

2014 Update of Total Remuneration Study for General Campus Ladder Rank Faculty Presentation of Final Results

Prepared for the University of California





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Section 1

Background and Context

- As part of an ongoing effort to assess market competitiveness of total remuneration for general campus Ladder Rank Faculty ("LRF"), The University of California Office of the President (UCOP) asked Mercer to collect, analyze, and summarize both compensation and benefits data, and prepare a presentation on study findings
- This year's study considers salaries, benefit valuation and aggregate compensation and benefits findings for general campus LRF against the Comparison 8 ("Comp 8") institutions

Study Objectives

- Generate a comprehensive and valid evaluation of UC's current competitive position for total remuneration for general campus LRF;
- Facilitate a better understanding of how competitiveness of total remuneration varies by faculty rank;
- Compare 2009 results versus those of 2014; and
- Evaluate the effect of Post-7/2013 New Tier Benefits on total remuneration.

Study Population - UC Data

- Study population, compensation and demographic data used were provided by Academic Personnel as of 10/1/2013
- Data reflect salary increases allocated to UC LRF in July 2013

Study Timing

- UC salary increases effective July 1, 2014, were not included because there was insufficient notice to model them as part of this study
 - Similarly, salary data from Comparison 8 institutions pertain to Fall 2013 and do not include those increases already planned to take effect in Fall, 2014

Study Calculations

- When calculations are rolled up into "All General Campus LRF," each rank is weighted based on number of incumbents per rank
 - Market cash compensation has been weighted based on the methodology outlined on page 53
- When calculations are based on specific faculty ranks, data is representative of a simple average of all incumbents within that rank

Study Nomenclature

 Total remuneration consists of cash compensation and the value of the employer-provided portion of retirement, and health & welfare benefits

Study Headcount

- Total headcount data for general campus LRF at the University of California were provided by Academic Personnel from payroll data
- Includes 7,305 LRF from general campus designations
 - Excluded from the study:
 - Individuals without salary
 - Individuals who were ineligible for UCRP
 - Health Sciences faculty
 - Health Sciences include Medicine, Dentistry, Nursing, Optometry, Pharmacy, Public Health and Veterinary Medicine
 - Law School faculty
 - Assistant Professor and Associate Professor ranks are not utilized by UC Law Schools and untenured law faculty are appointed as Acting Professors with two-year appointments
 - Not all comparators have law schools
 - Other faculty titles considered equivalent rank
 - Equivalent ranks include: Astronomers and Agronomists who do not jointly hold a professorial title; Lecturers with Security of Employment or Potential Security of Employment; and Supervisors of Physical Education

Study Peer Group

- The comparison institutions, shown below, were originally developed by an advisory committee that
 consisted of members from the former California Postsecondary Education Commission (CPEC), the
 State Legislative Analyst's Office, the State Department of Finance, UC Academic Senate leadership,
 and UCOP administrative leadership
- The same eight comparison institutions have been used in previous studies for LRF

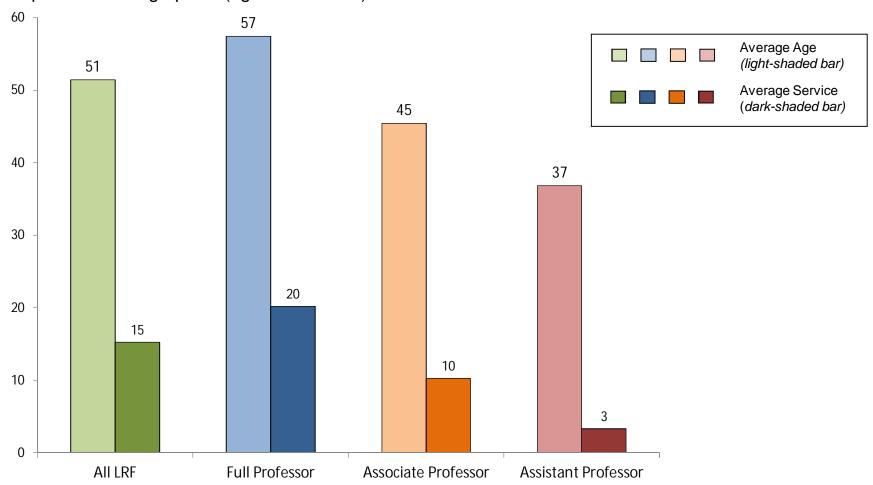
Comparison 8 Academic Institutions ("Comp 8")

MIT
Stanford University
SUNY - Buffalo

University of Illinois – Urbana-Champaign
University of Michigan – Ann Arbor
University of Virginia
Yale University

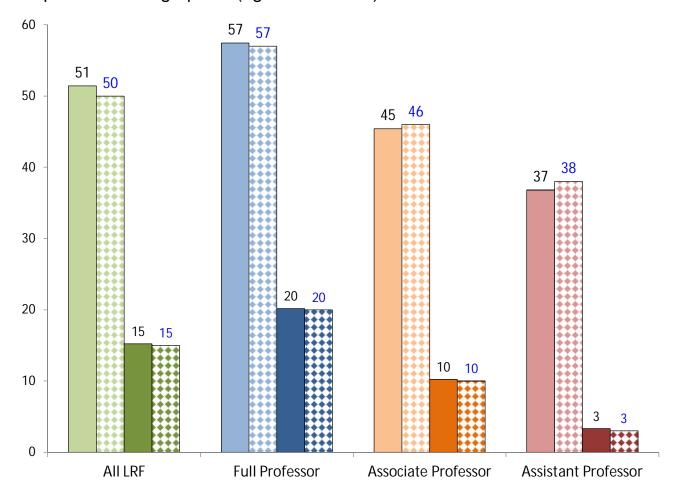
• Study Demographics

Population demographics (age and service) for 2014 are shown below



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- Study Demographics 2014 versus 2009 Study Faculty
 - Population demographics (age and service) between 2014 and 2009 are shown below



Average Age 2014
(light-shaded bar)

Average Service 2014
(dark-shaded bar)

Average Age 2009 (light-shaded bar)

Average Service 2009 (dark-shaded bar)

Presentation of Results

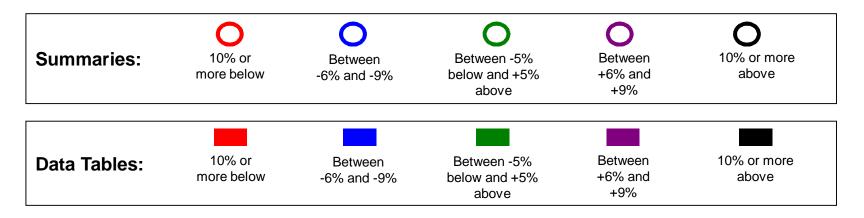
- Two sets of results are presented to compare UC to the market, and UC's study results from 2009 and 2014
 - An evaluation of the effect of Post-7/2013 New Tier benefits on total remuneration is included in Section 2D of this report

Comparison	Description / Components			
	 Comparison is representative of current new hire salary, health, and welfare plans available in the market (Comp 8) versus UC's current plan available to new hires ("New Tier") Market plans do not include plans closed to new members ("grandfathered" plans) 			
1. Market vs. UC	 What's in "Market" Salaries – Market average H&W Benefits design – Market plans Weighted H&W Benefit elections² Retirement design – Market plans 	 What's in "UC" Salaries - UC as of October 2013 H&W Benefits design – UC as of January 2014 Actual H&W Benefit employee elections² Retirement design - New Tier retirement plan (Post-7/2013) 		
2. UC 2009	Comparison is representative of how plan desig positioning against market	ns since 2009 have impacted total remuneration		
Results vs. UC 2014 Results	 2009 Study Represents UC 2009 cash compensation, H&W benefits and retirement plan designs 	 2014 Study Represents UC Post-7/2013 cash compensation, H&W benefits and retirement plan designs 		

¹ More information about grandfathered plans can be found in Section 4A.

² Market H&W benefit elections weighted based on reported usage; UC H&W benefits elections are actual elections by UC faculty, effective January 2014.

- Positioning Figures (Difference from the Market Average)
 - The positioning figures (or differences) shown in the following section are based on the following formula:
 - [(UC Market)/Market]
 - Figures have been rounded to the nearest whole percentage
 - Colors have been used to represent varying degrees of positioning as follows:



Section 2A

Study Findings Summary of Results – Market versus UC

Summary¹ **Observations** Cash compensation is below market average, indicating UC has room to Cash increase salaries versus the peer group -12% Compensation Cash compensation is below market average for all three ranks

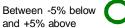
¹ All figures shown have been rounded to the nearest whole percentage.





Between -6%











Summary¹ **Observations**

- Overall, the health & welfare benefits position to market is driven by the following:
 - UC's below market medical and dental benefits value (-2%) is driven by higher employee contributions at higher pay levels compared to market
 - UC's medical plan compares favorably to market before employee contributions are taken into account
 - The highest salary band for UC (over \$151,000) has the highest employee contributions relative to market and lowers positioning against market
 - Six of the Comp 8 institutions vary employee contributions by pay level, but UC is unique in having two bands over \$100,000
 - UC's dental benefit values (11% of the total health & welfare value) are above market due to the absence of contributions at UC
 - UC's long-term disability benefit value is substantially below market and reduces the health & welfare values by about 3%
 - The absence of a dependent tuition program at UC reduces the value of health and welfare benefits by about 3%
 - Tax gross ups (Appendix D) also have an impact on lower pay-to-market value as higher pay levels at Comp 8 institutions may result in higher marginal tax rates and, therefore, a higher gross-up for some faculty

Health & Welfare **Benefits**



¹ All figures shown have been rounded to the nearest whole percentage.





Between -6%



Between -5% below and +5% above



Between +6%





Observations Summary¹ UC retirement benefits are close to market with market positioning of retirement values affected by three factors: UC plan design is more generous than those at the Comp 8 institutions However, UC's cash compensation, upon which the benefit is based, is lower than market, which reduces the retirement values UC's values are further offset by employee contributions to the plan UC has one of two defined benefit plans valued in the report Retirement Three other institutions have a choice of DB plan and a DC plan but their **Benefits** -2% defined contribution plan has been valued (DB/DC) The DC plan was valued to be consistent with the 2009 survey methodology The retirement benefit values for Assistant and Associate Professor ranks are significantly below market These values are heavily discounted because of the longer time required to achieve retirement age, reflecting the younger average age for these ranks,

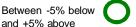
¹ All figures shown have been rounded to the nearest whole percentage.











and +5% above



as well as a higher probability of attrition before retirement age is reached





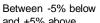
	Summary ¹	Observations
Retiree Health (Medical, Life, Dental)	+61%	 UC's retiree health benefits are significantly higher than market values Employer-provided retiree health benefit values make up only approximately 2% of total remuneration UC is one of the few institutions to have subsidized retiree dental, which increases the overall competitive level; only three of the Comp 8 institutions provide subsidized retiree dental
Total Retirement (Includes Retirement Benefits and Retiree Medical & Life)	+6%	 Overall, UC's total retirement values are above market Key factors impacting this market positioning are: Above market DB plan design, although this is offset by lower-than-market compensation Subsidized retiree medical and dental plans that provide both preand post-65 benefits

¹ All figures shown have been rounded to the nearest whole percentage.



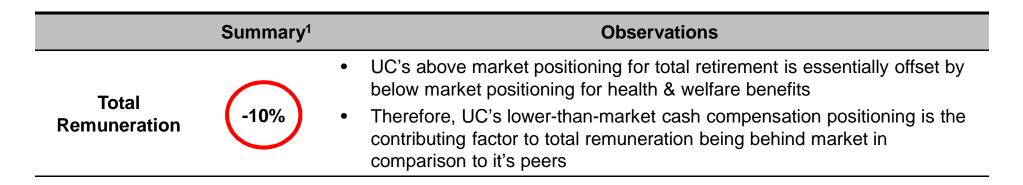












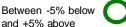
¹ All figures shown have been rounded to the nearest whole percentage.





Between -6%



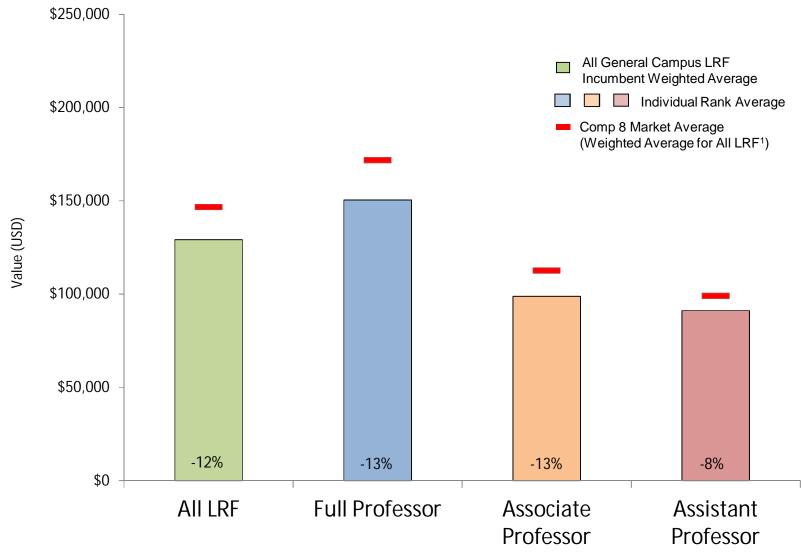




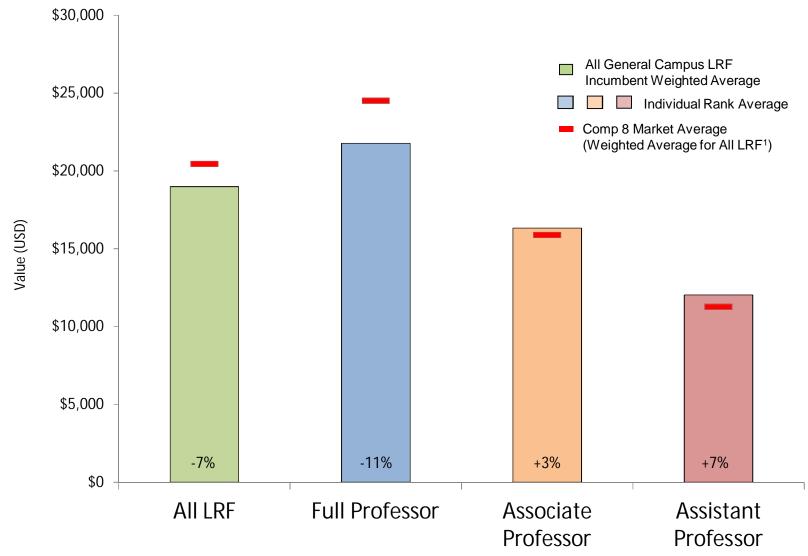




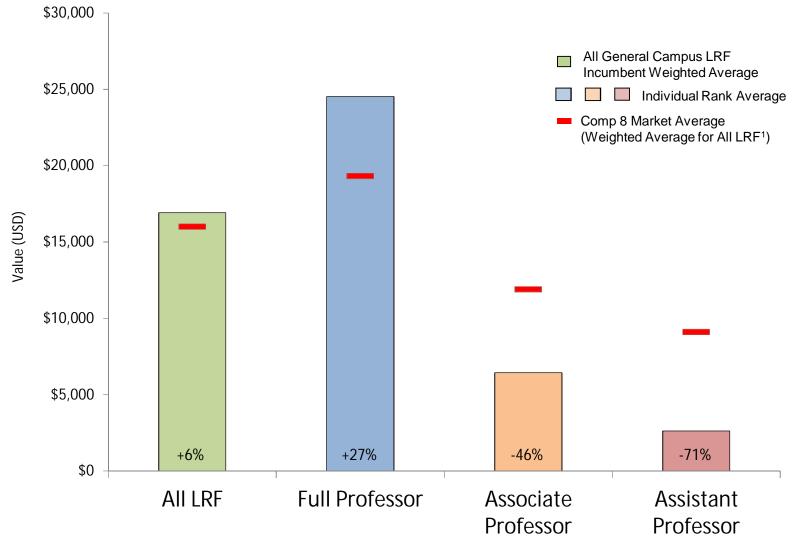
Cash Compensation – Market versus UC



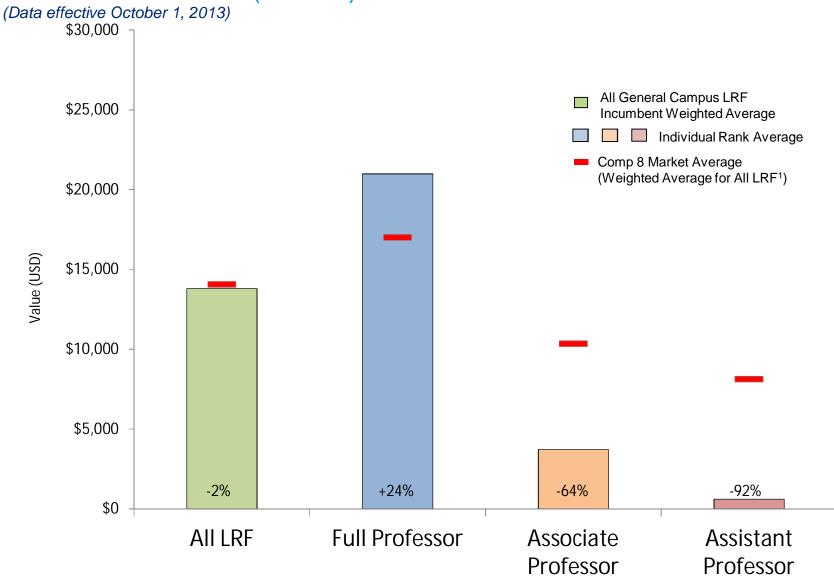
Health & Welfare Benefits - Market versus UC



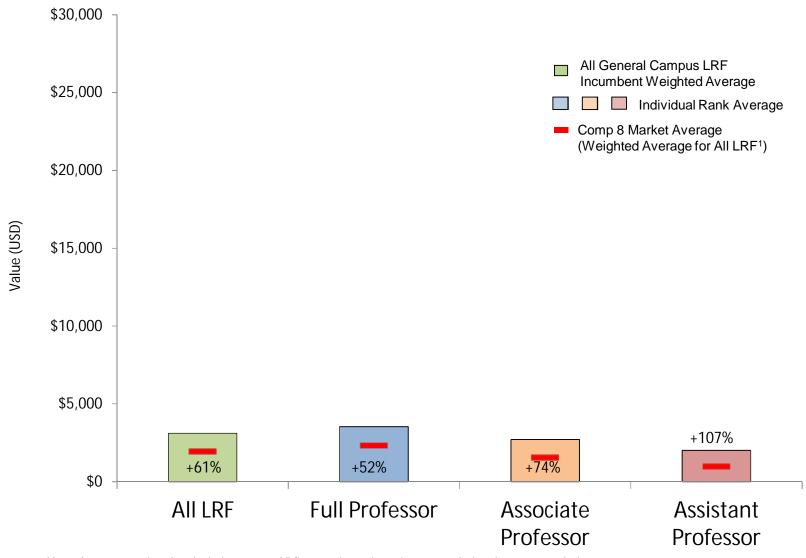
Total Retirement - Market versus UC



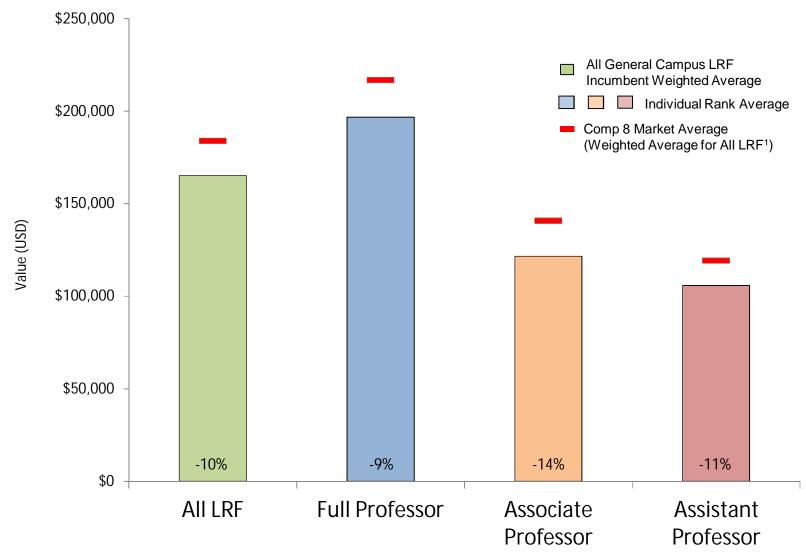
Retirement Benefits (DB/DC) – Market versus UC



Retiree Health (Medical, Dental, Life) - Market versus UC



Total Remuneration - Market versus UC

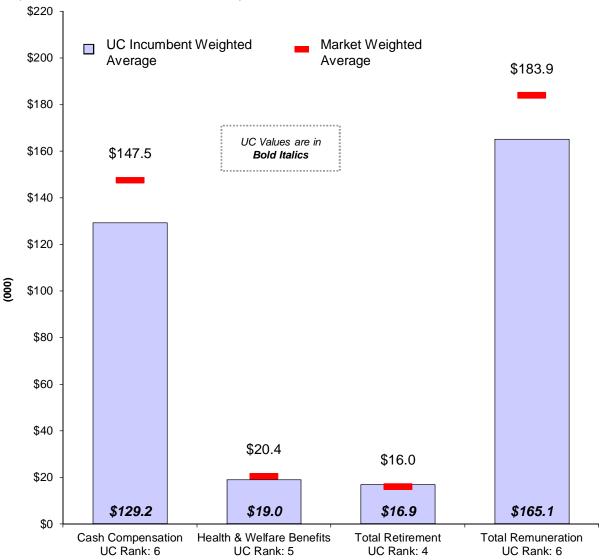


Section 2B

Study Findings Detail by Rank: Market Competitive Analysis

Study Findings: Detail by Rank All General Campus LRF - Market versus UC

(Data effective October 1, 2013)



Observations

- Overall, UC's total remuneration positioning for all LRF is 10% below market, driven predominantly by lower salaries compared to the peer group with smaller differences between the health & welfare, and total retirement benefits of the comparators
 - Cash compensation is 12% below market
 - Health & welfare is 7% below market
 - Total retirement is 6% above market

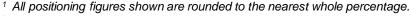
Study Findings: Detail by Rank All General Campus LRF - Market versus UC

(Data effective October 1, 2013)

Observations

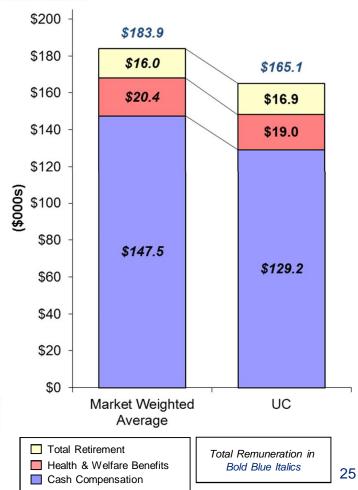
 The differences between UC and the market for health & welfare, and total retirement benefits nearly offset one another, leaving cash compensation as the major contributor to UC's below market positioning for total remuneration

	Averages		Difference
Element of Remuneration	Market Weighted	UC	from Market ¹
Cash Compensation	\$147,473	\$129,235	-12%
Health & Welfare Benefits	\$20,442	\$18,988	-7%
Medical & Dental	\$18,104	\$17,717	-2%
Life Insurance ²	\$331	\$332	0%
Dependent Care / Health Care FSA	\$191	\$180	-6%
Long-term Disability	\$1,299	\$759	-42%
Dependent Tuition	\$517	\$0	n/a
Total Retirement	\$15,999	\$16,914	+6%
Retirement (DB / DC)	\$14,066	\$13,808	-2%
Retiree Health (Med, Life, Dental)	\$1,934	\$3,107	+61%
Total Remuneration	\$183,914	\$165,137	-10%



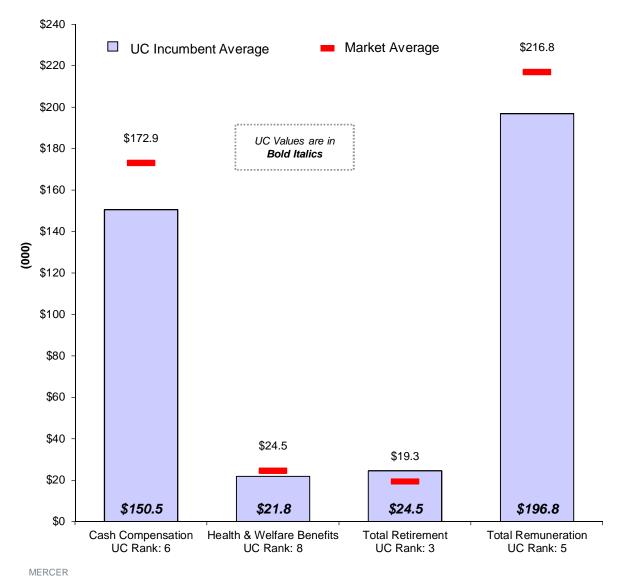
² Includes pre-retirement survivor benefits.





Study Findings: Detail by Rank Full Professors - Market versus UC

(Data effective October 1, 2013)



Observations

- Overall, total remuneration positioning for Full Professors is 9% below market, driven predominantly by lower than market salaries while being offset slightly by above-market total retirement benefits
 - Cash compensation is 13% below market
 - Health & welfare is 11% below market
 - Higher medical employee contributions at the higher pay levels reduces the value and competitiveness of the health & welfare benefit as a part of total remuneration
 - Total retirement is 27% above market

Study Findings: Detail by Rank Full Professors – Market versus UC

(Data effective October 1, 2013)

Observations

 Total remuneration for full professors is lower-than-market driven by lower salaries and health and welfare benefits, while retirement benefit values are higher than market

_	Averages		Difference
Element of Remuneration	Market	UC	from Market ¹
Cash Compensation	\$172,939	<i>\$150,455</i>	-13%
Health & Welfare Benefits	\$24,507	\$21,772	-11%
Medical & Dental	\$21,492	\$20,079	-7%
Life Insurance ²	\$459	\$444	-3%
Dependent Care / Health Care FSA	\$175	\$169	-4%
Long-term Disability	\$1,825	\$1,080	-41%
Dependent Tuition	\$556	\$0	n/a
Total Retirement	\$19,315	\$24,524	+27%
Retirement (DB / DC)	\$16,991	\$20,987	+24%
Retiree Health (Med, Life, Dental)	\$2,324	\$3,537	+52%
Total Remuneration	\$216,761	\$196,751	-9%

¹ All positioning figures shown are rounded to the nearest whole percentage.

² Includes pre-retirement survivor benefits.

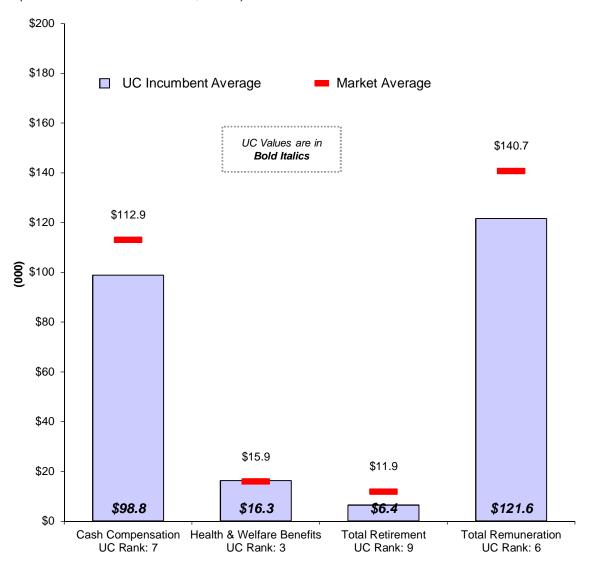




Total Remuneration in Bold Blue Italics

Study Findings: Detail by Rank Associate Professors - Market versus UC

(Data effective October 1, 2013)



Observations

- Overall, total remuneration positioning for Associate Professors is 14% below market, driven by both lower-than-market salaries and retirement values
 - Cash compensation is 13% below market
 - Health & welfare is 3% above market
 - Total retirement is 46% below market

Study Findings: Detail by Rank Associate Professors – Market versus UC

(Data effective October 1, 2013)

Observations

 Despite at market positioning for health & welfare benefits, both cash compensation and total retirement leave UC behind market overall

	Averages		Difference
Element of Remuneration	Market	UC	from Market ¹
Cash Compensation	\$112,944	\$98,804	-13%
Health & Welfare Benefits	\$15,884	\$16,328	+3%
Medical & Dental	\$14,304	\$15,553	+9%
Life Insurance ²	\$154	\$183	+19%
Dependent Care / Health Care FSA	\$233	\$214	-8%
Long-term Disability	\$616	\$378	-39%
Dependent Tuition	\$578	\$0	n/a
Total Retirement	\$11,895	\$6,434	-46%
Retirement (DB / DC)	\$10,341	\$3,724	-64%
Retiree Health (Med, Life, Dental)	\$1,554	\$2,710	+74%
Total Remuneration	\$140,723	\$121,566	-14%



² Includes pre-retirement survivor benefits.





■ Health & Welfare Benefits

Cash Compensation

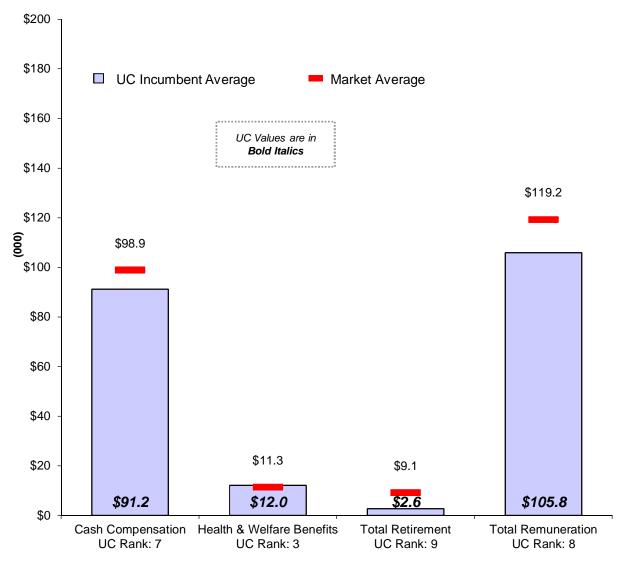
Total Remuneration in

Bold Blue Italics

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Study Findings: Detail by Rank Assistant Professors - Market versus UC

(Data effective October 1, 2013)



Observations

- Overall, total remuneration positioning for Associate Professors is 11% below market, driven by belowmarket salaries and a below-market total retirement benefit
 - Cash compensation is 8% below market
 - Health & welfare is 7% above market
 - Total retirement is 71% below market

Study Findings: Detail by Rank Assistant Professors – Market versus UC

(Data effective October 1, 2013)

Observations

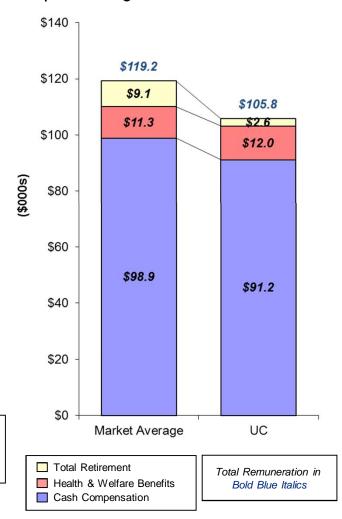
 Similar to Associate Professors, above market health & welfare is not enough to offset below market total retirement and overall total remuneration positioning

	Averages		Difference
Element of Remuneration	Market	UC	from Market ¹
Cash Compensation	\$98,855	\$91,15 5	-8%
Health & Welfare Benefits	\$11,281	\$12,038	+7%
Medical & Dental	\$10,472	\$11,687	+12%
Life Insurance ²	\$92	\$111	+21%
Dependent Care / Health Care FSA	\$191	\$175	-8%
Long-term Disability	\$249	\$65	-74%
Dependent Tuition	\$277	\$0	n/a
Total Retirement	\$9,097	\$2,624	-71%
Retirement (DB / DC)	\$8,126	\$612	-92%
Retiree Health (Med, Life, Dental)	\$970	\$2,013	+107%
Total Remuneration	\$119,233	\$105,817	-11%

¹ All positioning figures shown are rounded to the nearest whole percentage.

² Includes pre-retirement survivor benefits.





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Section 2C

Study Findings Summary of Results: 2009 versus 2014

Study Findings Summary of Observations – 2009 versus 2014

- Some significant observations on the differences between 2009 and 2014 results
 - Total remuneration for all UC LRF has remained flat, whereas the market has risen by approximately 10%
 - From 2009 to 2014, cash compensation fell further below market from 10% below to 12% below
 - The re-introduction of employee contributions for retirement benefits reduced the value of employerprovided retirement benefits dollar-for-dollar
 - Cash compensation as a percent of total remuneration has increased, for example cash compensation for UC Assistant Professors now represents 86% of total remuneration, up from 75% in the 2009 study
- The UC total remuneration mix has changed significantly between 2009 and 2014
 - The mix of UC total remuneration is defined as the percentage of the total remuneration value made up by each element; cash compensation, health & welfare and retirement benefits
 - In 2009, UC cash compensation represented 68% of total remuneration and total benefits represented 32% of total remuneration
 - In 2014, UC cash compensation increased to 78% of total remuneration, whereas total benefits decreased to 22%
 - The 2014 mix for UC's total remuneration is similar to the mix for the market
 - Findings indicate there has been a shift in UC total remuneration distribution away from benefits to cash compensation

Study Findings Summary of Observations – 2009 versus 2014

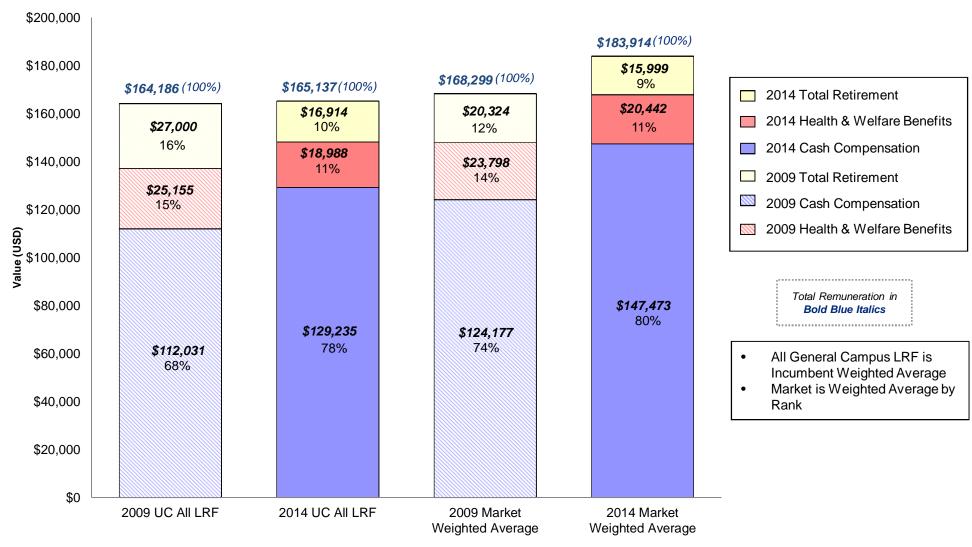
- Total benefits (total remuneration minus cash compensation) decreased from 18% above market to 1% below market
 - Changes to retirement plan designs since 2009 have reduced positioning against market
 - Total retirement decreased from 33% above market to 6% above market
 - Employee contributions to the DB plan were re-introduced after the 2009 study
 - DB plan changed eligibility to receive benefits from age 50 with 5 years of service to age 55 with 5 years of service; additionally, the targeted retirement age changed from 60 to 65
 - These changes reduced the retirement plan competitive positioning from 29% above market in 2009 to 2% lower than market in 2014
 - Retiree medical changed from 100% of maximum subsidized amount after 20 years of service to 100% of maximum subsidized amount at age 65 with 20 years of service
 - Eligibility for any subsidy changed from 10 years of service to age 55 with 10 years of service
 - Change to a flat \$3,000 for out-of-state retirees for retiree health (assumed at 10% of total retirements per UC estimate)
 - Although Mercer does not have access to the details for the Comp 8 institutions from the 2009 Study, we have observed that many institutions have continued to reduce the subsidy provided for retiree health, dental, life insurance and vision over the last five years
 - Despite the changes to the UC retiree health plan, the competitive position has improved from 2009 to 2014, which would indicate this trend is also prevalent for the Comp 8 institutions
 - Health and welfare benefits fell from 6% above market in 2009 to 7% below market in 2014
 - This was primarily caused by higher employee medical contributions at higher salary bands compared to the market

Study Findings Summary of Observations – 2009 versus 2014

- The following pages provide a graphical comparison of the change in competitive positioning since 2009
- Each stacked bar shows the value of individual components (cash compensation, health & welfare, and retirement) in 2009 and in 2014, and compared to the market in 2009 and 2014
- The change in the composition of total remuneration can be derived by comparing the percentages of total remuneration shown in each column
 - Due to rounding, percentages may not add up to 100%
 - No inflation adjustment was made to 2009 figures
- Data representative of 2009 have been collected from the 2009 Update of Total Remuneration Study for Campus & UCOP & Medical Centers report dated October 1, 2009
- Data representative of 2014 are the same as those represented in Section 2B of this report

Study Findings: 2009 versus 2014 All General Campus LRF – Pay Mix

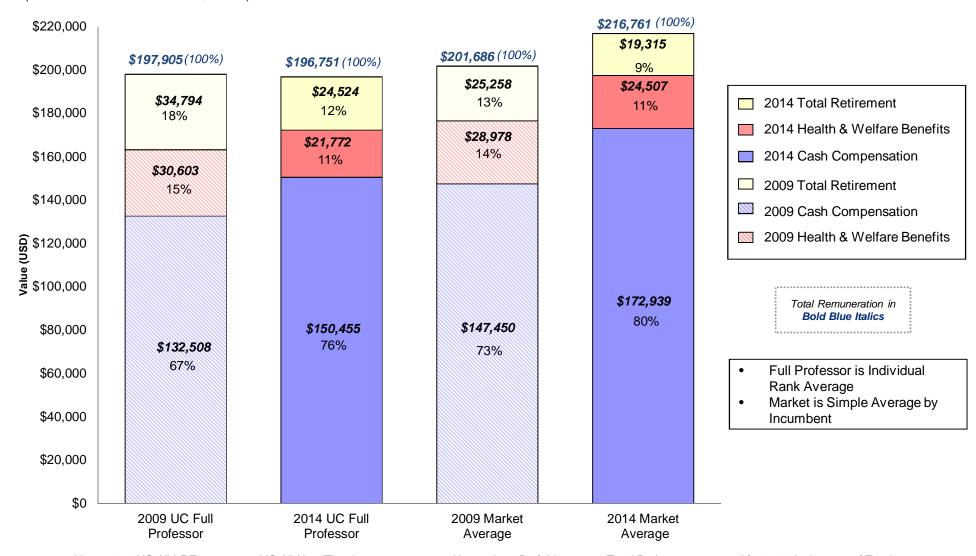
(Data effective October 1, 2013)



Note: 2014 UC All LRF represents UC All New Tier data as represented in section 2B of this report. Total Retirement reported for 2009 is the sum of Total Retirement (DB/DC), Retiree Medical and Retiree Life. 2009 data represent values found on page 35 of the 2009 Update of Total Remuneration Study for Campus & UCOP and Medical Centers dated October 1, 2009 and therefore not adjusted for inflation. Percentages may not add to 100% due to rounding.

Study Findings: 2009 versus 2014 Full Professors – Pay Mix

(Data effective October 1, 2013)

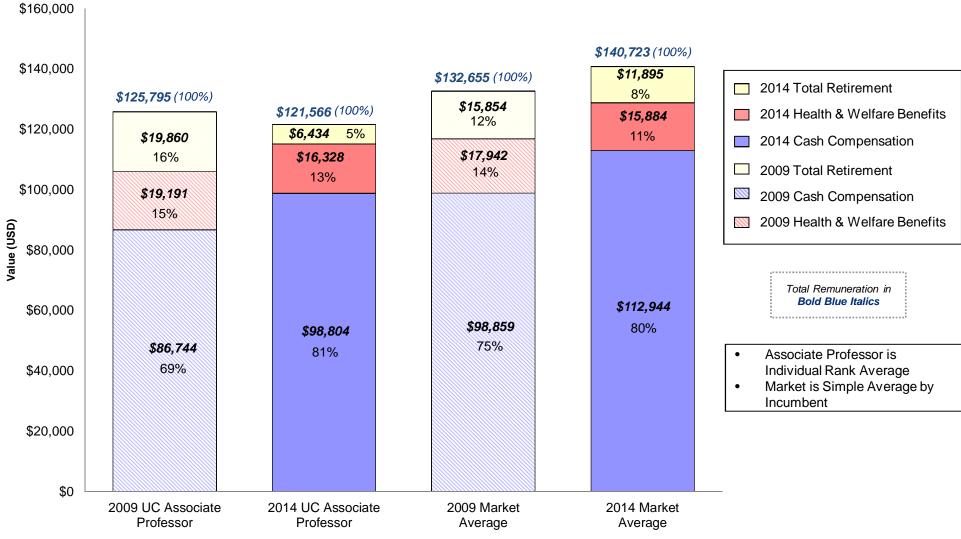


Note: 2014 UC All LRF represents UC All New Tier data as represented in section 2B of this report.. Total Retirement reported for 2009 is the sum of Total Retirement (DB/DC), Retiree Medical and Retiree Life. 2009 data represent values found on page 35 of the 2009 Update of Total Remuneration Study for Campus & UCOP and Medical Centers dated October 1, 2009 and therefore not adjusted for inflation. Percentages may not add to 100% due to rounding.

Study Findings: 2009 versus 2014 Associate Professors – Pay Mix

(Data effective October 1, 2013)

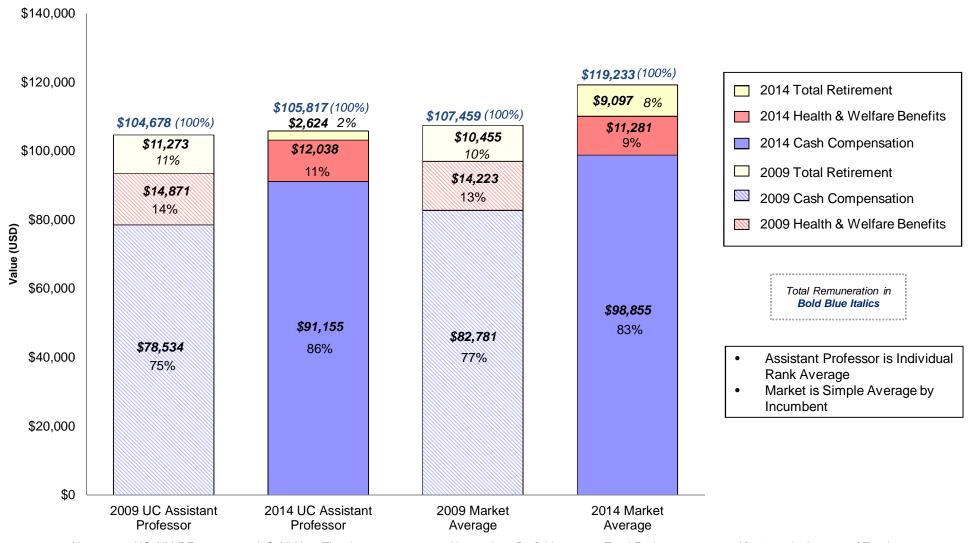
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Note: 2014 UC All LRF represents UC All New Tier data as represented in section 2B of this report.. Total Retirement reported for 2009 is the sum of Total Retirement (DB/DC), Retiree Medical and Retiree Life. 2009 data represents value found on page 35 of the 2009 Update of Total Remuneration Study for Campus & UCOP and Medical Centers dated October 1, 2009 and therefore not adjusted for inflation. Percentages may not add to 100% due to rounding.

Study Findings: 2009 versus 2014 Assistant Professors – Pay Mix

(Data effective October 1, 2013)



Note: 2014 UC All LRF represents UC All New Tier data as represented in section 2B of this report.. Total Retirement reported for 2009 is the sum of Total Retirement (DB/DC), Retiree Medical and Retiree Life. 2009 data represent values found on page 35 of the 2009 Update of Total Remuneration Study for Campus & UCOP and Medical Centers dated October 1, 2009 and therefore not adjusted for inflation. Percentages may not add to 100% due to rounding.

Section 2D

Study Findings Summary of Results: Impact of the New Tier on Total Remuneration

Background and Context

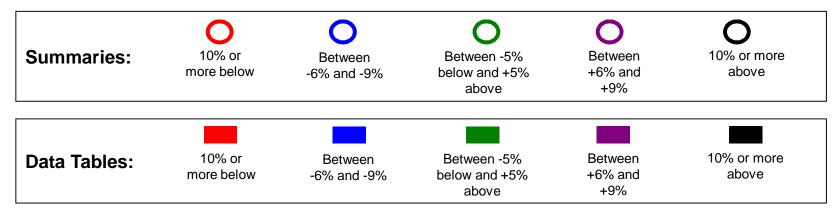
Presentation of Results

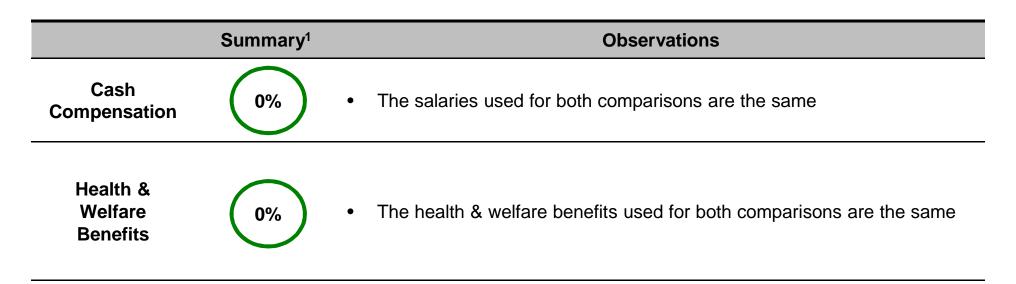
- To evaluate the effect of Post-7/2013 New Tier benefits on total remuneration, the following section has been developed to compare UC's New Tier to UC's Old Tier
 - The study takes into consideration the UC-approved increase in the defined benefit employee contribution to 8% for the Pre-7/2013 Tier, effective as of July 1, 2014
 - An evaluation of results comparing UC to both the market and the 2009 study are included in Sections 2A-C of this report
- The results are based on two separate valuations both of which include all faculty and are displayed as follows:

C	Comparison	Description / Components						
		Comparison assumes all faculty are in plans currently available to	ore-July 2013 plans ("UC Old Tier") versus all new hires ("UC New Tier")					
		What's in "UC Old Tier"	What's in "UC New Tier"					
3.	UC Old	 Salaries – as of October 2013 	 Salaries – as of October 2013 					
	Tier vs. UC New Tier	 H&W benefit design – as of January 2014 	 H&W benefits design – as of January 2014 					
		 Actual H&W benefits employee elections¹ 	 Actual H&W benefits employee elections¹ 					
		 Retirement design – Old Tier retirement plan (Pre-7/2013) 	 Retirement design – New Tier retirement plan (Post-7/2013) 					

Background and Context

- Positioning Figures (Difference from UC Old Tier)
 - The positioning figures (or differences) shown in this section are based on the following formula:
 - [(UC New Tier UC Old Tier)/UC Old Tier]
 - Figures been rounded to the nearest whole percentage
 - The results labeled "UC New Tier" in this section are the same as results labeled as "UC" in section
 2B
 - Colors have been used to represent varying degrees of positioning as follows:





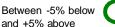
¹ All figures shown have been rounded to the nearest whole percentage.





Between -6% and -9%













	Summary ¹	Observations
Retirement Benefits (DB)	-16%	 All New Tier retirement benefit values are lower than Old Tier due to the changes in plan design The most significant changes to design that reduce the values include: Removing inactive COLA for separation benefits Changing the targeted retirement age assumptions from 60 to 65 Increasing the minimum retirement age from age 50 to 55 Offsetting these factors, the New Tier benefit requires a lower employee contribution (7%) than the Old Tier (8%) Earlier career ranks are more significantly impacted by the elimination of COLA for separation benefits and the change in retirement ages

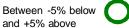
¹ All figures shown have been rounded to the nearest whole percentage.

















	Summary ¹	Observations
Retiree Health (Medical, Life, Dental)	-23%	 All New Tier retiree health is lower than Old Tier, primarily due to: Changing retiree health eligibility requirements from service to age and service Change to a flat \$3,000 for out-of-state retirees for retiree health (assumed at 10% of total retirements per UC estimate) Delayed eligibility for maximum benefits, from 20 years of service to age 65 and 20 years of service The impact of these changes is greater on the associate and assistant professor ranks
Total Retirement (Includes Retirement Benefits and Retiree Medical, Life & Dental)	-17%	 All New Tier total retirement is lower than Old Tier given combined changes that have lowered values compared to the previous plan design The impact of these changes is greater on the associate and assistant professor ranks mainly due to the fact that many full professors are already eligible for benefits in both scenarios

¹ All figures shown have been rounded to the nearest whole percentage.







Between -5% below and +5% above







Summary¹ **Observations** While the impact of the New Tier on total retirement varies by rank, the impact on total remuneration is almost the same for all ranks **Total** This reflects the proportion retirement values represent of total Remuneration remuneration Cash compensation, which is unchanged, still represents the majority of total remuneration value

¹ All figures shown have been rounded to the nearest whole percentage.





Between -6%



Between -5% below and +5% above







Study Findings: Impact of New Tier on Total Remuneration All General Campus LRF – UC Old Tier versus UC New Tier

(Data effective October 1, 2013)

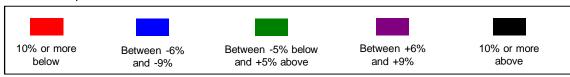
Observations

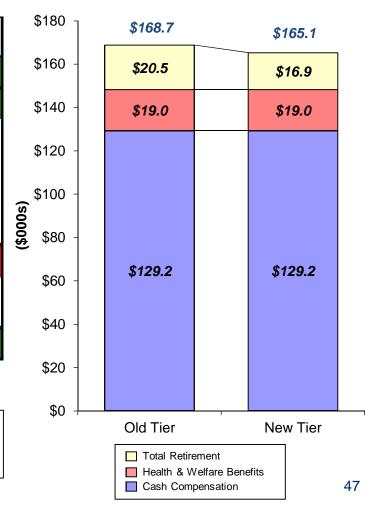
 Changes to retirement plans have contributed to lower values in the current programs, and have resulted in overall lower total remuneration positioning

_	UC Aver	ages	Difference from
Element of Remuneration	Old Tier	New Tier	Old Tier ¹
Cash Compensation	\$129,235	\$129,235	0%
Health & Welfare Benefits	\$18,988	\$18,988	0%
Medical & Dental	\$17,717	\$17,717	0%
Life Insurance ²	\$332	\$332	0%
Dependent Care / Health Care FSA	\$180	\$180	0%
Long-term Disability	\$759	\$759	0%
Dependent Tuition	\$0	\$0	n/a
Total Retirement	\$20,483	\$16,914	-17%
Retirement (DB)	\$16,448	\$13,808	-16%
Retiree Health (Med, Life, Dental)	\$4,036	\$3,107	-23%
Total Remuneration	\$168,706	\$165,137	-2%

¹ All positioning figures shown are rounded to the nearest whole percentage.

² Includes pre-retirement survivor benefits.





Study Findings: Impact of New Tier on Total Remuneration Full Professors – UC Old Tier versus UC New Tier

(Data effective October 1, 2013)

Observations

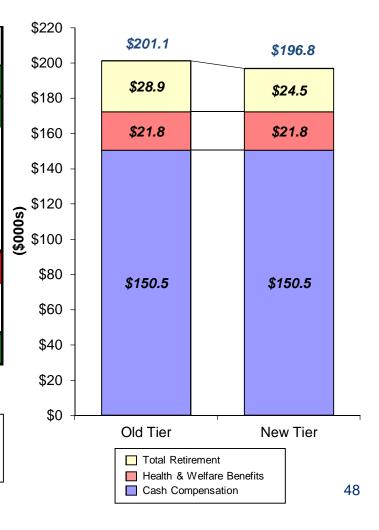
 Changes to retirement plans have contributed to lower values in the current programs, and have resulted in overall lower total remuneration positioning

_	UC Averages			
Element of Remuneration	Old Tier	New Tier	Old Tier ¹	
Cash Compensation	<i>\$150,455</i>	\$150,45 5	0%	
Health & Welfare Benefits	\$21,772	\$21,772	0%	
Medical & Dental	\$20,079	\$20,079	0%	
Life Insurance ²	\$444	\$444	0%	
Dependent Care / Health Care FSA	\$169	\$169	0%	
Long-term Disability	\$1,080	\$1,080	0%	
Dependent Tuition	\$0	\$0	n/a	
Total Retirement	\$28,850	\$24,524	-15%	
Retirement (DB)	\$24,434	\$20,987	-14%	
Retiree Health (Med, Life, Dental)	\$4,416	\$3,537	-20%	
Total Remuneration	\$201,078	\$196,751	-2%	

¹ All positioning figures shown are rounded to the nearest whole percentage.

² Includes pre-retirement survivor benefits.





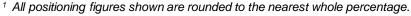
Study Findings: Impact of New Tier on Total Remuneration Associate Professors – UC Old Tier versus UC New Tier

(Data effective October 1, 2013)

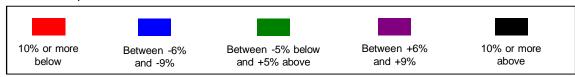
Observations

 Delayed retirement eligibility and removal of COLA from separation benefit had a significant impact to retirement values at this rank, and have resulted in overall lower total remuneration positioning

	UC Aver	ages	Difference from
Element of Remuneration	Old Tier	New Tier	Old Tier ¹
Cash Compensation	\$98,804	\$98,804	0%
Health & Welfare Benefits	\$16,328	\$16,328	0%
Medical & Dental	\$15,553	\$15,553	0%
Life Insurance ²	\$183	\$183	0%
Dependent Care / Health Care FSA	\$214	\$214	0%
Long-term Disability	\$378	\$378	0%
Dependent Tuition	\$0	\$0	n/a
Total Retirement	\$9,286	\$6,434	-31%
Retirement (DB)	\$5,485	\$3,724	-32%
Retiree Health (Med, Life, Dental)	\$3,800	\$2,710	-29%
Total Remuneration	\$124,418	\$121,566	-2%



² Includes pre-retirement survivor benefits.





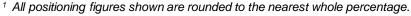
Study Findings: Impact of New Tier on Total Remuneration Assistant Professors – UC Old Tier versus UC New Tier

(Data effective October 1, 2013)

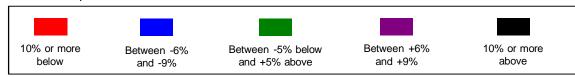
Observations

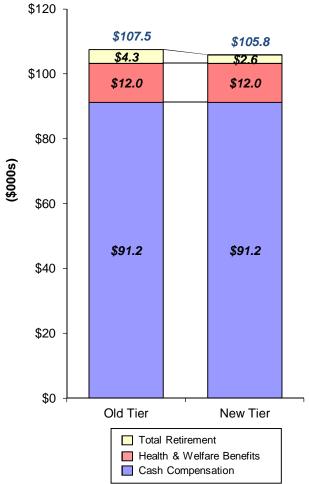
 Delayed retirement eligibility and removal of COLA from separation benefit had a significant impact to retirement values at this rank, resulting in the lowest overall total retirement positioning among the three faculty ranks

	UC Aver	Difference from	
Element of Remuneration	Old Tier	New Tier	Old Tier ¹
Cash Compensation	\$91,155	\$91,155	0%
Health & Welfare Benefits	\$12,038	\$12,038	0%
Medical & Dental	\$11,687	\$11,687	0%
Life Insurance ²	\$111	\$111	0%
Dependent Care / Health Care FSA	\$175	\$175	0%
Long-term Disability	\$65	\$65	0%
Dependent Tuition	\$0	\$0	n/a
Total Retirement	\$4,292	\$2,624	-39%
Retirement (DB)	\$1,396	\$612	-56%
Retiree Health (Med, Life, Dental)	\$2,897	\$2,013	-31%
Total Remuneration	\$107,485	\$105,817	-2%



² Includes pre-retirement survivor benefits.





Section 4A

Appendix A Methodology Overview

Methodology Overview Cash Compensation

Cash Compensation

- For general campus LRF included in the study, all incumbent data were provided to Mercer by Academic Personnel and include faculty salary increases effective July 2013
 - July 1, 2014 salary increases were not included because we had insufficient notice to model them
- Data for general campus LRF include on-scale, off-scale and above-scale salary; all other cash compensation was excluded
 - Academic year pay rate was used for analyses
 - If a faculty member is on a fiscal year pay rate then the following conversion equation was used: 0.86 * fiscal year pay rate = academic year pay rate, where 0.86 = 1/1.16

Cash Compensation Elements

Included

- Ongoing Cash Compensation
 - On-scale, off-scale and above-scale salary

Not Included^{1,2}

- Stipends
- Summer Salary
- Faculty Recruitment Allowances (relocation)
- Honoraria and Awards

These forms of additional compensation are generally not a part of ongoing compensation and payment for services performed but are used to offset expenses (e.g., relocation), or are temporarily given for additional responsibilities. These items are not included in regular competitive cash compensation surveys.

² These data are excluded for both UC and the Comparison 8 institutions.

Methodology Overview Cash Compensation

Cash Compensation Market Data

- Market data were provided by Academic Personnel and represent the 2013-14 academic year salaries (or estimate) of the Comp 8 institutions, using a traditional methodology as specified in an agreement between UC and the former California Postsecondary Education Commission (CPEC)
- The average salary by faculty rank across all Comparison 8 institutions was provided as follows:

Full Professor: \$172,939

Associate Professor: \$112,944Assistant Professor: \$98,855

- Additional commentary regarding Comparison 8 market data
 - Averages were not adjusted for cost of living
 - Averages weighted by CPEC methodology as outlined on the next page
 - Cash compensation data for Stanford and Yale were not available
 - As such, average salaries for 2013-2014 for these two institutions were estimated by multiplying the 2012-13 salaries by the average of the percentage increases in the 2010-11, 2011-12, and 2012-13 academic years

Methodology Overview Cash Compensation

Cash Compensation Market Data (continued)

- The market composite positioning included in this report differs slightly from comparable figures that have been reported by Academic Personnel using the "traditional methodology" as specified in an agreement between UC and the former California Postsecondary Education Commission
 - The differences were accounted for by three factors:
 - First, the traditional methodology includes adjustments (weightings by rank) in the generation of a final composite salary average for UC; the UC average is generated by weighting the Comp 8 (Market) staffing pattern by rank by 25% and UC's own staffing pattern by rank by 75%
 - The weightings are used because UC has a higher proportion of full professors than the Comp 8;
 the Comp 8 has a higher proportion of assistant and associate professors than UC
 - Second, the traditional methodology involves calculations using only summary data of total salary and FTE (full-time equivalency) by rank for the Comp 8, while the UC averages derived in this report use data sets containing records of individual faculty with salaries adjusted to full-time academic-year rates
 - Third, the traditional methodology calculates a lag based on the formula (Market UC)/UC; the market positioning figures provided in this report are based on the formula (UC Market)/Market

Methodology Overview Benefits Study Elements

Elements of benefits include employer-funded value of:

Health & Welfare Benefits¹

Included

- Medical and Dental
- Life Insurance, including supplemental life³
- Long-term Disability (LTD)
- Flexible Spending Accounts
- Vision
- Dependent Tuition Reimbursement

Not Included²

- Hearing
- Long-term Care
- Employee Education Assistance
- Other work/life benefits (e.g., wellness programs, onsite fitness facility, etc.)

Retirement Benefits

Included

- Defined Benefit Plans
- Defined Contribution Plans
- Retiree Medical and Life Insurance
- 1 Benefits included are those that have substantial value and which can be fairly compared.
- Not included since values of these benefits are either not material for the entire population or complete competitive valuation data were not readily available. Additional forms of direct compensation and government-required programs are not included. The following items are also not valued: severance pay, supplemental unemployment benefits, travel accident, optional individual accident coverage, matching donations, meals or meal allowances, work and family benefits, bereavement leave, jury leave, or other types of leave which are viewed as providing a relatively immaterial additional value for the population as a whole.
 - 3 Life insurance includes pre-retirement survivor benefits.

- Benefits valuation methodology is similar to the one used in both the 2007/2008 Study and 2009 Update
- Benefits are being valued based on:
 - The Comp 8 Peer Group
 - 2014 benefit plan provisions¹
- In valuing the benefit programs for each Comparison 8 institution, the compensation for benefit purposes was determined by the following formula:
 - [(Institution A, Full Professor average market salary / UC Full Professor average salary) * UC employee salary]
- The following pages provide a summary of valuation methodologies by benefit categories
 - Appendices B D specify the approach for each benefit element and any associated caveats

¹ 2014 benefit plan provisions have been used for all institutions with the exception of the employee contribution to Yale's post-65 medical retiree plan, which could not be confirmed in time for this study. It has been assumed that the current post-65 retiree medical plan is 100% employee paid based upon the fact that no subsidy was reported in 2013.

For Health & Welfare Benefits:

- Study estimates the replacement value of benefits to a new hire, not the cost of benefits
- Values reflect as close a substitution as possible to the benefit provided by the employer
 - For example, it has been assumed that employees will replace their life insurance benefits with the same amount of coverage
- Values for health care plans are calculated assuming that all employees participate in the plans offered, even when they are voluntary
- Values for health care plans are based upon actual employee elections
- Health plan participation is based on actual employee election data
 - For employees without reported or missing elections coverage, UC has provided faculty medical plan enrollment and premiums by pay band as of 1/1/2014
 - Mercer used these data to determine the percentages within each medical election level by pay band and then applied those percentages to employees with missing medical election coverage (e.g., valuation will be weighted based on proportion of other faculty within each medical level)
 - See Appendix B for table of election assumptions
- Results for UC are displayed in two ways:
 - Post 7/2013 benefits for all faculty members regardless of actual eligibility
 - Benefits programs based on current tier for each faculty member
 - Assumption: in Pre-7/2013 versus Post-7/2013 all benefits and cash compensation remain the same except for DB and Retiree Medical (in order to show the effect of the change in the plans)

For Health & Welfare Benefits (continued):

- The employer-provided value of healthcare benefits for active employees is calculated based on the
 equivalent value of expected claims net of deductible, employee-paid coinsurance, and employee-paid
 co-pays (maximums and out-of-pocket limits reflected in value)
- Disability benefits payable from defined benefit retirement plans are valued as part of the long-term disability benefit
- Pre-retirement survivor benefits are included in the life insurance values
- Employer paid value is defined as the total benefit value minus employee contributions
- Includes vision and life insurance for retirees
- Optional employer subsidized life insurance and long-term disability plans are valued
- Value of long-term disability is net of social security offset and with social security eligibility assumed at 100%
- We have assumed 100% participation in 100% employer paid health and welfare programs
- Participation in optional employer partly paid programs is based on assumptions outlined in the Appendices

For Defined Benefit Retirement Plans:

- Calculated using the Projected Unit Credit method
 - Projected Unit Credit is an actuarial methodology that calculates the present value of the benefit earned as a result of the current year of service under the plan's benefit formula using expected service as of the valuation date and pay that is projected to retirement
- Expected retirement benefits payable at retirement age are valued
- Separation benefits payable from retirement plans are also included
 - Decrements are applied to reflect the likelihood of termination prior to retirement
- Post-retirement survivor benefits are included in the defined benefit values
- We assume new hire plans; grandfathered plans were not included
 - If new hires have a choice between defined benefit and defined contribution, we assume defined contribution
- Key assumptions were based on the actuarial assumptions used by the Regents' actuary (Segal) for UCRP
- Salary increase is a flat 4% annual rate as in the 2009 study
 - Differs from assumptions used by Segal in the actuarial valuation
- Plans available to new hires are valued
- Grandfathered and frozen plans at Comp 8 are excluded
- For UC, post 7/2013 tier plans are included in the comparison against the Comp 8
 - A comparison of pre 7/2013 versus post 7/2013 plans has also been included
- UC's retirement assumptions for faculty were used on both UC and any Comparator 8 plans
 - Based on UC experience and expected experience documented in Appendix C

For Defined Contribution Benefits:

- Defined contribution plan values include employer contributions to 401(k), 403(b) and after-tax savings
- We assume new hire plans; grandfathered plans were not included
 - If new hires have a choice between defined benefit and defined contribution, we assume defined contribution
- Employer contributions to any other defined contribution plan such as profit sharing, money purchase pension and noncontributory savings are also included
- For voluntary matched savings plans, it is assumed employee plan participation and contributions vary by pay level
 - Participation is based on an agreed to schedule of participation and contribution rates using compensation and level of match, or compensation and maximum matched employee contribution percentage
 - Full employer non-matching contributions have been included
- Employer contribution adjusted for age/service eligibility and future non-vested termination

For Retiree Medical Benefits:

- Calculated using the Projected Unit Credit method
- Generic claims distribution and utilization data are used
- Retiree contributions are subtracted
- Medicare Part B reimbursement by employer is valued when provided
- For UC faculty, UC's retirement assumptions for faculty were used
 - Based on UC experience and expected experience documented in Appendix B
- The product of age and service factors are used to determine the percentage of the employer subsidy earned toward the cost of retiree health benefits
 - The factors are applied as follows:
 - Age 56 (10%) up to age 65 (100%) at 10% increments per year; and
 - Ten years of service (50%) up to 20 years (100%) at 5% increments per year
 - Full benefit earned at age 65 (100%) with 20 years of service (100%)
 - For example:
 - At age 56 with 10 years of service, the factor is 5% (10% x 50%)
 - At age 60 with 15 years of service, the factor is 37.5% (50% x 75%)

For Retiree Medical Benefits (continued):

- Maximum UC contribution is modeled out to 2018 (70% non-Medicare Exchange/70% Medicare Exchange of blended premiums) for general campus LRF
- Key assumptions were based on the actuarial assumptions used by the Regents' actuary for UCRP
- Salary increase is a flat 4% annual rate as in the 2009 study
 - Differs from assumptions used by Segal in the actuarial valuation
- Plans available to new hires are valued
- Grandfathered and frozen plans at Comp 8 are excluded
- It is assumed that all employees are covered by the Post-7/2013 tier provisions
 - Actual provisions for each employee, based on date of hire, are used when comparing Pre- and Post-7/2013 tier plans

Section 4B

Appendix B Assumptions for the Valuation of Benefits: Health & Welfare

Assumptions for the Valuation of Benefits Life Insurance – Active Employees

• For this study, the benefits values were estimated using the following approaches:

		One-year term cost								
	Value of employer-paid life insurance and optional life insurance; Mercer added optional life using									
Total Danaft Value	· · · · · · · · · · · · · · · · · · ·									
Total Benefit Value	participation methodology as indicated below. Mercer used own rates since 2009 Aon Hewitt									
	assumptions are not available.									
	Varies by pay le									
	Pay Range	·	< \$43,000			\$43,000 - \$62,999			\$63,000 - \$82,99	9
	Optional Life Insurance	Male		6%	Male	79		Male		2%
	Population (% of Total)	Female	5	0%	Fem ale	50	* *	Female	50	0%
		Multiple of Pay	Participation	Cumulative Participation	Multiple of Pay	Participation	Cum ulative Participation	Multiple of Pay	Participation	Cum ulati Participati
		First 2x	70.0%	1.40	First 2x	80.0%	1.60	First 2x	90.0%	1.80
	Optional Life Insurance	Next 1x	56.0%	1.96	Next 1x	64.0%	2.24	Next 1x	72.0%	2.52
	Participation	Next 1x	28.0%	2.24	Next 1x	32.0%	2.56	Next 1x	36.0%	2.88
		Next 4x	7.0%	2.52	Next 4x	8.0%	2.88	Next 4x	9.0%	3.24
		Next 2x	1.5%	2.55	Next 2x	1.5%	2.91	Next 2x	2.0%	3.28
	Additional 1x 1.4% Additional 1x 1.5% Additional 1x 1.8%									
	Pay Range	Pay Range \$83,000 - \$103,999					\$104,000 - \$126,999 \$127,000 - \$146,999			
	Optional Life Insurance			Male			Male 91%			
	Population (% of Total)	Female	5	0% Cumulative	Female Multiple of	60	% Cumulative	Female Multiple of	70	0% Cum ulati
Optional Life Insurance Participation ¹		Multiple of Pay	Participation	Participation	Pay	Participation	Participation	Pay	Participation	Participati
Optional Life insulance ranticipation		First 2x	100.0%	2.00	First 2x	100.0%	2.00	First 2x	100.0%	2.00
	Optional Life Insurance	Next 1x	80.0%	2.80	Next 1x	84.0%	2.84	Next 1x	88.0%	2.88
	Participation	Next 1x	40.0%	3.20	Next 1x	52.0%	3.36	Next 1x	64.0%	3.52
		Next 4x	10.0%	3.60	Next 4x	28.0%	4.48	Next 4x	46.0%	5.36
		Next 2x Additional 1x	2.0% 2.0%	3.64	Next 2x Additional 1x	21.5% 21.4%	4.91	Next 2x Additional 1x	41.0% 41.0%	6.18
		Additional IX	2.076		Additional 1X	21.470		Additional 1X	41.076	
	Pay Range	\$	147,000 - \$188,999		\$189,000 - \$209,999			\$210,000 +		
	Optional Life Insurance	Male		4%	Male		%	Male		0%
	Population (% of Total)	Female	8	0% Cumulative	Fem ale	90	% Cumulative	Female	10	00% Cum ulati
		Multiple of Pay	Participation	Participation	Multiple of Pay	Participation	Participation	Multiple of Pay	Participation	Participati
		First 2x	100.0%	2.00	First 2x	100.0%	2.00	First 2x	100.0%	2.00
	Optional Life Insurance	Next 1x	92.0%	2.92	Next 1x	96.0%	2.96	Next 1x	100.0%	3.00
	Participation	Next 1x	76.0%	3.68	Next 1x	88.0%	3.84	Next 1x	100.0%	4.00
		Next 4x	64.0%	6.24	Next 4x	82.0%	7.12	Next 4x	100.0%	8.00
		Next 2x Additional 1x	61.0% 60.0%	7.46	Next 2x Additional 1x	81.0% 80.0%	8.73	Next 2x Additional 1x	100.0% 100.0%	10.00
		Additional 1X	00.076	ļ	Additional 1X	55.076		Additional 1X	100.076	
Employer-paid Benefit Value	Total Benefit Va	lue less em	ployee co	ntributions	required	d for option	nal life ins	surance		
- Inproy or paid Doriont Value		Mercer does not value as a standard benefit. Mercer developed premium rates and used Life Insurance								
Employer AD&D and continuation upon disabi	Mercer does no	t value as a	standard	benefit. M	ercer dev	eloped pr	emium ra	ites and	used Life	Insurar

¹ Optional Life Insurance Participation table as provided by Aon Hewitt in January 14, 2009 Hewitt Benefit Index Valuation Methodology and Assumptions for University of California Total Remuneration Study Memo.

Assumptions for the Valuation of Benefits Life Insurance – Future Retirees

• For this study, the benefits values were estimated using the following approaches:

2. Life Insurance: Future Retirees						
Actuarial Cost Method	Use projected unit credit methodology consistent with 2009 study					
Key Economic Assumptions	7.5% discount rate; 4.0% salary increase					
Assumed Retirement Age	Mercer used rates assumed for DB plan (see page 66)					
Benefit Value	Service Cost					

Assumptions for the Valuation of Benefits Health Care Benefits – Active Employees

• For this study, the benefits values were estimated using the following approaches:

Health Care Benefits: Active Employees									
Total Benefit Value ^{1,2}	Equivalent of expected claims net of deductible, employee-paid coinsurance, and employee-paid copays								
Total Deficill Value	(maximums and out-o	f-pocket lin	nits reflected	in value)					
Employer-paid Value	Total benefit value min	us employ	ee contribution	ons					
Employee Coverage Election Assumptions	Mercer used actual ele	ections by	employee as	provided b	y UC benef	fits team as	opposed to standard		
Employee Coverage Election Assumptions	percentage assumption	ns across	elections						
Dion Weighting	If institution offers mor	e than one	plan, each p	lan was se	parately val	lued and we	eighted by employee		
Plan Weighting	elections to determine	actual valu	ue for the stu	dy					
Flexible Benefit Dollars	If institution provides fl	exible bene	efit dollars; e	mployee co	ontribution e	equals plan	price tag minus employer		
riexible beliefit Dollars	provided flex dollars								
Vision Benefits	Used Mercer methodo	logy (see p	page 59)						
Hearing Benefits	Not included in value a	as Mercer i	s unable to v	alue hearin	g benefits a	and benefit i	s nominal		
	UC provided faculty medical plan enrollment and premiums by pay band as of 1/1/2014. Mercer used								
	these data to determine the percentages within each medical election levels by pay band and then								
	applied that percentage to employees with blank medical election coverage (e.g., valuation was								
	weighted based on proportion of other faculty within each medical level).								
			Medical Election						
Employees without Elections		Medical	Employee	EE +	EE +				
, ,	Pay Band	Plan	Only	Child	Spouse	Family			
	<\$51,000	Kaiser	64.4%	5.7%	12.9%	17.0%			
	\$51,000 - \$101,000	HNBG	40.3%	11.0%	13.9%	34.7%			
	\$101,000 - \$151,000	UC Care	30.1%	12.2%	15.5%	42.3%			
	>\$151,000	UC Care	26.7%	7.1%	29.0%	37.1%			

¹ Medical benefits vary based on the plan each faculty member chooses.

Claims data differ for those using HMO plans versus PPO plans. Differences in claims data were incorporated into the individual analyses for the UC population.

Assumptions for the Valuation of Benefits Health Care Benefits – Future Retirees

• For this study, the benefits values were estimated using the following approaches:

Actuarial Cost Method	Used projected unit credit methodology consistent with 2009 study					
Key Economic Assumptions	7.5% discount rate; 4.0% salary increase					
	Non-Medicare (HMO & PPO): 7.5% reducing 0.2% per year to 5% after 2028					
	Medicare (HMO): 8.5% reducing 0.25% per year to 5% after 2028					
	Medicare (PPO): 7.5% reducing, reducing to 7% after one year, then 0.2% per year until 5.6% in 2023;					
Health Care Trend	then reducing 0.1% per year until 5% for all future years after 2028					
Health Care Hend	Part B Premium: 6.8% reducing 0.2% per year until 6% in 2019; then reducing 0.1% per year until 5%					
	for all future years after 2028					
	Dental: 5% per year					
	Wellness: Constant for one year; then increasing by 3% per year thereafter					
Assumed Retirement Age	Mercer used rates assumed for DB plan (see page 66)					
Benefit Value	Mercer valued the benefit as medical plan less the employee contributions					
Employee Coverage Election Assumptions	Employee Only: 55%, Employee + spouse: 45%					
Benefit Value Adjustment	Adjusted to reflect service eligibility					
Other	Post-65 value reflects coordination with Medicare and are net of Medicare; Mercer removed 2.5% post-					
Offici	retirement aging factor					
Vision Benefits	Used Mercer methodology (see page 59)					
Hearing Benefits	Not included in value as Mercer is unable to value hearing benefits and benefit is nominal					

Assumptions for the Valuation of Benefits Long-Term Disability

• For this study, the benefits values were estimated using the following approaches:

Long-term Disability									
Actuarial Cost Method	One-year term cost								
Other Components	Includes payments made after the first six months of disability regardless of source								
Total Benefit Value	Net of social security offset; assumes 100% eligibility								
Employer-paid Value	Total value minus employee contributions								
	Value of contributory plans reduced to reflect less than 100% participation; Mercer used assumptions as outlined below:								
	Pay Range <\$43,000 - \$62,999 \$63,000 - \$82,999								
	Contibutory LTD Participation Male 92% Male 93% Male 94%								
	(% of Total) Female 38% Female 46% Female 52%								
Participation Assumption ¹	Pay Range \$83,000 - \$103,999 \$104,000 - \$126,999 \$127,000 - \$146,999								
	Contibutory LTD Participation Male 95% Male 96% Male 97%								
	(% of Total) Female 60% Female 68% Female 76%								
	Pay Range \$147,000 - \$188,999 \$189,000 - \$209,999 \$210,000 +								
	Contibutory LTD Participation Male 98% Male 99% Male 100%								
	(% of Total) Female 84% Female 92% Female 100%								
_	If company offers more than one plan, each plan was separately valued and weighted by employee								
Plan Weighting	elections to determine actual value for study; Mercer weighted additional plans based on participation								
5 5	assumptions as outlined above.								

¹ Participation Assumption table as provided by Aon Hewitt in January 14, 2009 Hewitt Benefit Index Valuation Methodology and Assumptions for University of California Total Remuneration Study Memo.

Assumptions for the Valuation of Benefits Vision Benefits

Assumptions:

- All covered get exams
- 50% of adults elect to get contacts, 25% of children
- 50% of children require frames/lenses or contacts
- 50% of adults ages 20 40 require frames/lenses or contacts
- 70% of adults ages 41 50 require frames/lenses or contacts
- 85% of adults ages 50+ require frames/lenses or contacts
- Each of the below pieces are weighted based on assumed utilizations to create total value:
 - Value of frames/lenses for each covered family member = [(average cost of exam copay) + (average cost of frames up to maximum covered copay)] / [(years between new frames) + (average cost of lenses up to maximum covered Copay)] Deductible times coinsurance
 - Value of contacts for each covered family member = [(average cost of exam copay) + (average cost of contacts up to maximum covered copay)] Deductible times coinsurance
 - Value of Laser for each covered family member = [(average cost of exam copay) + (average cost of laser up to maximum covered copay)] Deductible times coinsurance

Section 4C

Appendix C Assumptions for the Valuation of Benefits: Retirement

Assumptions for the Valuation of Benefits Retirement

• For this study, the retirement values were estimated using the following approaches:

Retirement Item	Pre 7/2013 Methodology	Post 7/2013 Methodology
1. Defined Benefit Pension		
Actuarial Cost Method	Projected Unit Credit (PUC)	Projected Unit Credit (PUC)
Key Economic Assumptions	7.5% discount rate; 4.0% salary increase	7.5% discount rate; 4.0% salary increase
Assumed Retirement Age	The UC Pre 7/2013 tier calculations use the Pre 7/2013 assumptions as	Both the UC and Comp 8 Post 7/2013 tier calculations use the Post 7/2013
Assumed Remember Age	detailed on page 68	assumptions as detailed on page 68
Benefit Value	Service Cost	Service Cost
2. Defined Contribution (non-401k)		
		Employer contribution adjusted for age/service eligibility and future non-vested
Benefit Value	termination. Participation in plan varies by salary and match rate	termination. Participation in plan varies by salary and match rate
Deficit value	Age/service eligibility adjustment	Age/service eligibility adjustment
	Future non-vested termination adjustment	Future non-vested termination adjustment
3. Defined Contribution (401k)		
	Employer contribution adjusted for age/service eligibility and future non-vested	Employer contribution adjusted for age/service eligibility and future non-vested
Benefit Value	termination. Participation in plan varies by salary and match rate	termination. Participation in plan varies by salary and match rate
Bellent Value	Age/service eligibility adjustment	Age/service eligibility adjustment
	Future non-vested termination adjustment	Future non-vested termination adjustment
4. Pension Survivor Income		
Actuarial Cost Method	Projected Unit Credit	Projected Unit Credit
Key Economic Assumptions	7.5% discount rate; 4.0% salary increase	7.5% discount rate; 4.0% salary increase
Benefit Value	Service Cost	Service Cost

Assumptions for the Valuation of Benefits Pension Summary

	Pre 7/2013 Assumptions	Post 7/2013 Assumptions	
Eligibility for Plan Membership	Immediate	Immediate	
Highest Average Plan Compensation (HAPC)	Highest average salary rate over any consecutive 36 month period; salaries limited by IRC 401(a)(17)	Highest average salary rate over any consecutive 36 month period; salaries limited by IRC 401(a)(17)	
Social Security Covered Compensation (SSCC)			
Basic Benefit Formula	Benefit payable at age 60: 2.5% (HAPC less \$133) x service up to 40 years (For members with Social Security, HAPC is reduced by \$133 to account for the University's contribution to	Benefit payable at age 65: 2.5% x HAPC x service up to 40 years. Maximum benefit is the IRS maximum	
	Social Security) 415(m) plan pays excess above IRC 415(b)	415(m) plan pays excess above IRC 415(b)	
Maximum Accrual Factor	2.5% * HAPC (less \$133 if W/SS)	2.5% HAPC	
Maximum Benefit	100% HAPC (less \$133 if W/SS); subject to IRS limits	100% HAPC; subject to IRS limits	
Form of Payment	Annuity or lump sum cash out	Annuity only (no lump sum cash out)	
Subsidized Survivor Benefits	Yes	No	
Post-Retirement COLA	100% of first 2% of inflation; 0% on next 2% of inflation; 75% on amounts over 4% of inflation (maximum 6% per year) Valuation assumption is 2% per year	100% of first 2% of inflation; 0% on next 2% of inflation; 75% on amounts over 4% of inflation (maximum 6% per year) Valuation assumption is 2% per year	

Assumptions for the Valuation of Benefits Pension Summary

	Pre 7/2013 Assumptions	Post 7/2013 Assumptions
Early Retirement Benefits		
Eligibility for Retirement Benefits	Age 50 with 5 or more years of UCRP service credit	Age 55 with 5 or more years of UCRP service credit
Accrued Benefit Reduction	5.6% per year between age 50 and age 60	5.6% per year between age 55 and age 65
Social Security Supplement (if W/SS)	Temporary annuity of 2.5%* \$133 * UCRP service credit * early retirement reduction factor to age 65	None
Eligibility	5 years	5 years
Vested Benefit	Accrued Benefit	Accrued Benefit
	Cost of living adjustments (COLA) apply to highest average pay during deferral period COLA = lessor of actual inflation or 2% compounded annually during deferral period	No COLA during deferral period
Disability		
Eligibility	2 years	5 years
Disability Income Benefit (prior to retirement crossover date)	Percent of monthly final salary as of disability date, based on years of service as of disability date credit minus a reduction for Social Security benefits (\$106.40) (Percent ranges from 15% at 2 years to 40% at 12 or more years)	Percent of monthly final salary as of disability date, based on years of service as of disability date credit (Percent ranges from 13.1% at 5 years service to 25% at 12 or more years)
	Payments begin at disability and end at a retirement crossover date	Payments begin at disability and end at a retirement crossover date
	Cost of living adjustments begin 1 year after payments commence COLA = same as post-retirement COLA	Cost of living adjustments begin 1 year after payments commence COLA = same as post-retirement COLA

Assumptions for the Valuation of Benefits Pension Summary

	Pre 7/2013 Assumptions	Post 7/2013 Assumptions
Employee Contribution	on	
Current	8% as of July 2014	7% of pay (no \$228 offset)
Baseline Assumption (u	used for current UCRP valuation)	
	Pretax	Pretax
Survivor Benefits	 \$7,500 lump sum death benefit, regards of member's age or retirement status or eligibility at death Pre-Retirement Deaths: 2 years of service credit, but prior to early retirement eligibility: 25% of final salary, less \$106.40 reduction for SS Benefits after 3 months, to eligible child or age 60+ spouse* While eligible to retire: 50% (w/o SS) or 25% (w/SS) of members basic retirement income (BRI) at death plus remaining 50% (w/o SS) or 75% (w/ SS) of BRI converted to J&S 100% form payable to surviving spouse or domestic partner as the only contingent annuitant, as if member retired on date of death. For member's w/SS, there is also the temporary Social Security Supplement payable to the surviving spouse/DP until the member would have been age 65. If the Member died while an active member and the surviving spouse/DP is age 60+ then the greater of the above death-while-eligible benefit and the prior-to-retirement eligibility income amount is paid. If there is no surviving spouse/DP the survivor benefit is not paid Post-Retirement Deaths: 50% (w/ SS) or 25% (w/o SS) of member's BRI plus 0%, 50%, 66.67% or 100% of the remaining 50% (w/ SS0) or 75% (w/o SS) of BRI, actuarially reduced for one of the optional forms chosen at retirement, payable to a surviving spouse or contingent annuitant 	 \$7,500 lump sum death benefit, regards of member's age or retirement status or eligibility at death Pre-Retirement Deaths: 2 years of service credit, but prior to early retirement eligibility: 15% of final salary to eligible child or age 60+ spouse While eligible to retire: Member's BRI converted to J&S 100% form payable to surviving spouse or domestic partner as the only contingent annuitant, as if member retired on date of death If there is no surviving spouse/DP the survivor benefit is not paid Post-Retirement Deaths: 0%, 50%, 66.67% or 100% of the member's BRI, actuarially reduced for one of the optional forms chosen at retirement, payable to a surviving spouse or contingent annuitant

Assumptions for the Valuation of Benefits Retiree Medical

		Pre 7/2013 Assumptions		Post 7/2013 Assumptions	
Eligibility Age		50		55	
Eligibility Factor					
Membership Date < 1/1/19	990				
Retirement Ages: 50-55 55+	10+ 5+	100% 100%			
Membership Date 1/1/199	0 – 6/30/2013	3			
Service at Retirement	10	50%	10	50%	
	11	55%	11	55%	
	12	60%	12	60%	
	13	65%	13	65%	
	14	70%	14	70%	
	15	75%	15	75%	
	16	80%	16	80%	
	17	85%	17	85%	
	18	90%	18	90%	
	19	95%	19	95%	
MERCER	20	100%	20	100%	75

Assumptions for the Valuation of Benefits Retiree Medical

	Pre 7/2013 Assumptions		Post 7/2013 Assumptions
Age at Retirement		50-55	0%
		56	10%
		57	20%
		58	30%
		59	40%
		60	50%
		61	60%
		62	70%
		63	80%
		64	90%
		65+	100%
		Age and factors	d service factors are multiplied together to form eligibility matrix
		Percent	tage of maximum UC contribution

Assumptions for the Valuation of Benefits Retiree Medical

	Pre 7/2013 Assumptions		Post 7/2013 Assur	nptions	
Employer Contribution Policy					
Maximum UC Contribution	Same as post 7/2013		% of Blended Prem used in valuation ca		
		Non-	Medicare Exchange	Medicare Exchanç	ge (eff. 1/1/2014)
		Calendar Year	< Age 65 % of Blended Premiums	% of Medicare Premiums*	
		2010	84%	92%	For Medicare-eligible retirees with all covered
		2011	81%	89%	family members living outside of CA, UC will fund an HRA, which retirees will
		2012	78%	86%	use to purchase individual coverage on an Exchange
		2013	75%	83%	administered by OneExchange. UC maximum contribution is
		2014	72%	80%	\$3,000 per member. • Per UC Actuary
		2015	70%	77%	recommendation, Mercer will use 10% out-of-state coverage for HRA benefit
		2016	70%	74%	for Medicare-eligible retirees
		2017	70%	71%	
		2018	70%	70%	
Part B Premium Reimbursement	 If net maximum UC contribution > rate for plan chosen by Medicare Exchange retiree, then difference will be used to reimburse retiree for all or portion of standard Medicare Part B premium Cap \$104.90 for 2014 		 It is not assume increase with m For in-state retire contribution For out-of-state \$3,000 per men 	d that the maximum \$3,0 edical inflation rees, will value using me retirees will value using	HRA to pay Part B premium 000 HRA contribution will dical plan minus employee UC maximum contribution of

Assumptions for the Valuation of Benefits Pension and Retiree Medical

	Pre 7/2013 A	\ssumptions*	Post 7/2013	Assumptions
Retirement Rates for Faculty	<=49	0%	<=49	0%
·	50	2%	50	1%
	51	1%	51	0.5%
	52	1%	52	0.5%
	53	1%	53	0.5%
	54	1%	54	0.5%
	55	2%	55	1%
	56	2%	56	1%
	57	2%	57	1%
	58	2%	58	1%
	59	3%	59	1.5%
	60	5%	60	4%
	61	5%	61	3%
	62	5%	62	3%
	63	5%	63	3%
	64	7%	64	4%
	65	9%	65	16%
	66	10%	66	13%
	67	11%	67	13%
	68	12%	68	15%
	69	15%	69	15%
	70	15%	70	15%
	71	12%	71	12%
	72	12%	72	12%
	73	12%	73	12%
	74	12%	74	12%
	>=75	100%	>=75	100%

Section 4D

Appendix D Assumptions for the Valuation of Benefits: Other Benefit Items

Assumptions for the Valuation of Benefits Other Benefit Items

• For this study, other benefit items were estimated using the following approaches:

1. Benefit Programs Valued					
Benefit Program offered to new hires	Included in value				
Pre 7/2013 Benefits	Not Included				
2. Pay for Time Not Worked (Short-term Dis	Pay for Time Not Worked (Short-term Disability, Holidays, Vacations)				
Benefit Value	These benefit areas are only in the Benefits Index comparisons, they are not included in the benefit values to develop total compensation				
	values				
Short-term disability	Includes payments during the first six months of disability (sick leave, salary contribution, LTD if less than six month waiting period);				
	One-year term costing value				
Holidays	Each day value as 1/261 of annual pay				
Vacations	Assumes all prior year vacation taken, value based on current year of service eligibility; each day valued as 1/261 of annual pay				
3. Total Compensation Benefit Value Adjus	3. Total Compensation Benefit Value Adjustments				
Calculating Total Compensation	Benefit values for total compensation comparison are tax adjusted (i.e., grossed up) to determine salary equivalent benefit values				
Tax Gross Up	Mercer grossed up benefits after annual amount determined by marginal tax rate. Employee contributions subtracted before or after				
1ax Gloss Op	gross up based on taxation of contribution.				
4. Tuition Reimbursement*					
Other	Assumes values by rank used in 2009 study (Asst Prof = \$277, Assoc Prof = \$499, Full Prof = \$480) for each Comp 8 institution				
	adjusted for higher education inflation rate ¹				
5. Statistics					
Summary statistics	Uses average values for the market				
Summary statistics	Includes zeros in averages				
6. Other Survivor Income					
Actuarial Cost Method	One-year term cost				

¹ Inflation calculation for tuition reimbursement taken from The College Board, Annual Survey of Colleges; NCES, IPEDS. "Figure 5. Inflation-Adjusted Published Tuition and Fees Relative to 1983-87, 1983-84 to 2013-14 (1983-84=100)", prepared in October 2013.

