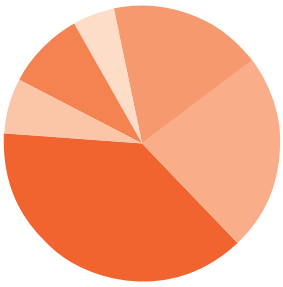


2013-2014 Faculty Salaries Report

William Yslas Vélez, James W. Maxwell, and Colleen Rose

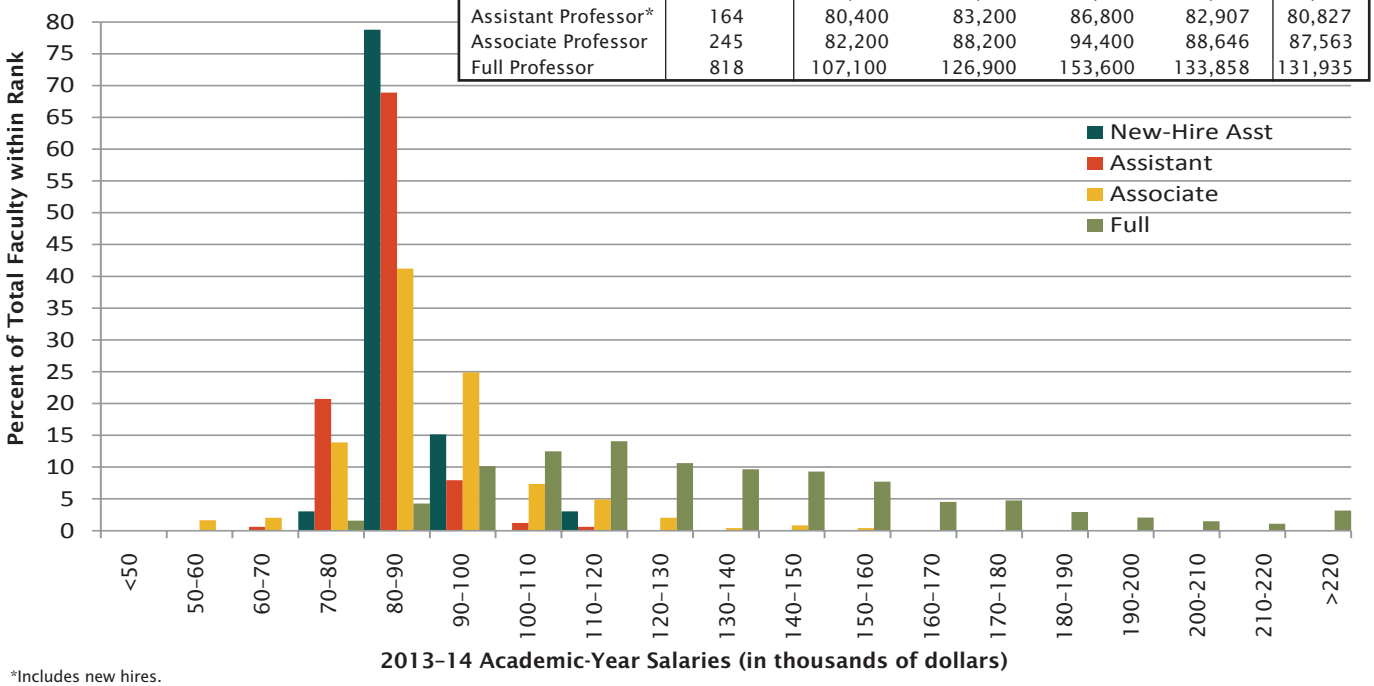
This report provides information on the distribution of 2013–2014 academic-year salaries for tenured and tenure-track faculty at four-year mathematical sciences departments in the U.S. by the departmental groupings used in the Annual Survey. (See page 6 for the definitions of the various departmental groupings.) Salaries are described separately by rank. Salaries are reported in current dollars (at time of data collection). Results reported here are based on the departments which responded to the survey with no adjustment for non-response.

Departments were asked to report for each rank the number of tenured and tenure-track faculty whose 2013–2014 academic-year salaries fell within given salary intervals. Reporting salary data in this fashion ensures confidentiality of individual reponses, though it does mean that the reported quartiles are only approximations. The quartiles reported have been estimated assuming that the density over each interval is uniform.

When comparing current and prior year figures, one should keep in mind that differences in the set of responding departments may be one of the most important factors in the change in the reported mean salaries. This report uses the new groupings of doctoral-granting mathematics departments recently adopted by the Joint Data Committee. Additional detail is provided on page 616.

Math. Public Large Group Faculty Salaries
Doctoral degree-granting departments of mathematics
25 responses out of 26 departments (96%)

Rank	2013–14					2012–13
	No. Reported	Q_1	Median	Q_3	Mean	Mean
New-Hire Asst Prof	33	82,200	84,700	88,900	85,322	83,242
Assistant Professor*	164	80,400	83,200	86,800	82,907	80,827
Associate Professor	245	82,200	88,200	94,400	88,646	87,563
Full Professor	818	107,100	126,900	153,600	133,858	131,935



*Includes new hires.

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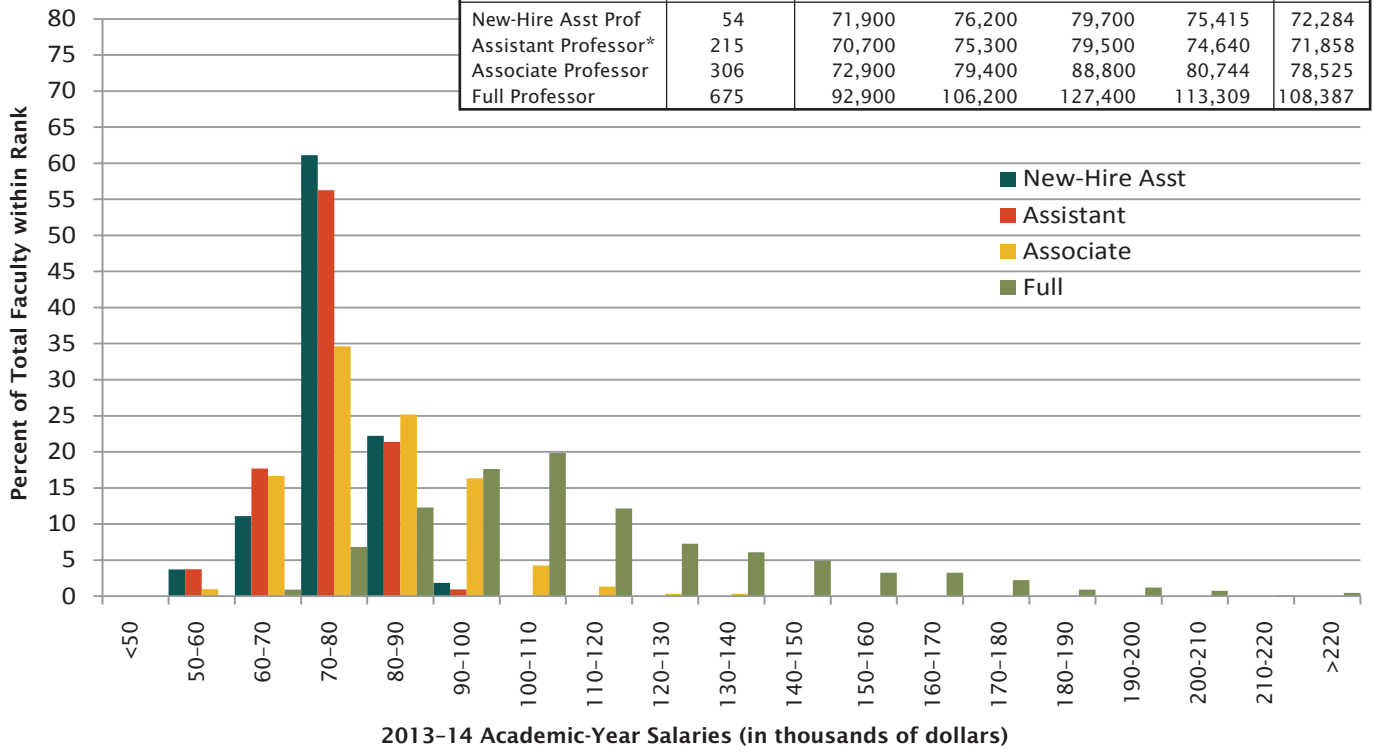
Math. Public Medium Group Faculty Salaries

Doctoral degree-granting departments of mathematics

36 responses out of 40 departments (90%)

Rank	2013–14 No. Reported	Q_1	Median	Q_3	Mean	2012–13 Mean
New-Hire Asst Prof	54	71,900	76,200	79,700	75,415	72,284
Assistant Professor*	215	70,700	75,300	79,500	74,640	71,858
Associate Professor	306	72,900	79,400	88,800	80,744	78,525
Full Professor	675	92,900	106,200	127,400	113,309	108,387

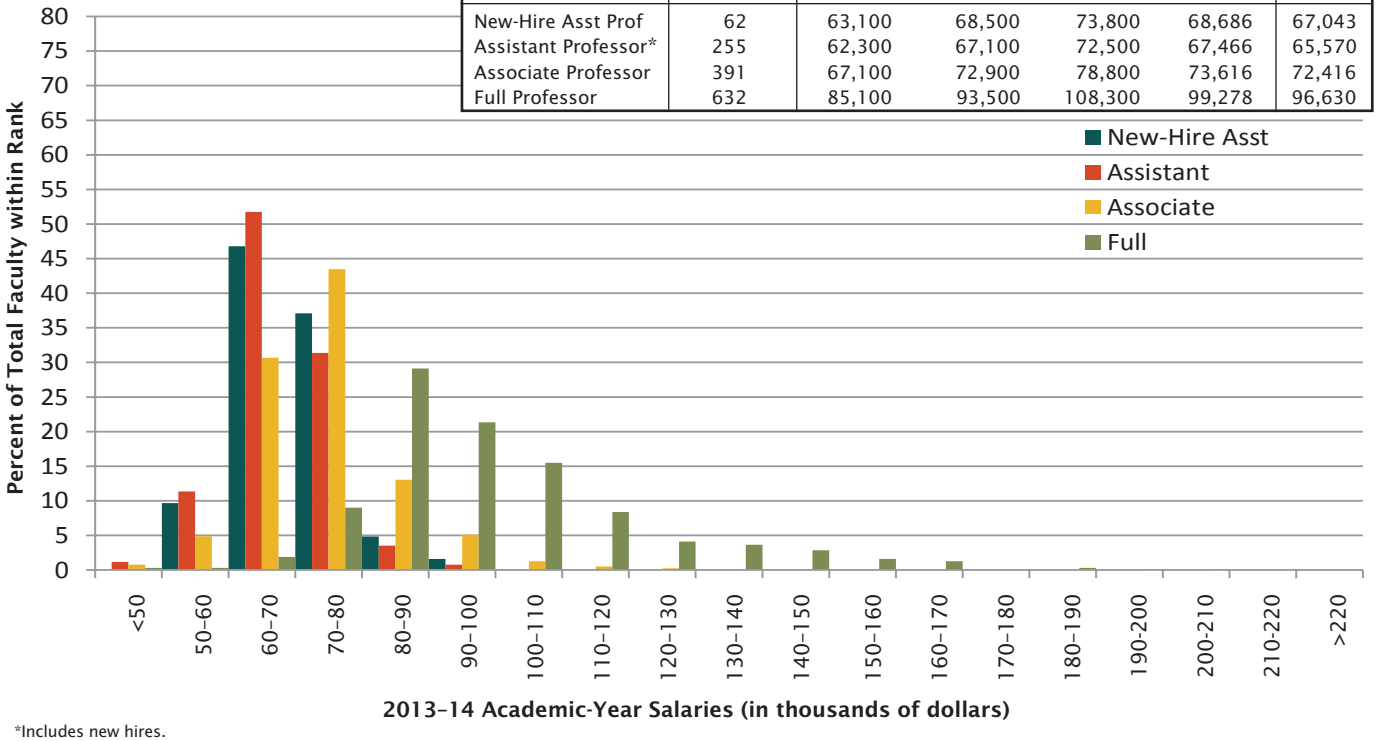


Math. Public Small Group Faculty Salaries

Doctoral degree-granting departments of mathematics

53 responses out of 64 departments (83%)

Rank	2013–14 No. Reported	Q_1	Median	Q_3	Mean	2012–13 Mean
New-Hire Asst Prof	62	63,100	68,500	73,800	68,686	67,043
Assistant Professor*	255	62,300	67,100	72,500	67,466	65,570
Associate Professor	391	67,100	72,900	78,800	73,616	72,416
Full Professor	632	85,100	93,500	108,300	99,278	96,630



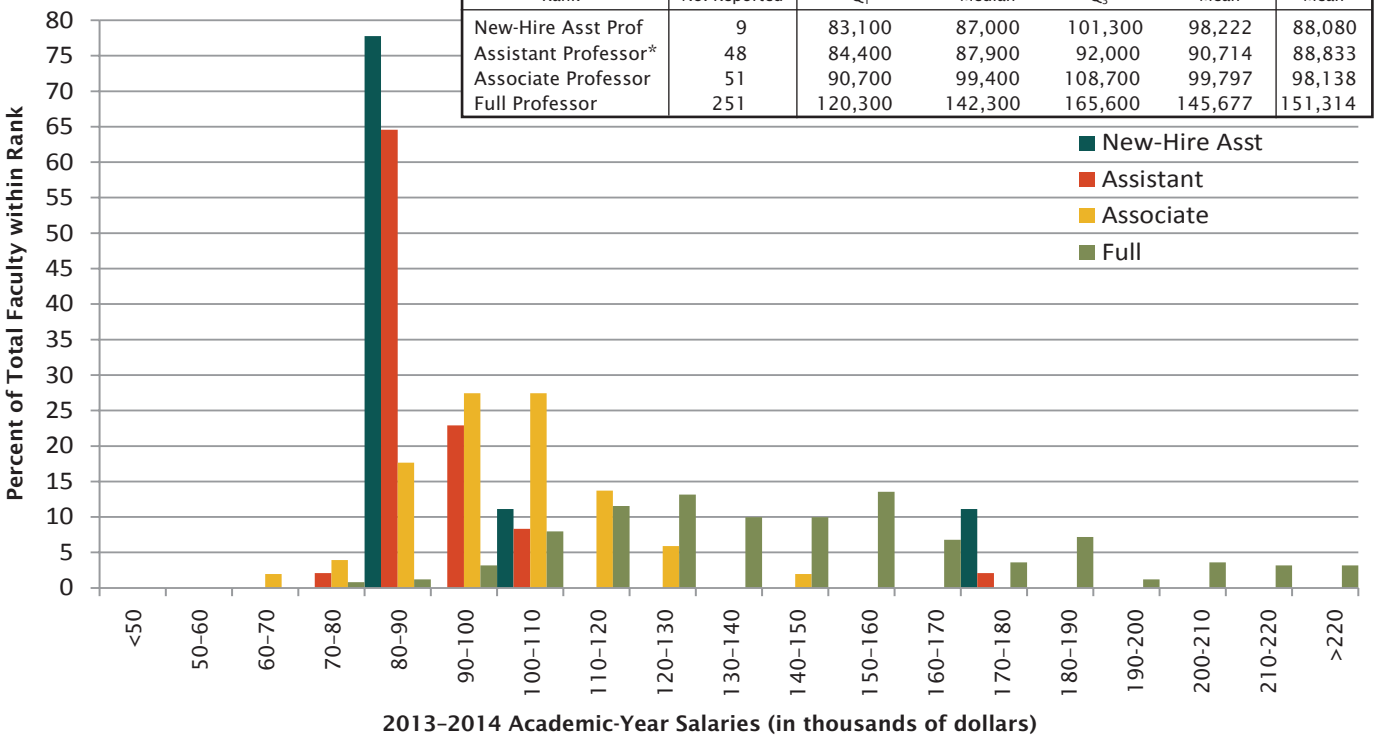
*Includes new hires.

Math. Private Large Group Faculty Salaries

Doctoral degree-granting departments of mathematics

15 responses out of 24 departments (63%)

Rank	2013–14 No. Reported	Q_1	Median	Q_3	Mean	2012–13 Mean
New-Hire Asst Prof	9	83,100	87,000	101,300	98,222	88,080
Assistant Professor*	48	84,400	87,900	92,000	90,714	88,833
Associate Professor	51	90,700	99,400	108,700	99,797	98,138
Full Professor	251	120,300	142,300	165,600	145,677	151,314

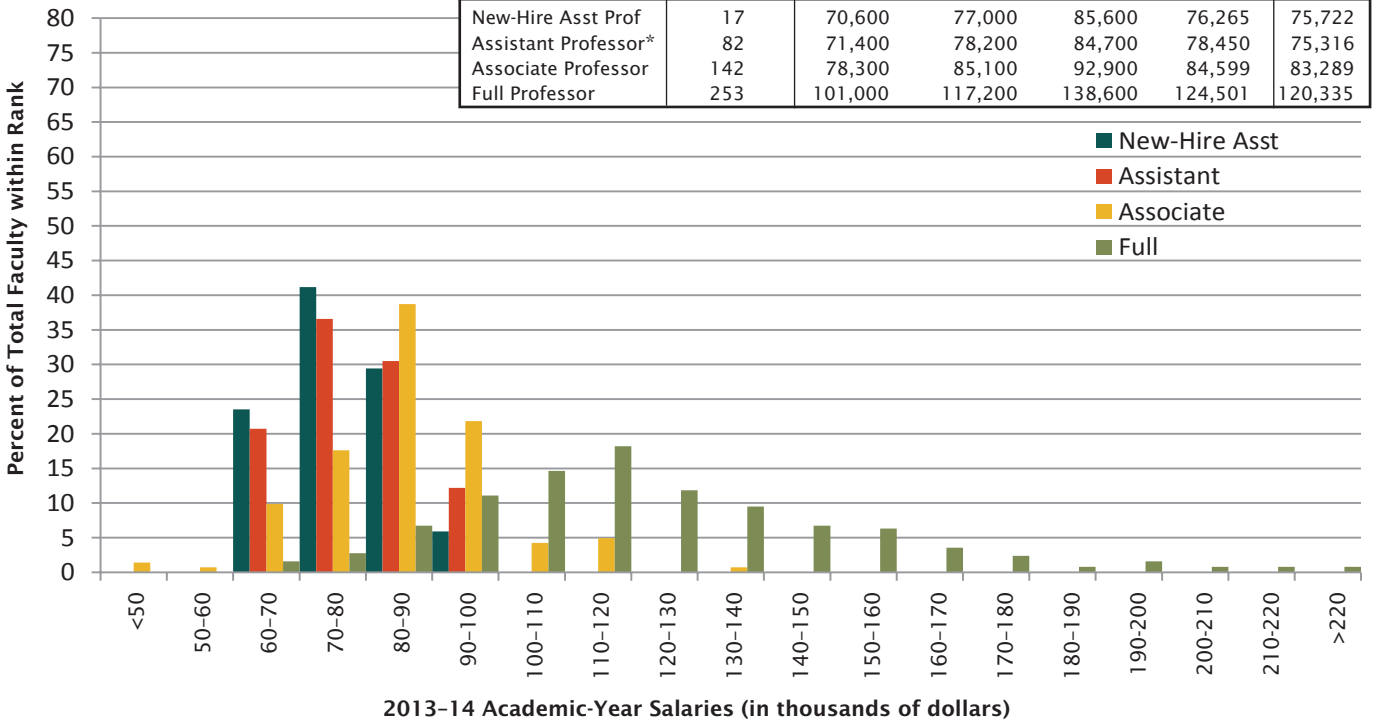


Math. Private Small Group Faculty Salaries

Doctoral degree-granting departments of mathematics

24 responses out of 28 departments (86%)

Rank	2013–14 No. Reported	Q_1	Median	Q_3	Mean	2012–13 Mean
New-Hire Asst Prof	17	70,600	77,000	85,600	76,265	75,722
Assistant Professor*	82	71,400	78,200	84,700	78,450	75,316
Associate Professor	142	78,300	85,100	92,900	84,599	83,289
Full Professor	253	101,000	117,200	138,600	124,501	120,335



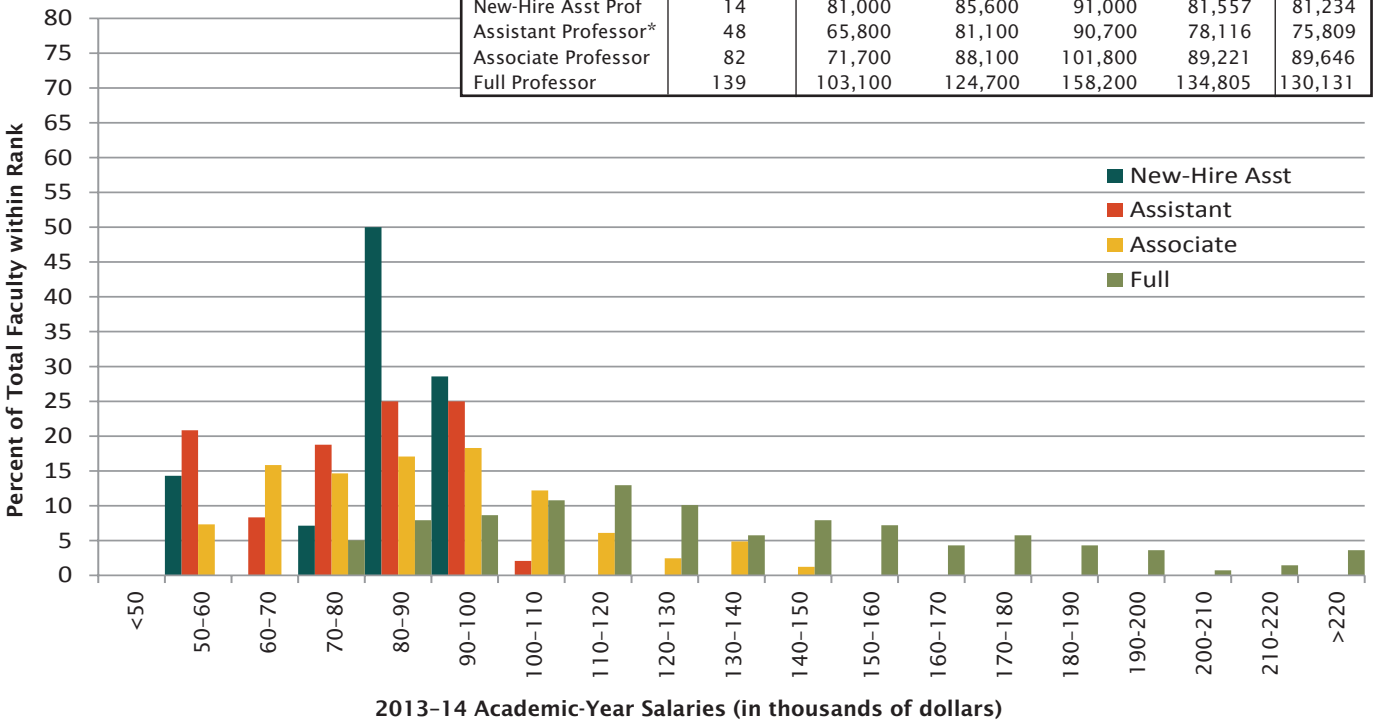
*Includes new hires.

Applied Mathematics Group Faculty Salaries

Doctoral degree-granting departments of Applied Mathematics

16 responses out of 24 departments (67%)

Rank	2013–14 No. Reported	Q_1	Median	Q_3	Mean	2012–13 Mean
New-Hire Asst Prof	14	81,000	85,600	91,000	81,557	81,234
Assistant Professor*	48	65,800	81,100	90,700	78,116	75,809
Associate Professor	82	71,700	88,100	101,800	89,221	89,646
Full Professor	139	103,100	124,700	158,200	134,805	130,131

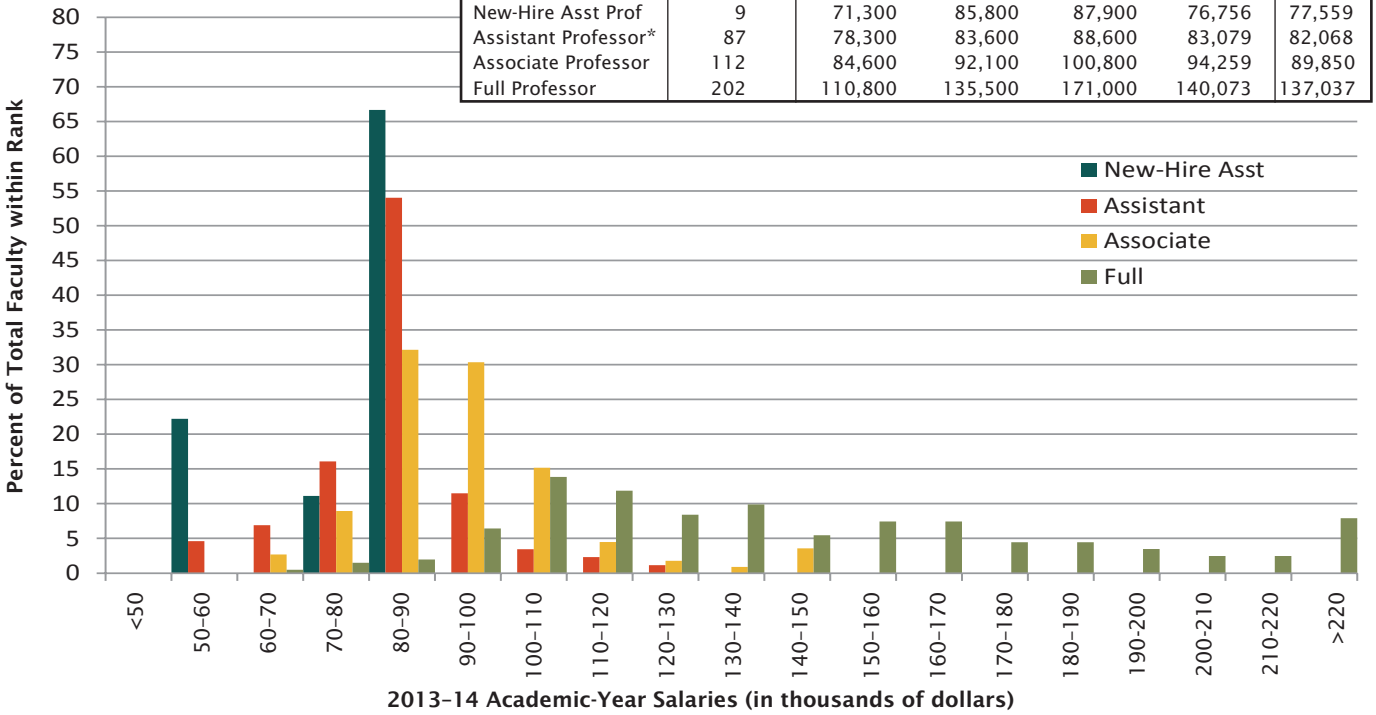


Statistics Group Faculty Salaries**

Doctoral degree-granting departments of statistics

34 responses out of 58 departments (59%)

Rank	2013–14 No. Reported	Q_1	Median	Q_3	Mean	2012–13 Mean
New-Hire Asst Prof	9	71,300	85,800	87,900	76,756	77,559
Assistant Professor*	87	78,300	83,600	88,600	83,079	82,068
Associate Professor	112	84,600	92,100	100,800	94,259	89,850
Full Professor	202	110,800	135,500	171,000	140,073	137,037



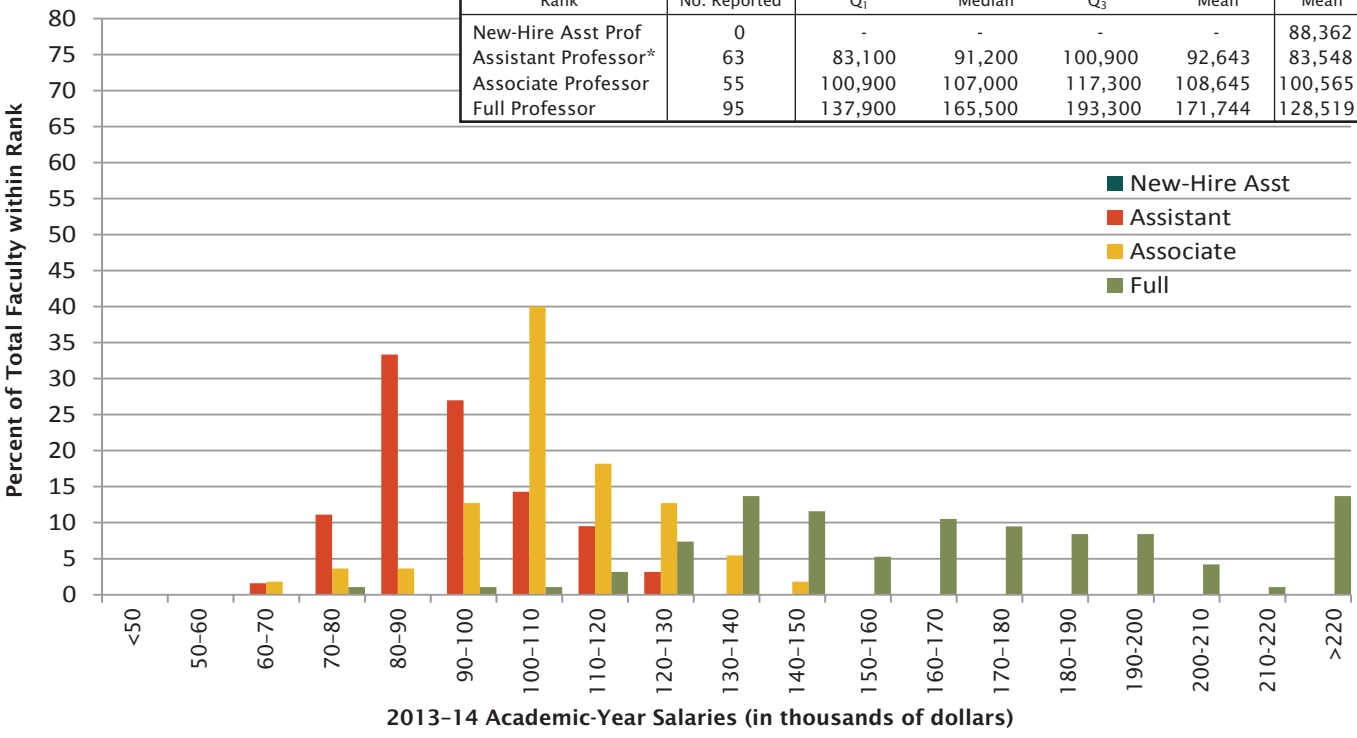
*Includes new hires.
**Faculty salary data provided by the American Statistical Association.

Biostatistics Group Faculty Salaries**

Doctoral degree-granting departments of biostatistics

13 responses out of 43 departments (30%)

Rank	2013–14 No. Reported	Q_1	Median	Q_3	Mean	2012–13 Mean
New-Hire Asst Prof	0	-	-	-	-	88,362
Assistant Professor*	63	83,100	91,200	100,900	92,643	83,548
Associate Professor	55	100,900	107,000	117,300	108,645	100,565
Full Professor	95	137,900	165,500	193,300	171,744	128,519

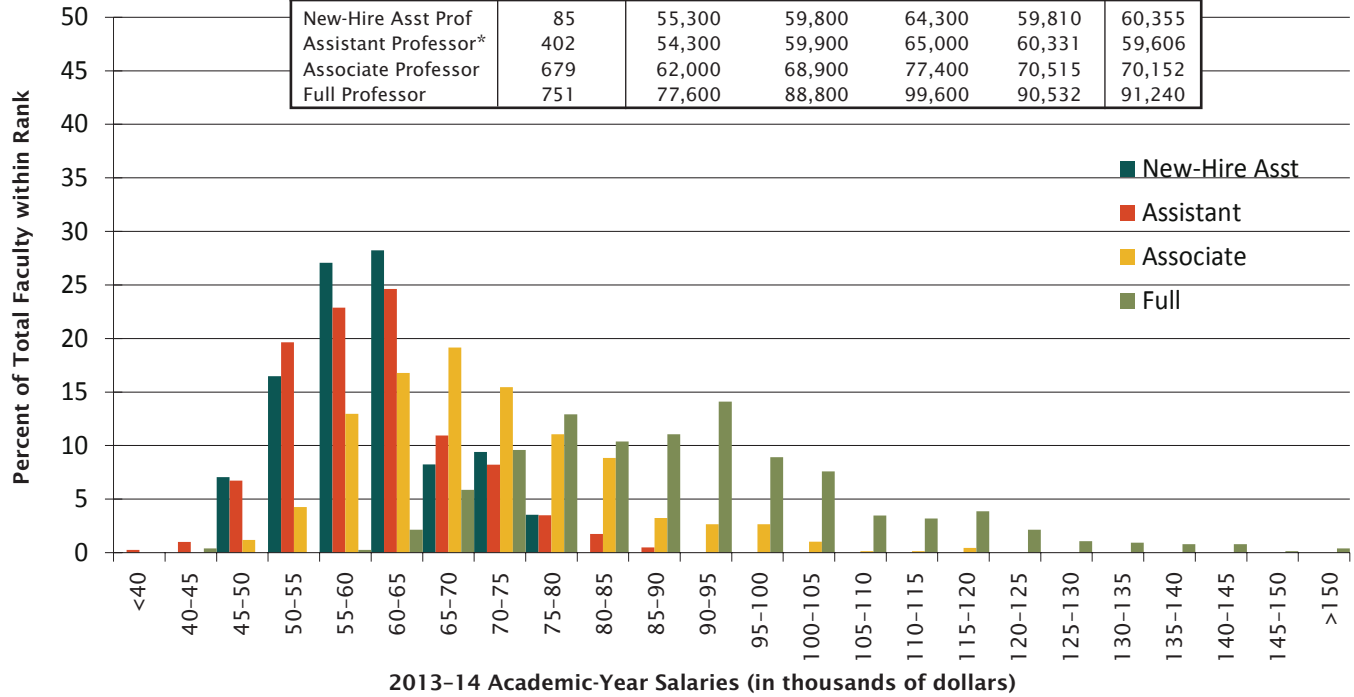


Master's Group Faculty Salaries

Master's degree-granting departments of mathematics

96 responses out of 182 departments (53%)

Rank	2013–14 No. Reported	Q_1	Median	Q_3	Mean	2012–13 Mean
New-Hire Asst Prof	85	55,300	59,800	64,300	59,810	60,355
Assistant Professor*	402	54,300	59,900	65,000	60,331	59,606
Associate Professor	679	62,000	68,900	77,400	70,515	70,152
Full Professor	751	77,600	88,800	99,600	90,532	91,240



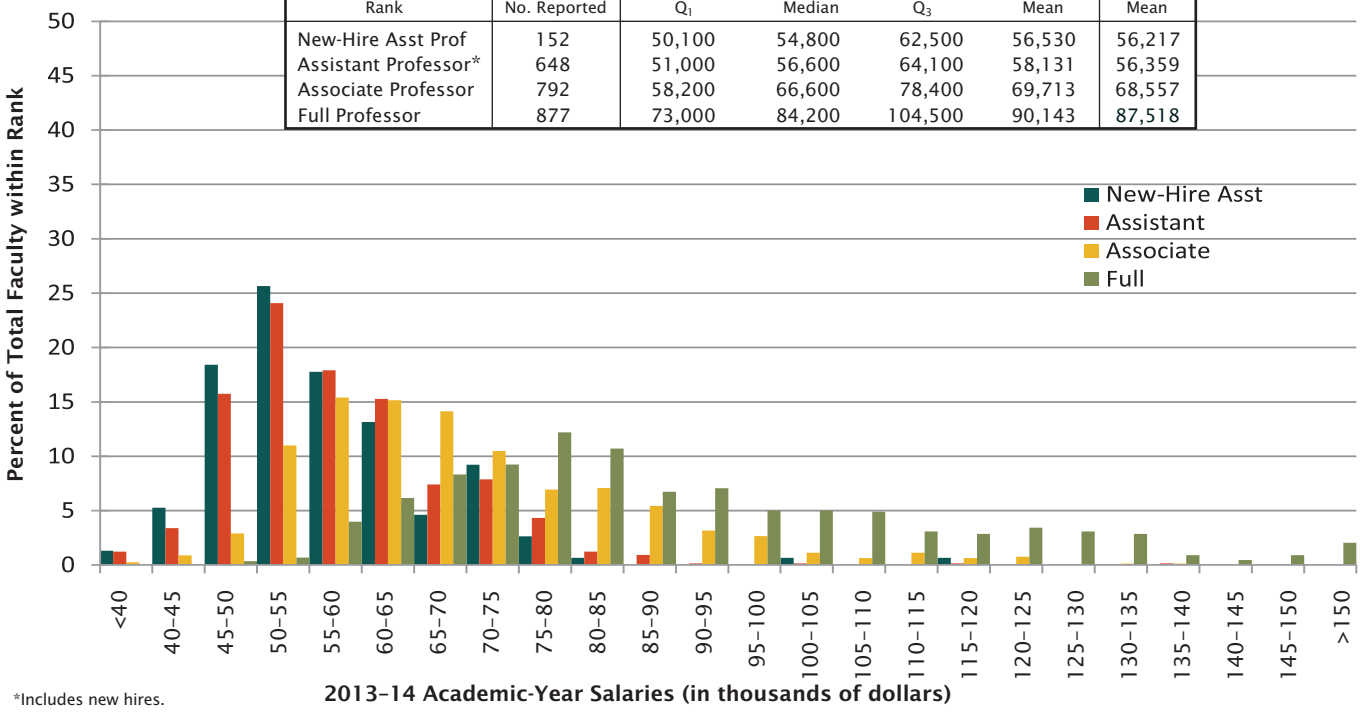
*Includes new hires.
**Faculty salary data provided by the American Statistical Association.

Bachelor's Group Faculty Salaries

Bachelor's degree-granting departments of mathematics

278 responses out of 1,002 departments (28%)

Rank	2013–14 No. Reported	Q_1	Median	Q_3	Mean	2012–13 Mean
New-Hire Asst Prof	152	50,100	54,800	62,500	56,530	56,217
Assistant Professor*	648	51,000	56,600	64,100	58,131	56,359
Associate Professor	792	58,200	66,600	78,400	69,713	68,557
Full Professor	877	73,000	84,200	104,500	90,143	87,518



*Includes new hires.

Departmental Groupings

Starting with reports on the 2012 AMS-ASA-IMS-MAA-SIAM Annual Survey of the Mathematical Sciences, the Joint Data Committee has implemented a new method for grouping the doctorate-granting mathematics departments. These departments are first grouped into those at public institutions and those at private institutions. These groups are further subdivided based on the size of their doctoral program as reflected in the average annual number of Ph.D.'s awarded between 2000 and 2010, based on their reports to the Annual Survey during this period. Furthermore, doctorate-granting departments which self-classify their Ph.D. program as being in applied mathematics will join with the other applied mathematics departments previously in Group Va to form their own group. The former Group IV will be divided into two groups, one for departments in statistics and one for departments in biostatistics.

For further details on the change in the doctoral department groupings see the article in the October 2012 issue of *Notices of the AMS* at `http:www.ams.org/notices/201209/rtx120901262p.pdf`.

Math. Public Large consists of departments with the highest annual rate of production of Ph.D.'s, with at least 7.0 per year.
Math. Public Medium consists of departments with an annual rate of production of Ph.D.'s, ranging between 3.9 and 6.9 per year.
Math. Public Small consists of departments with an annual rate of production of Ph.D.'s, with 3.8 per year or fewer.
Math. Private Large consists of departments with an annual rate of production of Ph.D.'s, with at least 3.9 per year.
Math. Private Small consists of departments with an annual rate of production of Ph.D.'s, with 3.8 per year or fewer.
Applied Mathematics consists of doctoral-degree-granting applied mathematics departments.
Statistics consists of doctoral-degree-granting statistics departments.
Biostatistics consists of doctoral-degree-granting biostatistics departments.
Group M contains U.S. departments granting a master's degree as the highest graduate degree.
Group B contains U.S. departments granting a bachelor's degree only.

Listings of the actual departments which compose these groups are available on the AMS website at `www.ams.org/annual-survey/groups`.

Obtain a Special Faculty Salaries Analysis

See how the salaries of your department's tenured/tenure-track faculty compare to those in similar departments. The only requirement is that your department must have responded to our latest Faculty Salary survey.

Send a list of your peer institutions (a minimum of 12 institutions is required) to ams-survey@ams.org along with the date the analysis is needed. (If not enough of your peer group have responded to the salary survey you'll be asked to provide additional institutions.) A minimum of two weeks is needed to complete a special analysis.

The analysis produced includes a listing of your peer group institutions along with their salary survey response status, a summary table including the rank (assistant, associate, and full professor), the number reported in each rank, the 1st quartile, median, 3rd quartile, and mean salaries for each along with bar graphs.

Acknowledgments

The Annual Survey attempts to provide an accurate appraisal and analysis of various aspects of the academic mathematical sciences scene for the use and benefit of the community and for filling the information needs of the professional organizations. Every year, college and university departments in the United States are invited to respond. The Annual Survey relies heavily on the conscientious efforts of the dedicated staff members of these departments for the quality of its information. On behalf of the Data Committee and the Annual Survey Staff, we thank the many secretarial and administrative staff members in the mathematical sciences departments for their cooperation and assistance in responding to the survey questionnaires.

About the Annual Survey

The Annual Survey series, begun in 1957 by the American Mathematical Society, is currently under the direction of the Data Committee, a joint committee of the American Mathematical Society, the American Statistical Association, the Mathematical Association of America, and the Society of Industrial and Applied Mathematics. The current members of this committee are Richard Cleary, David Cox, Charles Epstein, Sue Geller, Amanda Golbeck, Loek Helminck, Abbe H. Herzig, Ellen Kirkman, James W. Maxwell (ex officio), William Yslas Vélez (chair) and Edward Waymire. The committee is assisted by AMS survey analyst Colleen A. Rose. In addition, the Annual Survey is sponsored by the Institute of Mathematical Statistics. Comments or suggestions regarding this Survey Report may be emailed to the committee at ams-survey@ams.org.