Members¹
As of Fiscal Years Ended June 30

Fiscal Year ²	Number of Inactive Members	Total Contribution Balances	Averages		
			Current Age	Years of Service Credit	Contribution Balance
City					
2017	2,851	\$157,417,824	48.0	6.0	\$55,215
2016	2,865	147,243,821	47.5	6.0	51,394
2015	2,907	137,649,546	47.1	6.1	47,351
2014	2,920	133,420,493	46.7	6.2	45,692
2013	2,971	134,186,414	46.2	6.6	45,165
2012	2,892	123,281,448	45.8	6.7	42,628
2011	2,894	120,243,558	45.4	7.1	41,549
2010	2,874	112,729,129	44.9	7.2	39,224
2009	2,827	106,837,122	44.4	7.4	37,792
2008	2,743	100,703,014	44.2	7.7	36,713
Port					
2017	274	\$6,249,214	51.0	4.8	\$22,807
2016	279	6,238,739	50.7	4.8	22,361
2015	284	5,803,736	49.9	4.7	20,436
2014	285	5,286,762	49.5	4.5	18,550
2013	286	5,071,031	49.2	4.4	17,731
2012	290	5,094,210	49.0	4.4	17,566
2011	287	4,770,466	48.4	4.5	16,622
2010	289	4,619,732	47.8	4.4	15,985
2009	281	4,043,994	47.1	4.3	14,391
2008	276	3,987,972	46.6	4.6	14,449
Airport					
2017	119	\$2,784,854	46.3	4.4	\$23,402
2016	112	2,626,223	46.3	4.6	23,448
2015	99	2,125,985	46.0	4.5	21,475
2014	90	1,719,513	45.6	4.1	19,106
2013	79	1,414,252	46.7	4.0	17,902
2012	76	1,316,550	46.7	3.7	17,323
2011	75	1,250,452	45.9	3.8	16,673
2010	72	1,104,304	46.7	3.7	15,338
2009	68	921,442	46.9	3.5	13,551
2008	62	1,033,782	46.4	4.1	16,674

¹ Inactive members are former active members of SDCERS who have left employment of the plan sponsor and have contributions still on deposit with SDCERS. Inactive SDCERS' members may or may not be vested to receive a retirement benefit in the future.

² Data for all years is final data from the respective June 30 valuations.

**San Diego City Employees' Retirement System
Participating Plan Sponsors**



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