

AGENDA

RETIREMENT BOARD MEETING

SPECIAL MEETING December 2, 2015 9:00 a.m. Retirement Board Conference Room The Willows Office Park 1355 Willow Way, Suite 221 Concord, California

THE RETIREMENT BOARD MAY DISCUSS AND TAKE ACTION ON THE FOLLOWING:

- 1. Pledge of Allegiance.
- 2. Accept comments from the public.

CLOSED SESSION

3. CONFERENCE WITH LABOR NEGOTIATORS (Government Code Section 54957.6)

Agency designated representatives: Gail Strohl, Retirement Chief Executive Officer Christina Dunn, Retirement Admin/HR Manager Joe Wiley, CCCERA's Chief Negotiator

Unrepresented Employees: All CCCERA unrepresented positions

4. CONFERENCE WITH LABOR NEGOTIATOR

(Government Code Section 54957.6)

Agency designated representative: Joe Wiley, CCCERA's Chief Negotiator

Unrepresented Employee: Chief Executive Officer

- 5. The Board will go into closed session under Govt. Code Section 54956.81 to consider the sale of a particular pension fund investment.
- 6. The Board will continue in closed session pursuant to Govt. Code Section 54956.9(d)(1) to confer with legal counsel regarding pending litigation:

Montgomery v. Montgomery, Solano County Superior Court, Case No. FFL 128451

The Retirement Board will provide reasonable accommodations for persons with disabilities planning to attend Board meetings who contact the Retirement Office at least 24 hours before a meeting.

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OPEN SESSION

- 7. Presentation from Koff and Associates regarding classification and total compensation report.
- 8. Consider and take possible action to adopt Koff and Associates recommended classification and salary adjustments.
- 9. Presentation from Verus Consulting presentation regarding final asset allocation selections.
- 10. Consider and take possible action to adopt a new asset allocation strategy.
- 11. Miscellaneous
 - a. Staff Report
 - b. Outside Professionals' Report
 - c. Trustees' comments

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Contra Costa County Employees' Retirement Association

Volume I – Classification Study for Unrepresented Classifications

November, 2015

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Contra Costa County Employees' Retirement Association – Unrepresented Classifications

November 16, 2015

Ms. Christina Dunn Administrative Human Resources Manager Contra Costa County Employees' Retirement Association 1355 Willow Way, Suite 221 Concord, CA. 94520

Dear Ms. Dunn:

Koff & Associates is pleased to present the final classification and compensation report for the study of all positions at the Contra Costa County Employees' Retirement Association. Volume I documents the classification study process and provides recommendations for the classification plan, allocations of individual positions for all Association staff, and class specifications. Volume II, to be sent under separate cover once CCCERA has reviewed the draft total compensation data, documents the market compensation survey, findings, and recommendations.

This first volume incorporates a summary of the study's multi-step process, which included results of written Position Description Questionnaires, interviews with employees, and employee review and comments in the form of draft class descriptions, and class allocation recommendations.

We would like to thank you, Gail Strohl, and other Association staff for your assistance and cooperation, without which this study could not have been brought to its successful completion.

We will be glad to answer any questions or clarify any points as you are implementing the findings and recommendations. It was a pleasure working with the Association and we look forward to future opportunities to provide you with professional assistance.

Very truly yours,

Katie Kaneko President



Contra Costa County Employees' Retirement Association – Unrepresented Classifications

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Contra Costa County Employees' Retirement Association – Unrepresented Classifications

BACKGROUND

In August of 2015, the Contra Costa Employees' Retirement Association contracted with Koff & Associates to conduct a classification and compensation study for all Association staff. This study was precipitated by several factors:

- ➤ The concern of management and the employee groups that employees should be recognized for the level and scope of work performed and that they are paid on a fair and competitive basis that allows the Association to recruit and retain a high-quality staff;
- > To ensure that class descriptions reflect current programs, responsibilities, and technology;
- > The desire to have a classification and compensation plan that can meet the needs of the Association; and
- > The desire to ensure that internal relationships of salaries are based upon objective, non-quantitative evaluation factors, resulting in equity across all Association departments.

This report focuses on sixteen (16) classifications that were studied within the Unrepresented group.

CLASSIFICATION STUDY GOALS

The goals and objectives of the classification portion of the study were to:

- Obtain detailed information regarding each position through a variety of techniques, including written Position Description Questionnaires (PDQs) and interviews with employees and management;
- Prepare an updated classification plan, including recommended class descriptions and position allocations that recognizes the scope and level of the various classes and positions, and is perceived as equitable by management and employees alike;
- Provide class descriptions and other documentation that includes information required for compliance with the Americans with Disabilities Act (ADA) and appropriate qualifications, including knowledge, skills, and other requirements that are job-related and meet other legal guidelines; and
- > Provide sufficient documentation to allow the Association to maintain the classification system on a regular basis.

CLASSIFICATION STUDY PROCESS

The classification study procedures were as follows:



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Classifications

- ➤ An initial meeting was held with Association management to clarify study scope, objectives, processes, and deliverables.
- An orientation meeting was held to which all employees were invited, to meet consultant staff involved with the project, clarify study objectives and procedures, answer questions, and distribute the PDQs.
- After the PDQs were completed by employees and reviewed by supervisors and consultant staff, interviews were conducted with all employees and management.
- Following the analysis of the classification information gathered, draft class concepts, specifications, and position allocations were developed for management and employee review.
- After resolution of issues, wherever possible, including additional contacts with employees and management to gain details and clarification, appropriate modifications were made to the draft specifications and allocations and this final report was prepared.

CLASSIFICATION CONCEPTS

The Difference between Positions and Classifications

"Position" and "Classification" are two terms that are often used interchangeably, but have very different meanings. As used in this report:

- A position is an assigned group of duties and responsibilities performed by one person. A position can be full-time, part-time, regular or temporary, filled or vacant. Often the word "job" is used in place of the word "position."
- A classification or class may contain only one position or may consist of a number of positions. When you have several positions assigned to one class, it means that the same title is appropriate for each position; that the scope, level, duties, and responsibilities of each position assigned to the class are sufficiently similar (but not identical) that the same core knowledge, skills, abilities, and other requirements are appropriate for all positions, and that the same salary range is equitable for all positions in the class.

The description of a position often appears as a working desk manual, going into detail regarding work process steps, while a class description emphasizes the general scope and level of responsibilities, plus the knowledge, skills, abilities, and other requirements for successful performance.

When positions are classified, the focus is on assigned job duties and the job related requirements for successful performance, not on individual employee capabilities or amount of work performed. Positions are thus evaluated and classified on the basis of such factors as knowledge, skills, and abilities required to perform the work, the complexity of the work, the authority delegated to make decisions and take action, the responsibility for the work of others and/or for budget expenditures,



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contacts with others (both inside and outside of the organization), and the impact of the position on the organization and working conditions.

The Relationship of Classification and Compensation

Classification and the description of the work and the requirements to perform the work are separate and distinct from determining the worth of that work in the labor market and to the organization. While recommending the appropriate compensation for the work of a class depends upon an understanding of what that work is and what it requires (as noted above), compensation levels are often influenced by two factors:

- The external labor market; and
- Internal relationships within the organization.

Compensation findings and recommendations for the Association will be covered in Volume II of this report.

The Purpose of Having a Classification Plan

A position classification plan provides an appropriate basis for making a variety of human resources decisions such as the:

- Development of job-related recruitment and selection procedures;
- Clear and objective appraisal of employee performance;
- Development of training plans and succession planning;
- > Design of an equitable and competitive salary structure;
- Organizational development and the management of change; and
- Provision of an equitable basis for discipline and other employee actions.

In addition to providing this basis for various human resources management and process decisions, a position classification plan can also effectively support systems of administrative and fiscal control. Grouping of positions into an orderly classification system supports planning, budget analysis and preparation, and various other administrative functions.

Within a position classification plan, job classifications can either be broad (containing a number of positions) or narrow (emphasizing individual job characteristics). Broad job classifications are indicated when:

- ➤ Employees can be hired with a broad spectrum of knowledge, skill, and/or academic preparation and can readily learn the details of the Association, the department, and the position on-the-job; or
- > There is a need for flexibility of the assignment within a department or an organization due to changing programs, technologies, or workload.

Individualized job classifications are indicated when:



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- There is an immediate need to recruit for specialty knowledge and skills;
- There is a minimum of time or capability for on-the-job training; or
- There is an organizational need to provide for specific job recognition and to highlight the differences between jobs.

Most classification plans are a combination of these two sets of factors and we have chosen the middle ground in this study as being most practicable in the Association's changing environment and service delivery expectations, as well as being in line with the Association's strategic plan. This approach resulted in recommendations to retitle one classification to more accurately reflect current responsibilities or use more contemporary titles (e.g., Member Senior Member Services Data Specialist to Data Technology Specialist); or to reclassify certain individuals into existing or entirely new classifications that more accurately reflect current responsibilities (e.g. a Retirement Counselor II to a new classification of Disability Specialist). Detailed allocation recommendations are found in Appendix I of the report.

Class Descriptions

In developing the new and revised classification descriptions for all positions, the basic concepts outlined in the previous pages were utilized. The recommended class descriptions are included in Appendix II of this report.

As mentioned earlier, the class descriptions are based upon the information from the written PDQs completed by each employee, the individual job audit interviews (if required), and from information provided by employees and managers during the review processes. These descriptions provide:

- ➤ A written summary documenting the work performed and/or proposed by the incumbents of these classifications;
- Distinctions among the classes; and
- Documentation of requirements and qualifications to assist in the recruitment and selection process.

Just as there is a difference between a position and a class, there is also a difference between a position description and a class description. A position description, often known as a "desk manual", generally lists each duty an employee performs and may also have information about how to perform that duty. A class description normally reflects several positions and is a summary document that does not list each duty performed by every employee. The class description, which is intended to be broader, more general and informational, is intended to indicate the general scope and level of responsibility and requirements of the class, not detail-specific position responsibilities.

The sections of each class description are as follows:

Title: This should be brief and descriptive of the class and consistent with other titles in the classification plan and the occupational area.



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➤ The title of a classification is normally used for organization, classification, and compensation purposes within the Association. Often working titles are used within a department to differentiate an individual. All positions have a similar level of scope and responsibility; however, the working titles may give assurance to a member of the public that they are dealing with an appropriate individual. Working titles should be authorized by Human Resources to ensure consistency within the Association and across departmental lines.

Definition: This provides a capsule description of the job and should give an indication of the type of supervision received, the scope and level of the work and any unusual or unique factors. The phrase "performs related work as required" is not meant to unfairly expand the scope of the work performed, but to acknowledge that jobs change and that not all duties are included in the class specification.

Supervision Received and Exercised: This section specifies which class or classes provide supervision to the class being described and the type and level of work direction or supervision provided to this class. The section also specifies what type and level of work direction or supervision the class provides to other classes. This assists the reader in defining where the class "fits" in the organization and alludes to possible career advancement opportunities.

Class Characteristics: This can be considered the "editorial" section of the specification, slightly expanding the Definition, clarifying the most important aspects of the class and distinguishing this class from the next higher-level in a class series or from a similar class in a different occupational series.

Examples of Typical Job Functions: This section provides a list of the major and typical duties, intended to define the scope and level of the class and to support the Qualifications, including Knowledge and Skills. This list is meant to be illustrative only. It should be emphasized that the description is a summary document, and that duties change depending upon program requirements, technology, and organizational needs.

Qualifications: This element of the description has several sections:

- ➤ A listing of the job-related knowledge and skills required to successfully perform the work. They must be related to the duties and responsibilities of the work and capable of being validated under the Equal Employment Opportunity Commission's Uniform Guidelines on Selection Procedures. Knowledge (intellectual comprehension) and Skills (acquired proficiency) should be sufficiently detailed to provide the basis for selection of qualified employees.
- ➤ A listing of educational and experience requirements that outline minimum and alternative ways of gaining the knowledge and skills required for entrance into the selection process. These elements are used as the basic screening technique for job applicants.



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➤ Licenses and/or certifications identify those specifically required in order to perform the work. These certifications are often required by an agency higher than the Association (i.e., the State), and can therefore be appropriately included as requirements.

Physical Demands: This section identifies the basic physical abilities required for performance of the work. These are not presented in great detail (although they are more specifically covered for documentation purposes in the PDQs) but are designed to indicate the type of pre-employment physical examination (lifting requirements and other unusual characteristics are included, such as "finger dexterity needed to access, enter, and retrieve data using a computer keyboard") and to provide an initial basis for determining reasonable accommodation for ADA purposes.

Working Conditions: These can describe certain outside influences and circumstances under which a job is performed; they give employees or job applicants an idea of certain risks involved in the job and what type of protective gear may be necessary to perform the job. Examples are loud noise levels, cold and/or hot temperatures, vibration, confining workspace, chemicals, mechanical and/or electrical hazards, and other job conditions.

CLASSIFICATION FINDINGS AND RECOMMENDATIONS

All class descriptions were updated in order to ensure that the format is consistent, and that the duties and responsibilities are current and properly reflect the required knowledge, abilities, and skills.

Retitling of Classifications

The Association's current classification structure comprises predominantly Contra Costa County classifications titled to reflect their assignment with the Association. The following details the title changes which occurred as a result of the study with most changes confined to eliminating the "retirement" designation from classification titles. As stated earlier in this report, the Association maintains a balance of broad and narrow classifications.

Current Class Title	Proposed Class Title
Retirement Administrative/Human Resources	Administrative/Human Resources
Coordinator	Supervisor
Retirement Administrative/Human Resources	Administrative/Human Resources Manager
Manager	
Retirement Accountant	Accountant
Supervising Accountant	Accounting Supervisor
Retirement Accounting Manager	Accounting Manager
Retirement Benefits Program Coordinator	Retirement Services Supervisor
-	Member Services Supervisor
Retirement Benefits Manager	Member Services Manager
	Retirement Services Manager
Retirement Chief Executive Officer	Chief Executive Officer



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Current Class Title	Proposed Class Title
Retirement Compliance Officer	Compliance Officer
Retirement Deputy Chief Executive Officer	Deputy Chief Executive Officer
Retirement General Counsel	General Counsel
Retirement Information Technology Manager	Information Technology Manager
Retirement Information Technology	Information Technology Coordinator
Coordinator I	
Retirement Programmer Analyst	Information Systems Programmer Analyst

Title changes are recommended to more clearly reflect the level and scope being performed, as well as establish consistency with the labor market and industry standards. Any compensation recommendations (detailed in Volume II) are not dependent upon a new title, but upon the market value as defined by job scope, level and responsibilities, and the qualifications required for successful job performance. All recommended position allocations in Appendix I and class descriptions are included in Appendix II of this report.

New Classifications

The following new classifications were developed; no positions are currently allocated to this new classifications.

• Deputy General Counsel

Exemption Status

One of the major components of the job analysis and classification review is the determination of each classification's appropriate Fair Labor Standards Act (FLSA) status, i.e., exempt vs. non-exempt from the FLSA overtime rules and regulations.

As we review position description questionnaires and notes from the interviews, we analyze each classification's essential functions to determine FLSA status. There are three (3) levels for the determination of the appropriate FLSA status that are utilized and on which we base our recommendations. Below are the steps used for the determination of *Exempt* FLSA status.

Salary Basis Test – The incumbents in a classification are paid at least \$455 per week (\$23,660 per year), not subject to reduction due to variations in quantity/quality of work performed. Note: computer professionals' salary minimum is defined in hourly terms as \$27.63 per hour.

Exemption Applicability – The incumbents in a classification perform any of the following types of jobs:

Executive: Employee whose primary duty is to manage the business or a recognized department/entity and who customarily directs the work of two or more employees. This also includes individuals who hire, fire, or make recommendations that carry particular weight regarding employment status. Examples: executive, director, owner, manager, supervisor.



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- Administrative: Employee whose primary activities are performing office work or nonmanual work on matters of significance relating to the management or business operations of the firm or its customers and which require the exercise of discretion and independent judgment. Examples: coordinator, administrator, analyst, accountant.
- Professional: Employee who primarily performs work requiring advanced knowledge/education and which includes consistent exercise of discretion and independent judgment. The advanced knowledge must be in a field of science or learning acquired in a prolonged course of specialized intellectual instruction. Examples: attorney, physician, statistician, architect, biologist, pharmacist, engineer, teacher.
- Computer professional: Employee who primarily performs work as a computer systems analyst, programmer, software engineer or similarly skilled work in the computer field performing a) application of systems analysis techniques and procedures, including consulting with users to determine hardware, software, or system functional specifications; b) design, development, documentation, analysis, creation, testing, or modification of computer systems or programs, including prototypes, based on and related to user or system design specification; or c) design, documentation, testing, creation or modification of computer programs based on and related to user or system design specifications; or a combination of the duties described above, the performance of which requires the same level of skills. Examples: system analyst, database analyst, network architect, software engineer, programmer.

Job Analysis – A thorough job analysis of the job duties must be performed to determine exempt status. An exempt position must pass both the salary basis and duties tests. The job analysis should include:

- > Review of the minimum qualifications established for the job;
- > Review of prior class descriptions, questionnaires, and related documentation;
- Confirmation of duty accuracy with management: and
- > Review and analysis of workflow, organizational relationships, policies, and other available organizational data.

Non-exempt classifications work within detailed and well-defined sets of rules and regulations, policies, procedures, and practices that must be followed when making decisions. Although the knowledge base required to perform the work may be significant, the framework within which incumbents work is fairly restrictive and finite. (Please note that FLSA does not allow for the consideration of workload and scheduling when it comes to exemption status).

Finally, often times a classification performs both non-exempt and exempt duties, so we analyze time spent on each type of duties. If a classification performs mostly non-exempt duties (i.e. more than 50% of his or her time), then the classification would be considered non-exempt. The unrepresented job classes whose FLSA exemption changed to non-exempt are Retirement Services Supervisor, Member Services Supervisor and Information Technology Coordinator.



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MAINTAINING THE CLASSIFICATION PLAN

A classification plan is not a stable, unchanging entity. Positions may grow and change depending upon technology, service delivery requirements, and a number of other factors. As mentioned above, a "snapshot in time" may become outdated quickly in some areas.

We are therefore including this final section to this report, which will assist the Association in identifying appropriate placement of new and/or realigned positions within the recommended classification structure. By utilizing this process, the Association will be able to change and grow the organization while maintaining the classification structure.

In considering whether a position should be placed in a higher/lower classification or where a new classification should be placed within the plan, the following factors should be examined. Although they are not quantified, as requests for reclassification occur, each of the following factors should be addressed. These will provide guidance for maintenance of the classification and compensation plans.

1. Type and Level of Knowledge and Skill Required

This factor defines the level of job knowledge and skill, including those attained by formal education, technical training, on-the job experience, and required certification or professional registration. The varying levels are as follows:

A. The basic or entry-level into any occupational field

This entry-level knowledge may be attained by obtaining a high school diploma, completing specific technical course work, or obtaining a four-year or advanced college or university degree.

B. The experienced or journey-level in any occupational field

This knowledge and skill level recognizes a class that is expected to perform the day-to-day functions of the work independently, but with guidelines (written or oral) and supervisory assistance available. This level of knowledge is sufficient to provide on-the-job instruction to a fellow employee or an assistant when functioning in a lead capacity. Certifications may be required for demonstrating possession of the required knowledge and skills.

C. The advanced level in any occupational field

This knowledge and skill level is applied in situations where an employee is required to perform or deal with virtually any job situation that may be encountered. Guidelines may be limited and creative problem solving may be involved. Supervisory knowledge and skills are considered in a separate factor and should not influence any assessment of this factor.

D. Total mastery of one or more occupational fields



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This level normally requires an advanced level of college or university education and is normally found in a research, educational, or product development situation.

2. Supervisory/Management Responsibility

This factor defines the supervisory and managerial responsibility, including short and longrange planning, budget development and administration, resource allocation, policy and procedure development, and direction of staff.

A. No ongoing direction of programs or staff

The employee is responsible for the performance of his or her own work and may provide side-by-side instruction to a co-worker.

B. Lead direction of staff or program coordination

The employee plans, assigns, directs, and reviews the work of staff performing similar work to that performed by the employee on a day-to-day basis. Training in work procedures is normally involved. If staff direction is not involved, the employee must have responsibility for independently coordinating one or more programs or projects on a regular basis.

C. Full first-line supervisor

The employee performs the supervisory duties listed above, and, in addition, makes effective recommendation and/or carries out selection, performance evaluation, and disciplinary procedures. If staff supervision is not involved, the employee must have programmatic responsibility, including development and implementing goals, objectives, policies and procedures, and budget development and administration.

D. First full managerial level

The employee is considered mid-management, often supervising through subordinate levels of supervision. In addition to the responsibilities outlined above, responsibilities include allocating staff and budget resources among competing demands and performing significant program and service delivery planning and evaluation. Normally, this level would be titled a program or division manager.

E. Department managerial level

The employee is the director of a specified department, normally reporting to the Chief Executive Officer.

F. Chief Executive Officer level

The employee has total administrative responsibility for the Association.

3. Supervision Received

A. Direct Supervision

Direct supervision is usually received by entry-level employees and trainees, i.e., employees who are new to the organization and/or position they are filling. Initially under close supervision, incumbents with basic related experience learn to perform the routine tasks



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and activities of the assigned classification. As experience is gained, assignments become more varied and are performed with greater independence. Positions receiving direct supervision usually perform most of the duties required of the positions at the next higher level (i.e., the journey-level in a class series), but are not expected to function at the same skill level and usually exercise less independent discretion and judgment in matters related to work procedures and methods. Work is usually supervised while in progress and fits an established structure or pattern. Exceptions or changes in procedures are explained in detail as they arise. Since this class is often used as a training class, employees may have only limited or no directly related work experience.

B. General Supervision

General supervision is usually received by journey-level and experienced employees, i.e., employees who have been in a position for a period of time and have had the opportunity to be trained and learn most, if not all, duties and responsibilities of the assigned classification. Incumbents are cross-trained to perform the full range of technical work in all of the areas of assignment. Positions at this level are distinguished from the next lower level (i.e., the entry-level in a class series) by the performance of the full range of duties as assigned, working independently, and exercising judgment and initiative. Positions at this level receive only occasional instruction or assistance as new or unusual situations arise and are fully aware of the operating procedures and policies of the work unit.

C. General Direction

General direction is usually received by supervisory or managerial employees, or employees who are highly specialized and/or subject matter experts in a certain field, function, or program. Responsibilities include performing diverse, specialized, and complex work involving significant accountability and decision-making responsibility. The incumbent organizes and oversees day-to-day activities of a work unit, division, function, and/or program and is responsible for providing professional-level support to the next higher classification level (often a Department Head or other executive manager) in a variety of areas. Successful performance of the work requires an extensive professional background as well as skill in coordinating the assigned work with other functional areas, work units, divisions, departments, and/or outside agencies. This class is often distinguished from the next higher classification level in that the latter has overall responsibility for all functions of the assigned department or division and for developing, implementing, and interpreting public policy.

D. Administrative Direction

Administrative direction is usually received by department heads or other executive management classifications. The class' work provides for a wide variety of independent decision-making, within legal and general policy and regulatory guidelines. The class itself often exercises general direction and supervision over other management, supervisory, professional, technical, and administrative support staff through subordinate levels of supervision and oversees, directs, and participates in all activities of the assigned department or work section, including short- and long-term planning, development, and administration. This class often provides assistance to the Chief Executive Officer of the organization in a variety of administrative, coordinative, analytical, and liaison capacities. Successful performance of the work requires knowledge of public policy, retirement



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agency functions and activities, including the role of the elected governing body, and the ability to develop, oversee, and implement projects and programs in a variety of areas. Responsibilities include coordinating the activities of the assigned department or work section with those of other departments and outside agencies and managing and overseeing the complex and varied functions of the department. The incumbent is accountable for accomplishing departmental planning and operational goals and objectives and for furthering organizational goals and objectives within general policy guidelines.

E. Policy Direction

Policy direction is received by the organization's Chief Executive Officer who is accountable to the governing body and responsible for enforcement of all codes and regulations, the conduct of all financial activities, and the efficient and economical performance of the organization's operations.

4. Problem Solving

This factor involves analyzing, evaluating, reasoning and creative thinking requirements. In a work environment, not only the breadth and variety of problems are considered, but also guidelines, such as supervision, policies, procedures, laws, regulations, and standards available to the employee.

A. Structured problem solving

Work situations normally involve making choices among a limited number of alternatives that are clearly defined by policies and procedures. Supervision, either on-site or through a radio or telephone, is readily available.

B. Independent, guided problem solving

Work situations require making decisions among a variety of alternatives; however, policies, procedures, standards, and regulations guide the majority of the work. Supervision is generally available in unusual situations.

C. Application of discriminating choices

Work situations require searching for solutions and independently making choices among a wide variety of policies, procedures, laws, regulations, and standards. Interpretation and evaluation of the situation and available guidelines are required.

D. Creative, evaluative, or analytical thinking

Work situations require the analysis and application of organizational policies and goals, complex laws, and/or general business or ethical considerations.

5. Authority for Making Decisions and Taking Action

This factor describes the degree to which employees have the freedom to take action within their job. The variety and frequency of action and decisions, the availability of policies, procedures, laws, and supervisory or managerial guidance, and the consequence or impact of such decisions are considered within this factor.



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A. Direct, limited work responsibility

The employee is responsible for the successful performance of his or her own work with little latitude for discretion or decision-making. Direct supervision is readily available.

B. Decision-making within guidelines

The employee is responsible for the successful performance of their own work, but able to prioritize and determine methods of work performance within general guidelines. Supervision is available, although the employee is expected to perform independently on a day-to-day basis. Emergency or unusual situations may occur, but are handled within procedures and rules. Impact of decisions is normally limited to the department or function to which assigned.

C. Independent action with focus on work achieved

The employee receives assignments in terms of long-term objectives, rather than day-to-day or weekly timeframes. Broad policies and procedures are provided, but the employee has latitude for choosing techniques and deploying staff and material resources. Impact of decisions may have significant department or Association wide service delivery and/or budgetary impact.

D. Decisions made within general policy or elected official guidance

The employee is subject only to the policy guidance of elected officials and/or broad regulatory or legal constraints. The ultimate authority for achieving the goals and objectives of the Association are with this employee.

6. Interaction with Others

This factor includes the nature and purpose of contacts with others, from simple exchanges of factual information to the negotiation of difficult issues. It also considers with whom the contacts are made, from co-workers and the public to elected or appointed public officials.

A. Exchange of factual information

The employee is expected to use ordinary business courtesy to exchange factual information with co-workers and the public. Strained situations may occasionally occur, but the responsibilities are normally not confrontational.

B. Interpretation and explanation of policies and procedures

The employee is required to interpret policies and procedures, apply and explain them and influence the public or others to abide by them. Problems may need to be defined and clarified and individuals contacted may be upset or unreasonable. Contacts may also be made with individuals at all levels throughout the Association.

C. Influencing individuals or groups

The employee is required to interpret laws, policies, and procedures to individuals who may be confrontational or to deal with members of professional, business, community, or other groups or regulatory agencies as a representative of the Association.



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D. Negotiation with organizations from a position of authority

The employee often deals with public officials, members of boards, councils, commissions, and others to provide policy direction, explain agency missions, and/or negotiate solutions to difficult problems.

7. Working Conditions/Physical Demands

This factor includes specific physical, situational, and other factors that influence the employee's working situation.

A. Normal office or similar setting

The work is performed in a normal office or similar setting during regular office hours (occasional overtime may be required, but compensated for). Responsibilities include meeting standard deadlines, using office and related equipment, lifting materials weighing up to 25 pounds, and communicating with others in a generally non-stressful manner.

B. Varied working conditions with some physical or emotional demands

The work is normally performed indoors, but may have some exposure to noise, heat, weather, or other uncomfortable conditions. Stand-by, call back, or regular overtime may be required. The employee may have to meet frequent deadlines, work extended hours, and maintain attention to detail at a computer or other machinery, deal with difficult people, or regularly perform moderate physical activity.

C. Difficult working conditions and/or physical demands

The work has distinct and regular difficult demands. Shift work (24-7 or rotating) may be required; there may be exposure to hazardous materials or conditions; the employee may be subject to regular emergency callback and extended shifts; and/or the work may require extraordinary physical demands.

Based on the above factors, in the maintenance of the classification plan when an employee is assigned an additional duty or responsibility and requests a change in classification, it is reasonable to ask:

- What additional knowledge and skills are required to perform the duty?
- ➤ How does one gain this additional knowledge and skills through extended training, through a short-term seminar, through on-the-job experience?
- > Does this duty or responsibility require new or additional supervisory responsibilities?
- ➤ Is there a greater variety of or are there more complex problems that need to be solved as a result of the new duty?
- > Does the employee have to make a greater variety of or more difficult decisions as a result of this new duty?
- Are the impacts of decisions greater because of this new duty (effects on staff, budget, department or Association -wide activities, and/or relations with other agencies)?
- Are guidelines, policies, and/or procedures provided to the employee for the performance of this new duty?
- ➤ Is the employee interacting with Association workers, the public, or others differently as a result of this new assignment?



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➤ Have the working or physical conditions of the job changed as a result of this new assignment?

Application of these factors by asking the appropriate questions will enable the Association to maintain the classification and compensation system in a timely and consistent manner.

Again, we want to thank the Association for its time and cooperation in bringing this study to a successful conclusion. It has been a pleasure working with the Contra Costa County Employees' Retirement Association on this critical project. Please do not hesitate to contact us if we can provide any additional information or clarification regarding this report.

Respectfully Submitted,

Katie Kaneko President



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Appendix I

Recommended Employee Allocations

Contra Costa County Employees' Retirement Association Allocation List - Unrepresented November 2015

Current Title	Proposed Title	Action	Supervisor Title	Comments
Retirement Accountant	Accountant	Title Change	Accounting Manager	
Retirement Accounting Manager	Accounting Manager	Title Change	Deputy CEO	
Supervising Accountant	Accounting Supervisor	Title Change	Accounting Manager	
Retirement Admin/HR Manager	Admin/HR Manager	Title Change	CEO	
Retirement Admin/HR Coordinator	Admin/HR Supervisor	Title Change	Admin/HR Manager	
Retirement Chief Executive Officer	Chief Executive Officer	Title Change		
Retirement Communications Coordinator	Communications Coordinator	Title Change	Admin/HR Manager	
Retirement Compliance Officer	Compliance Officer	Title change	CEO	
Retirement General Counsel	General Counsel	Title Change	CEO	
Deputy Retirement Chief Executive Officer	Deputy Chief Executive Officer	Title Change	CEO	
Retirement Programmer Analyst	Information Systems Programmer/Analyst	Title change	IT Manager	
				Change title to reflect assigned duties and
Retirement IT Coordinator, Level I	Information Technology Coordinator	Title change	IT Manager	responsibilities
Retirement IT Manager	Information Technology Manager	Title change	CEO	
Retirement Benefits Manager	Member Services Manager	Title change	CEO	
Retirement Benefits Program Coordinator	Member Services Supervisor	Title change	Benefits Manager	
Retirement Benefits Manager	Retirement Services Manager	Title change	CEO	
Retirement Benefits Program Coordinator	Retirement Services Supervisor	Title change	Benefits Manager	



Contra Costa County Employees' Retirement Association

Volume II – Compensation Study for Unrepresented Classifications

November 2015

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Contra Costa County Employees' Retirement Association – Unrepresented Classifications

BACKGROUND

As noted in Volume I, in August of 2015, the Contra Costa County Employees' Retirement Association contracted with Koff & Associates to conduct a comprehensive classification and compensation study for all classifications. All classification findings and options for action are found in Volume I; however, this Volume II report presents the compensation findings, recommendations, and options for implementation for the Association's unrepresented classifications only.

This compensation review process was precipitated by:

- ➤ The concern of management and the employee groups that employees should be recognized for the level and scope of work performed and that they are paid on a fair and competitive basis that allows the Association to recruit and retain a high-quality staff;
- > The desire to have a classification and compensation plan that can meet the needs of the Association; and
- The desire to ensure that internal relationships of salaries are based upon objective, non-quantitative evaluation factors, resulting in equity across the Association.

STUDY PROCESS

Benchmarking Classifications

The study comprised thirteen (13) unrepresented classifications (including the Chief Executive Officer). The proposed classification of Deputy General Counsel was included in the survey to provide the Association with market trends on this classification. Survey classes that had the most consistent and useful survey data were used as "benchmarks" in building the compensation plan. Benchmark classes are those classes that are tied directly to market salary data during the salary setting process. These classes are used as a means of anchoring the Association's overall compensation plan to the market. Other job classifications not surveyed would be aligned on the proposed compensation plan using internal equity principles.

Survey or benchmark classifications included classes that are reasonably well known, and clearly and concisely described. They are commonly used classes such that other like classes may readily be found in other agencies in order to ensure that sufficient compensation data will be compiled.

These survey classifications were included in the study:

- Accountant
- Accounting Manager
- Administrative/Human Resources Manager
- Administrative/Human Resources Supervisor
- Chief Executive Officer



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- Communications Coordinator
- Compliance Officer
- Deputy General Counsel
- General Counsel
- Information Systems Programmer Analyst
- Information Technology Coordinator
- Information Technology Manager
- Retirement Services Manager

When we contact the comparator agencies to identify possible matches for each of the benchmarked classifications, there is an assumption that we will not be able to find comparators that are 100% equivalent to the classifications at the Association. Therefore, we do not match based upon job titles, which can often be misleading, but we analyze each class description before we consider it as a comparator. Our methodology is to analyze each class description according to the factors listed on page 6 and we require that a position's "likeness" be at approximately 70% of the matched position to be included.

When we do not find an appropriate match with one class, we often use "brackets" which can be functional or represent a span in scope of responsibility. A functional bracket means that the job of one classification at the Association is performed by two classifications at a comparator agency. A "bracket" representing a span in scope means that the comparator agency has one class that is "bigger" in scope and responsibility and one position that is "smaller," where the Association's class falls in the middle.

In all, of the thirteen (13) benchmarked classifications identified, we were able to collect sufficient data from the comparator agencies for twelve (12) benchmark classifications. We consider fewer than four comparison matches to be insufficient for analysis because fewer matches make variations in salaries more significant and results may not accurately reflect the market.

Benchmarking Comparator Agencies

The second, most important step in conducting a market salary study is the determination of appropriate agencies for comparison.

In considering the selection of valid agencies for salary comparator purposes, a number of factors should be taken into consideration:

1. Organizational type and structure – We generally recommend that agencies of a similar size, providing similar services to that of the Association be used as comparators. The comparators chosen were comprised eight County 37 Act retirement agencies, and four local agencies, one of which was a County, and three of which were special districts. These local agencies were selected to ensure that organizations with a strong impact on local wages were surveyed specifically for relevant business and administrative classifications.

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- 2. Similarity of population, staff, and operational budgets These elements provide guidelines in relation to resources required (staff and funding) and available for the provision of services.
- 3. Scope of services provided and geographic location Organizations providing the same services are ideal for comparators and most comparator agencies surveyed provide similar services to the Contra Costa County Employees' Retirement Association, including service and disability retirement. However, given the specialized nature of the Association's services, and the absence of similar agencies within the local market, Koff & Associates recommended a state-wide market of similar sized retirement associations; to ensure that the cost of labor did not skew data, using metrics from the Economic Research Institute, a nationally recognized database, salaries for agencies outside the Bay Area were adjusted to reflect local market salary conditions relative to the salaries paid by the Association.

When it comes to management and executive classifications, the types of services provided by an agency become less important, as each agency still needs administrative, financial, and program-related leadership classifications. At the management level, differences in size and scope of services are more critical when considering comparators, as explained above.

- 4. Labor market In the reality that is today's labor market, many agencies are in competition for the same pool of qualified employees. No longer do individuals necessarily live in the communities they serve. As mentioned above, the geographic labor market area, where the Contra Costa County Employees' Retirement Association may be recruiting from or losing employees to, was taken into consideration when selecting comparator organizations. Furthermore, by selecting employers within a geographic proximity to the Association, the resulting labor market data generally reflects the region's cost of living, housing costs, growth rate, and other demographic characteristics to the same extent as competing employers to the Association.
- 5. Compensation Philosophy Does the organization regularly conduct a market survey, and, once completed, how is this information applied? Many agencies pay to the median, some pay to the average, others may pay to a higher percentile. In addition, salary ranges may be set strictly upon market base salary values or may include the total value of salary and benefits when developing a compensation policy.

All of the above elements should be considered in selecting the group of comparator agencies. The Association agreed on a list of comparator agencies and the following twelve (12) agencies were originally used as comparators for the purposes of this market study:

- 1. Alameda County Employees Retirement Association
- 2. City/County of San Francisco Retirement System
- 3. Orange County Employees' Retirement System
- 4. Sacramento County Employees' Retirement System
- 5. San Bernardino County Employees' Retirement Association
- 6. San Diego County Employees' Retirement Association
- 7. San Mateo County Employees' Retirement Association
- 8. Ventura County Employees' Retirement Association



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- 9. Central Contra Costa Sanitation District
- 10. County of Contra Costa
- 11. Contra Costa Water District
- 12. East Bay Municipal Water District

Benchmarking Benefit Data Collection

The last element requiring discussion prior to beginning a market survey is the specific benefit data that will be collected and analyzed. The following information was collected for each of the benchmarked classifications:

- **1. Monthly Base Salary:** The top of the salary range and/or control point. All figures are presented on a monthly basis.
- 2. Employee Retirement This includes several figures, 1) the amount of the employee's obligated retirement contribution that is contributed by each agency on behalf of the employee, 2) the amount of the agency's Social Security contribution, and 3) any alternative retirement plan, either private or public where the employee's contribution is made by the agency on behalf of the employee. Employer pick up of the employee's contribution, as described in item (1) is being phased out as pension reform is implemented throughout the State.

In addition to the amount of the employer paid member contribution, we collected information on enhanced benefits, e.g. the value attached to the retirement benefit formula itself (i.e. 2%@55) and the value attached to the basis for the formula calculation (i.e. highest 12 month average, 36 month average, etc.)

The value for enhanced benefits is based upon CalPERS actuarial valuations, as published by CalPERS. The value for each enhanced benefit is based on the midpoint of the impact on total employer contribution rate. For example, the impact on total employer contribution rate for the enhanced benefit of final compensation based on single highest year (CalPERs Optional Benefits Listing Section 20042) ranges from 0.9% to 1.8% for miscellaneous employees. We report the value of single highest year as 1.35%.

Because the benefits formulas for 37 Act counties do not always align directly with the CalPERS formulas and benefits, Koff & Associates calculated the values relative to the CalPERS retirement benefit and formula which is most closely aligned with the 37 Act benefit and formula; we have taken a conservative approach to this evaluation since it is not necessarily an "apples-to-apples" comparison but it does provide an overall assessment of the value of the enhanced benefit. You will note that in some cases, there is a negative value in the spreadsheet and this is an indicator that the benefit provided is of a lesser value than the base formula and benefit.

Because the median of all analyses is used for each classification, we do not consider the data has been skewed in the translation from CalPERS to 37 Act benefits. The four CalPERS benefits which serve as the basis for the analyses are presented below, with an explanation of how the values are reflected in the total compensation spreadsheets. The basis for the

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additional enhanced calculations and the employer pick up is also described in the section below.

- Formulas for Miscellaneous (base formula is 2% at age 60) are based on CalPERS actuarial calculations:
 - 2% at age 55 (CalPERs Optional Benefits Listing Section 21354): this formula provides to local miscellaneous members 2% of pay at age 55 for each year of eligible service credited with that employer; midpoint of range = 3.05%
 - 2.5% at age 55 (CalPERs Optional Benefits Listing Section 21354.4): this formula provides to local miscellaneous members 2.5% of pay at age 55 for each year of eligible service credited with that employer; midpoint of range = 4.95%
 - 2.7% at age 55 (CalPERs Optional Benefits Listing Section 21354.5): this formula
 provides to local miscellaneous members 2.7% of pay at age 55 for each year of
 eligible service credited with that employer; midpoint of range = 8.05%
 - 3% at age 60 (CalPERs Optional Benefits Listing Section 21354.3): this formula provides to local miscellaneous members 3% of pay at age 60 for each year of eligible service credited with that employer; midpoint of range = 9.80%.
- Additional Optional Enhanced Benefit Provisions
 - One-Year Final Compensation (Section 20042): the period determining the average monthly pay rate when calculating retirement benefits; base period is thirty-six (36) highest paid consecutive months; one-year final compensation is based on twelve (12) months highest paid consecutive months; midpoint of range for miscellaneous = 1.35%.
 - Employer Paid Member Contribution (Section 20636(c) (4)): the reporting of the value of the employer paid member contribution to their respective 37 Act County Retirement System as special compensation; average value = employer paid member contribution multiplied by employer paid member contribution.

The point of comparison to capture pension benefits was the Legacy tier (sometimes referred to as the Classic tier) at the Association, as well as the comparator agencies. This means that for agencies with a multi-tier retirement system, the tier was captured that is currently available to Legacy members transferring from another agency with retirement reciprocity to the Association.

- 3. Insurance This is the maximum amount paid by the agency for employees and dependents for a cafeteria or flexible benefit plan and/or health, dental, vision, life, long-term disability, and employee assistance insurance.
- **4.** Leave Other than sick leave, which is usage-based, the number of days off for which the agency is obligated. All days have been translated into direct salary costs.
 - Vacation The number of vacation days available to all employees after five years of employment.
 - ➤ Holidays The number of holidays (including floating) available to employees on an annual basis.

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- ➤ Administrative/Personal Leave Administrative leave is normally the number of days available to management to reward for extraordinary effort (in lieu of overtime). Personal leave may be available to other groups of employees to augment vacation or other time off.
- 5. **Automobile** This category includes either the provision of an auto allowance or the provision of an auto for personal use. If a car is provided to any classification for commuting and other personal use, the average monthly rate is estimated at \$450.
- **6. Deferred Compensation** We captured deferred compensation provided to all members of a classification with or without the requirement for an employee to provide a matching or minimum contribution.
- 7. Other This category includes any additional benefits available to all in the class.

Please note that all of the above benefit elements are benefits provided to all members of each comparator class. As such, they represent an on-going cost for which an agency must budget. Other benefit costs, such as sick leave, tuition reimbursement, and reimbursable mileage are usage-based and cannot be quantified on an individual employee basis.

Data Collection

Data was collected during the months of October through November 2015, through websites, planned telephone conversations with human resources or other personnel at each comparator agency, and careful review of agency documentation of classification descriptions, memoranda of understanding, organization charts, and other documents.

We believe that the salary data collection step is the most critical for maintaining the overall credibility of any study. We rely very heavily on the Association's classification descriptions developed and approved during the classification part of the study, as they are the foundation for our comparison. Personnel staff of the comparator agencies were interviewed by telephone, whenever possible, to understand their organizational structure and possible classification matches.

In identifying appropriate comparisons for the Association's classifications, we use the same factors and criteria that we analyze when updating the Association's classification plan structure and determining the proper allocation of each position during the classification study process. Factors that we consider include:

- Education and experience requirements;
- Knowledge, abilities, and skills required to perform the work;
- > The scope and complexity of the work;
- The authority delegated to make decisions and take action;
- The responsibility for the work of others, program administration, and for budget dollars:
- Problem solving/ingenuity;



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- Contacts with others (both inside and outside of the organization);
- > Consequences of action and decisions; and
- Working conditions.

A summary of the results can be found in Appendix I and the salary survey and benefit information can be found in Appendix II. For each surveyed class, there are three (3) information pages:

- Market Base (Top Step) Salary Summary Data
- Benefit Detail (Monthly Equivalent Values)
- Monthly Total Compensation Cost Summary Data

Our analysis includes the mean (average), and median (midpoint), comparator data for each benchmarked classification (assuming we were able to identify at least four (4) matches). Our firm recommends reviewing the median, rather than the average, when evaluating the data. The median is the exact midpoint of all the market data we collected, with 50% of market data below and 50% of market data above. We recommend using the median methodology because it is not skewed by extremely high or low salary values (unlike the mean).

MARKET COMPENSATION FINDINGS

As mentioned above, the salary compensation data can be found in Appendix II of this report. The market base compensation salary findings for each class surveyed are listed below, using the median results, arranged in descending order from the most positive percentile (above market) to the most negative (below market).

The Association expressed an interest in obtaining private sector data for benchmark classifications to evaluate how the private sector values these jobs. Obtaining private sector is very challenging since private organizations are not obligated to provide salary and benefits information; in addition, private sector pay practices are so sufficiently different from public sector practices that direct comparisons on range structures is difficult. Absent the ability to directly survey private organizations, Koff & Associates relies on published data from the Bureau of Labor Statistics to provide that view of private sector pay practices. Narrative on the occupational job matching and BLS methodology is presented in Appendix V.

For those benchmark classifications with comparable BLS data, the lower left quadrant of each top step data sheet contains a section titled "Private Sector Reference"; we have inserted the most comparable BLS match with the reported salary, and identified how that salary compares with the Association's.

All Comparator Agencies

The percentile represents the difference between the Association's current base salary/total compensation for each classification and the median base salary/total compensation of the all comparator agencies.



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Classification	Top Monthly Salary	Total Monthly Compensation
Classification	% above or below Median	% above or below Median
Accountant	3.3%	9.9%
Accounting Manager	-3.3%	-3.8%
Administrative HR Supervisor	-3.6%	3.8%
Administrative/Human Resources Manager	-34.1%	-23.3%
Chief Executive Officer	-36.2%	-29.3%
Communications Coordinator	-1.3%	8.4%
Compliance Officer	Insufficient Data	Insufficient Data
General Counsel	-35.7%	-36.2%
Information Systems Programmer Analyst	-12.2%	-2.6%
Information Technology Coordinator	0.0%	-0.9%
Information Technology Manager	-33.1%	-26.0%
Retirement Services Manager	-6.1%	-1.5%
Average	-14.8%	-9.2%

Base Salaries

Market base salary results show that of the eleven (11) benchmarked current classifications, for which an analysis could be conducted, one (1) is paid above the market by less than 5% and one is right at market.

Nine (9) benchmarked classifications are paid below the market median. Three (3) classes are paid below the market median by less than 5%, one (1) class is paid below the market by more than 5% and less than 10%, and five (5) classes are paid below the market by more than 10%, one (1) more than 10% and less than 20% and (4) more than 30% under market.

Since the Deputy General Counsel is not a current classification, those results do not appear in the above table; however survey results for this classification are presented in Appendix II. There was one (1) classification that had fewer than four matches producing insufficient data to do an analysis.

Generally, we consider a classification falling within 5% of the median to be competitive in the labor market for salary survey purposes because of the differences in compensation policy and actual scope of work and position requirements. However, the Association can adopt a different standard.



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Total Compensation

Market total compensation results show that of the eleven (11) benchmarked current classifications for which an analysis could be conducted, three (3) classifications are paid above the market median. One (1) class is above the market by less than 5% and two (2) classifications are paid above the market by greater than 5% and less than 10%.

Market total compensation results show that eight (8) benchmarked classifications are paid below the market median. Four (4) classes are paid below the market median by less than 5%; three (3) are paid below the market by greater than 20% and less than 30%; and one (1) class is paid below the market by more than 30%.

Overall, these differences between market base salaries and total compensation indicate that the Association's benefits package, in terms of cost, is greater than that of the market. Further analysis indicates that, on average, classifications are 14.8% below the market median when analyzing base salaries, while that figure changes to 9.2% below the market when we evaluate total compensation, which is a 5.6% difference. It should be noted that this total compensation data reflects an increase in the employer's contribution towards medical premiums that will be in effect in 2016. Accordingly, we also collected 2016 medical premiums available at the comparator agencies at the time of data collection.

Benefits

Further analysis of the market benefit data reveals the differences between the Association's benefits versus the comparator agencies:

Retirement

- ➤ The Benefit Formula offered by the Association for "classic" member employees is 2%@55. Three (3) comparator agencies offers an equivalent benefit formula; one (1) comparator agency offers a 2%@55 ½; one (1) comparator agency offers a 2.35%@55; one (1) offers a 2.7%@55; one (1) offers of 3%@60; one (1) offers a 2%@61; one (1) offers 2%@61.25; one (1) offers a 2.6%@62; one(1) offers a 2.3%@65; and one (1) offers a 2.43%@65.
- Nine (9) comparators participate in social security.
- Three (3) comparators pay a percentage of the EPMC on behalf of the employee.
- > Overall, the combination the enhancements to the pension plan display that the Association offers a retirement benefit that is greater than that of the comparators.

Insurances

➤ The Insurance benefits provided by the Association, including medical, dental, life, and long term disability, are approximately thirteen percent (13%) greater than those provided by the comparator agencies.



Contra Costa County Employees' Retirement Association – Unrepresented Classifications

The Association's benefits package is greater than that of the market due to the higher retirement formula and insurance premiums, and for professional classes, the provision of administrative leave. Since the average difference between base pay and total compensation is significant, salary recommendations were made based on total monthly compensation.

INTERNAL SALARY RELATIONSHIPS

Building from the salary levels established for identified benchmark classes, internal salary relationships were developed and consistently applied in order to develop specific salary recommendations for all non-benchmarked classes. Appendix IV presents the salary recommendations developed for the Association including the internal salary relationship guidelines used.

While analyzing internal relationships, the same factors were considered that we used in constructing the Association's classification plan, allocating positions to specific classifications within the plan, and comparing the Association's current classifications to the labor market during the compensation study.

In addition, when considering an appropriate salary range level, there are certain standard human resources practices that are normally applied, as follows:

- As mentioned above, a salary within 5% of the market average or median is considered to be competitive in the labor market for salary survey purposes because of the differences in compensation policy and actual scope of the position and its requirements. However, a closer standard can be adopted by an agency.
- > Certain internal percentages are often applied. Those that are the most common are:
 - ❖ The differential between a trainee and experienced class in a series (I/II or Trainee/Experienced) is generally 10% to 15%;
 - ❖ A lead or advanced journey-level (III or Senior-level) position is generally placed 10% to 15% above the lower experienced level; and
 - ❖ A full supervisory position is normally placed at least 10% to 25% above the highest level supervised, depending upon the breadth and scope of supervision.
- When a market or internal equity adjustment is granted to one class in a series, the other classes in the series are also adjusted accordingly to maintain internal equity.

Internal equity between certain levels of classification is a fundamental factor to be considered when making salary decisions. When conducting a market compensation survey, results can often show that certain classifications that are aligned with each other are not the same in the outside labor market. However, as an organization, careful consideration needs to be given to these alignments because they represent internal value of classifications within job families, as well as across the organization.

There are some classifications which were either not benchmarked for the study, or in one case, there was insufficient data with which to conduct an analysis. For all classifications that were not



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benchmarked, internal alignments with other classifications will need to be considered, either in the same class series or those classifications that have similar scope of work, level of responsibility, and "worth" to the Association. Where it is difficult to ascertain internal relationships due to unique qualifications and responsibilities, reliance can be placed on past internal relationships. It is important for Association management to carefully review these internal relationships and determine if they are still appropriate given the current market data.

It is important to analyze market data and internal relationships within class series as well as across the organization, and make adjustments to salary range placements as necessary based on the needs of the organization.

The Association may want to make other internal equity adjustments as it implements a compensation strategy. This market survey is only a tool to be used by the Association to determine market indexing and salary determination. Detailed information regarding each class' current salary and the percentage difference to the market median is found in Appendix I of this report.

RECOMMENDATIONS

Pay Philosophy

The Association has many options regarding what type of compensation plan it wants to implement. This decision will be based on what the Association's pay philosophy is, at which level it desires to pay its employees compared to the market, whether it is going to consider additional alternative compensation programs, and how great the competition is with other agencies over recruitment of a highly-qualified workforce.

Another consideration will be the cost of the Association's pay philosophy. Bringing all employees to the market median would denote an increase of the Association's payroll expenses and may not be feasible to accomplish with one immediate adjustment.

Proposed Monthly Salary Plan

We are recommending that the Association move to a consistent salary structure, typical of most public agencies, which consists of 5 steps that are 5% apart from each other with a 2.5% differential between each range.

Proposed Salary Range Placements

Appendix IV illustrates the proposed salary range placement for each classification based on the market data and an internal relationship analysis. The spreadsheets also include our rationale for each recommended placement and the projected percentage change. Our recommendation is to use the total compensation median-based results to calculate the recommendations. We made the following calculation: we used the market total compensation median percentages for each surveyed classification, multiplied that with the Association's current top salary step for that classification, and then placed classifications into the proposed monthly salary schedule based



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on those findings, into the salary range whose top step is closest to the market number (we refer to this as the "market placement").

For all classifications, this primary implementation procedure must be completed only at the initial time of implementation. In the future, if the Association decides to implement annual across-the-board COLA increases, only the salary schedule that we developed needs to be increased by the appropriate percentage and each individual salary range will move up with this adjustment. This will ensure that the internal salary relationships are preserved and the salary schedule remains structured and easily administered.

Options for Implementation

While the Association may be interested in bringing all salaries to the market median, in most cases this goal may not be reached with a single adjustment. In this case, one option is to use a phased implementation approach. Normally, if the compensation implementation program must be carried over months or years, the classes that are farthest from the market median should receive the greatest equity increase (separate from any cost of living increase). If a class falls within five percent (5%) of the market median, it would be logical to make no equity adjustment in the first round of changes. However, if a class is more than 5% (or in this case, more than 20%) below the market median, a higher percentage change may be initially warranted to reduce the disparity.

For example, if the Association decided to implement the recommendations over a three (3) year period, then the following guidelines could be applied for the initial increase of the three-year implementation plan:

Market Disparity	<u>% Increase</u>
0 to 4.99%	0 to 2.49%
5.0% to 10.39%	2.5% to 4.99%
10.4% to 12.99%	5.0% to 7.49%
13.0% to 19.99%	7.5% to 9.99%
20.0% and above	10.0%

The initial first year adjustment represents the adjustment needed in order to provide a portion of the equity increase and to place the class into the closest step (but not below) where they are now. Subsequent increases would be spaced on a similar schedule (at annual intervals) based upon the remaining disparity after each adjustment.

Please note that typically, for those classes that had a market disparity of 0 to 4.99%, we recommend a 0% increase in the first year and an adjustment in the second year. Depending upon the Association's financial situation, which will have to be reviewed before each further adjustment is made, all market disparity adjustments are intended to be completed by the third year. The Association may also consider a similar implementation plan over a longer period of time, like a 5-year implementation plan.



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Another option is to move employees into the salary range that is recommended for each class based on this market study and to the step within the new range that is closest to their current compensation. If employees' current salaries are significantly below market so that their current compensation falls below the bottom of the newly recommended range, then larger adjustments would be needed to move those employees at least to the bottom of the new salary range.

The Association may spend additional time to go through a process of deliberation and decision-making as to what compensation philosophy it should implement to attract, motivate, and retain a high-quality workforce. However, it may want to consider adjusting those classifications' salaries that are currently below the market median as soon as possible, assuming that incumbents' performance meets the Association's level of expectation.

We would also recommend that the Association Y-rate all employees that are at a salary above their current market salary range until the market numbers "catch up" with their current salary. To Y-rate an employee means to keep the employee's salary frozen and to provide no salary increases until the employee's current salary is within the recommended salary range. This will result in no immediate loss of income, but will delay any future increases until the incumbent's salary is within the salary range.

Other options to "freezing" a class' salary in place until the market catches up are:

- "Grandfathering" of salary ranges: this means that the salary range for the classification is adjusted down to what the market numbers are. However, current incumbents would continue being paid at the current rate of pay (which would put them outside of the new and adjusted salary range for the class) until they leave the Association or retire. Any new-hires would be paid within the newly established salary range.
- Single-incumbent classes: if a class only has one incumbent, an option would be to wait until the person leaves or retires from the Association and then adjust the salary range for the class according to the market.

Another option, of course, is to actually reduce salaries down to where the market numbers are. However, from employee relations perspective this may not be a viable option.

USING MARKET DATA AND THIS REPORT AS A TOOL

We wish to reiterate that this report and our findings are meant to be a tool for the Association to create and implement an equitable compensation plan. Compensation strategies are designed to attract and retain excellent staff. However, financial realities and the Association's expectations may also come into play when determining appropriate compensation philosophies and strategies. The collected data represents a market survey that will give the Association an instrument to make future compensation decisions.

Koff & Associates



Contra Costa County Employees' Retirement Association – Unrepresented Classifications

It has been a pleasure working with the Contra Costa County Employees' Retirement Association on this critical project. Please do not hesitate to contact us if we can provide any additional information or clarification regarding this report.

Respectfully Submitted,

Koff & Associates

Katie Kaneko President



Contra Costa County Employees' Retirement Association – Unrepresented Classifications

Appendix I

Results Summary

Contra Costa Employees' Retirement Association Results Summary - Unrepresented November, 2015

		Adjuste	d Top Monthly Sa	alary Data			To	tal Monthly Comp	pensation		# of
Classification	Adjusted Top Monthly Salary	Average	% above or below	Median	% above or below	Total Monthly Comp	Average	% above or below	Median	% above or below	Matches
Accountant	\$ 6,825	\$ 6,958	-1.9%	\$ 6,600	3.3%	\$10,416	\$10,202	2.1%	\$9,380	9.9%	12
Accounting Manager	\$10,338	\$11,070	-7.1%	\$10,684	-3.3%	\$14,880	\$15,548	-4.5%	\$15,444	-3.8%	11
Administrative HR Supervisor (HR											
Analyst Data)	\$7,899	\$8,288	-4.9%	\$8,186	-3.6%	\$11,920	\$12,061	-1.2%	\$11,472	3.8%	12
Administrative/Human Resources											
Manager (HR Manager Data)	\$8,447	\$11,141	-31.9%	\$11,325	-34.1%	\$12,597	\$15,724	-24.8%	\$15,537	-23.3%	10
Chief Executive Officer	\$15,925	\$21,287	-33.7%	\$21,692	-36.2%	\$21,366	\$27,590	-29.1%	\$27,618	-29.3%	8
Communications Coordinator	\$8,127	\$8,076	0.6%	\$8,231	-1.3%	\$12,150	\$11,583	4.7%	\$11,135	8.4%	9
Compliance Officer	\$10,855	Insufficient Data	Insufficient Data	Insufficient Data	Insufficient Data	\$15,480	Insufficient Data	Insufficient Data	Insufficient Data	Insufficient Data	3
Deputy General Counsel - New Class	Proposed	\$14,625		\$14,807		N/A	\$19,386		\$19,148		10
General Counsel	\$13,736	\$18,265	-33.0%	\$18,633	-35.7%	\$18,825	\$23,915	-27.0%	\$25,638	-36.2%	7
Information Technology Coordinator	\$6,865	\$6,955	-1.3%	\$6,865	0.0%	\$10,155	\$10,204	-0.5%	\$10,251	-0.9%	11
Information Technology Manager	\$9,919	\$13,492	-36.0%	\$13,204	-33.1%	\$14,397	\$18,572	-29.0%	\$18,134	-26.0%	11
Information Systems Programmer											
Analyst	\$7,439	\$8,511	-14.4%	\$8,344	-12.2%	\$11,364	\$12,015	-5.7%	\$11,654	-2.6%	10
Retirement Services Manager	\$10,338	\$11,147	-7.8%	\$10,969	-6.1%	\$14,880	\$15,066	-1.2%	\$15,107	-1.5%	8
									. ,		
		Average	-15.6%	Average	-14.8%		Average	-10.6%	Average	-9.2%	



Contra Costa County Employees' Retirement Association – Unrepresented Classifications

Appendix II

Market Base Salary, Benefits Detail, and Total Compensation Findings

Rank	Comparator Agency	Class Title	Top Monthly Salary	Cost of Labor	Top	justed o Step alary	Effective Date	Next Salary Increase	Next Percentage Increase
1	Contra Costa Water District	Senior Accountant	\$9,459		\$	9.459	11/10/2014	Unknown	Unknown
2	Central Costa Water District Central Contra Costa Sanitary District	Accountant	\$8,284			8,284	4/18/2015	4/18/2016	1% - 5%
3	East Bay Municipal Utility District Alameda County Employees Retirement	Accountant II	\$7,857			7,857	4/20/2015	Unknown	Unknown
4	Association	Retirement Accountant II	\$7,075		\$	7,075	7/5/2015	Unknown	Unknown
5	City/County San Francisco Retirement System Contra Costa County Employees' Retirement	Accountant II	\$6,931		\$	6,931	10/15/2015	7/1/2016	2.25% - 3.25%
6	Association San Mateo County Employees Retirement	Accountant	\$6,825		\$	6,825	7/1/2015		
7	Association Ventura County Employees Retirement	Retirement Accountant II	\$6,691		\$	6,691	10/11/2015	10/19/2016	3%
8	Association	Accounting Officer III	\$6,010	8.3%	\$	6,509	8/16/2015	Unknown	Unknown
9	Orange County Employees Retirement System Sacramento County Employees Retirement	Accountant Auditor II	\$5,971	7.2%	\$	6,401	4/14/2014	Unknown	Unknown
10	System San Bernardino County Employees Retirement	Accountant	\$5,798	9.8%	\$	6,366	6/28/2015	6/26/2016	4% + 1%
11	Association San Diego County Employees Retirement	Accountant	\$5,536	11.5%	\$	6,173	7/2/2015	Unknown	Unknown
12	Association	Retirement Accountant	\$5,561	9.6%	\$	6,095	6/26/2015	6/24/2016	2%
13	Contra Costa County	Accountant II	\$5,652		\$	5,652	7/1/2015	Unknown	Unknown
PRIVA ⁻	TE SECTOR REFERENCE	Average of Comparators	\$6,735		\$	6,958			
	Accountants and Auditors	% CCCERA Above/Below	1.3%			1.9%			
Average of BLS Private Sector Data	\$7,159	// GOOLIA ABOVIDION	1.370			1.370			
% CCCERA Above/Below	-4.9%	Median of Comparators % CCCERA Above/Below	\$6,351 7.0%			6,600 .3%			
Median of BLS Private Sector									
Data	\$6,490								
% CCCERA Above/Below	4.9%	Number of Matches	12			12			

Rank	Comparator Agency	Class Title	Top Monthly Salary	Cost of Labor	Adjusted Top Step Salary	Effective Date	Next Salary Increase	Next Percentage Increase
1	Central Contra Costa Sanitary District	Finance Manager	\$13,707		\$13,707	4/18/2015	4/18/2016	2% - 5%
2	Contra Costa Water District Alameda County Employees Retirement	Accounting Manager	\$13,414		\$13,414	7/29/2014	Unknown	Unknown
3	Association	Fiscal Services Officer	\$12,527		\$12,527	Unknown	Unknown	Unknown
4	City/County San Francisco Retirement System San Bernardino County Employees Retirement	Manager III	\$11,717		\$11,717	10/15/2015	7/1/2016	2.25% - 3.25
5	Association San Mateo County Employees Retirement	Accounting Manager	\$10,228	11.5%	\$11,404	7/2/2015	Unknown	Unknown
6	Association Sacramento County Employees Retirement	Retirement Finance Officer	\$10,684		\$10,684	10/11/2015	10/19/2016	3%
7	System Contra Costa County Employees' Retirement	Senior Accounting Manager	\$9,593	9.8%	\$10,533	6/28/2015	6/26/2016	4% + 1%
8	Association San Diego County Employees Retirement	Accounting Manager	\$10,338		\$10,338	7/1/2015		
9	Association	Retirement Services Manager	\$9,232	9.6%	\$10,118	6/26/2015	6/24/2016	2%
10	Orange County Employees Retirement System Ventura County Employees Retirement	Finance Manager	\$9,325	7.2%	\$9,996	4/14/2014	Unknown	Unknown
11	Association	Fiscal Manager I	\$8,328	8.3%	\$9,019	6/16/2015	Unknown	Unknown
12	Contra Costa County	Chief Accountant	\$8,651		\$8,651	7/1/2015	Unknown	Unknown
13	East Bay Municipal Útility District	N/C				4/20/2015	Unknown	Unknown
PRIVAT	TE SECTOR REFERENCE	Average of Comparators	\$10,673		\$11,070			
110070	Financial Managers	% CCCERA Above/Below	-3.2%		-7.1%			
Average of BLS Private Sector Data	\$13,867	,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0.270		,			
% CCCERA Above/Below	-34.1%	Median of Comparators % CCCERA Above/Below	\$10,228 1.1%		\$10,684 -3.3%			
ledian of BLS Private Sector		/2 000=1011 10010/201011	,0		0.070			
Data	\$12,574							
% CCCERA Above/Below	-21.6%	Number of Matches	11		11			

	Comparator Agency	Class Title	Monthly Salary	Labor	Top Step Salary	Date	Salary Increase	Percentage Increase
1	Orange County Employees Retirement System	Administrative Manager I	\$8,788	7.2%	\$9,421	4/14/2014	Unknown	Unknown
2	Central Contra Costa Sanitary District	Human Resources Analyst	\$9,379		\$9,379	4/18/2015	4/18/2016	1% - 5%
3	Contra Costa Water District	Human Resources Analyst II	\$8,895		\$8,895	10/3/2014	Unknown	Unknown
4	East Bay Municipal Utility District San Mateo County Employees Retirement	Human Resources Analyst II	\$8,889		\$8,889	4/20/2015	Unknown	Unknowr
	Association Ventura County Employees Retirement	Management Analyst	\$8,786		\$8,786	10/11/2015	10/19/2016	3%
6	Association Alameda County Employees Retirement	Personnel Analyst II	\$7,705	8.3%	\$8,345	6/16/2015	Unknown	Unknown
7	Association San Bernardino County Employees Retirement	Human Resources Analyst II	\$8,027		\$8,027	Unknown	Unknown	Unknown
	Association Sacramento County Employees Retirement	Human Resources Coordinator	\$7,162	11.5%	\$7,986	7/2/2015	Unknown	Unknown
9		Senior Personnel Analyst	\$7,247	9.8%	\$7,957	6/28/2015	6/26/2016	4% + 1%
10	Association	Administrative HR Supervisor (HR Analyst Data)	\$7,899		\$7,899	7/1/2015		
	City/County San Francisco Retirement System San Diego County Employees Retirement	Personnel Analyst	\$7,809		\$7,809	10/15/2015	7/1/2016	2.25% - 3.2
12	Association	Human Resources Analyst	\$6,644	9.6%	\$7,282	6/26/2015	6/24/2016	2%
13	Contra Costa County	Human Resources Consultant	\$6,684		\$6,684	7/1/2015	Unknown	Unknown
		_						
PRIVAT	E SECTOR REFERENCE	Average of Comparator			\$8,288			
	Human Resources Specialist	% CCCERA Above/Belov	v -1.3%		-4.9%			
Average of BLS Private								
Sector Data	\$6,789							
% CCCERA Above/Below	14.1%	Median of Comparator % CCCERA Above/Belov			\$8,186 -3.6%			
edian of BLS Private Sector								
Data	\$6,268							
% CCCERA Above/Below	20.6%	Number of Matche	s 12		12			

Rank	Comparator Agency	Class Title	Top Monthly Salary	Cost of Labor	Adjusted Top Step Salary	Effective Date	Next Salary Increase	Next Percentaç Increase
	-		-					
1	Contra Costa Water District	Human Resources Manager	\$14,082		\$14,082	7/29/2014	Unknown	Unknow
2	Central Contra Costa Sanitary District Alameda County Employees Retirement	Human Resources Manager	\$12,424		\$12,424	4/18/2015	4/18/2016	2% - 5%
3	Association	Human Resources Officer ACERA	\$11,903		\$11,903	Unknown	Unknown	Unknow
4	City/County San Francisco Retirement System	Manager III	\$11,717		\$11,717	10/15/2015	7/1/2016	2.25% - 3.2
5	Orange County Employees Retirement System Ventura County Employees Retirement	Administrative Manager II	\$10,927	7.2%	\$11,714	4/14/2014	Unknown	Unknow
6	Association San Mateo County Employees Retirement	Program Management Analyst	\$10,099	8.3%	\$10,937	6/16/2015	Unknown	Unknow
7	Association Sacramento County Employees Retirement	Human Resources Manager II	\$10,684		\$10,684	10/11/2015	10/19/2016	3%
8	System San Diego County Employees Retirement	Human Resources Manager II	\$9,497	9.8%	\$10,428	6/28/2015	6/26/2016	4% + 1
9	Association	Human Resources Manager	\$8,252	9.6%	\$9,044	6/26/2015	6/24/2016	2%
10	Contra Costa County Contra Costa County Employees' Retirement	Personnel Services Supervisor	\$8,481		\$8,481	7/1/2015	Unknown	Unknow
11	Association	Administrative/Human Resources Manager (HR Manager Data)	\$8,447		\$8,447	7/1/2015		
12	East Bay Municipal Utility District San Bernardino County Employees Retirement	N/C				4/20/2015	Unknown	Unknow
13	Association	N/C						
PRIVA	TE SECTOR REFERENCE	Average of Comparators	\$10,807		\$11,141			
	Human Resources Manager	% CCCERA Above/Below	-27.9%		-31.9%			
Average of BLS Private								
Sector Data	\$11,781							
6 CCCERA Above/Below	-39.5%	Median of Comparators % CCCERA Above/Below	\$10,806 -27.9%		\$11,325 -34.1%			
edian of BLS Private Sector								
Data	\$10,951							
6 CCCERA Above/Below	-29.6%	Number of Matches	10		10			

San Diego County Employees Retirement 2 Association Retirement Chief Executive Officer \$21,228 9.6% \$23,266 6/26/2015 6/24/2016 2% 3 Orange County Employees Retirement System Alameda County Employees Retirement 4 Association Chief Executive Officer \$21,151 7.2% \$22,674 4/14/2014 Unknown Unknown San Bernardino County Employees Retirement 5 Association Chief Executive Officer \$21,892 \$21,892 Unknown Unknown Unknown San Mateo County Employees Retirement 6 Association Chief Executive Officer SAMCERA \$20,141 10/11/2015 10/19/2016 3% Ventura County Employees Retirement 7 Association Retirement Administrator \$18,287 8.3% \$19,805 6/16/2015 Unknown Unknown Unknown Sacramento County Employees Retirement	Rank	Comparator Agency	Class Title	Top Monthly Salary	Cost of Labor	Adjusted Top Step Salary	Effective Date	Next Salary Increase	Next Percentage Increase
San Diago County Employees Retirement Retirement Chief Executive Officer \$21,228 9.6% \$23,266 6/26/2015 6/24/2016 2%		-				-			
2	1		Department Head VI	\$23,669		\$23,669	10/15/2015	7/1/2016	2.25% - 3.25%
Alaméda County Employees Retirement	2		Retirement Chief Executive Officer	\$21,228	9.6%	\$23,266	6/26/2015	6/24/2016	2%
San Bernardino County Employees Retirement Association San Mateo County Employees Retirement Association Chief Executive Officer SAMCERA \$20,141 \$20,141 \$10/11/2015 \$10/19/2016 \$3% Ventura County Employees Retirement Association Sacramento County Employees Retirement Sacramento County Employees Retirement Sacramento County Employees Retirement Sacramento County Employees Retirement System Retirement Administrator \$18,287 8.3% \$19,805 6/16/2015 Unknown Unknown Sacramento County Employees Retirement System Retirement Administrator \$15,806 9.8% \$17,355 6/28/2015 6/26/2016 4% + 1% Contra Costa County Employees' Retirement N/C St., \$15,925 St., \$15,	3		Chief Executive Officer	\$21,151	7.2%	\$22,674	4/14/2014	Unknown	Unknown
Sasociation	4		Chief Executive Officer	\$21,892		\$21,892	Unknown	Unknown	Unknown
Association Chief Executive Officer SAMCERA \$20,141 \$20,141 \$10/11/2015 \$10/19/2016 \$3% Ventura County Employees Retirement Association Sacramento County Employees Retirement System Contra Costa County Employees' Retirement Administrator \$18,287 8.3% \$19,805 6/16/2015 Unknown Unknown Unknown Contra Costa County Employees' Retirement System Contra Costa County Employees' Retirement Contra Costa County Employees' Retirement System Contra Costa County Employees' Retirement System Contra Costa County Employees' Retirement System System Contra Costa County Employees' Retirement System System System System Contra Costa County System Chief Executive Officer System Syst	5	Association	Chief Executive Officer	\$19,275	11.5%	\$21,492	7/2/2015	Unknown	Unknown
Retirement Administrator \$18,287 8.3% \$19,805 6/16/2015 Unknown Unknown	6	Association	Chief Executive Officer SAMCERA	\$20,141		\$20,141	10/11/2015	10/19/2016	3%
Retirement Administrator	7	Association	Retirement Administrator	\$18,287	8.3%	\$19,805	6/16/2015	Unknown	Unknown
Sector Data	8	System		\$15,806	9.8%	\$17,355	6/28/2015	6/26/2016	4% + 1%
11		Association	Chief Executive Officer	\$15,925		\$15,925	7/1/2015		
12 Contra Costa Water District N/C 13 East Bay Municipal Utility District N/C PRIVATE SECTOR REFERENCE Chief Executives Average of BLS Private Sector Data \$17,562 % CCCERA Above/Below -10.3% Median of BLS Private Sector Data \$15,600									
13 East Bay Municipal Utility District N/C PRIVATE SECTOR REFERENCE Chief Executives Average of Comparators \$20,181 \$21,287 % CCCERA Above/Below -26.7% -33.7% Average of BLS Private Sector Data \$17,562 % CCCERA Above/Below -10.3% Median of BLS Private Sector Data \$15,600									
Average of Comparators \$20,181 \$21,287 Chief Executives % CCCERA Above/Below -26.7% -33.7% Average of BLS Private Sector Data \$17,562 % CCCERA Above/Below -10.3% Median of Comparators \$20,646 \$21,692 % CCCERA Above/Below -29.6% -36.2% Median of BLS Private Sector Data \$15,600									
Chief Executives	13	East Bay Municipal Utility District	N/C						
Chief Executives	PRIVAT	TE SECTOR REFERENCE	Average of Comparator	s \$20.181		\$21,287			
Average of BLS Private			· · · · · · · · · · · · · · · · · · ·						
Sector Data \$17,562 % CCCERA Above/Below -10.3% Median of Comparators \$20,646 \$21,692 Median of BLS Private Sector % CCCERA Above/Below -29.6% -36.2% Data \$15,600	Average of BLS Private	5 <u>2</u>				22 /3			
% CCCERA Above/Below -10.3% Median of Comparators \$20,646 \$21,692 % CCCERA Above/Below -29.6% -36.2% Median of BLS Private Sector Data \$15,600		\$17,562							
Median of BLS Private Sector Data \$15,600						. ,			
	Median of BLS Private Sector								
% CCCERA Above/Below 2.0% Number of Matches 8 8									
	% CCCERA Above/Below	2.0%	Number of Matche	s 8		8			

Rank	Comparator Agency	Class Title	Top Monthly Salary	Cost of Labor	Adjusted Top Step Salary	Effective Date	Next Salary Increase	Next Percentage Increase
	Sacramento County Employees Retirement							
1	System	Communications and Media Officer III	\$8,406	9.8%	\$9,230	6/28/2015	6/26/2016	4% + 1%
2	Orange County Employees Retirement System	Communications Manager	\$8.550	7.2%	\$9,166	4/14/2014	Unknown	Unknown
3	East Bay Municipal Utility District San Mateo County Employees Retirement	Public Information Specialist II	\$8,889	7.270	\$8,889	4/20/2015	Unknown	Unknown
4	Association Employees Noticement	Retirement Communications Specialist	\$8,493		\$8,493	10/11/2015	10/19/2016	3%
5	City/County San Francisco Retirement System Contra Costa County Employees' Retirement	Public Relations Officer	\$8,231		\$8,231	10/15/2015	7/1/2016	2.25% - 3.2
6	Association San Bernardino County Employees Retirement	Communications Coordinator	\$8,127		\$8,127	7/1/2015		
7	Association San Diego County Employees Retirement	Communications Officer	\$7,162	11.5%	\$7,986	7/2/2015	Unknown	Unknown
8	Association Alameda County Employees Retirement	Retirement Senior Communications Officer	\$6,649	9.6%	\$7,287	6/26/2015	6/24/2016	2%
9	Association	Communications Manager	\$7,070		\$7,070	Unknown	Unknown	Unknown
10	Contra Costa County	Public Information Officer	\$6,336		\$6,336	7/1/2015	Unknown	Unknown
11	Central Contra Costa Sanitary District	N/C						
12	Contra Costa Water District Ventura County Employees Retirement	N/C						
13	Association	N/C						
		1	.					
PRIVA	TE SECTOR REFERENCE	Average of Comparato	. ,		\$8,076			
	Public Relations Specialist	% CCCERA Above/Belo	w 4.6%		0.6%			
Average of BLS Private								
Sector Data	\$6,708							
% CCCERA Above/Below	17.5%	Median of Comparato % CCCERA Above/Beld			\$8,231 -1.3%			
edian of BLS Private Sector	•							
Data	\$5,749							
% CCCERA Above/Below	29.3%	Number of Matche	es 9		9			

Rank	Comparator Agency	Class Title	Top Monthly Salary	Cost of Labor	Adjusted Top Step Salary	Effective Date	Next Salary Increase	Next Percentage Increase
1	City/County San Francisco Retirement System Contra Costa County Employees' Retirement		\$14,571		\$14,571	10/15/2015	7/1/2016	2.25% - 3.25%
2	Association San Mateo County Employees Retirement	Compliance Officer	\$10,855		\$10,855	7/1/2015		
3	Association	Manager, Corporate and HIPAA Compliance	\$10,175		\$10,175	10/11/2015	10/19/2016	3%
4	Contra Costa County Alameda County Employees Retirement	Health Plan Director of Compliance and Government Regulations	\$9,537		\$9,537	7/1/2015	Unknown	Unknown
5	Association	N/C						
6	Central Contra Costa Sanitary District	N/C						
7	Contra Costa Water District	N/C						
8	East Bay Municipal Utility District	N/C						
9	Orange County Employees Retirement System Sacramento County Employees Retirement	N/C						
10	System	N/C						
	San Bernardino County Employees Retirement							
11	Association	N/C						
	San Diego County Employees Retirement							
12	Association	N/C						
	Ventura County Employees Retirement							
13	Association	N/C						
		Average of Comparators % CCCERA Above/Belov			Insufficient Data Insufficient Data			
		Median of Comparators % CCCERA Above/Belov			Insufficient Data Insufficient Data			
		Number of Matches	3		3			

Rank	Comparator Agency	Class Title	Top Monthly Salary	Cost of Labor	Adjusted Top Step Salary	Effective Date	Next Salary Increase	Next Percentage Increase
	Contra Costa County Employees' Retirement							
1	Association San Mateo County Employees Retirement	Deputy General Counsel - New Class	Proposed			7/1/2015		
2	Association	Deputy County Counsel IV	\$17,413		\$17,413	10/11/2015	10/19/2016	3%
3	City/County San Francisco Retirement System Ventura County Employees Retirement	Head Attorney Civil/Criminal	\$16,937		\$16,937	10/15/2015	7/1/2016	2.25% - 3.25
6	Association San Diego County Employees Retirement	Senior Civil Attorney	\$14,027	8.3%	\$15,191	6/16/2015	Unknown	Unknown
7	Association	Senior Deputy County Counsel	\$13,740	9.6%	\$15,059	6/26/2015	6/24/2016	2%
4	East Bay Municipal Utility District Alameda County Employees Retirement	Attorney III	\$15,021		\$15,021	4/20/2015	Unknown	Unknown
5	Association San Bernardino County Employees Retirement	Associate Counsel ACERA	\$14,593		\$14,593	Unknown	Unknown	Unknown
9	Association Sacramento County Employees Retirement	Senior Staff Counsel	\$12,468	11.5%	\$13,902	7/2/2015	Unknown	Unknown
10	System	Civil Attorney Level IV Range B	\$12,453	9.8%	\$13,673	6/28/2015	6/26/2016	4% + 1%
8	Contra Costa County	Deputy County Counsel Advanced Exempt	\$12,807		\$12,807	7/1/2015	Unknown	Unknown
11	Orange County Employees Retirement System		\$10,875	7.2%	\$11,658	4/14/2014	Unknown	Unknown
12	Central Contra Costa Sanitary District	N/C						
13	Contra Costa Water District	N/C						
PRIVA	TE SECTOR REFERENCE	Average of Comparators	\$14,033		\$14,625			
	Lawyers	% CCCERA Above/Below						
Average of BLS Private								
Sector Data	\$13,504.00							
% CCCERA Above/Below		Median of Comparators % CCCERA Above/Below			\$14,807			
ledian of BLS Private Sector	•							
Data	\$12,525.00							
% CCCERA Above/Below		Number of Matches	10		10			

Rank	Comparator Agency	Class Title		Top Monthly Salary	Cost of Labor	Adjusted Top Step Salary	Effective Date	Next Salary Increase	Next Percentage Increase
1	Orange County Employees Retirement System San Bernardino County Employees Retirement	Chief Legal Officer		\$20,867	7.2%	\$22,369	4/14/2014	Unknown	Unknown
2	Association San Mateo County Employees Retirement	Chief Counsel		\$18,528	11.5%	\$20,659	7/2/2015	Unknown	Unknown
3	Association San Diego County Employees Retirement	Retirement Chief Legal Counsel		\$19,183		\$19,183	10/11/2015	10/19/2016	3%
4	Association Alameda County Employees Retirement	Retirement General Counsel		\$17,001	9.6%	\$18,633	6/26/2015	6/24/2016	2%
5	Association Ventura County Employees Retirement	Chief Counsel		\$17,916		\$17,916	Unknown	Unknown	Unknown
6	Association Sacramento County Employees Retirement	General Counsel Retirement		\$13,990	8.3%	\$15,151	6/16/2015	Unknown	Unknown
7	System Contra Costa County Employees' Retirement	Retirement General Counsel		\$12,699	9.8%	\$13,944	6/28/2015	6/26/2016	4% + 1%
8	Association	General Counsel		\$13,736		\$13,736	7/1/2015		
9	Central Contra Costa Sanitary District	N/C							
10	City/County San Francisco Retirement System	N/C							
11	Contra Costa County	N/C							
12 13	Contra Costa Water District East Bay Municipal Utility District	N/C N/C							
						•			
			Average of Comparators % CCCERA Above/Below	\$17,169 -25.0%		\$18,265 -33.0%			
			Median of Comparators	\$17,916		\$18,633			
			% CCCERA Above/Below	-30.4%		-35.7%			
			Number of Matches	7		7			

Rank	Comparator Agency	Class Title	Top Monthly Salary	Cost of Labor	Adjusted Top Step Salary	Effective Date	Next Salary Increase	Next Percentage Increase
							Increase	
1	Central Contra Costa Sanitary District	Technical Support Analyst	\$7,714		\$7,714	4/18/2015	4/18/2016	1% - 5%
2	Contra Costa Water District	Network Desktop Support Technician I	\$7,500		\$7,500	7/1/2015	Unknown	Unknown
3	City/County San Francisco Retirement System Ventura County Employees Retirement	Information Systems Administrator II	\$7,497		\$7,497	10/15/2015	7/1/2016	2.25% - 3.25
4	Association San Mateo County Employees Retirement	Desktop Support Analyst II	\$6,820	8.3%	\$7,386	8/16/2015	Unknown	Unknown
5	Association Contra Costa County Employees' Retirement	Information Technology Technician	\$7,289		\$7,289	10/11/2015	10/19/2016	3%
6	Association Sacramento County Employees Retirement	Information Technology Coordinator	\$6,865		\$6,865	7/1/2015		
7	System San Diego County Employees Retirement	Information Technology Customer Support Specialist	\$6,252	9.8%	\$6,865	6/28/2015	6/26/2016	4% + 1%
8	Association Alameda County Employees Retirement	Retirement Technology Systems Technician	\$6,153	9.6%	\$6,744	6/26/2015	6/24/2016	2%
9	Association	Information Systems Specialist	\$6,621		\$6,621	Unknown	Unknown	Unknown
10	East Bay Municipal Utility District	Information Systems Specialist III	\$6,609		\$6,609	4/20/2015	Unknown	Unknown
11	Contra Costa County	Information Systems Specialist III	\$6,222		\$6,222	7/1/2015	Unknown	Unknown
12	Orange County Employees Retirement System San Bernardino County Employees Retirement	Information Systems Technician II	\$5,651	7.2%	\$6,058	4/14/2014	Unknown	Unknown
13	Association	N/C						
		•						
PRIVA	TE SECTOR REFERENCE	Average of Comparators	\$6,757		\$6,955			
	Computer Network Support Specialist	% CCCERA Above/Below	1.6%		-1.3%			
Average of BLS Private								
Sector Data	\$6,748							
% CCCERA Above/Below	1.7%	Median of Comparators % CCCERA Above/Below	\$6,621 3.6%		\$6,865 0.0%			
Median of BLS Private Sector								
Data	\$6,630							
% CCCERA Above/Below	3.4%	Number of Matches	11		11			

Rank	Comparator Agency	Class Title	Top Monthly Salary	Cost of Labor	Adjusted Top Step Salary	Effective Date	Next Salary Increase	Next Percentage Increase
	San Bernardino County Employees Retirement							
1	Association	Chief of Information Services	\$15,198	11.5%	\$16,946	7/2/2015	Unknown	Unknown
2	Central Contra Costa Sanitary District	Information Technology Manager	\$15,510		\$15.510	4/18/2015	4/18/2016	2% - 5%
3	East Bay Municipal Utility District	Information Systems Division Manager	\$15,400		\$15,400	4/20/2015	Unknown	Unknown
4	City/County San Francisco Retirement System	Manager VI	\$14,571		\$14,571	10/15/2015	7/1/2016	2.25% - 3.25
5	Contra Costa Water District	Information Systems Manager	\$14,082		\$14,082	7/29/2014	Unknown	Unknown
6	Orange County Employees Retirement System San Mateo County Employees Retirement	Director of Information Technology	\$12,317	7.2%	\$13,204	4/14/2014	Unknown	Unknown
7	Association San Diego County Employees Retirement	Chief Retirement Technology Officer	\$12,820		\$12,820	10/11/2015	10/19/2016	3%
8	Association Alameda County Employees Retirement	Retirement Information Technology Services Manager	\$11,386	9.6%	\$12,479	6/26/2015	6/24/2016	2%
9	Association Sacramento County Employees Retirement	Project and Information Services Manager	\$11,903		\$11,903	Unknown	Unknown	Unknown
10	System	Information Technology Manager	\$10,370	9.8%	\$11,386	6/28/2015	6/26/2016	4% + 1%
11	Contra Costa County Contra Costa County Employees' Retirement	Information Systems Manager II	\$10,107		\$10,107	7/1/2015	Unknown	Unknown
12	Association	Information Technology Manager	\$9,919		\$9,919	7/1/2015		
	Ventura County Employees Retirement							
13	Association	N/C						
DDIVA	TE SECTOR REFERENCE	Average of Comparators	\$13,060		\$13,492			
FRIVA	Computer and Information Systems Manager	% CCCERA Above/Below	-31.7%		-36.0%			
Average of BLS Private	Computer and information systems Manager	// CCCERA ADOVE/BEIOW	-31.770		-30.0%			
Sector Data	\$14.078							
% CCCERA Above/Below	-41.9%	Median of Comparators	\$12,820		\$13,204			
		% CCCERA Above/Below	-29.2%		-33.1%			
ledian of BLS Private Sector	•							
Data	\$13,298.00							
% CCCERA Above/Below	-34.1%	Number of Matches	11		11			

Rank	Comparator Agency	Class Title	Top Monthly Salary	Cost of Labor	Adjusted Top Step Salary	Effective Date	Next Salary Increase	Next Percentage Increase
1	Central Contra Costa Sanitary District San Mateo County Employees Retirement	Programmer Analyst	\$10,521		\$10,521	4/18/2015	4/18/2016	1% - 5%
2	Association San Diego County Employees Retirement	Information Technology Analyst	\$9,197		\$9,197	10/11/2015	10/19/2016	3%
3	Association	Retirement Technology Systems Specialist	\$8,043	9.6%	\$8,815	6/26/2015	6/24/2016	2%
4	City/County San Francisco Retirement System	Information Systems Programmer Analyst Senior	\$8,701		\$8,701	10/15/2015	7/1/2016	2.25% - 3.25
5	East Bay Municipal Utility District Sacramento County Employees Retirement	Programmer Analyst II	\$8,459		\$8,459	4/20/2015	Unknown	Unknown
6	System Ventura County Employees Retirement	Information Technology Analyst II	\$7,494	9.8%	\$8,228	6/28/2015	6/26/2016	4% + 1%
7	Association Alameda County Employees Retirement	Information Systems Analyst	\$7,551	8.3%	\$8,178	8/16/2015	Unknown	Unknown
8	Association	Programmer Analyst	\$8,046		\$8,046	Unknown	Unknown	Unknown
9	Orange County Employees Retirement System Contra Costa County Employees' Retirement	Information Technology Applications Developer II	\$7,203	7.2%	\$7,722	4/14/2014	Unknown	Unknown
10	Association	Information Systems Programmer Analyst	\$7,439		\$7,439	7/1/2015		
11	Contra Costa County	Information Systems Programmer Analyst III	\$7,240		\$7,240	7/1/2015	Unknown	Unknown
12	Contra Costa Water District San Bernardino County Employees Retirement	N/C						
13	Association	N/C						
PRIVA	TE SECTOR REFERENCE	Average of Comparators	\$8,246		\$8,511			
TIMA	Software Developer Applications	% CCCERA Above/Below	-10.8%		-14.4%			
Average of BLS Private	Contware Developer Applications	// GGGERR/ABOTO/BGION	-10.070		-14.470			
Sector Data	\$9,890							
% CCCERA Above/Below	-32.9%	Median of Comparators	\$8,045		\$8,344			
		% CCCERA Above/Below	-8.1%		-12.2%			
Median of BLS Private Sector	r							
Data	\$9,559							
% CCCERA Above/Below	-28.5%	Number of Matches	10		10			

Rank	Comparator Agency	Class Title		Top Monthly Salary	Cost of Labor	Adjusted Top Step Salary	Effective Date	Next Salary Increase	Next Percentage Increase
1	City/County San Francisco Retirement System San Mateo County Employees Retirement	Manager V		\$13,563		\$13,563	10/15/2015	7/1/2016	2.25% - 3.25
2	Association Alameda County Employees Retirement	Retirement Benefits Manager		\$12,366		\$12,366	10/11/2015	10/19/2016	3%
3	Association San Bernardino County Employees Retirement	Retirement Benefits Manager		\$11,903		\$11,903	Unknown	Unknown	Unknown
4	Association Sacramento County Employees Retirement	Retirement Benefits Officer		\$10,228	11.5%	\$11,404	7/2/2015	Unknown	Unknown
5	System Contra Costa County Employees' Retirement	Retirement Services Manager		\$9,593	9.8%	\$10,533	6/28/2015	6/26/2016	4% + 1%
6	Association San Diego County Employees Retirement	Retirement Services Manager		\$10,338		\$10,338	7/1/2015		
7	Association	Retirement Member Services Manager		\$9,232	9.6%	\$10,118	6/26/2015	6/24/2016	2%
8	Orange County Employees Retirement System Ventura County Employees Retirement	Member Services Manager		\$9,325	7.2%	\$9,996	4/14/2014	Unknown	Unknown
9	Association	Staff Services Manager II		\$8,578	8.3%	\$9,290	6/16/2015	Unknown	Unknown
10	Central Contra Costa Sanitary District	N/C							
11	Contra Costa County	N/C							
12	Contra Costa Water District	N/C							
13	East Bay Municipal Utility District	N/C							
		-							
PRIVAT	E SECTOR REFERENCE	· ·	ge of Comparators	\$10,599		\$11,147			
	General and Operations Managers	% CCC	ERA Above/Below	-2.5%		-7.8%			
Average of BLS Private									
Sector Data	\$11,830								
% CCCERA Above/Below	-14.4%		an of Comparators CERA Above/Below	\$9,911 4.1%		\$10,969 -6.1%			
edian of BLS Private Sector									
Data	\$10,338								
% CCCERA Above/Below	0%	N	lumber of Matches	8		8			
				8		8			

Accountant													
Agency	Contra Costa County Employees' Retirement Association	Alameda County Employees Retirement Association	Ventura County Employees Retirement Association	City/County San Francisco Retirement System	Sacramento County Employees Retirement System	Orange County Employees Retirement System	San Bernardino County Employees Retirement Association	San Diego County Employees Retirement Association	San Mateo County Employees Retirement Association	East Bay Municipal Utility District	Contra Costa Water District	Central Contra Costa Sanitary District	Contra Costa County
Class Title	Accountant	Retirement Accountant II	Accounting Officer III	Accountant II	Accountant	Accountant Auditor II	Accountant	Retirement Accountant	Retirement Accountant II	Accountant II	Senior Accountant	Accountant	Accountant II
Top Monthly Salary	\$6,825	\$7,075	\$6,509	\$6,931	\$6,366	\$6,401	\$6,173	\$6,095	\$6,691	\$7,857	\$9,459	\$8,284	\$5,652
Employee Retirement Formula ¹ PERS	2%@55	2%@60	2%@60	2%@60	2%@55	2.7%@55	2%@55 \$432	3%@60 \$274	2%@60	2%@55	2.5%@55 \$284	2%@55	2%@55
Enhanced PERS Formula 12 Month Highest Salary Social Security Other	\$92 \$423	-\$216 \$439	-\$199 \$404	-\$243 \$430	\$395	\$515	\$83	\$597 \$82 \$378	-\$204 \$415	\$53 \$487	\$468 \$128 \$586	\$112	\$76 \$350
Insurance Cafeteria Health Dental Vision EAP Life LTD STD/SDI Other	\$1,941 \$169 \$1	\$2,476 \$124 \$4	\$644	\$1,518 \$183 \$4	\$1,281 \$121 \$5 \$2	\$1,006	\$1,026 \$21	\$1,188 \$1	\$2,258 \$104 \$15 \$2 \$4 \$16	\$2,596 \$224 \$24 \$5	\$2,120 \$184 \$17 \$27 \$22	\$100 \$2,361 \$234 \$4 \$21 \$28	\$2,280 \$98 \$1
Leave Vacation Holidays Administrative	\$394 \$263 \$308	\$408 \$408	\$476 \$275	\$267 \$400	\$367 \$306	\$665 \$295	\$332	\$352 \$305	\$412 \$309	\$453 \$453	\$764 \$437 \$255	\$510 \$414 \$32	\$326 \$217
Auto Allowance Uniform Allowance													
Deferred Compensation Other			\$114				\$31			\$75	\$284	\$514	
Longevity													
Benefit Cost	\$3,591	\$3,643	\$1,713	\$2,558	\$2,477	\$2,482	\$1,925	\$3,177	\$3,331	\$4,371	\$5,576	\$4,329	\$3,349
Total Monthly Comp.	\$10,416	\$10,718	\$8,222	\$9,489	\$8,843	\$8,883	\$8,098	\$9,272	\$10,022	\$12,228	\$15,035	\$12,613	\$9,001

¹⁻ For agencies that participate in the 37 Act retirement programs the actual retirement formulas may differ. For purposes of comparison we have converted each comparator's 37 Act formula to the CalPERS formula that it most closely mirrors.

Accounting Manager													
Agency	Contra Costa County Employees' Retirement Association	Alameda County Employees Retirement Association	Ventura County Employees Retirement Association	City/County San Francisco Retirement System	Sacramento County Employees Retirement System	Orange County Employees Retirement System	San Bernardino County Employees Retirement Association	San Diego County Employees Retirement Association	San Mateo County Employees Retirement Association	East Bay Municipal Utility District	Contra Costa Water District	Central Contra Costa Sanitary District	Contra Costa County
Class Title	Accounting Manager	Fiscal Services Officer	Fiscal Manager I	Manager III	Senior Accounting Manager	Finance Manager	Accounting Manager	Retirement Services Manager	Retirement Finance Officer	N/C	Accounting Manager	Finance Manager	Chief Accountant
Top Monthly Salary	\$10,338	\$12,527	\$9,019	\$11,717	\$10,533	\$9,996	\$11,404	\$10,118	\$10,684		\$13,414	\$13,707	\$8,651
Employee Retirement Formula ¹ PERS Enhanced PERS Formula 12 Month Highest Salary Social Security Other	2%@55 \$140 \$612	2%@60 -\$382 \$612	2%@60 -\$275 \$559	2%@60 -\$410 \$726	2%@55 \$653	2.7%@55 \$805	2%@55 \$798 \$154	3%@60 \$455 \$992 \$137 \$627	2%@60 \$423 -\$326 \$612		2.5%@55 \$402 \$664 \$181 \$612	2%@55 \$185	2%@55 \$117 \$536
Insurance Cafeteria Health Dental Vision EAP Life LTD STD/SDI	\$1,941 \$169 \$7 \$62	\$2,476 \$124 \$4	\$644 \$4 \$59	\$1,692 \$177 \$4	\$1,281 \$121 \$5 \$5	\$1,006	\$1,046 \$21	\$1,250 \$6 \$17	\$2,258 \$104 \$15 \$2 \$9 \$14		\$2,120 \$184 \$17 \$39 \$32	\$425 \$2,361 \$234 \$4 \$67	\$2,280 \$98 \$7 \$51
Other Leave Vacation Holidays Administrative Auto Allowance	\$596 \$398 \$467	\$723 \$723	\$1,249 \$382	\$721 \$721 \$225	\$608 \$506	\$1,230 \$461	\$614 \$439	\$662 \$506	\$657 \$493 \$668		\$1,083 \$619 \$709 \$475	\$844 \$685 \$264	\$499 \$333 \$391
Uniform Allowance Deferred Compensation Other	\$150		\$271				\$969				\$402	\$850	\$150
Longevity													
Benefit Cost	\$4,542	\$4,279	\$2,891	\$3,857	\$3,179	\$3,503	\$4,040	\$4,651	\$4,931	N/C	\$7,541	\$5,919	\$4,463
Total Monthly Comp.	\$14,880	\$16,806	\$11,910	\$15,574	\$13,712	\$13,499	\$15,444	\$14,769	\$15,615	N/C	\$20,955	\$19,626	\$13,114

¹⁻ For agencies that participate in the 37 Act retirement programs the actual retirement formulas may differ. For purposes of comparison we have converted each comparator's 37 Act formula to the CalPERS formula that it most closely mirrors.

Administrative HR Supervisor													
Agency	Contra Costa County Employees' Retirement Association	Alameda County Employees Retirement Association	Ventura County Employees Retirement Association	City/County San Francisco Retirement System	Sacramento County Employees Retirement System	Orange County Employees Retirement System	San Bernardino County Employees Retirement Association	San Diego County Employees Retirement Association	San Mateo County Employees Retirement Association	East Bay Municipal Utility District	Contra Costa Water District	Central Contra Costa Sanitary District	Contra Costa County
Class Title	Administrative HR Supervisor	Human Resources Analyst II	Personnel Analyst II	Personnel Analyst	Senior Personnel Analyst	Administrative Manager I	Human Resources Coordinator	Human Resources Analyst	Management Analyst	Human Resources Analyst II	Human Resources Analyst II	Human Resources Analyst	Human Resources Consultant
Top Monthly Salary	\$7,899	\$8,027	\$8,345	\$7,809	\$7,957	\$9,421	\$7,986	\$7,282	\$8,786	\$8,889	\$8,895	\$9,379	\$6,684
Employee Retirement Formula ¹ PERS Enhanced PERS Formula 12 Month Highest Salary Social Security Other	2%@55 \$107 \$490	2%@60 -\$245 \$498	2%@60 -\$255 \$517	2%@60 -\$273 \$484	2%@55 \$493	2.7%@55 \$758	2%@55 \$559 \$108	3%@60 \$328 \$714 \$98 \$451	2%@60 \$348 -\$268 \$545	2%@55 \$60 \$551	2.5%@55 \$267 \$440 \$120 \$551	2%@55 \$127	2%@55 \$90 \$414
Insurance Cafeteria Health Dental Vision EAP Life LTD STD/SDI Other	\$1,941 \$169 \$1 \$1 \$47	\$2,476 \$124 \$4	\$644 \$4 \$62	\$1,518 \$183 \$4	\$1,281 \$121 \$5 \$2	\$1,006	\$1,046 \$21	\$1,250 \$4 \$8	\$2,258 \$104 \$15 \$2 \$9 \$14	\$2,596 \$224 \$24 \$5	\$2,120 \$184 \$17 \$26 \$19	\$220 \$2,361 \$234 \$4 \$31 \$32	\$2,280 \$98 \$7 \$40
Leave Vacation Holidays Administrative Auto Allowance	\$456 \$304 \$357	\$463 \$463	\$1,155 \$353	\$300 \$451	\$459 \$383	\$1,160 \$435	\$430 \$307	\$476 \$364	\$541 \$406 \$549	\$513 \$513	\$718 \$411 \$68	\$577 \$469 \$108	\$386 \$257 \$302
Uniform Allowance Deferred Compensation Other	\$150		\$250				\$679			\$ 75	\$356	\$581	\$150
Longevity Benefit Cost	\$4,021	\$3,783	\$2,731	\$2,666	\$2,744	\$3,359	\$3,149	\$3,693	\$4,523	\$4,562	\$5,298	\$4,744	\$4,024
Total Monthly Comp.	\$11,920	\$11,810	\$11,076	\$10,475	\$10,701	\$12,780	\$11,135	\$10,975	\$13,309	\$13,451	\$14,193	\$14,123	\$10,708

¹⁻ For agencies that participate in the 37 Act retirement programs the actual retirement formulas may differ. For purposes of comparison we have converted each comparator's 37 Act formula to the CalPERS formula that it most closely mirrors.

Administrative/Human Resour Agency	1												
	Contra Costa County Employees' Retirement Association	Alameda County Employees Retirement Association	Ventura County Employees Retirement Association	City/County San Francisco Retirement System	Sacramento County Employees Retirement System	Orange County Employees Retirement System	San Bernardino County Employees Retirement Association	San Diego County Employees Retirement Association	San Mateo County Employees Retirement Association	East Bay Municipal Utility District	Contra Costa Water District	Central Contra Costa Sanitary District	Contra Costa County
Class Title	Administrative/Human Resources Manager	Human Resources Officer ACERA	Program Management Analyst	Manager III	Human Resources Manager II	Administrative Manager II	N/C	Human Resources Manager	Human Resources Manager II	N/C	Human Resources Manager	Human Resources Manager	Personnel Services Supervisor
Top Monthly Salary	\$8,447	\$11,903	\$10,937	\$11,717	\$10,428	\$11,714		\$9,044	\$10,684		\$14,082	\$12,424	\$8,481
Employee Retirement Formula ¹ PERS Enhanced PERS Formula 12 Month Highest Salary Social Security Other	2%@55 \$114 \$524	2%@60 -\$363 \$612	2%@60 -\$334 \$612	2%@60 -\$410 \$612	2%@55 \$647	2.7%@55 \$943		3%@60 \$407 \$886 \$122 \$561	2%@60 \$423 -\$326 \$612		2.5%@55 \$422 \$697 \$190 \$612	2%@55 \$168	2%@55 \$114 \$526
Insurance Cafeteria Health Dental Vision EAP Life LTD STD/SDI	\$1,941 \$169 \$7 \$50	\$2,476 \$124 \$4	\$644 \$4 \$59	\$1,692 \$177 \$4	\$1,281 \$121 \$5 \$5	\$1,006		\$1,250 \$5 \$8	\$2,258 \$104 \$15 \$2 \$9 \$14		\$2,120 \$184 \$17 \$41 \$32	\$425 \$2,361 \$234 \$4 \$31	\$2,280 \$98 \$7 \$50
Other Leave Vacation Holidays Administrative Auto Allowance	\$487 \$325 \$382	\$687 \$687	\$1,514 \$463	\$721 \$721 \$225	\$602 \$501	\$1,442 \$541		\$591 \$452	\$657 \$493 \$668		\$1,137 \$650 \$745 \$475	\$765 \$621 \$239	\$489 \$326 \$383
Uniform Allowance	2.50				0 404						A 400	A ==0	0.50
Deferred Compensation Other	\$150		\$328		\$104 \$365						\$422	\$770	\$150
Longevity													
Benefit Cost	\$4,150	\$4,226	\$3,290	\$3,742	\$3,631	\$3,932	N/C	\$4,283	\$4,931	N/C	\$7,745	\$5,618	\$4,425
Total Monthly Comp.	\$12,597	\$16,129	\$14,227	\$15,459	\$14,059	\$15,646	N/C	\$13,327	\$15,615	N/C	\$21,827	\$18,042	\$12,906

¹⁻ For agencies that participate in the 37 Act retirement programs the actual retirement formulas may differ. For purposes of comparison we have converted each comparator's 37 Act formula to the CalPERS formula that it most closely mirrors.

Chief Executive Officer													
Agency	Contra Costa County Employees' Retirement Association	Alameda County Employees Retirement Association	Ventura County Employees Retirement Association	City/County San Francisco Retirement System	Sacramento County Employees Retirement System	Orange County Employees Retirement System	San Bernardino County Employees Retirement Association	San Diego County Employees Retirement Association	San Mateo County Employees Retirement Association	East Bay Municipal Utility District	Contra Costa Water District	Central Contra Costa Sanitary District	Contra Costa County
Class Title	Chief Executive Officer	Chief Executive Officer	Retirement Administrator	Department Head VI	Retirement Administrator	Chief Executive Officer	Chief Executive Officer	Retirement Chief Executive Officer	Chief Executive Officer SAMCERA	N/C	N/C	N/C	N/C
Top Monthly Salary	\$15,925	\$21,892	\$19,805	\$23,669	\$17,355	\$22,674	\$21,492	\$23,266	\$20,141				
Employee Retirement Formula ¹ PERS Enhanced PERS Formula 12 Month Highest Salary Social Security Other	2%@55 \$215 \$612	2%@60 -\$668 \$612	2%@60 -\$604 \$612	2%@60 -\$828 \$612	2%@55 \$612	2.7%@55 \$1,825	2%@55 \$1,504 \$290	3%@60 \$1,629 \$2,280 \$314 \$612	2%@60 \$798 -\$614 \$612				
Insurance Cafeteria Health Dental Vision EAP Life LTD STD/SDI Other	\$1,941 \$169 \$7 \$95	\$2,476 \$124 \$4	\$644 \$4 \$59	\$1,692 \$177 \$4	\$1,281 \$121 \$5 \$5	\$1,006	\$1,046 \$21	\$1,250 \$25 \$30	\$2,258 \$104 \$15 \$2 \$9 \$14				
Leave Vacation Holidays Administrative	\$919 \$613 \$720	\$1,263 \$1,263	\$2,742 \$838	\$1,457 \$1,457 \$1,138	\$1,001 \$834	\$2,791 \$1,046	\$1,157 \$827	\$1,790 \$1,163	\$1,239 \$930 \$1,259				
Auto Allowance Uniform Allowance			\$350					\$600					
Deferred Compensation	\$150		\$594		\$174		\$1,934						
Other	·				\$607								
Longevity													
Benefit Cost	\$5,441	\$5,074	\$5,239	\$5,708	\$4,641	\$6,669	\$6,779	\$9,693	\$6,627	N/C	N/C	N/C	N/C
Total Monthly Comp.	\$21,366	\$26,966	\$25,044	\$29,377	\$21,996	\$29,343	\$28,271	\$32,959	\$26,768	N/C	N/C	N/C	N/C

¹⁻ For agencies that participate in the 37 Act retirement programs the actual retirement formulas may differ. For purposes of comparison we have converted each comparator's 37 Act formula to the CalPERS formula that it most closely mirrors.

Communications Coordinator													
Agency	Contra Costa County Employees' Retirement Association	Alameda County Employees Retirement Association	Ventura County Employees Retirement Association	City/County San Francisco Retirement System	Sacramento County Employees Retirement System	Orange County Employees Retirement System	San Bernardino County Employees Retirement Association	San Diego County Employees Retirement Association	San Mateo County Employees Retirement Association	East Bay Municipal Utility District	Contra Costa Water District	Central Contra Costa Sanitary District	Contra Costa County
Class Title	Communications Coordinator	Communications Manager	N/C	Public Relations Officer	Communications and Media Officer III	Communications Manager	Communications Officer	Retirement Sr Communications Officer	Retirement Comm Specialist	Public Information Specialist II	N/C	N/C	Public Information Officer
Top Monthly Salary	\$8,127	\$7,070		\$8,231	\$9,230	\$9,166	\$7,986	\$7,287	\$8,493	\$8,889			\$6,336
Employee Retirement Formula ¹ PERS Enhanced PERS Formula 12 Month Highest Salary Social Security	2%@55 \$110 \$504	2%@60 -\$216 \$438		2%@60 -\$288 \$510	2%@55 \$572	2.7%@55 \$738	2%@55 \$559 \$108	3%@60 \$328 \$714 \$98 \$452	2%@60 -\$259 \$527	2%@55 \$60 \$551			2%@55 \$86 \$393
Other Insurance Cafeteria Health Dental Vision EAP Life LTD STD/SDI Other	\$1,941 \$169 \$1	\$2,476 \$124 \$4		\$1,518 \$183 \$4	\$1,281 \$121 \$5 \$5	\$1,006	\$1,046 \$21	\$1,250 \$4 \$12	\$2,258 \$104 \$15 \$2 \$4 \$16	\$2,596 \$224 \$24 \$5			\$2,280 \$98 \$7 \$38
Leave Vacation Holidays Administrative Auto Allowance	\$469 \$313 \$367	\$408 \$408		\$317 \$475	\$533 \$444	\$1,128 \$423	\$430 \$307	\$476 \$364	\$523 \$392	\$513 \$513			\$366 \$244 \$286
Uniform Allowance Deferred Compensation	\$150						\$679						\$150
Other Longevity										\$75			
Benefit Cost	\$4,023	\$3,642	N/C	\$2,718	\$2,961	\$3,295	\$3,149	\$3,700	\$3,582	\$4,562	N/C	N/C	\$3,947
Total Monthly Comp.	\$12,150	\$10,712	N/C	\$10,949	\$12,191	\$12,461	\$11,135	\$10,987	\$12,075	\$13,451	N/C	N/C	\$10,283

¹⁻ For agencies that participate in the 37 Act retirement programs the actual retirement formulas may differ. For purposes of comparison we have converted each comparator's 37 Act formula to the CalPERS formula that it most closely mirrors.

Compliance Officer													
Agency													
	Contra Costa County Employees' Retirement Association	Alameda County Employees Retirement Association	Ventura County Employees Retirement Association	City/County San Francisco Retirement System	Sacramento County Employees Retirement System	Orange County Employees Retirement System	San Bernardino County Employees Retirement Association	San Diego County Employees Retirement Association	San Mateo County Employees Retirement Association	East Bay Municipal Utility District	Contra Costa Water District	Central Contra Costa Sanitary District	Contra Costa County
Class Title	Compliance Officer	N/C	N/C	Manager VI	N/C	N/C	N/C	N/C	Manager, Corporate and HIPAA Compliance	N/C	N/C	N/C	Health Plan Dir of Compliance & Govt Regulations
Top Monthly Salary	\$10,855			\$14,571					\$10,175				\$9,537
Employee Retirement Formula ¹	2%@55			2%@60					2%@60				2%@55
PERS Enhanced PERS Formula 12 Month Highest Salary	\$147			-\$510					\$403 -\$310				\$129
Social Security Other	\$612			\$903					\$612				\$591
Insurance Cafeteria Health	\$1,941			\$1,692					\$2,258				\$2,280
Dental Vision EAP	\$169			\$177					\$104 \$15 \$2				\$98
Life LTD STD/SDI Other	\$7 \$65			\$4					\$9 \$14				\$7 \$57
Leave Vacation Holidays	\$626 \$418 \$491			\$897 \$897 \$280					\$626 \$470 \$636				\$550 \$367 \$431
Administrative Auto Allowance	\$491			\$280					Ф 030				\$431
Uniform Allowance													
Deferred Compensation	\$150												\$150
Other Longevity													
	\$4.00E	NC	N/C	64.240	N/C	N/C	N/C	N/C	£4.040	N/C	N/C	N/C	£4.000
Benefit Cost	\$4,625	NC	N/C	\$4,340	N/C	N/C	N/C	N/C	\$4,840	N/C	N/C	N/C	\$4,660
Total Monthly Comp.	\$15,480	N/C	N/C	\$18,911	N/C	N/C	N/C	N/C	\$15,015	N/C	N/C	N/C	\$14,197

¹⁻ For agencies that participate in the 37 Act retirement programs the actual retirement formulas may differ. For purposes of comparison we have converted each comparator's 37 Act formula to the CalPERS formula that it most closely mirrors.

Deputy General Counsel	w.												
Agency	Contra Costa County Employees' Retirement Association	Alameda County Employees Retirement Association	Ventura County Employees Retirement Association	City/County San Francisco Retirement System	Sacramento County Employees Retirement System	Orange County Employees Retirement System	San Bernardino County Employees Retirement Association	San Diego County Employees Retirement Association	San Mateo County Employees Retirement Association	East Bay Municipal Utility District	Contra Costa Water District	Central Contra Costa Sanitary District	Contra Costa County
Class Title	Deputy General Counsel	Associate Counsel ACERA	Senior Civil Attorney	Head Attorney Civil/Criminal	Civil Attorney Level IV Range B	Attorney III Retirement	Senior Staff Counsel	Senior Deputy County Counsel	Deputy County Counsel IV	Attorney III	N/C	N/C	Deputy County Counsel Advanced Exempt
Top Monthly Salary	Proposed	\$14,593	\$15,191	\$16,937	\$13,673	\$11,658	\$13,902	\$15,059	\$17,413	\$15,021			\$12,807
Employee Retirement Formula ¹ PERS Enhanced PERS Formula	2%@55	2%@60 -\$445	2%@60 -\$463	2%@60 -\$593	2%@55	2.7%@55 \$938	2%@55 \$973	3%@60 \$678 \$1,476	2%@60 \$690 -\$531	2%@55			2%@55
12 Month Highest Salary Social Security Other	#VALUE!	\$612	\$612	\$612	\$612	****	\$188	\$203 \$612	\$612	\$102 \$612			\$173 \$612
Insurance Cafeteria Health Dental Vision EAP Life	\$1,941 \$169	\$2,476 \$124 \$4	\$644 \$4	\$1,518 \$183 \$12	\$1,281 \$121 \$5 \$5	\$1,006	\$1,046 \$21	\$1,065 \$10	\$2,258 \$104 \$15 \$2 \$9	\$2,596 \$224 \$24 \$5			\$2,280 \$98 \$7
LTD STD/SDI Other	#VALUE!	φ4	\$59	φiz	φυ			\$30	\$14				\$76
Leave Vacation Holidays Administrative		\$842 \$842	\$2,103 \$643	\$977 \$1,042 \$326	\$789 \$657	\$1,435 \$538	\$749 \$535	\$985 \$753	\$1,072 \$804 \$1,088	\$867 \$867 \$404			\$739 \$493 \$579
Auto Allowance Uniform Allowance													
Deferred Compensation			\$456				\$1,182						\$150
Other Longevity										\$75			
Benefit Cost	N/A	\$4,454	\$4,057	\$4,077	\$3,471	\$3,918	\$4,692	\$5,812	\$6,138	\$5,776	N/C	N/C	\$5,207
Total Monthly Comp.	N/A	\$19,047	\$19,248	\$21,014	\$17,144	\$15,576	\$18,594	\$20,871	\$23,551	\$20,797	N/C	N/C	\$18,014

¹⁻ For agencies that participate in the 37 Act retirement programs the actual retirement formulas may differ. For purposes of comparison we have converted each comparator's 37 Act formula to the CalPERS formula that it most closely mirrors.

General Counsel													
Agency	Contra Costa County Employees' Retirement Association	Alameda County Employees Retirement Association	Ventura County Employees Retirement Association	City/County San Francisco Retirement System	Sacramento County Employees Retirement System	Orange County Employees Retirement System	San Bernardino County Employees Retirement Association	San Diego County Employees Retirement Association	San Mateo County Employees Retirement Association	East Bay Municipal Utility District	Contra Costa Water District	Central Contra Costa Sanitary District	Contra Costa County
Class Title	General Counsel	Chief Counsel	General Counsel Retirement	N/C	Retirement General Counsel	Chief Legal Officer	Chief Counsel	Retirement General Counsel	Retirement Chief Legal Counsel	N/C	N/C	N/C	N/C
Top Monthly Salary	\$13,736	\$17,916	\$15,151		\$13,944	\$22,369	\$20,659	\$18,633	\$19,183				
Employee Retirement Formula 1 PERS Enhanced PERS Formula 12 Month Highest Salary Social Security Other	2%@55 \$185 \$612	2%@60 -\$546 \$612	2%@60 -\$462 \$612		2%@55 \$612	2.7%@55 \$1,801	2%@55 \$1,446 \$279	3%@60 \$1,304 \$1,826 \$252 \$612	2%@60 \$760 -\$585 \$612				
Insurance Cafeteria Health Dental Vision EAP Life LTD STD/SDI Other	\$1,941 \$169 \$7 \$82	\$2,476 \$124 \$4	\$644 \$4 \$59		\$1,281 \$121 \$5 \$2	\$1,006	\$1,046 \$21	\$1,250 \$22 \$30	\$2,258 \$104 \$15 \$2 \$9 \$14				
Leave Vacation Holidays Administrative Auto Allowance	\$792 \$528 \$621	\$1,034 \$1,034	\$2,098 \$641		\$804 \$670	\$2,753 \$1,032	\$1,112 \$795	\$1,433 \$932	\$1,180 \$885 \$1,199				
Uniform Allowance Deferred Compensation Other	\$150		\$455				\$1,859						
Longevity Benefit Cost	\$5,089	\$4,737	\$4,050	N/C	\$3,496	\$6,593	\$6,558	\$7,661	\$6,455	N/C	N/C	N/C	N/C
Total Monthly Comp.	\$5,089 \$18.825	\$4,737 \$22.653	\$4,050	N/C	\$3,496	\$28.962	\$27,217	\$26.294	\$25,638	N/C	N/C	N/C	N/C

¹⁻ For agencies that participate in the 37 Act retirement programs the actual retirement formulas may differ. For purposes of comparison we have converted each comparator's 37 Act formula to the CalPERS formula that it most closely mirrors.

Information Technology Coord	linator												
Agency	Contra Costa County Employees' Retirement Association	Alameda County Employees Retirement Association	Ventura County Employees Retirement Association	City/County San Francisco Retirement System	Sacramento County Employees Retirement System	Orange County Employees Retirement System	San Bernardino County Employees Retirement Association	San Diego County Employees Retirement Association	San Mateo County Employees Retirement Association	East Bay Municipal Utility District	Contra Costa Water District	Central Contra Costa Sanitary District	Contra Costa County
Class Title	Information Technology Coordinator	Information Systems Specialist	Desktop Support Analyst II	Information Systems Administrator II	IT Customer Support Specialist	Information Systems Technician II	N/C	Retirement Technology Systems Technician	Information Technology Technician	Information Systems Specialist III	Network Desktop Support Technician I	Technical Support Analyst	Information Systems Specialist III
Top Monthly Salary	\$6,865	\$6,621	\$7,386	\$7,497	\$6,865	\$6,058		\$6,744	\$7,289	\$6,609	\$7,500	\$7,714	\$6,222
Employee Retirement Formula ¹ PERS	2%@55	2%@60	2%@60	2%@60	2%@55	2.7%@55		3%@60 \$303	2%@60	2%@55	2.5%@55 \$75	2%@55	2%@55
Enhanced PERS Formula 12 Month Highest Salary Social Security Other	\$93 \$426	-\$202 \$411	-\$225 \$458	-\$262 \$465	\$426	\$488		\$661 \$91 \$418	-\$222	\$45 \$410	\$371 \$101 \$465	\$104	\$84 \$386
Insurance Cafeteria Health Dental Vision EAP Life LTD STD/SDI	\$1,941 \$169 \$1	\$2,476 \$124 \$4	\$644	\$1,518 \$183 \$4	\$1,281 \$121 \$5 \$2	\$1,006		\$1,250 \$8 \$17	\$2,258 \$104 \$15 \$2 \$4 \$16	\$2,596 \$224 \$24 \$5	\$2,120 \$184 \$17 \$4 \$12	\$100 \$2,361 \$234 \$4 \$21 \$26	\$2,280 \$98 \$1
Other Leave Vacation Holidays Administrative	\$396 \$264	\$382 \$382	\$540 \$312	\$433 \$461	\$396 \$330	\$746 \$280		\$441 \$337	\$449 \$336	\$381 \$381	\$375 \$404	\$475 \$386 \$30	\$359 \$239
Auto Allowance Uniform Allowance													
Deferred Compensation			\$129									\$478	
Other										\$75			
Longevity													
Benefit Cost	\$3,290	\$3,576	\$1,858	\$2,801	\$2,561	\$2,519	N/C	\$3,527	\$2,962	\$4,142	\$4,128	\$4,219	\$3,447
Total Monthly Comp.	\$10,155	\$10,197	\$9,244	\$10,298	\$9,426	\$8,577	N/C	\$10,271	\$10,251	\$10,751	\$11,628	\$11,933	\$9,669

¹⁻ For agencies that participate in the 37 Act retirement programs the actual retirement formulas may differ. For purposes of comparison we have converted each comparator's 37 Act formula to the CalPERS formula that it most closely mirrors.

Information Technology Mana	ger												
Agency	Contra Costa County Employees' Retirement Association	Alameda County Employees Retirement Association	Ventura County Employees Retirement Association	City/County San Francisco Retirement System	Sacramento County Employees Retirement System	Orange County Employees Retirement System	San Bernardino County Employees Retirement Association	San Diego County Employees Retirement Association	San Mateo County Employees Retirement Association	East Bay Municipal Utility District	Contra Costa Water District	Central Contra Costa Sanitary District	Contra Costa County
Class Title	Information Technology Manager	Project and Information Services Manager	N/C	Manager VI	Information Technology Manager	Director of Information Technology	Chief of Information Services	Retirement Information Technology Services Manager	Chief Retirement Technology Officer	Information Systems Division Manager	Information Systems Manager	Information Technology Manager	Information Systems Manager II
Top Monthly Salary	\$9,919	\$11,903		\$14,571	\$11,386	\$13,204	\$16,946	\$12,479	\$12,820	\$15,400	\$14,082	\$15,510	\$10,107
Employee Retirement Formula ¹ PERS Enhanced PERS Formula 12 Month Highest Salary Social Security	2%@55 \$134 \$615	2%@60 -\$363 \$612		2%@60 -\$510 \$612	2%@55 \$612	2.7%@55 \$1,063	2%@55 \$1,186 \$229	3%@60 \$562 \$1,223 \$168 \$612	2%@60 \$508 -\$391 \$612	2%@55 \$105 \$612	2.5%@55 \$422 \$697 \$190 \$612	2%@55 \$209	2%@55 \$136 \$612
Other Insurance Cafeteria Health Dental Vision EAP Life LTD	\$1,941 \$169 \$7 \$59	\$2,476 \$124 \$4		\$1,692 \$177 \$4	\$1,281 \$121 \$5 \$5	\$1,006	\$1,046 \$21	\$1,250 \$8 \$31	\$2,258 \$104 \$15 \$2 \$9 \$14	\$2,596 \$224 \$24 \$5	\$2,120 \$184 \$17 \$41 \$32	\$425 \$2,361 \$234 \$4 \$76	\$2,280 \$98 \$1
STD/SDI Other Leave Vacation Holidays Administrative Auto Allowance	\$572 \$382 \$448	\$687 \$687		\$897 \$897 \$280	\$657 \$547	\$1,625 \$609	\$912 \$652	\$816 \$624	\$789 \$592 \$801	\$888 \$888 \$415	\$1,137 \$650 \$745 \$475	\$954 \$776 \$298	\$583 \$389
Uniform Allowance Deferred Compensation	\$150						\$1,440				\$422	\$962	
Other Longevity										\$75			
Benefit Cost	\$4,478	\$4,226	N/C	\$4,049	\$3,229	\$4,304	\$5,486	\$5,294	\$5,314	\$5,833	\$7,745	\$6,300	\$4,100
Total Monthly Comp.	\$14,397	\$16,129	N/C	\$18,620	\$14,615	\$17,508	\$22,432	\$17,773	\$18,134	\$21,233	\$21,827	\$21,810	\$14,207

¹⁻ For agencies that participate in the 37 Act retirement programs the actual retirement formulas may differ. For purposes of comparison we have converted each comparator's 37 Act formula to the CalPERS formula that it most closely mirrors.

Information Systems Program	mer Analyst												
Agency	Contra Costa County Employees' Retirement Association	Alameda County Employees Retirement Association	Ventura County Employees Retirement Association	City/County San Francisco Retirement System	Sacramento County Employees Retirement System	Orange County Employees Retirement System	San Bernardino County Employees Retirement Association	San Diego County Employees Retirement Association	San Mateo County Employees Retirement Association	East Bay Municipal Utility District	Contra Costa Water District	Central Contra Costa Sanitary District	Contra Costa County
Class Title	Information Systems Programmer Analyst	Programmer Analyst	Information Systems Analyst	Information Systems Programmer Analyst Senior	Information Technology Analyst II	Information Technology Applications Developer II	N/C	Retirement Technology Systems Specialist	Information Technology Analyst	Programmer Analyst II	N/C	Programmer Analyst	Information Systems Programmer Analyst III
Top Monthly Salary	\$7,439	\$8,046	\$8,178	\$8,701	\$8,228	\$7,722		\$8,815	\$9,197	\$8,459		\$10,521	\$7,240
Employee Retirement Formula ¹ PERS	2%@55	2%@60	2%@60	2%@60	2%@55	2.7%@55		3%@60 \$397	2%@60	2%@55		2%@55	2%@55
Enhanced PERS Formula 12 Month Highest Salary Social Security Other	\$100 \$461	-\$245 \$499	-\$249 \$507	-\$305 \$539	\$510	\$622		\$864 \$119 \$547	-\$281 \$570	\$58 \$524		\$142	\$98 \$449
Insurance Cafeteria Health Dental Vision EAP	\$1,941 \$169	\$2,476 \$124	\$644	\$1,518 \$183	\$1,281 \$121 \$5	\$1,006		\$1,250	\$2,258 \$104 \$15 \$2	\$2,596 \$224 \$24 \$5		\$100 \$2,361 \$234 \$4	\$2,280 \$98
Life LTD STD/SDI Other	\$7 \$44	\$4		\$4	\$2			\$8 \$22	\$4 \$16			\$21 \$36	\$1
Leave Vacation Holidays Administrative	\$429 \$286 \$336	\$464 \$464	\$598 \$346	\$335 \$502	\$475 \$396	\$950 \$356		\$576 \$441	\$566 \$424	\$488 \$488		\$647 \$526 \$40	\$418 \$278
Auto Allowance													
Uniform Allowance	\$150		\$143									\$652	
Deferred Compensation Other	\$150		\$143							\$75		\$63∠	
Longevity										* ·-			
Benefit Cost	\$3,925	\$3,785	\$1,988	\$2,776	\$2,790	\$2,935	N/C	\$4,223	\$3,680	\$4,482	N/C	\$4,764	\$3,622
Total Monthly Comp.	\$11,364	\$11,831	\$10,166	\$11,477	\$11,018	\$10,657	N/C	\$13,038	\$12,877	\$12,941	N/C	\$15,285	\$10,862

¹⁻ For agencies that participate in the 37 Act retirement programs the actual retirement formulas may differ. For purposes of comparison we have converted each comparator's 37 Act formula to the CalPERS formula that it most closely mirrors.

Retirement Services Manager													
Agency	Contra Costa County Employees' Retirement Association	Alameda County Employees Retirement Association	Ventura County Employees Retirement Association	City/County San Francisco Retirement System	Sacramento County Employees Retirement System	Orange County Employees Retirement System	San Bernardino County Employees Retirement Association	San Diego County Employees Retirement Association	San Mateo County Employees Retirement Association	East Bay Municipal Utility District	Contra Costa Water District	Central Contra Costa Sanitary District	Contra Costa County
Class Title	Retirement Services Manager	Retirement Benefits Manager	Staff Services Manager II	Manager V	Retirement Services Manager	Member Services Manager	Retirement Benefits Officer	Retirement Member Services Manager	Retirement Benefits Manager	N/C	N/C	N/C	N/C
Top Monthly Salary	\$10,338	\$11,903	\$9,290	\$13,563	\$10,533	\$9,996	\$11,404	\$10,118	\$12,366				
Employee Retirement Formula ¹ PERS Enhanced PERS Formula	2%@55	2%@60 -\$363	2%@60 -\$283	2%@60 -\$475	2%@55	2.7%@55 \$805	2%@55 \$798	3%@60 \$455 \$992	2%@60 \$490 -\$377				
12 Month Highest Salary Social Security Other	\$140 \$612	\$612	\$576	\$612	\$653		\$154	\$137 \$627	\$612				
Insurance Cafeteria Health Dental Vision EAP Life LTD STD/SDI Other	\$1,941 \$169 \$7 \$62	\$2,476 \$124 \$4	\$644 \$4 \$59	\$1,692 \$177 \$4	\$1,281 \$121 \$5 \$5	\$1,006	\$1,046 \$21	\$1,250 \$6 \$17	\$2,258 \$104 \$15 \$2 \$9 \$14				
Leave Vacation Holidays Administrative	\$596 \$398 \$467	\$687 \$687	\$1,286 \$393	\$835 \$835	\$608 \$506	\$1,230 \$461	\$614 \$439	\$662 \$506	\$761 \$571 \$773				
Auto Allowance Uniform Allowance													
Deferred Compensation	\$150		\$163				\$969						
Other Longevity													
Benefit Cost	\$4,542	\$4,226	\$2,841	\$3,680	\$3,179	\$3,503	\$4,040	\$4,651	\$5,233	N/C	N/C	N/C	N/C
Total Monthly Comp.	\$14,880	\$16,129	\$12,131	\$17,243	\$13,712	\$13,499	\$15,444	\$14,769	\$17,599	N/C	N/C	N/C	N/C

¹⁻ For agencies that participate in the 37 Act retirement programs the actual retirement formulas may differ. For purposes of comparison we have converted each comparator's 37 Act formula to the CalPERS formula that it most closely mirrors.

			Total
			Monthly
Rank	Comparator Agency	Class Title	Comp
1	Contra Costa Water District	Senior Accountant	\$15,035
2	Central Contra Costa Sanitary District	Accountant	\$12,613
3	East Bay Municipal Utility District	Accountant II	\$12,228
4	Alameda County Employees Retirement Association	Retirement Accountant II	\$10,718
5	Contra Costa County Employees' Retirement Association	Accountant	\$10,416
6	San Mateo County Employees Retirement Association	Retirement Accountant II	\$10,022
7	City/County San Francisco Retirement System	Accountant II	\$9,489
8	San Diego County Employees Retirement Association	Retirement Accountant	\$9,272
9	Contra Costa County	Accountant II	\$9,001
10	Orange County Employees Retirement System	Accountant Auditor II	\$8,883
11	Sacramento County Employees Retirement System	Accountant	\$8,843
12	Ventura County Employees Retirement Association	Accounting Officer III	\$8,222
13	San Bernardino County Employees Retirement Association	Accountant	\$8,098
		Average of Comparators % CCCERA Above/Below	\$10,202 2.1%
		Median of Comparators % CCCERA Above/Below	\$9,380 9.9%
		Number of Matches	12

⁻ Non Comparator

			Total Monthly
Rank	Comparator Agency	Class Title	Comp
1	Contra Costa Water District	Accounting Manager	\$20,955
2	Central Contra Costa Sanitary District	Finance Manager	\$19,626
3	Alameda County Employees Retirement Association	Fiscal Services Officer	\$16,806
4	San Mateo County Employees Retirement Association	Retirement Finance Officer	\$15,615
5	City/County San Francisco Retirement System	Manager III	\$15,574
6	San Bernardino County Employees Retirement Association	Accounting Manager	\$15,444
7	Contra Costa County Employees' Retirement Association	Accounting Manager	\$14,880
8	San Diego County Employees Retirement Association	Retirement Services Manager	\$14,769
9	Sacramento County Employees Retirement System	Senior Accounting Manager	\$13,712
10	Orange County Employees Retirement System	Finance Manager	\$13,499
11	Contra Costa County	Chief Accountant	\$13,114
12	Ventura County Employees Retirement Association	Fiscal Manager I	\$11,910
13	East Bay Municipal Utility District	N/C	
		Average of Comparators % CCCERA Above/Below	\$15,548 -4.5%
		Median of Comparators % CCCERA Above/Below	\$15,444 -3.8%
		Number of Matches	11

⁻ Non Comparator

Rank	Comparator Agency	Class Title	Total Monthly Comp
Kalik	Comparator Agency	Olass Title	СОПР
1	Contra Costa Water District	Human Resources Analyst II	\$14,193
2	Central Contra Costa Sanitary District	Human Resources Analyst	\$14,123
3	East Bay Municipal Utility District	Human Resources Analyst II	\$13,451
4	San Mateo County Employees Retirement Association	Management Analyst	\$13,309
5	Orange County Employees Retirement System	Administrative Manager I	\$12,780
6	Contra Costa County Employees' Retirement Association	Administrative HR Supervisor	\$11,920
7	Alameda County Employees Retirement Association	Human Resources Analyst II	\$11,810
8	San Bernardino County Employees Retirement Association	Human Resources Coordinator	\$11,135
9	Ventura County Employees Retirement Association	Personnel Analyst II	\$11,076
10	San Diego County Employees Retirement Association	Human Resources Analyst	\$10,975
11	Contra Costa County	Human Resources Consultant	\$10,708
12	Sacramento County Employees Retirement System	Senior Personnel Analyst	\$10,701
13	City/County San Francisco Retirement System	Personnel Analyst	\$10,475
		Average of Comparators % CCCERA Above/Below	\$12,061 -1.2%
		Median of Comparators	\$11,472
		% CCCERA Above/Below	3.8%
		Number of Matches	12

⁻ Non Comparator

Rank	Comparator Agency	Class Title	Total Monthly Comp
4	Out of Out Water Birtin		004.007
1	Contra Costa Water District	Human Resources Manager	\$21,827
2	Central Contra Costa Sanitary District	Human Resources Manager	\$18,042
3	Alameda County Employees Retirement Association	Human Resources Officer ACERA	\$16,129
4	Orange County Employees Retirement System	Administrative Manager II	\$15,646
5	San Mateo County Employees Retirement Association	Human Resources Manager II	\$15,615
6	City/County San Francisco Retirement System	Manager III	\$15,459
7	Ventura County Employees Retirement Association	Program Management Analyst	\$14,227
8	Sacramento County Employees Retirement System	Human Resources Manager II	\$14,059
9	San Diego County Employees Retirement Association	Human Resources Manager	\$13,327
10	Contra Costa County	Personnel Services Supervisor	\$12,906
11	Contra Costa County Employees' Retirement Association	Administrative/Human Resources Manager	\$12,597
12	San Bernardino County Employees Retirement Association	N/C	
13	East Bay Municipal Utility District	N/C	
		Average of Comparators	\$15,724
		% CCCERA Above/Below	-24.8%
		Median of Comparators	\$15,537
		% CCCERA Above/Below	-23.3%
		Number of Matches	10

⁻ Non Comparator

Rank	Comparator Agency	Class Title	Total Monthly Comp
_			
1	San Diego County Employees Retirement Association	Retirement Chief Executive Officer	\$32,959
2	City/County San Francisco Retirement System	Department Head VI	\$29,377
3	Orange County Employees Retirement System	Chief Executive Officer	\$29,343
4	San Bernardino County Employees Retirement Association	Chief Executive Officer	\$28,271
5	Alameda County Employees Retirement Association	Chief Executive Officer	\$26,966
6	San Mateo County Employees Retirement Association	Chief Executive Officer SAMCERA	\$26,768
7	Ventura County Employees Retirement Association	Retirement Administrator	\$25,044
8	Sacramento County Employees Retirement System	Retirement Administrator	\$21,996
9	Contra Costa County Employees' Retirement Association	Chief Executive Officer	\$21,366
10	East Bay Municipal Utility District	N/C	
11	Contra Costa Water District	N/C	
12	Central Contra Costa Sanitary District	N/C	
13	Contra Costa County	N/C	
		Average of Comparators % CCCERA Above/Below	\$27,590 -29.1%
		Median of Comparators	\$27,618
		Median of Comparators	
		% CCCERA Above/Below	-29.3%

⁻ Non Comparator

Rank	Comparator Agency	Class Title	Total Monthly Comp
Rank	Tomparator Agonoy	Class Tills	Comp
1	East Bay Municipal Utility District	Public Information Specialist II	\$13,451
2	Orange County Employees Retirement System	Communications Manager	\$12,461
3	Sacramento County Employees Retirement System	Communications and Media Officer III	\$12,191
4	Contra Costa County Employees' Retirement Association	Communications Coordinator	\$12,150
5	San Mateo County Employees Retirement Association	Retirement Comm Specialist	\$12,075
6	San Bernardino County Employees Retirement Association	Communications Officer	\$11,135
7	San Diego County Employees Retirement Association	Retirement Sr Communications Officer	\$10,987
8	City/County San Francisco Retirement System	Public Relations Officer	\$10,949
9	Alameda County Employees Retirement Association	Communications Manager	\$10,712
10	Contra Costa County	Public Information Officer	\$10,283
11	Ventura County Employees Retirement Association	N/C	. ,
12	Contra Costa Water District	N/C	
13	Central Contra Costa Sanitary District	N/C	
		Average of Comparators % CCCERA Above/Below	\$11,583 4.7%
		Median of Comparators % CCCERA Above/Below	\$11,135 8.4%
		Number of Matches	9

⁻ Non Comparator

Dawl	Commonator Aronov	Class Title	Total Monthly
Rank	Comparator Agency	Class Title	Comp
1	City/County San Francisco Retirement System	Manager VI	\$18,911
2	Contra Costa County Employees' Retirement Association	Compliance Officer	\$15,480
3	San Mateo County Employees Retirement Association	Manager, Corporate and HIPAA Compliance	\$15,015
4	Contra Costa County	Health Plan Dir of Compliance & Govt Regulation	\$14,197
5	Alameda County Employees Retirement Association	N/C	
6	Ventura County Employees Retirement Association	N/C	
7	Sacramento County Employees Retirement System	N/C	
8	Orange County Employees Retirement System	N/C	
9	San Bernardino County Employees Retirement Association	N/C	
10	San Diego County Employees Retirement Association	N/C	
11	East Bay Municipal Utility District	N/C	
12	Contra Costa Water District	N/C	
13	Central Contra Costa Sanitary District	N/C	
		Average of Comparators % CCCERA Above/Below	Insufficient Data Insufficient Data
		Median of Comparators	Insufficient Data
		% CCCERA Above/Below	Insufficient Data
		Number of Matches	3
NOTE:	All calculations exclude CCCERA		

⁻ Non Comparator

Rank	Comparator Agency	Class Title	Total Monthly Comp
	- Comparator Agono,	Cidos Filio	
1	Contra Costa County Employees' Retirement Association	Deputy General Counsel	Proposed
2	San Mateo County Employees Retirement Association	Deputy County Counsel IV	\$23,551
3	City/County San Francisco Retirement System	Head Attorney Civil/Criminal	\$21,014
4	San Diego County Employees Retirement Association	Senior Deputy County Counsel	\$20,871
5	East Bay Municipal Utility District	Attorney III	\$20,797
6	Ventura County Employees Retirement Association	Senior Civil Attorney	\$19,248
7	Alameda County Employees Retirement Association	Associate Counsel ACERA	\$19,047
8	San Bernardino County Employees Retirement Association	Senior Staff Counsel	\$18,594
9	Contra Costa County	Deputy County Counsel Advanced Exempt	\$18,014
10	Sacramento County Employees Retirement System	Civil Attorney Level IV Range B	\$17,144
11	Orange County Employees Retirement System	Attorney III Retirement	\$15,576
12	Contra Costa Water District	N/C	
13	Central Contra Costa Sanitary District	N/C	
		Average of Comparators % CCCERA Above/Below	\$19,386
		Median of Comparators % CCCERA Above/Below	\$19,148
		Number of Matches	10

⁻ Non Comparator

county Employees Retirement System ardino County Employees Retirement Association to County Employees Retirement Association to County Employees Retirement Association County Employees Retirement Association	Class Title Chief Legal Officer Chief Counsel Retirement General Counsel Retirement Chief Legal Counsel	\$28,962 \$27,217
ardino County Employees Retirement Association o County Employees Retirement Association o County Employees Retirement Association County Employees Retirement Association	Chief Counsel Retirement General Counsel	\$27,217
ardino County Employees Retirement Association o County Employees Retirement Association o County Employees Retirement Association County Employees Retirement Association	Chief Counsel Retirement General Counsel	\$27,217
o County Employees Retirement Association o County Employees Retirement Association County Employees Retirement Association		
o County Employees Retirement Association County Employees Retirement Association	Retirement Chief Legal Counsel	\$26,294
County Employees Retirement Association		\$25,638
	Chief Counsel	\$22,653
County Employees Retirement Association	General Counsel Retirement	\$19,201
osta County Employees' Retirement Association	General Counsel	\$18,825
nto County Employees Retirement System	Retirement General Counsel	\$17,440
ty San Francisco Retirement System	N/C	. ,
Municipal Utility District	N/C	
osta Water District	N/C	
ontra Costa Sanitary District	N/C	
osta County	N/C	
	Average of Comparators % CCCERA Above/Below	\$23,915 -27.0%
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	Median of Comparators	\$25,638
	% CCCERA Above/Below	-36.2%
	Number of Matches	7

⁻ Non Comparator

			Total Monthly
Rank	Comparator Agency	Class Title	Comp
1	Central Contra Costa Sanitary District	Technical Support Analyst	\$11,933
2	Contra Costa Water District	Network Desktop Support Technician I	\$11.628
3	East Bay Municipal Utility District	Information Systems Specialist III	\$10,751
4	City/County San Francisco Retirement System	Information Systems Administrator II	\$10,298
5	San Diego County Employees Retirement Association	Retirement Technology Systems Technician	\$10,271
6	San Mateo County Employees Retirement Association	Information Technology Technician	\$10,251
7	Alameda County Employees Retirement Association	Information Systems Specialist	\$10,197
8	Contra Costa County Employees' Retirement Association	Information Technology Coordinator	\$10,155
9	Contra Costa County	Information Systems Specialist III	\$9,669
10	Sacramento County Employees Retirement System	IT Customer Support Specialist	\$9,426
11	Ventura County Employees Retirement Association	Desktop Support Analyst II	\$9,244
12	Orange County Employees Retirement System	Information Systems Technician II	\$8,577
13	San Bernardino County Employees Retirement Association	N/C	
		Average of Comparators % CCCERA Above/Below	\$10,204 -0.5%
		Median of Comparators % CCCERA Above/Below	\$10,251 -0.9%
		Number of Matches	11

⁻ Non Comparator

			Total Monthly
Rank	Comparator Agency	Class Title	Comp
1	San Bernardino County Employees Retirement Association	Chief of Information Services	\$22,432
2	Contra Costa Water District	Information Systems Manager	\$21,827
3	Central Contra Costa Sanitary District	Information Technology Manager	\$21,810
4	East Bay Municipal Utility District	Information Systems Division Manager	\$21,233
5	City/County San Francisco Retirement System	Manager VI	\$18,620
6	San Mateo County Employees Retirement Association	Chief Retirement Technology Officer	\$18,134
7	San Diego County Employees Retirement Association	Retirement Information Technology Services Manager	\$17,773
8	Orange County Employees Retirement System	Director of Information Technology	\$17,508
9	Alameda County Employees Retirement Association	Project and Information Services Manager	\$16,129
10	Sacramento County Employees Retirement System	Information Technology Manager	\$14,615
11	Contra Costa County Employees' Retirement Association	Information Technology Manager	\$14,397
12	Contra Costa County	Information Systems Manager II	\$14,207
13	Ventura County Employees Retirement Association	N/C	
		Average of Comparators % CCCERA Above/Below	\$18,572 -29.0%
		,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	_0.070
		Median of Comparators	\$18,134
		% CCCERA Above/Below	-26.0%
		Number of Matches	11

⁻ Non Comparator

Dank	Comparator Agency	Class Title	Total Monthly Comp
INAIIN	Comparator Agency	Class Title	Comp
1	Central Contra Costa Sanitary District	Programmer Analyst	\$15,285
2	San Diego County Employees Retirement Association	Retirement Technology Systems Specialist	\$13,038
3	East Bay Municipal Utility District	Programmer Analyst II	\$12,941
4	San Mateo County Employees Retirement Association	Information Technology Analyst	\$12,877
5	Alameda County Employees Retirement Association	Programmer Analyst	\$11,831
6	City/County San Francisco Retirement System	Information Systems Programmer Analyst Senior	\$11,477
7	Contra Costa County Employees' Retirement Association	Information Systems Programmer Analyst	\$11,364
8	Sacramento County Employees Retirement System	Information Technology Analyst II	\$11,018
9	Contra Costa County	Information Systems Programmer Analyst III	\$10,862
10	Orange County Employees Retirement System	Information Technology Applications Developer II	\$10,657
11	Ventura County Employees Retirement Association	Information Systems Analyst	\$10,166
12	San Bernardino County Employees Retirement Association	N/C	
13	Contra Costa Water District	N/C	
		Average of Comparators % CCCERA Above/Below	\$12,015 -5.7%
		Median of Comparators % CCCERA Above/Below	\$11,654 -2.6%
		Number of Matches	10

⁻ Non Comparator

Rank	Comparator Agency	Class Title	Total Monthly Comp
Italiit	- Comparator Agonoy		Comp
1	San Mateo County Employees Retirement Association	Retirement Benefits Manager	\$17,599
2	City/County San Francisco Retirement System	Manager V	\$17,243
3	Alameda County Employees Retirement Association	Retirement Benefits Manager	\$16,129
4	San Bernardino County Employees Retirement Association	Retirement Benefits Officer	\$15,444
5	Contra Costa County Employees' Retirement Association	Retirement Services Manager	\$14,880
6	San Diego County Employees Retirement Association	Retirement Member Services Manager	\$14,769
7	Sacramento County Employees Retirement System	Retirement Services Manager	\$13,712
8	Orange County Employees Retirement System	Member Services Manager	\$13,499
9	Ventura County Employees Retirement Association	Staff Services Manager II	\$12,131
10	East Bay Municipal Utility District	N/C	
11	Contra Costa Water District	N/C	
12	Central Contra Costa Sanitary District	N/C	
13	Contra Costa County	N/C	
		Average of Comparators % CCCERA Above/Below	\$15,066 -1.2%
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
		Median of Comparators	\$15,107
		% CCCERA Above/Below	-1.5%
		Number of Matches	8

⁻ Non Comparator



Final Report – Classification and Compensation Study

Contra Costa County Employees' Retirement Association – Unrepresented Classifications

Appendix III Proposed Monthly Salary Plan

Appendix III Contra Costa County Employee's Retirement Association Salary Schedule November 2015

	Salary Range #			y Salary						y Range	
2											Step 5
3 335 3844 3721 3907 4102 4158 1636 1717 1803 1893 19 5 3544 3721 3907 4102 4307 1636 1717 1803 1893 19 6 3630 3812 4002 4202 4413 1675 1759 1847 1940 207 7 3721 3907 4102 4307 4523 1717 1803 1893 1988 1988 1988 1988 1988 2087 211 4002 4202 4413 4633 4865 1897 1940 2037 2138 2245 231 11 4402 4907 4823 4749 4986 5308 1988 2087 2192 2301 244 244 4863 3486 5108 5368 1988 2087 2192 2301 247 2492 2301 247 252 238 148 478 4896											1803
4 3457 3600 3812 4002 4202 1596 1675 1759 1847 1907 5 3544 3721 3907 4102 4307 1636 1717 1803 1893 1908 7 3721 3907 4102 4307 4523 4715 1803 1893 1908 2007 721 9 3907 4102 4307 4523 4749 4986 1803 1893 1988 2037 2138 224 10 4002 4202 4413 4633 4865 5108 1898 2087 2192 2301 241 11 4102 4307 4523 4749 4986 5236 5108 1898 2087 2192 2301 241 241 241 245 238 241 241 253 474 4986 5236 5498 5772 207 2112 2301 2417 252											1847
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6 3930 3812 4002 4402 4413 1 1675 1759 1847 1940 202 8 3812 4002 4020 4413 4633 1759 1847 1940 2037 212 9 3907 4102 4307 4523 4749 4986 1887 1940 2037 213 2245 11 4102 4307 4523 4749 4986 1893 1988 2087 2132 2245 233 12 4402 4413 4633 4885 5108 5036 1988 2087 2192 2301 2417 2535 1414 4413 4633 4885 5108 5363 5632 913 2024 2192 2301 2417 2537 264 2475 2557 264 277 201 2417 2537 264 277 291 494 382 2475 2537 264 277 291											1988
7 3721 3907 4102 4907 4523 1717 1803 1898 2037 211 9 3907 4102 4307 4523 4749 1803 1893 1988 2087 211 10 4002 4202 4413 4633 4865 1608 1893 1988 2087 212 23 11 4002 4307 4523 4749 4986 1893 1988 2087 212 231 12 4202 4413 4633 4865 5108 5363 2037 2182 2245 238 15 4523 4749 4986 5236 5498 5772 2192 2301 2417 2537 262 241 2478 4898 5723 661 4865 5108 5363 5632 5913 229 230 2475 2599 2772 2661 18 4865 5108 5363 56											2037
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11											2192
12											2245
13											2358
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18	16	4633	4865	5108	5363	5632	2138	2245	2358	2475	2599
19											2664
20 5108 5363 5632 5913 6209 2358 2475 2599 2729 28 21 5236 6498 5772 6061 6364 6682 2619 2275 2664 2797 293 248 5632 5913 6209 6519 6845 2539 2729 2866 3009 31 26 5913 6209 6519 6845 7188 6272 266 5913 6209 6519 6845 7188 2729 2866 3009 315 33 27 6061 6364 6682 7016 7367 7736 2937 3084 3238 340 353 3619 6845 7188 7547 7924 3321 3669 6845 7188 7547 7924 3321 348 3400 3570 373 325 366 6845 7188 7547 7924 8321 8737 313 366 340											2729
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30 6519 6845 7188 7547 7924 8122 3084 3238 3400 3570 3749 3840 358 7547 7924 8321 8737 3159 3317 3483 3667 384 3238 3400 3570 3749 393 315 3483 3667 3840 3570 3749 393 315 3483 3667 3840 3570 3749 393 315 3483 3667 3840 3570 3749 393 315 3483 3667 3840 3570 3749 393 315 3483 3667 3840 3570 3749 393 315 3483 3667 3840 3570 3749 393 315 3483 3667 3840 3667 3667 3667 3667 3667 3667 3667 366											
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32 6845 7188 7547 7924 8321 3159 3317 3483 3657 38 33 7016 7367 7724 8321 8737 3317 3483 3657 3749 393 35 7367 7736 8122 8529 8955 3400 3570 3749 3936 413 36 7547 7924 8321 8737 9173 3632 3657 3840 4032 422 37 7736 8122 8529 8955 9403 3570 3749 3936 4133 3434 4032 422 39 8122 8529 8955 9403 9873 3657 3840 4032 4234 4446 466 4032 4234 4446 466 466 46737 9173 9632 10114 10619 11150 4032 4234 4446 4688 4901 5146 4688 4901 514											3749
34 7188 7547 7924 8321 8737 3317 3483 3657 3840 403 35 366 7547 7924 8321 8737 9173 3483 3657 3840 4032 422 3483 3657 3840 4032 422 4133 3483 3657 3840 4032 422 422 8529 8955 9403 3873 9173 9632 10114 3657 3840 4032 4234 446 4632 4234 446 4632 4234 446 4632 4234 446 4632 4234 4446 466 466 4446 4668 4901 4557 4785 502 4557 4785 502 4557 4785 502 4557 4785 502 4557 4785 502 4557 4785 502 4557 4785 502 4557 4785 502 4557 4785 502 502 502 502											3840
34 7188 7547 7924 8321 8737 3317 3483 3657 3840 403 36 7547 7924 8321 8737 9173 3483 3657 3490 3570 3749 3936 413 438 3677 3480 4032 422 4323 8737 9173 9632 3657 3840 4032 4234 44 433 3857 3840 4032 4234 44 433 4340 453 4340 4323 4340 453 434 43446 466 466 466 466 466 4673 498 499 498 498 10114 10619 11150 11708 4446 4668 4901 516 5024 550 4446 4668 4901 516 547 4446 4668 4901 516 547 553 11141 10619 11150 11708 4446 4668 4901 516 547 </th <th>33</th> <th>7016</th> <th>7367</th> <th>7736</th> <th>8122</th> <th>8529</th> <th>3238</th> <th>3400</th> <th>3570</th> <th>3749</th> <th>3936</th>	33	7016	7367	7736	8122	8529	3238	3400	3570	3749	3936
36 7547 7924 8321 8737 9173 3483 3657 3840 4032 422 37 7736 8122 8529 8955 9403 3570 3749 3936 4133 433 38 8122 8529 8955 9403 3657 3840 4032 4234 444 40 8321 8737 9173 9632 10114 3840 4032 4234 446 466 41 8529 8955 9403 9873 10366 3936 4133 4340 4557 476 42 8737 9173 9632 10114 10619 41150 4234 4446 4668 491 43 8955 9403 9873 10366 10885 11429 4032 4234 4446 4668 491 517 48 9632 10114 10619 11150 11708 42234 444 4668 4901 <th>34</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>4032</th>	34										4032
37 7736 8122 8529 8955 9403 3570 3749 3936 4133 43 38 7924 8321 8737 9173 9632 3657 3840 4032 4234 44 39 8122 8529 8955 9403 9873 3749 3936 4133 4340 453 40 8321 8737 9173 9632 10114 3840 4032 4234 4446 466 42 8737 9173 9632 10114 10619 4032 4234 4446 466 49632 10114 10619 11150 4234 4446 4668 4901 51 45 9403 9873 10366 10885 11429 12000 4557 4785 5024 527 4785 5024 4557 4785 5024 527 48 10114 10619 11150 11708 12293 4446 4668 4											4133
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42 8737 9173 9632 10114 10619 4032 4234 4446 4668 494 43 8955 9403 9873 10366 10885 4133 4340 4557 4785 50 45 9403 9873 10366 10885 11429 4340 4557 4785 502 46 9632 10114 10619 11150 11708 4446 4668 4901 5146 544 47 9873 10366 10885 11429 12000 4557 4785 5024 5275 553 48 10114 10619 11150 11708 12293 4668 4901 5146 5404 567 49 10366 10885 11429 12000 12601 13231 4901 5146 5404 567 555 553 58 50 10619 11150 11708 12293 12908 13553 5146	41	8529	8955	9403	9873	10366	3936	4133	4340	4557	4785
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Final Report – Classification and Compensation Study

Contra Costa County Employees' Retirement Association – Unrepresented Classifications

Appendix IV

Proposed Salary Range Placement

Volume II Appendix IV Contra Costa County Employees' Retirement Association Proposed Range Place Recommendations - Unrepresented November 2015

Class Title	Maximum Monthly Salary	Total Comp Median	Market Placement	Proposed Salary Range	Maximum Monthly Salary	Percent Difference	Rationale
Chief Executive Officer	\$15,925	-29.3%	\$20,591	N/A	N/A	N/A	N/A Separately negotiated.
Deputy Chief Executive Officer	\$12,933			61	\$16,886	30.6%	Internal Alignment: 20% below Chief Executive Officer
General Counsel	\$13,736	-36.2%	\$18,708	65	\$18,617	35.5%	Market and range placement
Deputy General Counsel	Proposed	N/A	\$14,807	56	\$14,942		Market and range placement
Compliance Officer	\$10,855	N/A	N/A	43	\$10,885	0.3%	Internal Alignment: 5% above the Retirement Services Manager
Retirement Services Manager	\$10,338	-1.5%	\$10,493	41	\$10,366	0.3%	Market and range placement
Retirement Services Supervisor	\$7,897			30	\$7,924	0.3%	Internal Alignment: 27.5% below the Retirement Services Manager
Member Services Manager	\$10,338			41	\$10,366	0.3%	Internal Alignment: align with Retirement Services Manager
Member Services Supervisor	\$7,897			30	\$7,924	0.3%	Internal Alignment: 27.5% below the Retirement Services Manager
Accounting Manager	\$10,338	-3.8%	\$10,730	42	\$10,619	2.7%	Market and range placement
Accounting Supervisor	\$7,663			30	\$7,924	3.4%	20% above Accountant
Accountant	\$6,825	9.9%	\$6,149	20	\$6,209	-9.0%	Market and range placement: Y-rate
Administration/Human Resources Manager	\$8,447	-23.3%	\$10,415	41	\$10,366	22.7%	Market and range placement.
Administration/Human Resources Supervisor	\$7,899	3.8%	\$7,599	30	\$7,924	0.3%	Market and internal alignment: Set 10% above market to accommodate supervisory responsibilities
Communications Coordinator	\$8,127	8.4%	\$7,444	27	\$7,367	-9.4%	Market and range placement: Yrate
Information Technology Manager	\$9,919	-26.0%	\$12,498	49	\$12,601	27.0%	Market and range placement
Information Systems Programmer Analyst	\$7,439	-2.6%	\$7,632	28	\$7,547	1.5%	Market and range placement
Information Technology Coordinator	\$6,865	-0.9%	\$6,927	24	\$6,845	-0.3%	Market and range placement: Y-rate



Final Report – Classification and Compensation Study

Contra Costa County Employees' Retirement Association – Unrepresented Classifications

Appendix V

Bureau of Labor Statistics Definitions and Methodology



Private Sector Data – Classification and Compensation Study

Contra Costa County Employees' Retirement Association – Unrepresented Classifications

Data Source and Criteria Refinement

The private sector data was obtained from the Bureau of Labor-Occupational Employment Statistics. The data was obtained from the Occupational Employment and Wage Estimates database. The selection criteria utilized the occupational data for the San Francisco-Oakland-Fremont metropolitan area, to most closely replicate the Association's labor market.

Private Sector data is provided for eleven (11) of the Association's unrepresented benchmark classes. For the remaining two (2) classifications no private sector data was available. The table below details the classes for which there was private sector data.

Association Benchmark	BLS Comparator Occupation
Accountant	Accountants and Auditors
Accounting Manager	Financial Managers
Administrative HR Manager	Human Resources Manager
Administrative HR Supervisor	Human Resources Specialist
Chief Executive Officer	Chief Executives
Communications Coordinator	Public Relations Specialist
Deputy General Counsel	Lawyers
Information Technology Coordinator	Computer Network Support Specialist
	Computer and Information Systems
Information Technology Manager	Manager
Information Systems Programmer	
Analyst	Software Developer Applications
Retirement Services Manager	General and Operations Managers

Attached for your review, are the BLS occupation definitions.

In general, there are challenges in comparing Private and Public Sector compensation data. Public Sector agencies often have structured compensation plans with well-defined class descriptions. Private entities, particularly those of a similar size to the Association, do not need to have the same transparency and



Private Sector Data – Classification and Compensation Study

Contra Costa County Employees' Retirement Association – Unrepresented Classifications

often do not have job descriptions nor strong compensation structure, making it difficult to ensure that the matches are 70% similar. It is also difficult to get industry specific data from the private sector making the use of very general salary surveys or data the primary source of comparison. Additionally, there are not always comparable positions with which to match the public sector to the private sector.

At the same time, it is very common for constituents to request that governing bodies draw a comparison to the private sector when undertaking compensation surveys. Accordingly, we provided private sector data for the Board to use for comparative purposes.



Private Sector Data- Classification and Compensation Study

Contra Costa County Employees' Retirement Association – Unrepresented Classifications

OES		
Code	BLS Comparator	Comparator Descriptor
13-2011	Accountants and Auditors	Examine, analyze, and interpret accounting records to prepare financial statements, give advice, or audit and evaluate statements prepared by others. Install or advise on systems of recording costs or other financial and budgetary data. Excludes "Tax Examiners and Collectors, and Revenue Agents" (13-2081).
11-3031	Financial Managers	Plan, direct, or coordinate accounting, investing, banking, insurance, securities, and other financial activities of a branch, office, or department of an establishment.
11-1021	General and Operations Managers	Plan, direct, or coordinate the operations of public or private sector organizations. Duties and responsibilities include formulating policies, managing daily operations, and planning the use of materials and human resources, but are too diverse and general in nature to be classified in any one functional area of management or administration, such as personnel, purchasing, or administrative services. Excludes First-Line Supervisors.
11-1011	Chief Executives	Determine and formulate policies and provide overall direction of companies or private and public sector organizations within guidelines set up by a board of directors or similar governing body. Plan, direct, or coordinate operational activities at the highest level of management with the help of subordinate executives and staff managers.
27-3031	Public Relations Specialist	Engage in promoting or creating an intended public image for individuals, groups, or organizations. May write or select material for release to various communications media.
23-1011	Lawyers	Represent clients in criminal and civil litigation and other legal proceedings, draw up legal documents, or manage or advise clients on legal transactions. May specialize in a single area or may practice broadly in many areas of law.
13-1071	Human Resources Specialist	Perform activities in the human resource area. Includes employment specialists who screen, recruit, interview, and place workers. Excludes "Compensation, Benefits, and Job Analysis Specialists" (13-1141) and "Training and Development Specialists" (13-1151).



Private Sector Data- Classification and Compensation Study

Contra Costa County Employees' Retirement Association – Unrepresented Classifications

OES Code	BLS Comparator	Comparator Descriptor
11-3121	Human Resources Manager	Plan, direct, or coordinate human resources activities and staff of an organization. Excludes managers who primarily focus on compensation and benefits (11-3111) and training and development (11-3131).
11-3021	Computer and Information Systems Manager	Plan, direct, or coordinate activities in such fields as electronic data processing, information systems, systems analysis, and computer programming. Excludes "Computer Occupations" (15-1111 through 15-1199).
15-1152	Computer Network Support Specialist	Analyze, test, troubleshoot, and evaluate existing network systems, such as local area network (LAN), wide area network (WAN), and Internet systems or a segment of a network system. Perform network maintenance to ensure networks operate correctly with minimal interruption. Excludes "Network and Computer Systems Administrators" (15-1142) and "Computer Network Architects" (15-1143).
15-1132	Software Developer Applications	Develop, create, and modify general computer applications software or specialized utility programs. Analyze user needs and develop software solutions. Design software or customize software for client use with the aim of optimizing operational efficiency. May analyze and design databases within an application area, working individually or coordinating database development as part of a team. May supervise computer programmers.



MEMORANDUM

Date: December 2, 2015

To: CCCERA Board of Retirement

From: Gail Strohl, Retirement Chief Executive Officer

Subject: Consider and take possible action to adopt Koff and Associates recommended

classification and salary adjustments, effective January 1, 2016.

On January 1, 2015, CCCERA became an independent employer. An employer is tasked with conducting the activities of the organization in a manner consistent with its mission. The effective administration of a \$7 billion public pension plan requires a complex, dynamic organization that is prepared to adapt and change in an ever evolving landscape. The challenges confronted by CCCERA make it essential to have a collaborative team, exhibiting strength and fortitude.

The qualification recently added to all job specifications is to have the "ability to demonstrate strict confidentiality, professionalism, integrity and compliance with applicable laws and regulations at all times." It is not an idealistic notion, it is imperative that it is practiced by qualified and engaged employees. The ability to attract and retain qualified employees is paramount to fulfilling CCCERA's fiduciary responsibility.

The approval and implementation of recommendations by Koff and Associates will ensure that CCCERA will have fair and competitive classification and compensation structures. In the past few years, CCCERA lost almost all of its management staff. CCCERA has had a higher than normal staff turnover rate, peaking at 21% in 2014 and dropping to 10% so far in 2015. Prior to 2015, the lowest turnover rate was in 2010 at 10%, which is still not optimal. The high levels of turnover not only increase recruitment and training costs, but most importantly, leads to a loss of talent and institutional knowledge. This year, there have been organizational improvements targeted at fully engaging employees and allowing for a positive working environment that is focused on achieving CCCERA's mission of effectively administering the plan, however it is clear that employees have been leaving CCCERA for more economically advantageous positions at other organizations.



Although the staff turnover rate is currently lower for this year, recruitment for many positions has proved extremely difficult and in some cases unsuccessful due to the less than competitive compensation offered at CCCERA. Implementing Koff and Associates' recommendations will help improve CCCERA's retention rates, decrease the associated costs of high turnover and allow for the successful recruitment of talented employees capable of achieving CCCERA's mission.

Recommendation:

Consider and take possible action to adopt Koff and Associates recommended classification and salary adjustments, effective January 1, 2016.



PERSPECTIVES
THAT DRIVE
ENTERPRISE
SUCCESS



DECEMBER 2, 2015

Asset allocation study

Contra Costa County Employees' Retirement Association

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Plan profile



Plan profile

As of September 30, 2015:

Total market value of assets = \$7,016,433,248

As of December 31, 2014:

- Average monthly Plan cash flows based on the previous 24 months:
 - Total Contributions = \$27.7 mil
 - Average annual lump sum employer contribution of \$262.6 mil in July
 - Total Benefit Payments & Expenses = \$34.0 mil
 - Benefit Payments = \$30.8 mil
 - Operating Expenses = \$3.2 mil
 - Net Operating Cash *Outflow* = \$5.6 mil
 - Total Interest & Dividends = \$23.2 mil
 - Net Cash *Inflow* = \$17.6 mil

As of December 31, 2014:

- Open to new participants
- Accrued liability = \$8,104,611,627 (based on interest rate of 7.25%)
- Actuarial assumed rate of return = 7.25%
- Funded ratio = 85.9% (actuarial value of assets) and 86.6% (market value of assets)
- Total participants = 20,677 (9,159 or 44.3% active, 2,647 or 12.8% inactive, 8,871 or 42.9% retired)



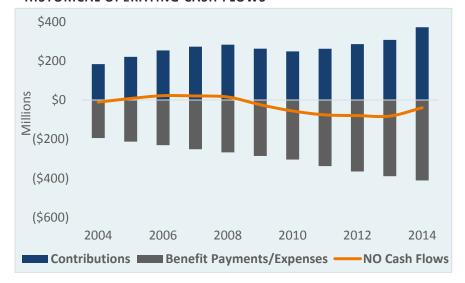
Cash flows



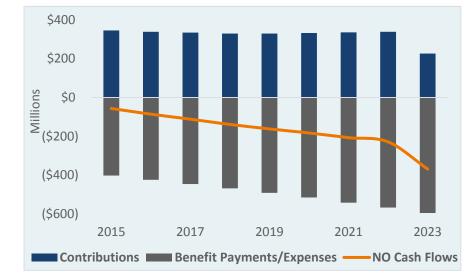
Operating cash flows

- From 2004 to 2014, benefit payments and expenses have increased at an annual rate of 7.8%, while contributions have increased at an annual rate of 7.3%
- From 2015 to 2023, benefit payments and expenses are projected to increase at an annual rate of 5.0%, while contributions are projected to *decrease* at an annual rate of -5.2% (mostly attributable to the decrease in 2023)
- Current projections have net operating cash flows steadily declining to -\$369 mil at the end of 2023

HISTORICAL OPERATING CASH FLOWS



PROJECTED OPERATING CASH FLOWS



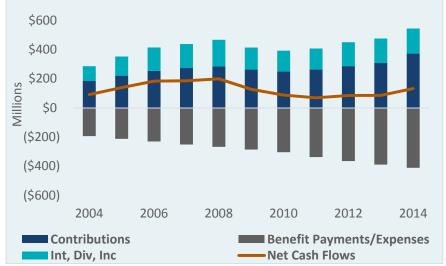
As of December 31, 2014



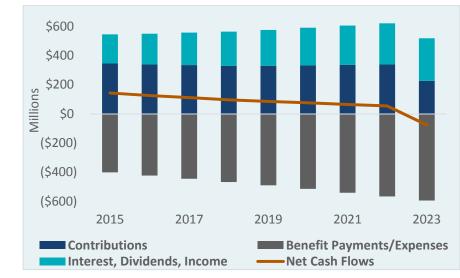
Total cash flows

- Over the last 10 years, net cash flows (taking into account interest, dividends, and real estate income) have remained positive, reaching \$132.1 mil at the end of 2014
- Interest, dividends, and real estate income averaged \$158.3 mil (2.7% of total assets) from 2010 to 2014
- Using 2.7% of total assets as a projection for future interest, dividends, and real estate income, net cash flows are expected to remain positive through 2022

HISTORICAL CASH FLOWS



PROJECTED CASH FLOWS



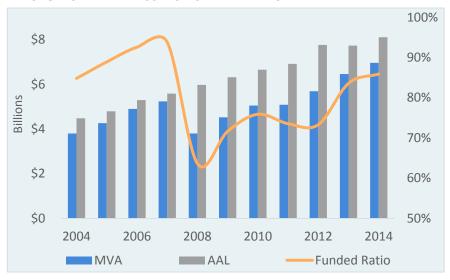
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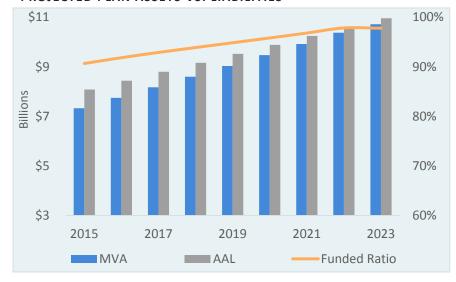
MVA and AAL

- From 2004 to 2014, the market value of assets and actuarial accrued liabilities have grown at an annual rate of 6.1% and 6.2%, respectively
- Based on market value of assets, the Plan's funded ratio at the end of 2014 was 85.9%
- From 2015 to 2023, the actuarial accrued liabilities are projected to grow at an annual rate or 3.9%
- The funded ratio, based on an assumed rate of return of 7.25%, is projected to steadily increase ~1% per year, reaching 97.8% by the end of 2023

HISTORICAL PLAN ASSETS VS. LIABILITIES



PROJECTED PLAN ASSETS VS. LIABILITIES



As of December 31, 2014

Sources: CCCERA Investment Reports, Segal Consulting CCCERA Actuarial Valuation Reports



Benefits & expenses protection



24-month "reserves" model

Assuming annual returns range between 6.0% and 8.5%, 24 month forward projected expenses (as a % of total assets) will range between 10.7% and 12.8% over the next 6 years

	Projected	Expenses		Total Assets		Next 2 Year Expenses (% of Assets)			
Year End	Current Year	Next 2 Years	7.25% Return	6.0% Return	8.5% Return	7.25% Return	6.0% Return	8.5% Return	
2016	\$424	\$914	\$7,750	\$7,571	\$7,939	11.79%	12.07%	11.51%	
2017	\$446	\$959	\$8,174	\$7,890	\$ 8,479	11.73%	12.15%	11.31%	
2018	\$468	\$1,006	\$8,599	\$8,201	\$9,037	11.70%	12.27%	11.13%	
2019	\$491	\$1,057	\$9,031	\$8,507	\$9,618	11.70%	12.43%	10.99%	
2020	\$515	\$1,109	\$9,471	\$8,806	\$10,224	11.71%	12.59%	10.85%	
2021	\$542	\$1,162	\$9,918	\$9,102	\$10,860	11.72%	12.77%	10.70%	
2022	\$567		\$10,373	\$9,390	\$11,525				
2023	\$595		\$10,715	\$9,554	\$12,105				
(\$ in million	s)								

As of December 31, 2014



36-month "reserves" model

Assuming annual returns range between 6.0% and 8.5%, 36 month forward projected expenses (as a % of total assets) will range between 16.7% and 19.4% over the next 5 years

	Projected	Expenses		Total Assets		Next 3 Year Expenses (% of Assets)			
Year End	Current Year	Next 3 Years	7.25% Return	6.0% Return	8.5% Return	7.25% Return	6.0% Return	8.5% Return	
2016	\$424	\$1,405	\$7,750	\$7,571	\$7,939	18.13%	18.56%	17.70%	
2017	\$446	\$1,474	\$8,174	\$7,890	\$8,479	18.03%	18.68%	17.38%	
2018	\$468	\$1,548	\$8,599	\$8,201	\$9,037	18.00%	18.88%	17.13%	
2019	\$491	\$1,624	\$9,031	\$8,507	\$9,618	17.98%	19.09%	16.89%	
2020	\$515	\$1,704	\$9,471	\$8,806	\$10,224	17.99%	19.35%	16.67%	
2021	\$542		\$9,918	\$9,102	\$10,860				
2022	\$567		\$10,373	\$9,390	\$11,525				
2023	\$595		\$10,715	\$9,554	\$12,105				
(\$ in million	s)								

As of December 31, 2014



48-month "reserves" model

Assuming annual returns range between 6.0% and 8.5%, 48 month forward projected expenses (as a % of total assets) will range between 23.1% and 26.1% over the next 4 years

	Projected	Expenses		Total Assets		Next 4 Year Expenses (% of Assets)			
Year End	Current Year	Next 4 Years	7.25% Return	6.0% Return	8.5% Return	7.25% Return	6.0% Return	8.5% Return	
2016	\$424	\$1,920	\$7,750	\$7,571	\$7,939	24.77%	25.36%	24.18%	
2017	\$446	\$2,016	\$8,174	\$7,890	\$8,479	24.66%	25.55%	23.78%	
2018	\$468	\$2,115	\$8,599	\$8,201	\$9,037	24.60%	25.79%	23.40%	
2019	\$491	\$2,219	\$9,031	\$8,507	\$9,618	24.57%	26.08%	23.07%	
2020	\$515		\$9,471	\$8,806	\$10,224				
2021	\$542		\$9,918	\$9,102	\$10,860				
2022	\$567		\$10,373	\$9,390	\$11,525				
2023	\$595		\$10,715	\$9,554	\$12,105				
(\$ in million	s)								

As of December 31, 2014



Asset allocation



Descriptions of asset allocation approaches

POLICY AND CURRENT PORTFOLIO

—Investment portfolio defined in the investment policy statement

Risk Diversified portfolio

- Model designed to increase risk diversification to the Typical Peer in a way that doesn't markedly increase peer risk
- —Does not rely on large allocations to hedge funds or other complex instruments to achieve risk factor diversification

Functionally focused portfolio

- —Design based on functional elements, rather than categorizing assets by asset class or risk factors (e.g., liquidity and short term needs, long term growth assets, diversifying strategies)
- —By explicitly funding near term benefit payments, additional risk can be assumed throughout the remainder of the portfolio

Asset allocation analysis

	FFP		Risk Div		FFP		Uncor	nstrained FFP		10-yr Capital I	Market Ass	umptions
	Policy	(ISD)	50/25/25	2-yr	3-yr	4-yr	2'-yr	3'-yr	4'-yr	Return	Vol	Sharpe
Total Equity	42.6	25.0	40.0	34.0	32.0	30.0	30.0	30.0	30.0			
Domestic Equity	-	10.0	20.0	15.0	13.0	11.0	10.0	8.0	6.0			
Large Cap US Equity	-	10.0	20.0	15.0	13.0	11.0	10.0	8.0	6.0	5.7	14.7	0.25
International Equity	-	15.0	20.0	19.0	19.0	19.0	20.0	22.0	24.0			
International Large	-	10.0	15.0	14.0	13.0	12.0	10.0	10.0	10.0	9.5	18.2	0.41
Emerging Markets	-	5.0	5.0	5.0	6.0	7.0	10.0	12.0	14.0	11.5	23.7	0.40
Global Equity	42.6	-	-	-	-	-	-	-	-			
Total Fixed Income	30.7	20.0	20.0	25.0	28.0	30.0	18.0	22.0	26.0			
Domestic Fixed Income	28.3	20.0	15.0	25.0	28.0	30.0	18.0	22.0	26.0			
US Core Fixed Income	19.5	-	-	-	-	-	-	-	-	3.1	3.2	0.31
US Treasury	-	10.0	10.0	8.0	6.0	4.0	6.0	4.0	2.0	2.2	6.4	0.01
Short-Term Govt/Credit	-	10.0	-	12.0	18.0	24.0	12.0	18.0	24.0	2.3	1.3	0.17
High Yield Fixed Income	7.4	-	5.0	-	-	-	-	-	-	3.7	10.5	0.30
US TIPS	1.3	-	-	5.0	4.0	2.0	-	-	-	2.6	6.3	0.07
International Fixed Income	2.4	_	5.0	-	-	-	-	-	-			
Global Sovereign ex-US	1.2	-	-	-	-	-	-	-	-	2.5	7.9	0.05
Global Credit	1.2	_	-	-	-	-	-	-	-	1.9	7.4	-0.02
Emerging Market Debt (Hard)	-	-	5.0	-	-	-	-	-	-	5.7	8.9	0.41
Total Real Assets	13.8	15.0	20.0	12.0	9.0	7.0	15.0	11.0	7.0			
Commodities	1.3	-	-	-	-	-	-	-	-	4.1	18.2	0.11
Real Estate	8.0	15.0	20.0	10.0	7.0	5.0	13.0	10.0	7.0	5.1	13.2	0.23
REITs	4.5	-	-	2.0	2.0	2.0	2.0	1.0	-	5.1	26.4	0.11
Total Alternatives	12.4	35.0	20.0	28.0	30.0	32.0	36.0	36.0	36.0			
Risk Diversifying Strategies	-	10.0	5.0	8.0	6.0	4.0	6.0	4.0	2.0	6.0	9.1	0.43
Private Equity	12.4	15.0	10.0	10.0	12.0	14.0	15.0	16.0	17.0	7.7	23.7	0.24
Private Credit	-	10.0	5.0	10.0	12.0	14.0	15.0	16.0	17.0	7.8	10.5	0.55
Cash	0.5	5.0	-	1.0	1.0	1.0	1.0	1.0	1.0	2.1	0.6	_
Total Allocation	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0			
Allocation to Illimited Chapters'	20.4	40.0	25.0	20.0	24.0	22.0	42.0	42.0	44.0			
Allocation to Illiquid Strategies	20.4	40.0	35.0	30.0	31.0	33.0	43.0	42.0	41.0			

Note: Policy portfolio utilizes benchmark constituent weights to determine asset allocation weights for equities and fixed income



Asset allocation by functional role

		FFP	Risk Div		FFP		Uncon	strained FFP)	10-yr Capital N	larket Ass	sumptions
	Policy	(ISD)	50/25/25	2-yr	3-yr	4-yr	2'-yr	3'-yr	4'-yr	Return	Vol	Sharpe
Liquidity	0.5	15.0	-	13.0	19.0	25.0	13.0	19.0	25.0			
Cash	0.5	5.0	-	1.0	1.0	1.0	1.0	1.0	1.0	2.1	0.6	-
Short-Term Govt/Credit	-	10.0	-	12.0	18.0	24.0	12.0	18.0	24.0	2.3	1.3	0.17
Diversifying	-	20.0	15.0	16.0	12.0	8.0	12.0	8.0	4.0			
US Treasury	-	10.0	10.0	8.0	6.0	4.0	6.0	4.0	2.0	2.2	6.4	0.01
Risk Diversifying Strategies	-	10.0	5.0	8.0	6.0	4.0	6.0	4.0	2.0	6.0	9.1	0.43
Growth	99.5	65.0	85.0	71.0	69.0	67.0	75.0	73.0	71.0			
Domestic Large Cap Equity	-	10.0	20.0	15.0	13.0	11.0	10.0	8.0	6.0			
International Equity	-	15.0	20.0	19.0	19.0	19.0	20.0	22.0	24.0			
Developed Markets	-	10.0	15.0	14.0	13.0	12.0	10.0	10.0	10.0	9.5	18.2	0.41
Emerging Markets	-	5.0	5.0	5.0	6.0	7.0	10.0	12.0	14.0	11.5	23.7	0.40
Global Equity	42.6	-	-	-	-	-	-	-	-			
Domestic Fixed Income	28.2	-	5.0	5.0	4.0	2.0	-	-	-			
US Core Fixed Income	19.5	-	-	-	-	-	-	-	-	3.1	3.2	0.31
High Yield Fixed Income	7.4	-	5.0	-	-	-	-	-	-	3.7	10.5	0.30
US TIPS	1.3	-	-	5.0	4.0	2.0	-	-	-	2.6	6.3	0.07
International Fixed Income	2.5	-	5.0	-	-	-	-	-	-			
Global Sovereign ex-US	1.3	-	-	-	-	-	-	-	-	2.5	7.9	0.05
Global Credit	1.3	-	-	-	-	-	-	-	-	1.9	7.4	-0.02
Emerging Market Debt (Hard)	-	-	5.0	-	-	-	-	-	-	5.7	8.9	0.41
Commodities	1.3	-	-	-	-	-	-	-	-	4.1	18.2	0.11
Real Estate	8.0	15.0	20.0	10.0	7.0	5.0	13.0	10.0	7.0	5.1	13.2	0.23
REITs	4.5	-	-	2.0	2.0	2.0	2.0	1.0	-	5.1	26.4	0.11
Private Equity	12.4	15.0	10.0	10.0	12.0	14.0	15.0	16.0	17.0	7.7	23.7	0.24
Private Credit	-	10.0	5.0	10.0	12.0	14.0	15.0	16.0	17.0	7.8	10.5	0.55
Total Allocation	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0			

Note: Policy portfolio utilizes benchmark constituent weights to determine asset allocation weights for equities and fixed income



Asset allocation analysis

		FFP	Risk Div		FFP		Un	constrained	
_	Policy	(ISD)	50/25/25	2-yr	3-yr	4-yr	2'-yr	3'-yr	4'-yr
Mean Variance Analysis									
Forecast 10 Year Return	6.4	6.5	6.9	6.5	6.5	6.6	7.1	7.2	7.2
Standard Deviation	12.1	9.4	11.0	9.8	9.9	9.9	10.9	10.8	10.8
Return/Std. Deviation	0.5	0.7	0.6	0.7	0.7	0.7	0.7	0.7	0.7
1st percentile ret. 1 year	-33.0	-24.4	-31.0	-25.6	-24.8	-24.4	-27.6	-27.1	-25.9
Sharpe Ratio	0.41	0.51	0.49	0.49	0.49	0.50	0.51	0.52	0.52
Verus Economic Scenario Analysis	;								
10 Year Return Forecast									
Stagflation	5.7	6.5	6.1	6.1	6.0	5.9	6.5	6.3	6.2
Weak Economy	2.3	3.0	2.5	2.6	2.8	3.0	3.2	3.2	3.3
Base CMA	6.2	6.0	6.5	6.1	6.1	6.1	6.6	6.7	6.7
Strong	9.9	9.1	10.2	9.4	9.3	9.2	9.8	9.8	9.8
Range of Scenario Forecast	7.5	6.2	7.7	6.8	6.5	6.2	6.7	6.6	6.5
Economic Shock (1 year)	-24.6	-19.4	-24.2	-20.9	-20.7	-20.6	-22.5	-22.8	-23.1

Notes:

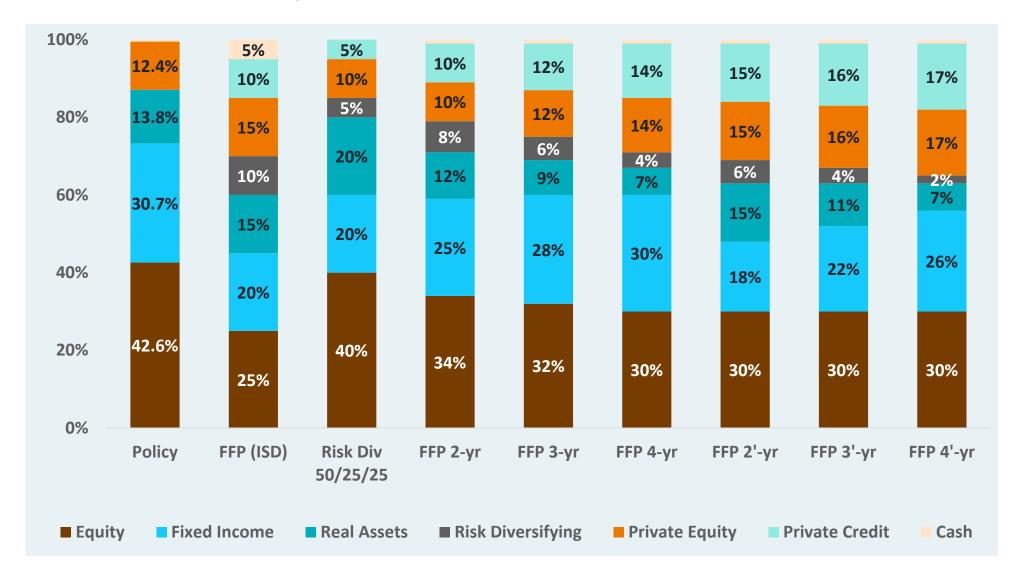
- Real Estate capital market assumptions are for core real estate
- Verus' assumed inflation rate is 2.1% over the next 10 years (actuarial assumption is 3.25% over 30 years)

Scenario Analysis utilizes October 2015 Verus Capital Market Assumptions

Note: Policy portfolio utilizes benchmark constituent weights to determine asset allocation weights for equities and fixed income



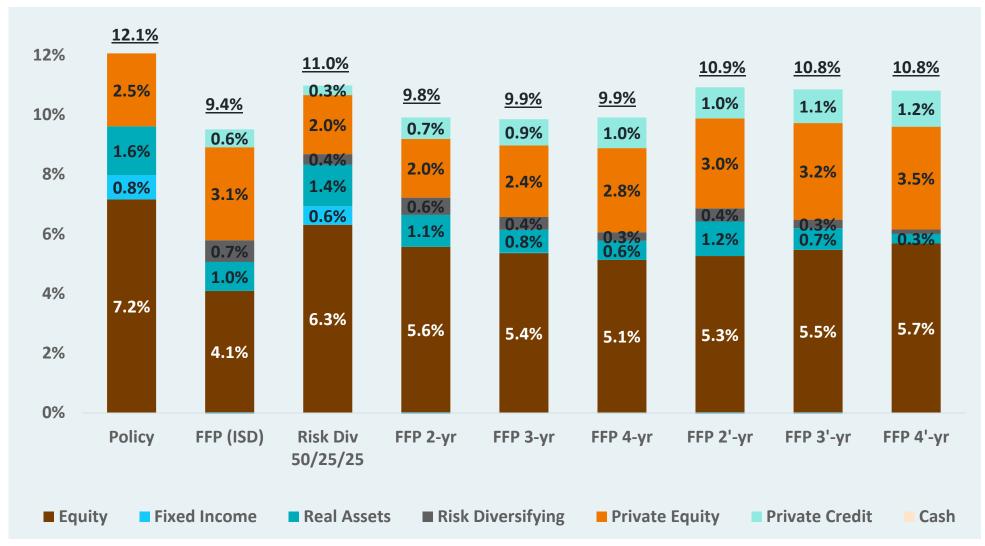
Allocation by asset class



Policy portfolio utilizes benchmark constituent weights to determine asset allocation weights for equities and fixed income



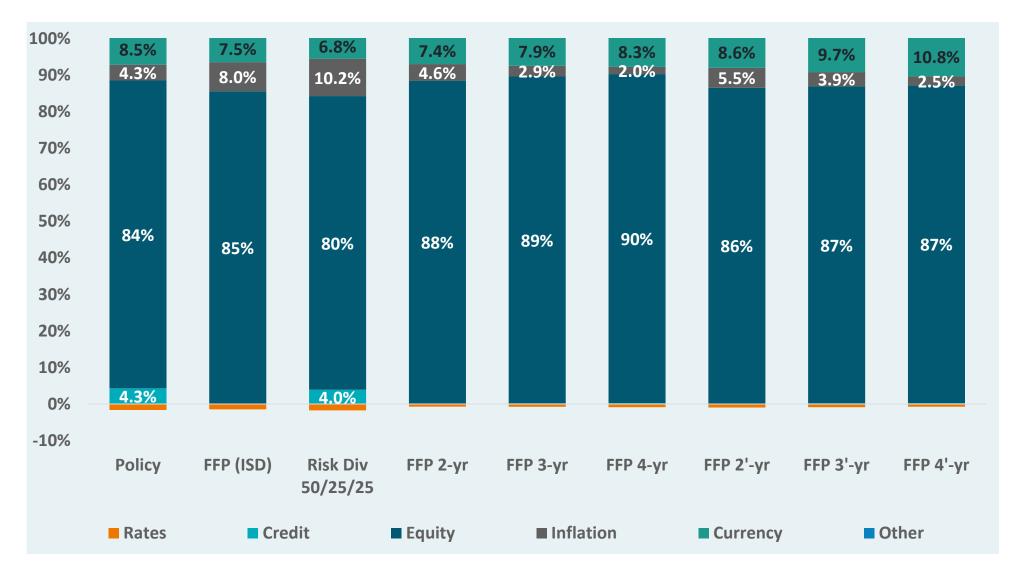
Risk contribution by asset class



Risk contribution based on Verus' Capital Market Assumptions
Policy portfolio utilizes benchmark constituent weights to determine asset allocation weights for equities and fixed income



Risk contribution by risk factor

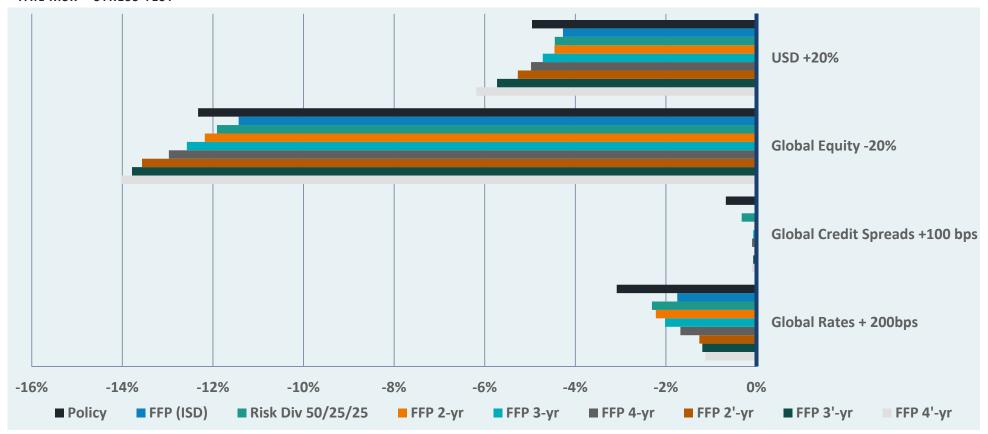


Risk contribution based on BarraOne's Capital Market Assumptions



Stress test

TAIL RISK - STRESS TEST



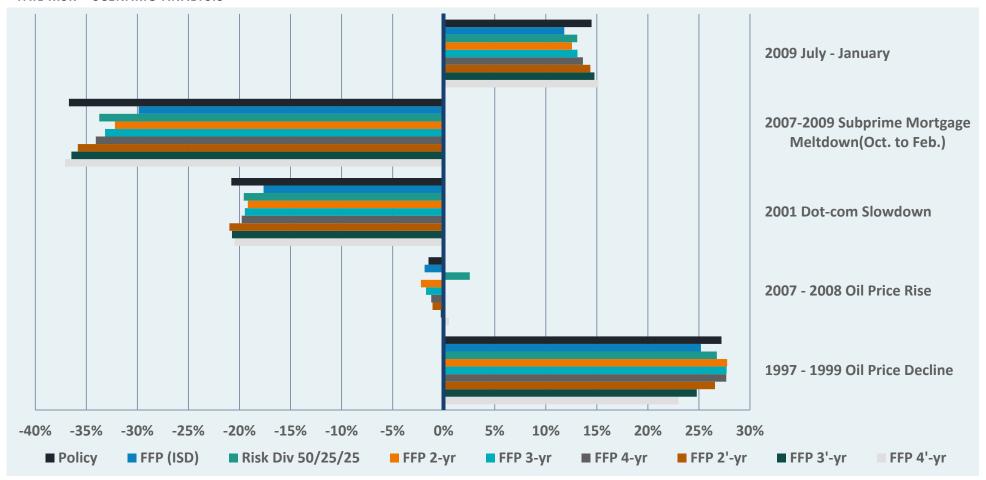
- BarraOne's risk decomposition analysis can hypothesize how the different portfolios would have performed in certain hypothetical stress tests or historical environments.
- This analysis is based on how the risk factors inherent in the current index holdings reacted in those environments.

 Scenario analysis based on risk factors in current policy index and computed as hypothetical scenarios using MSCI BarraOne



Historical scenario analysis

TAIL RISK - SCENARIO ANALYSIS

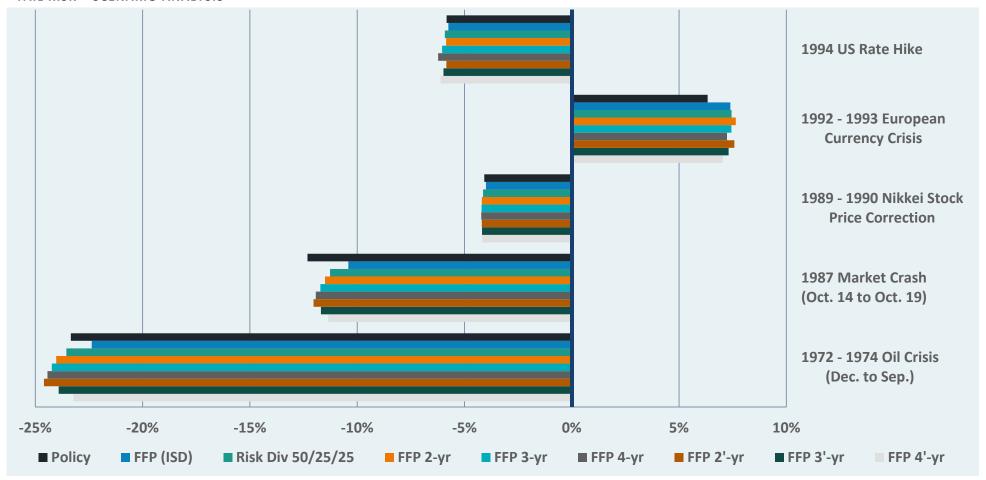


Scenario analysis based on risk factors in current policy index and computed as hypothetical scenarios using MSCI BarraOne



Historical scenario analysis

TAIL RISK - SCENARIO ANALYSIS



Scenario analysis based on risk factors in current policy index and computed as hypothetical scenarios using MSCI BarraOne



Investment model evaluation summary

	- ··	(ICD)	Risk Div				0	0	41
Selection Criteria	Policy	FFP (ISD)	50/25/25	FFP 2-yr	FFP 3-yr	FFP 4-yr	FFP 2'-yr	FFP 3'-yr	FFP 4'-yr
Risk/Return Metrics									
Expected Return	6.4%	6.5%	6.9%	6.5%	6.5%	6.6%	7.1%	7.2%	7.2%
Volatility	12.1%	9.4%	11.0%	9.8%	9.9%	9.9%	10.9%	10.8%	10.8%
Sharpe Ratio	0.41	0.51	0.49	0.49	0.49	0.50	0.51	0.52	0.52
% chance of meeting 7.25%	42%	41%	46%	41%	41%	42%	49%	49%	49%
Daily VaR (95% confidence, \$MM)	\$68.1	\$45.0	\$58.3	\$51.9	\$52.4	\$53.1	\$59.7	\$56.8	\$54.0
Daily CVaR (95% confidence, \$MM)	\$108.2	\$81.3	\$92.9	\$89.1	\$89.3	\$89.1	\$92.9	\$92.3	\$92.0
2007-2009 Drawdown (Simulation)	-36.7%	-29.9%	-33.7%	-32.2%	-33.2%	-34.1%	-35.8%	-36.5%	-37.1%
1st Percentile (1 Year, MVA)	-33.0%	-24.4%	-31.0%	-25.6%	-24.8%	-24.4%	-27.6%	-27.1%	-25.9%
Potential impact on Discount Rate	-0.85%	-0.74%	-0.34%	-0.73%	-0.72%	-0.68%	-0.13%	-0.10%	-0.08%
Risk Factors									
Portfolio Complexity	med	med	high	med	med	med	high	high	high
Leverage	med	med	med	med	med	med	med	med	med
Peer/Headline Risk	low	high	med	med	med	med	high	high	high
Liquidity Risk	med	low	med	low	low	low	low	low	low
Tail Risk	high	low	high	med	low	low	med	med	med
Equity Risk Allocation	high	med	med	med	med	med	med	med	med



Appendix

Date horizon of historical scenario analysis

Scenario	From	То
1972 - 1974 Oil Crisis (Dec. to Sep.)	December 1, 1972	September 30, 1974
1987 Market Crash (Oct. 14 to Oct. 19)	October 14, 1987	October 19, 1987
1989 - 1990 Nikkei Stock Price Correction	December 29, 1989	March 30, 1990
1992 - 1993 European Currency Crisis	September 1, 1992	August 13, 1993
1994 US Rate Hike	January 31, 1994	December 13, 1994
1997 - 1999 Oil Price Decline	January 8, 1997	February 16, 1999
2001 Dot-com Slowdown	March 10, 2001	October 9, 2002
2007 - 2008 Oil Price Rise	January 18, 2007	June 27, 2008
2007-2009 Subprime Mortgage Meltdown(Oct. to Feb.)	October 1, 2007	February 27, 2009
2009 July - January	July 1, 2009	December 31, 2009

Source: MSCI BarraOne



10 year return & risk assumptions

	_	Ten Year Re	eturn Forecast	Standard Deviation	Sharpe Ratio	Ten Year Historical		
Asset Class	Index Proxy	Geometric	Arithmetic	Forecast	Forecast	Sharpe Ratio		
Equities								
US Large	S&P 500	5.7%	6.7%	14.7%	0.25	0.47		
US Small	Russell 2000	4.7%	6.5%	19.8%	0.13	0.40		
International Developed	MSCI EAFE	9.5%	11.0%	18.2%	0.41	0.25		
International Small	MSCI EAFE Small Cap	9.2%	11.0%	19.7%	0.36	0.32		
Emerging Markets	MSCI EM	11.5%	13.9%	23.7%	0.40	0.40		
Private Equity	Cambridge Private Equity	7.7%	10.2%	23.7%	0.24	1.07		
Fixed Income								
Cash	30 Day T-Bills	2.1%	2.1%	0.6%	-	-		
US TIPS	Barclays US TIPS 5 - 10	2.6%	2.8%	6.3%	0.07	0.47		
US Treasury	Barclays Treasury 7 - 10 year	2.2%	2.4%	6.4%	0.01	0.65		
Global Sovereign ex US	Barclays Global Treasury ex US	2.5%	2.8%	7.9%	0.05	0.18		
Core Fixed Income	Barclays US Aggregate Bond	3.1%	3.2%	3.2%	0.31	0.96		
Core Plus Fixed Income	Barclays US Corporate IG	3.8%	4.0%	5.9%	0.29	0.67		
Short-Term Gov't/Credit	Barclays US Gov't/Credit 1 - 3 year	2.3%	2.3%	1.3%	0.17	1.09		
Short-Term Credit	Barclays Credit 1 - 3 year	2.6%	2.6%	2.3%	0.22	0.88		
Long-Term Credit	Barclays Long US Corporate	3.7%	4.3%	11.0%	0.15	0.55		
High Yield Corp. Credit	Barclays High Yield	5.2%	5.8%	10.5%	0.30	0.61		
Bank Loans	S&P/LSTA	3.7%	4.1%	8.7%	0.19	0.44		
Global Credit	Barclays Global Credit	1.9%	2.2%	7.4%	-0.02	0.49		
Emerging Markets Debt (Hard)	JPM EMBI Global Diversified	5.7%	6.1%	8.9%	0.41	0.72		
Emerging Markets Debt (Local)	JPM GBI EM Global Diversified	6.2%	7.0%	12.9%	0.32	0.46		
Private Credit	High Yield + 200 bps	7.8%	8.4%	10.5%	0.55	-		
Other								
Commodities	Bloomberg Commodity	4.1%	5.7%	18.2%	0.11	-0.10		
Hedge Funds	HFRI Fund of Funds	6.0%	6.4%	9.1%	0.43	0.29		
Core Real Estate	NCREIF Property	5.1%	5.9%	13.2%	0.23	0.93		
REITs	Wilshire REIT	5.1%	8.1%	26.4%	0.11	0.38		
Inflation		2.1%	-	-	-	-		

Both geometric and arithmetic return forecasts have been included. It is important that users of this information understand how we derived it. Our forecast process involves the use of a wide range of data inputs (of a variety of different types) to create geometric return forecasts for individual asset classes – this is the process described at length in this document. We use an industry standard formula to convert these to arithmetic return forecasts, and provide both for client use.

Investors wishing to produce expected geometric return forecasts for their portfolios should use the arithmetic return forecasts provided here as inputs into that calculation, rather than the single-asset-class geometric return forecasts. This is the industry standard approach, but requires a complex explanation only a heavy quant could love, so we have chosen not to provide further details in this document – we will happily provide those details to any readers of this who are interested.

More broadly, it is important that the user of these forecasts remembers that return forecasts (whoever provides them) are there to provide a guide to the likely future, no more. While we believe that the approach described in this document is an appropriate one to use for those purposes, and that the forecasts resulting from that approach are meaningful and fit for the uses to which they will be put, users of any such forecasts should always bear in mind the fact that the single most difficult thing to predict is the future, and approach that exercise with appropriate skepticism.



Correlation assumptions

	Cash	US Large		Developed Large	Developed Small	EM	PE	TIPS	US Treasury	Global Sovereign	US Core	US Core Plus	Short –Term Govt/Credit	Short-Term Credit	Long-Term Credit	US HY	Bank Loans	Global Credit	EMD USD	EMD Local	Commodities	Hedge Funds	Real Estate	REITs	Inflation
Cash	1																								
US Large	-0.1	1																							
US Small	-0.1	0.9	1																						
Developed Large	0.0	0.9	0.8	1																					
Developed Small	0.0	0.8	0.8	1.0	1																				
EM	0.1	8.0	0.7	0.9	0.9	1																			
PE	-0.2	0.7	0.7	0.8	0.8	0.7	1																		
TIPS	0.0	0.2	0.1	0.2	0.3	0.3	0.2	1																	
US Treasury	0.0	-0.3	-0.3	-0.2	-0.2	-0.2	-0.2	0.6	1																
Global Sovereign	0.0	0.2	0.2	0.4	0.4	0.4	0.5	0.6	0.5	1															
US Core	0.0	0.1	0.0	0.1	0.1	0.1	0.0	8.0	0.9	0.6	1														
US Core Plus	-0.1	0.4	0.3	0.5	0.5	0.5	0.6	0.7	0.5	0.5	0.8	1													
Short –Term Govt/Credit	0.3	-0.1	-0.1	0.1	0.1	0.1	-0.2	0.6	0.6	0.6	0.7	0.6	1												
Short-Term Credit	0.0	0.3	0.3	0.5	0.5	0.5	-0.2	0.6	0.2	0.5	0.6	0.8	0.7	1											
Long-Term Credit	-0.1	0.3	0.2	0.4	0.4	0.4	0.1	0.6	0.5	0.5	0.8	1.0	0.4	0.6	1										
US HY	-0.1	0.7	0.7	0.8	0.8	0.7	0.6	0.4	-0.2	0.3	0.2	0.6	0.1	0.6	0.5	1									
Bank Loans	-0.1	0.6	0.6	0.6	0.6	0.6	0.2	0.2	-0.4	0.0	0.0	0.4	-0.1	0.5	0.3	0.9	1								
Global Credit	-0.1	0.6	0.5	0.8	0.8	0.7	0.7	0.6	0.2	0.8	0.6	0.8	0.5	0.8	0.7	0.7	0.5	1							
EMD USD	-0.1	0.6	0.5	0.7	0.7	0.7	0.5	0.7	0.3	0.5	0.6	0.8	0.4	0.7	0.7	0.8	0.6	0.8	1						
EMD Local	0.1	0.7	0.6	0.8	0.8	0.8	0.6	0.5	0.1	0.6	0.4	0.6	0.3	0.5	0.5	0.7	0.4	0.8	0.8	1					
Commodities	0.1	0.5	0.4	0.6	0.6	0.7	0.2	0.3	-0.2	0.4	0.1	0.3	0.1	0.4	0.2	0.5	0.4	0.6	0.5	0.6	1				
Hedge Funds	0.1	0.7	0.6	0.8	0.8	0.8	0.7	0.2	-0.3	0.1	0.0	0.4	0.0	0.4	0.2	0.6	0.6	0.6	0.5	0.6	0.7	1			
Real Estate	-0.1	0.4	0.3	0.3	0.3	0.3	0.3	0.1	-0.1	0.1	0.0	0.2	-0.1	-0.1	0.1	0.2	0.0	0.2	0.2	0.3	0.0	0.3	1		
REITs	0.0	8.0	8.0	0.7	0.6	0.6	0.6	0.2	-0.1	0.3	0.2	0.4	0.0	0.3	0.4	0.7	0.5	0.6	0.6	0.6	0.3	0.4	0.4	1	
Inflation	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.1	-0.3	0.0	-0.3	-0.2	-0.2	0.0	-0.3	0.2	0.4	0.0	0.0	0.1	0.3	0.2	0.1	0.1	1

Note: Correlation assumptions are based on the last ten years. Private Equity and Real Estate correlations are especially difficult to model – we have therefore used BarraOne correlation data to strengthen these correlation estimates.



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