

DOCUMENT RESUME

ED 350 929

HE 025 907

TITLE Analysis of Faculty Salaries: A Comparison of The University of Maryland at College Park with AAU Public and Private and Designated Peer Universities: Fall 1990.

INSTITUTION Maryland Univ., College Park. Office of Institutional Studies.

PUB DATE Sep 90

NOTE 28p.; For the June 1992 analysis, see HE 025 908.

PUB TYPE Reports - Research/Technical (143)

EDRS PRICE MF01/PC02 Plus Postage.

DESCRIPTORS Academic Rank (Professional); *College Faculty; *Comparative Analysis; Contract Salaries; Higher Education; Institutional Research; *Private Colleges; *Public Colleges; *Salary Wage Differentials; Sex Differences; State Universities; *Teacher Salaries

IDENTIFIERS *University of Maryland College Park

ABSTRACT

A study compared faculty salaries at the University of Maryland at College Park (UMCP) with those at other institutions. The data were drawn from the fiscal year 1991 Integrated Postsecondary Education Data System survey, "Salary, Tenure, and Fringe Benefits of Full-Time Instructional Faculty", and the data for UMCP were compared with data for 33 public and private member institutions of the Association of American Universities (AAU) and also with data from 9 "designated peer" institutions. Average salaries were computed for each institution by academic rank, type of contract (9- or 12-month), and gender. Results indicated that at most institutions, the 9-month contract is more common than the 12-month contract. It was also found that at all three faculty ranks, UMCP reported lower average salaries for the 9-month contract than for the adjusted 12-month contract. In addition, at all institutions with two exceptions, male instructional faculty had higher average salaries than did female faculty at each academic rank. UMCP's percentage difference fell below the mean percentage difference at all three ranks. The study notes that the results should be interpreted with caution because several important variables that help explain salary differences are not controlled. Included are 10 tables in an appendix. (JB)

 * Reproductions supplied by EDRS are the best that can be made *
 * from the original document. *

ED350929

ANALYSIS OF FACULTY SALARIES:

**A Comparison of
The University of Maryland
at College Park
with AAU Public and Private
and Designated Peer Universities
Fall 1990**

September 1991

*Office of Institutional Studies
2132 Main Administration
University of Maryland at College Park
College Park, Maryland 20742*

U.S. DEPARTMENT OF EDUCATION
Office of Educational Research and Improvement
EDUCATIONAL RESOURCES INFORMATION
CENTER (ERIC)

This document has been reproduced as
received from the person or organization
originating it.
 Minor changes have been made to improve
reproduction quality.

• Points of view or opinions stated in this docu-
ment do not necessarily represent official
OERI position or policy.

"PERMISSION TO REPRODUCE THIS
MATERIAL HAS BEEN GRANTED BY
Office of Institutional
Studies, Univ of MD

TO THE EDUCATIONAL RESOURCES
INFORMATION CENTER (ERIC)."

HE 025 907



**Analysis of Faculty Salaries: A Comparison of the University
of Maryland at College Park With AAU Public and Private and
Designated Peer Universities--Fall 1990**

This report compares faculty salaries at the University of Maryland at College Park (UMCP) with those at 33 public and private member institutions of the Association of American Universities (AAU). The faculty salaries at the University of Maryland are also compared to a subset of this group which consists of nine "designated peer" institutions. The institutions in this group are considered especially similar to UMCP in terms of characteristics such as enrollment, curriculum, faculty, and mission. A list of participating schools is presented in Appendix A. Data are presented for single-campus institutions or the major campus of university systems with multiple campuses. Only contract salaries are compared; fringe benefits were not included in the analyses in this report. The report focuses on the average salaries of faculty categorized by academic rank, type of contract, and gender. The analyses are limited to professors, associate professors, and assistant professors who are classified as instructional faculty. Instructors and lecturers are excluded.

Design of Study

The data for this study were drawn from the FY 91 Integrated Postsecondary Education Data System (IPEDS) survey, Salary, Tenure, and Fringe Benefits of Full-Time Instructional Faculty. The survey provides information on salary, academic rank, gender, type of contract, and tenure status. Average salaries were computed for

each institution by academic rank, type of contract (9 or 12 month), and gender. The 12-month salaries were adjusted to an academic year basis, according to procedures of the American Association of University Professors (AAUP), by multiplying the total salary outlays by nine elevenths (9/11).

Average Salary by Academic Rank for Instructional Faculty

Table 1A presents the number of faculty and the average adjusted salaries for each academic rank, and the combined ranks, at all 34 universities. The relative standings of each university, based on the average salaries, are also included in the Table.

Across all the AAU institutions¹ and all academic ranks, the mean salary is \$54,321. By rank, the means are \$65,561 for professors, \$46,938 for associate professors, and \$39,647 for assistant professors. Relative to the 33 AAU institutions, UMCP stands 11th in the overall salary averages, 11th in professors' salary averages, 10th in associate professors' and assistant professors' salary averages. For Fall 1990, UMCP's average salaries are above the median at all three ranks, and this campus' three-ranks salary average is also above the median. These findings suggest that UMCP's overall ranking has remained stable

¹ Means and medians presented in Tables 1A-7 do not include the University of Maryland in order that University of Maryland figures might be compared to the group of 33 AAU institutions.

and similar to rankings of previous years. Note, however, that the institutions included in the analyses differ somewhat from year to year.

Schools having average salaries consistently at or above the median salaries by rank and overall are: University of California at Berkeley, University of California at Los Angeles, Carnegie-Mellon University, Cornell University, Duke University, University of Florida, University of Maryland, Massachusetts Institute of Technology, University of Michigan, SUNY at Buffalo, and Northwestern University.

Those having average salaries consistently below the median salaries by rank and overall are: University of Arizona, University of Colorado, University of Indiana, University of Kansas, Michigan State University, University of Missouri, University of Nebraska, University of Oregon, University of Pittsburgh, and University of Washington.

It should be noted that interpretations of the data presented here must be viewed within a limited context. There are a number of important factors that may influence average salaries. These include the number of years of teaching experience, quality of experience (research and publications), supply of qualified teachers in each discipline, and cost of living where the university is located. Data on these variables are not available for this report.

Nine of the 34 AAU institutions have been designated as "peer institutions:" University of Arizona, University of California at

Berkeley, University of California at Los Angeles, University of Illinois, University of Michigan, University of Minnesota, University of North Carolina, Ohio State University, and University of Texas. Table 1B presents the mean salaries by rank and for the three combined ranks at these nine universities. As indicated in the Table, the average salary at UMCP is 4th in rank among professors and assistant professors, and 3rd among associate professors. UMCP average salaries were above the mean for each rank individually, but slightly below the mean for the three ranks combined.

Average Salary by Type of Contract and Academic Rank

Institutions differ in the proportion of 9-month versus 12-month contracts, as indicated in Table 2. Brandeis University, Duke University, Northwestern University, University of Texas, and Tulane University do not offer 12-month contracts to their faculty. For the three academic ranks (professor, associate, and assistant), for all AAU institutions, the average proportions of 12-month contracts are 17 percent, 16 percent, and 14 percent, respectively. At UMCP, the faculty having 12-month contracts comprise 25 percent of professors, 15 percent of associate professors, and 10 percent of assistant professors.

Average salaries differ according to the type of contract at most institutions, but these differences are inconsistent across ranks. For the AAU institutions, Table 3 shows the average salaries by type of contract by rank, the magnitude of the salary differences (9-month average salaries minus the adjusted 12-month

average salaries), and percentage differences between 9-month and adjusted 12-month average salaries (salary differences divided by 9-month average salaries).

On average, 9-month salaries are lower than adjusted 12-month salaries at the ranks of professor and associate professor, but larger than 12-month salaries at the rank of assistant professor. The average percentage differences are -1.7 percent for professors, -2.4 percent for associate professors, and 4.3 percent for assistant professors. At UMCP, the percentage differences by rank are -5.5 percent for professors, -8.6 percent for associate professors, and -3.8 percent for assistant professors.

Average Salary by Academic Rank and Gender

Comparisons between the average salaries of men and women for each rank at the AAU institutions are presented in Table 4A. These data must be interpreted with caution, however, because several likely influential variables are not controlled (e.g., number of years experience, educational background, tenure status, quality of work experience, and distribution across disciplines).

At all of the AAU universities except Duke University and University of Colorado at the rank of professor, men's average salaries by rank are higher than women's average salaries. The average percentage difference is greatest at the rank of professor (10.0%), followed by that for assistant professors (9.5%). The average percentage difference is least for associate professors (7.1%). UMCP's percentage differences in average salaries for male and female instructional faculty are 8.0 percent for professors,

3.5 percent for associate professors, and 6.3 percent for assistant professors. These percentage differences are below the average of the AAU institutions for each rank. UMCP has the 8th smallest percentage difference at the rank of professor, the 5th smallest percentage difference at the rank of associate professor, and the 6th smallest percentage difference at the rank of assistant professor.

Table 4B shows the same data for the restricted group of 10 peer universities (including UMCP). Among these 10 peer institutions, UMCP has the second smallest percentage difference between men's and women's salaries at the rank of professor, the smallest percentage difference at the rank of associate professor, and the third smallest percentage difference at the rank of assistant professor.

Representation of Women by Academic Rank

In addition to having lower average salaries, female faculty have lower representation than male faculty in all three ranks at these AAU institutions, especially at the rank of professor. Tables 5 and 6 show that of all full-time professors, women comprise only 6 to 12 percent at these institutions. The proportion of women associate professors ranges from 13 to 31 percent; of assistant professors, 20 to 45 percent. The proportion of women at UMCP falls above the middle of the range for professors, but at or below the middle of the ranges for associate and assistant professors. The overall number of women represented

at the 33 comparison institutions in the top three ranks of instructional faculty is 7,669 (19% of the total), compared to 32,370 men.

Tenure Rates by Academic Rank and Gender

Table 7 indicates that across all of the AAU institutions 97 percent of male and 96 percent of female full-time professors are tenured -- showing a first time increase for women. At UMCP, 100 percent of both male and female full-time professors have tenure. In the 33 comparison institutions, an average of 86 percent of male and 85 percent of female associate professors have tenure. UMCP is well above these averages with 99 percent male and 97 percent female full-time associate professors having tenure. At the assistant professor level, an average of 4 percent of men and 5 percent of women are tenured. At UMCP, 10 percent of male and 8 percent of female assistant professors are tenured.

Summary: The University of Maryland

Comparing UMCP to 33 AAU public and private institutions, this report analyzed data from the IPEDS survey, Salaries, Tenure, and Fringe Benefits of Full-Time Instructional Faculty, for FY 91.

The results presented in this report must be interpreted cautiously because several important variables that help explain salary differences are not controlled. Information is unavailable, for example, regarding distribution of faculty among disciplines, number of years of teaching experience, quality of experience, market supply factors, and cost of living in the institution's location. Some of the factors may be especially important in explaining differences in average faculty salaries among the various institutions; others may be more important in explaining differences between male and female faculty members' salaries.

At most institutions, including UMCP, the 9-month contract is more common than the 12-month contract regardless of academic rank. At all three ranks, UMCP reported lower average salaries for the 9-month contract than for the adjusted 12-month contract.

With the exception of the rank of professor at Duke University and the University of Colorado, for all AAU institutions, male instructional faculty had higher average salaries than did female faculty at each academic rank. UMCP's percentage difference falls below the mean percentage difference at all three ranks. Compared to the 9 "peer" schools, UMCP's percentage difference is, again, smaller than the mean percentage difference at each rank. At the 33 AAU institutions, female faculty have lower representation than

male faculty in all three ranks. The percentage of women who are tenured is slightly lower than the percentage of men who are tenured at the full professor and associate professor levels. At the assistant professor level, the percentage of women who are tenured is slightly higher than the percentage of men who are tenured. At UMCP, all full-time professors regardless of gender are tenured; 99 percent of men and 97 percent of women at the associate professor level are tenured; and 10 percent of men and 8 percent of women at the assistant professor level are tenured.

For additional details regarding this report, contact the Office of Institutional Studies at extension 55590.

Appendix 1

Institutions Included in the Faculty Salary Analysis

<u>Institution</u>	<u>Peer</u>
University of Arizona	X
Brandeis University	
University of California -- Berkeley	X
University of California -- Los Angeles	X
Carnegie-Mellon University	
University of Colorado	
Cornell University	
Duke University	
University of Florida	
University of Illinois	X
Indiana University	
University of Iowa	
Iowa State University	
University of Kansas	
University of Maryland	
Massachusetts Institute of Technology	
University of Michigan	X
Michigan State University	
University of Minnesota	X
University of Missouri	
University of Nebraska	
State University of New York -- Buffalo	
University of North Carolina	X
Northwestern University	
Ohio State University	X
University of Oregon	
Pennsylvania State University	
University of Pittsburgh	
Purdue University	
University of Texas	X
Tulane University	
University of Virginia	
University of Washington	
University of Wisconsin	

10 A

Table 1A

Average Instructional Faculty Salaries and Relative Standing by Academic Rank, AAU Public and Private Institutions, Fall 1990

Institution	Professor		Associate Professor		Assistant Professor		Three Ranks	
	Average Salary	N	Average Salary	Salary Ranking	Average Salary	N	Average Salary	N
Arizona	\$59,882	642	\$43,571	29	\$38,271	333	\$50,020	1,350
Brandeis	63,551	155	45,505	24	37,578	58	53,853	280
Cal-Berkeley	76,318	972	50,206	8	41,029	208	66,984	1,399
Cal-UCLA	73,389	883	47,869	14	41,118	300	61,840	1,468
Carnegie-Mellon	76,149	244	51,056	5	46,127	137	61,492	522
Colorado	60,351	425	45,388	25	38,103	212	50,828	885
Cornell	71,451	439	49,334	9	43,541	172	60,419	786
Duke	75,769	322	51,802	4	43,507	147	62,133	629
Florida	65,161	1,073	50,997	7	47,797	741	55,932	2,599
Illinois	63,671	928	45,644	23	40,294	433	53,298	1,883
Indiana	62,259	610	43,461	30	35,225	289	50,783	1,241
Iowa	64,559	477	48,003	13	40,262	238	53,957	1,017
Iowa State	63,815	506	47,373	16	38,192	312	52,133	1,146
Kansas	52,837	464	40,329	32	33,636	204	45,107	929
MARYLAND	69,069	527	48,566	10	40,666	241	56,065	1,187
MIT	79,848	569	56,773	1	46,761	150	69,509	913
Michigan	70,660	862	52,134	3	43,816	476	59,220	1,695
Michigan State	60,516	977	46,090	20	37,434	389	51,888	1,850
Minnesota	62,554	748	46,141	19	40,048	284	53,267	1,480
Missouri	52,442	336	39,670	33	36,156	229	43,996	806
Nebraska	59,949	436	44,648	30	38,353	336	48,898	1,072
SUNY-Buffalo	73,002	421	53,377	2	40,243	259	58,101	1,029
North Carolina	65,789	560	47,288	17	38,088	221	54,900	1,094
Northwestern	73,653	432	51,055	6	44,161	219	60,629	862
Ohio State	66,238	775	47,645	15	39,964	484	53,260	1,904
Oregon	49,226	233	37,760	34	31,663	179	40,381	603
Penn State	65,069	597	45,273	44	38,192	440	51,460	1,478
Pittsburgh	63,794	441	45,875	40	37,883	347	50,185	1,190
Purdue	66,928	566	46,021	21	38,707	417	52,304	1,398
Texas	66,679	939	43,984	47	38,197	490	53,728	1,896
Tulane	64,625	160	48,445	16	38,653	129	51,358	455
Virginia	71,821	421	48,148	12	38,589	205	56,851	920
Washington	60,321	881	42,658	29	37,374	329	50,915	1,674
Wisconsin	61,241	924	44,443	27	39,406	401	52,955	1,586
Mean	\$65,561	588	\$46,938	329	\$39,647	296	\$54,321	1,213
Median	\$64,625		\$46,273		\$38,653		\$53,267	

Note. Salaries of faculty on 12-month contracts were adjusted to a 9-month basis using 9/11. Rankings are based on the average salaries (i. e., largest average salary = 1). Salaries for the University of Maryland are excluded from the means and the medians. Numbers of faculty for the University of Maryland are excluded from the means.

Table 1B
Average Instructional Faculty Salaries for Ten
Peer Universities, by Academic Rank, Fall 1990

Institution	Professor		Associate Professor		Assistant Professor		Three Ranks	
	Average Salary	N	Average Salary	N	Average Salary	N	Average Salary	N
Arizona	\$59,882	642	\$43,571	375	\$38,271	333	\$50,020	1,350
UC-Berkeley	76,318	972	50,206	219	41,029	208	66,984	1,399
UCIA	73,399	883	47,869	285	41,118	300	61,840	1,468
Illinois	63,671	928	45,644	522	40,294	433	53,298	1,883
MARYLAND	69,069	527	48,566	419	40,666	241	56,065	1,187
Michigan	70,660	862	52,134	357	43,816	476	59,220	1,695
Minnesota	62,554	748	46,141	448	40,048	284	53,267	1,480
North Carolina	65,789	560	47,288	313	38,088	221	54,900	1,094
Ohio State	66,238	775	47,645	645	39,964	484	53,260	1,904
Texas	66,679	939	43,984	467	38,197	490	53,728	1,896
Mean	\$67,242	812	\$47,164	403	\$40,091	358	\$56,279	1,574
Median	\$66,238		\$47,288		\$40,048		\$53,728	

Note. Salaries of faculty on 12-month contracts were adjusted to a 9-month basis using 9/11. Rankings are based on the average salaries (i. e., largest average salary = 1). Salaries and numbers of faculty for the University of Maryland are excluded from the means and medians.

Table 2

Percentage of Full-Time Instructional Faculty on Nine-Month and Twelve-Month Contracts by Academic Rank, AAU Public and Private Institutions, Fall 1990

Institution	Professor		Associate Professor		Assistant Professor	
	9-Month	12-Month	9-Month	12-Month	9-Month	12-Month
Arizona	55%	45%	53%	47%	69%	31%
Brandeis	100	0	100	0	100	0
Cal-Berkeley	97	3	94	6	94	6
Cal-UCLA	91	9	90	10	83	17
Carnegie-Mellon	94	6	98	2	99	1
Colorado	100	0	99	1	100	0
Cornell	99	1	98	2	99	1
Duke	100	0	100	0	100	0
Florida	49	51	40	60	32	68
Illinois	88	12	86	14	92	8
Indiana	88	12	90	10	97	3
Iowa	87	13	82	18	84	16
Iowa State	63	37	81	19	92	8
Kansas	97	3	97	3	98	2
Maryland	75	25	85	15	90	10
MIT	90	10	97	3	99	1
Michigan	90	10	92	8	91	9
Michigan State	60	40	74	26	72	28
Minnesota	84	16	81	19	75	25
Missouri	70	30	73	27	78	22
Nebraska	62	38	62	38	76	24
SUNY-Buffalo	87	13	83	17	79	21
North Carolina	78	22	69	31	63	37
Northwestern	100	0	100	0	100	0
Ohio State	78	22	81	19	80	20
Oregon	98	2	96	4	98	2
Penn State	80	20	91	9	86	14
Pittsburgh	64	36	60	40	54	46
Purdue	50	50	72	28	81	19
Texas	100	0	100	0	100	0
Tulane	100	0	100	0	100	0
Virginia	86	14	91	9	94	6
Washington	74	26	74	26	72	28
Wisconsin	90	10	80	20	85	15
Mean	83%	17%	84%	16%	86%	14%

15 Note. Percentages for the University of Maryland are excluded from the means.

Table 3

Comparison of Nine-Month and Converted Twelve-Month Average Salaries by Academic Rank,
AAU Public and Private Institutions, Fall 1990

Institution	Professor			Associate Professor			Assistant Professor		
	9-Month	12-Month	% Diff. ^a	9-Month	12-Month	% Diff. ^a	9-Month	12-Month	% Diff. ^a
Arizona	\$64,798	\$53,953	\$10,845	\$46,609	\$40,136	\$6,473	\$40,334	\$33,599	\$6,735
Brandeis	63,551	68,848	7,741	45,505	44,332	6,244	37,578	37,427	3,842
Cal-Berkeley	76,589	62,299	12,135	48,357	43,393	4,964	41,269	34,715	7,683
Cal-UCLA	74,434	87,481	(12,021)	51,039	51,806	(767)	42,398	40,786	5,421
Carnegie-Mellon	75,460	42,689	17,704	45,501	36,139	9,362	46,207	b	b
Colorado	60,393	92,803	(21,499)	49,251	54,103	(4,852)	43,485	b	b
Cornell	71,304	69,173	(8,263)	51,802	57,833	(17,200)	43,507	52,502	(14,528)
Duke	75,769	59,951	4,205	40,633	44,652	1,151	37,974	40,874	(631)
Florida	60,910	62,562	(3,738)	45,803	42,691	858	40,243	29,348	6,088
Illinois	61,824	66,344	(2,056)	43,349	50,413	(2,923)	35,436	40,601	(406)
Indiana	64,288	64,095	(445)	47,490	47,918	(669)	40,195	43,312	(5,548)
Iowa	63,650	50,909	1,992	47,249	41,892	(1,606)	37,765	35,280	(1,677)
Iowa State	64,095	71,892	(3,758)	40,286	52,082	(4,116)	33,603	42,068	(1,549)
Kansas	52,302	93,766	(15,498)	47,967	57,655	(910)	40,518	38,045	8,833
Maryland	68,134	75,077	(4,906)	56,744	51,595	(6,414)	46,878	41,488	2,566
MIT	78,268	62,595	(3,443)	46,114	46,022	92	44,054	34,947	3,468
Michigan	70,171	56,881	6,768	46,278	45,549	729	38,414	38,748	1,734
Michigan State	59,152	50,795	2,344	38,938	41,611	(2,673)	40,482	36,598	4,3
Minnesota	63,649	58,932	1,635	44,320	45,185	(865)	36,998	37,723	2,025
Missouri	53,140	78,151	(5,906)	52,362	57,385	(4,823)	38,553	37,723	829
Nebraska	60,567	74,842	(11,574)	43,792	55,191	(11,399)	40,652	38,688	1,964
SUNY-Buffalo	72,245	64,238	2,570	51,055	47,426	48,585	37,327	39,404	(2,077)
North Carolina	63,268	57,564	(8,520)	47,426	36,616	1,160	44,161	40,335	(462)
Northwestern	73,653	64,238	2,570	47,426	36,616	1,160	39,874	40,335	(462)
Ohio State	66,808	64,238	2,570	47,426	36,616	1,160	39,874	40,335	(462)
Oregon	49,043	64,686	4,79	37,804	42,858	3,747	31,799	23,686	8,113
Penn State	65,166	59,395	6,854	46,605	45,505	(920)	39,141	32,179	6,962
Pittsburgh	66,249	65,755	2,330	45,305	46,424	(920)	38,031	37,706	325
Purdue	68,085	65,755	2,330	46,320	45,239	1,081	39,050	37,262	1,788
Texas	66,679	83,074	(13,051)	48,445	53,241	(5,566)	38,197	36,960	1,739
Tulane	64,625	61,081	(1,025)	47,675	45,311	(3,568)	38,699	38,425	(1,458)
Tulane	70,023	58,793	2,718	41,743	44,249	(976)	36,967	38,382	(1,415)
Virginia	60,057	66,062	(51,129)	44,249	46,214	(51,121)	39,289	\$37,577	\$1,713
Washington	61,511	66,062	(51,129)	44,249	46,214	(51,121)	39,289	\$37,577	\$1,713
Wisconsin	61,511	66,062	(51,129)	44,249	46,214	(51,121)	39,289	\$37,577	\$1,713
Mean	\$64,932	\$66,062	(\$1,129)	\$46,214	\$47,336	(\$1,121)	\$39,289	\$37,577	\$1,713
			-1.7%			-2.4%			4.3%

Note. Salaries of 12-month faculty were adjusted to a 9-month basis using 9/11. Differences are calculated as (adjusted) 12-month average salary subtracted from 9-month average salary. Percentage differences are calculated as difference divided by 9-month average salary. Parentheses indicate negative values. Salaries for Brandeis University, Duke University, University of Maryland, Northwestern University, the University of Texas, and Tulane University, and for assistant professors at University of Colorado and Cornell University are excluded from the means.

^aCalculations of differences were performed on unrounded data resulting in values that may differ by 1 from those derived from rounded data.

University of Colorado and Cornell University each had only one 12-month assistant professor.

17

18

BEST COPY AVAILABLE

Table 4A
Average Salaries by Academic Rank for Male and Female Instructional Faculty,
AAU Public and Private Institutions, Fall 1990

Institution	Professor			Associate Professor			Assistant Professor		
	Male	Female	% Diff.	Male	Female	% Diff.	Male	Female	% Diff.
Arizona	\$60,481	\$54,279	10.3%	\$43,988	\$42,080	4.3%	\$39,819	\$36,056	9.5%
Brandeis	64,066	58,752	8.3	45,943	44,476	3.2	38,278	35,380	7.6
Cal-Berkeley	77,332	9,569	12.4	51,302	47,492	7.4	41,950	39,324	6.3
Cal-UCLA	74,410	65,826	11.5	48,893	45,377	7.2	41,988	39,427	6.1
Carnegie-Mellon	76,840	66,315	13.7	51,984	47,138	9.3	47,191	43,253	8.3
Colorado	60,316	60,792	(.476)	46,360	42,591	8.1	39,388	35,939	8.8
Cornell	71,964	63,296	12.0	50,204	46,662	7.1	44,853	39,349	12.3
Duke	75,163	84,029	(8,866)	52,052	51,098	1.8	44,585	40,813	8.5
Florida	66,058	54,994	11.8	48,228	46,194	4.6	41,407	37,251	10.0
Illinois	64,405	54,804	14.9	46,194	42,694	7.6	36,585	32,694	10.6
Indiana	63,124	55,691	11.8	44,514	40,549	9.1	37,148	33,891	10.6
Iowa State	65,161	58,640	10.0	49,364	44,025	10.8	32,806	30,568	13.2
Iowa State	64,248	58,636	8.7	48,691	43,004	11.7	39,773	35,593	10.5
Kansas	53,288	47,787	10.3	41,071	37,896	7.7	34,138	32,753	4.1
Maryland	69,735	64,160	8.0	48,960	47,230	3.5	41,535	38,918	6.3
MIT	80,461	69,558	13.6	57,323	53,216	7.2	47,006	45,780	2.6
Michigan State	71,381	62,097	11.6	53,618	48,156	10.2	45,555	40,074	12.0
Minnesota	61,194	58,059	6.3	46,952	43,791	6.7	38,650	35,850	7.2
Missouri	62,971	59,023	6.3	46,683	44,694	4.5	41,690	36,782	11.8
Missouri	52,640	49,473	6.0	39,849	39,064	2.0	37,894	33,471	11.7
Nebraska	60,327	54,439	9.8	45,130	41,989	7.0	39,659	35,556	10.3
SUNY-Buffalo	73,892	63,487	14.1	54,481	48,979	10.1	41,646	37,420	10.1
SUNY-Buffalo	66,522	59,329	10.4	48,155	45,328	5.9	38,726	34,273	10.3
North Carolina	74,310	66,195	10.9	51,805	48,289	6.8	45,131	41,914	7.1
Northwestern	66,921	59,241	11.5	48,391	45,027	7.0	41,891	36,682	12.4
Ohio State	69,638	60,987	12.4	48,391	45,027	7.0	41,891	36,682	12.4
Oregon	49,638	45,797	7.7	38,385	36,255	5.5	32,641	30,307	7.1
Penn State	65,308	60,987	6.6	46,976	42,898	8.7	40,083	34,497	13.9
Pittsburgh	64,781	56,720	12.4	46,676	43,610	6.6	39,048	36,278	7.1
Purdue	67,659	55,491	18.0	46,850	41,785	10.8	40,703	34,629	14.9
Texas	67,650	57,949	14.3	46,850	41,785	10.8	40,420	34,776	14.0
Texas	65,179	55,958	14.3	44,778	41,608	7.1	40,034	35,345	11.7
Tulane	62,117	52,222	16.3	48,664	47,710	2.0	40,401	35,699	11.6
Virginia	67,493	4,625	6.4	48,973	44,566	9.0	40,401	35,699	11.6
Washington	60,972	55,114	9.6	43,201	40,913	5.3	38,200	36,095	5.5
Washington	62,139	54,004	13.1	45,721	41,391	9.5	41,204	36,640	11.1
Wisconsin	62,139	54,004	13.1	45,721	41,391	9.5	41,204	36,640	11.1
Mean	\$66,149	\$59,516	10.0%	\$47,725	\$44,321	7.1%	\$40,994	\$37,072	9.5%

Note. Salaries of faculty on 12-month contracts were adjusted to a 9-month basis using 9/11. Differences are calculated as women's average salary subtracted from men's average salary. Percentage differences are calculated as differences divided by men's average salary. Rankings are based on the magnitude of the percentage differences (smallest percentage difference = 1). Salaries and percentages for the University of Maryland are excluded from the means.

*Calculations of differences were performed on unrounded data resulting in values that may differ by 1 from those derived from rounded data.

Table 4B
Average Salaries by Academic Rank for Male and Female Instructional Faculty,
Ten Year Universities, Fall 1990

Institution	Professor			Associate Professor			Assistant Professor		
	Male	Female	Diff. ^a % Diff.	Male	Female	Diff. ^a % Diff.	Male	Female	Diff. ^a % Diff.
Arizona	\$60,481	\$54,279	\$6,202 10.3%	\$43,988	\$42,080	\$1,908 4.3%	\$39,819	\$36,056	\$3,763 9.5%
UC-Berkeley	77,332	67,763	9,569 12.4	51,302	47,492	3,809 7.4	41,950	39,324	2,626 6.3
UCIA	74,410	65,826	8,584 11.5	48,893	45,377	3,516 7.2	41,988	39,427	2,561 6.1
Illinois	64,405	54,804	9,601 14.9	46,194	42,694	3,500 7.6	41,407	37,251	4,156 10.0
MARYLAND	69,735	64,160	5,575 8.0	49,968	47,230	1,738 3.5	41,535	38,918	2,617 6.3
Michigan	71,381	63,097	8,284 11.6	53,618	48,156	5,462 10.2	45,555	40,074	5,482 12.0
Minnesota	62,971	59,023	3,948 6.3	46,683	44,694	1,989 4.3	41,690	36,782	4,909 11.8
North Carolina	66,522	59,329	7,193 10.8	48,155	45,328	2,827 5.9	38,726	37,273	1,454 3.8
Ohio State	66,921	59,241	7,680 11.5	48,391	45,027	3,364 7.0	41,891	36,682	5,209 12.4
Texas	67,650	57,949	9,701 14.3	44,778	41,608	3,171 7.1	40,420	34,776	5,644 14.0
Mean	\$68,008	\$60,145	\$7,862 ^b 11.5%	\$48,000	\$44,717	\$3,282 ^b 6.7%	\$41,494	\$37,516	\$3,978 9.5%

Note. Salaries of faculty on 12-month contracts were adjusted to a 9-month basis using 9/11. Differences are calculated as women's average salary subtracted from men's average salary. Percentage differences are calculated as differences divided by men's average salary. Rankings are based on the percentage differences (smallest percentage difference = 1). Salaries and percentages for the University of Maryland are excluded from the means.

^aCalculations of differences were performed on unrounded data resulting in values that may differ by 1 from those derived from rounded data.

^bThe mean of the differences does not equal the difference between the means due to rounding.

22

Table 5

Counts of Full-Time Instructional Faculty by Academic Rank and Gender,
AAU Public and Private Institutions, Fall 1990

Institution	Professor		Associate Professor		Assistant Professor	
	Total	Men	Women	Total	Men	Women
Arizona	642	580	62	375	293	82
Brandeis	155	140	15	67	47	20
Cal-Berkeley	972	869	103	219	156	63
Cal-UCLA	883	778	105	285	202	83
Carnegie-Mellon	244	228	16	141	114	27
Colorado	425	394	31	248	184	64
Cornell	439	413	26	175	132	43
Duke	322	300	22	160	118	42
Florida	1,073	986	87	785	637	148
Illinois	1,928	857	71	522	440	82
Indiana	610	539	71	342	245	97
Iowa	477	433	44	302	225	77
Iowa State	506	467	39	328	252	76
Kansas	464	426	38	261	200	61
Maryland	527	464	63	419	322	97
MIT	569	537	32	194	168	26
Michigan	862	787	75	357	260	97
Michigan State	977	869	108	484	352	132
Minnesota	748	669	79	448	326	122
Missouri	336	315	21	241	186	55
Nebraska	436	408	28	300	254	46
SUNY-Buffalo	421	349	36	349	279	70
North Carolina	560	503	57	313	217	96
Northwestern	432	397	35	211	166	45
Ohio State	775	706	69	645	502	143
Oregon	233	208	25	191	135	56
Penn State	597	564	33	441	365	76
Pittsburgh	441	387	54	402	297	105
Purdue	566	532	34	415	347	68
Texas	939	845	94	467	350	117
Tulane	160	143	17	166	128	38
Virginia	421	394	27	294	239	55
Washington	881	783	98	464	354	110
Wisconsin	924	822	102	261	184	77
Total	19,418	17,664	1,754	10,853	8,354	2,499
Mean	588	535	53	328	253	75
				9,768	6,352	3,416
				296^a	192	103

Note. The counts of full-time instructional faculty for the University of Maryland are excluded from the totals and the means.

^aSubtotals do not add due to rounding.

Table 6

Percentages of Men and of Women Full-Time Instructional Faculty by Academic Rank,
AAU Public and Private Institutions, Fall 1990

Institution	Professor		Associate Professor		Assistant Professor	
	Men	Women	Men	Women	Men	Women
Arizona	90%	10%	78%	22%	59%	41%
Brandeis	90	10	70	30	76	24
Cal-Berkeley	89	11	71	29	65	35
Cal-UCLA	88	12	71	29	66	34
Carnegie-Mellon	93	7	81	19	73	27
Colorado	93	7	74	26	63	37
Cornell	94	6	75	25	76	24
Duke	93	7	74	26	71	29
Florida	92	8	81	19	73	27
Illinois	92	8	84	16	73	27
Indiana	88	12	72	28	65	35
Iowa	91	9	75	25	55	45
Iowa State	92	8	77	23	62	38
Kansas	92	8	77	23	64	36
Maryland	88	12	77	23	67	33
MIT	94	6	87	13	80	20
Michigan	91	9	73	27	68	32
Michigan State	89	11	73	27	57	43
Minnesota	89	11	73	27	67	33
Missouri	94	6	77	23	61	39
Nebraska	94	6	85	15	68	32
SUNY-Buffalo	91	9	80	20	67	33
North Carolina	90	10	69	31	56	44
Northwestern	91	9	78	22	70	30
Ohio State	91	9	78	22	63	37
Oregon	89	11	71	29	58	42
Penn State	94	6	83	17	66	34
Pittsburgh	88	12	74	26	58	42
Purdue	94	6	84	16	67	33
Texas	90	10	75	25	61	39
Tulane	89	11	77	23	71	29
Virginia	94	6	81	19	61	39
Washington	89	11	76	24	61	39
Wisconsin	89	11	70	30	61	39
Mean	91%	9%	76%	24%	65%	35%

Note. Percentages of full-time instructional faculty for the University of Maryland are excluded from the means.

Table 7

Percentages of Full-Time Instructional Faculty Who Are Tenured,
by Academic Rank and Gender, AAU Public and Private Institutions, Fall 1990

Institution	Professor		Associate Professor		Assistant Professor	
	Total	Men	Women	Total	Men	Women
Arizona	94%	95%	80%	84%	85%	79%
Brandeis	100	100	100	92	95	85
UC-Berkeley	97	97	95	95	95	95
UCLA	90	91	86	90	92	86
Carnegie-Mellon	99	99	100	40	39	44
Colorado	99	99	100	88	90	92
Cornell	99	99	96	90	91	86
Duke	96	99	100	79	80	76
Florida	95	95	95	82	82	83
Illinois	99	99	100	97	97	100
Indiana	93	94	83	78	79	75
Iowa	99	99	97	93	93	92
Iowa State	99	99	100	96	96	94
Kansas	99	99	97	92	91	95
MARYLAND	100	100	100	99	99	97
MIT	100	100	100	60	59	69
Michigan State	96	96	93	88	88	90
Minnesota	95	95	100	91	92	90
Missouri	99	99	100	92	92	91
Nebraska	98	99	96	88	88	89
SUNY-Buffalo	97	97	100	76	77	73
North Carolina	99	99	100	86	87	84
Northwestern	97	97	100	85	86	83
Ohio State	100	100	100	78	75	86
Oregon	98	100	100	97	97	97
Penn State	96	96	96	93	91	98
Pittsburgh	95	94	100	81	81	81
Purdue	99	99	100	84	86	79
Texas	99	99	100	91	91	91
Tulane	98	100	88	99	99	100
Virginia	95	95	92	84	88	73
Washington	95	96	94	86	87	80
Wisconsin	99	99	97	91	91	100
Mean	97%	97%	96%	86%	86%	85%
				4%	4%	5%

Note. Percentages of full-time instructional faculty for the University of Maryland are excluded from the means.

