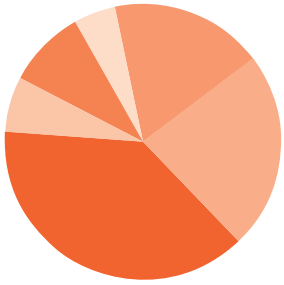


# 2011-2012 Faculty Salaries Report

*Richard Cleary, James W. Maxwell, and Colleen Rose*

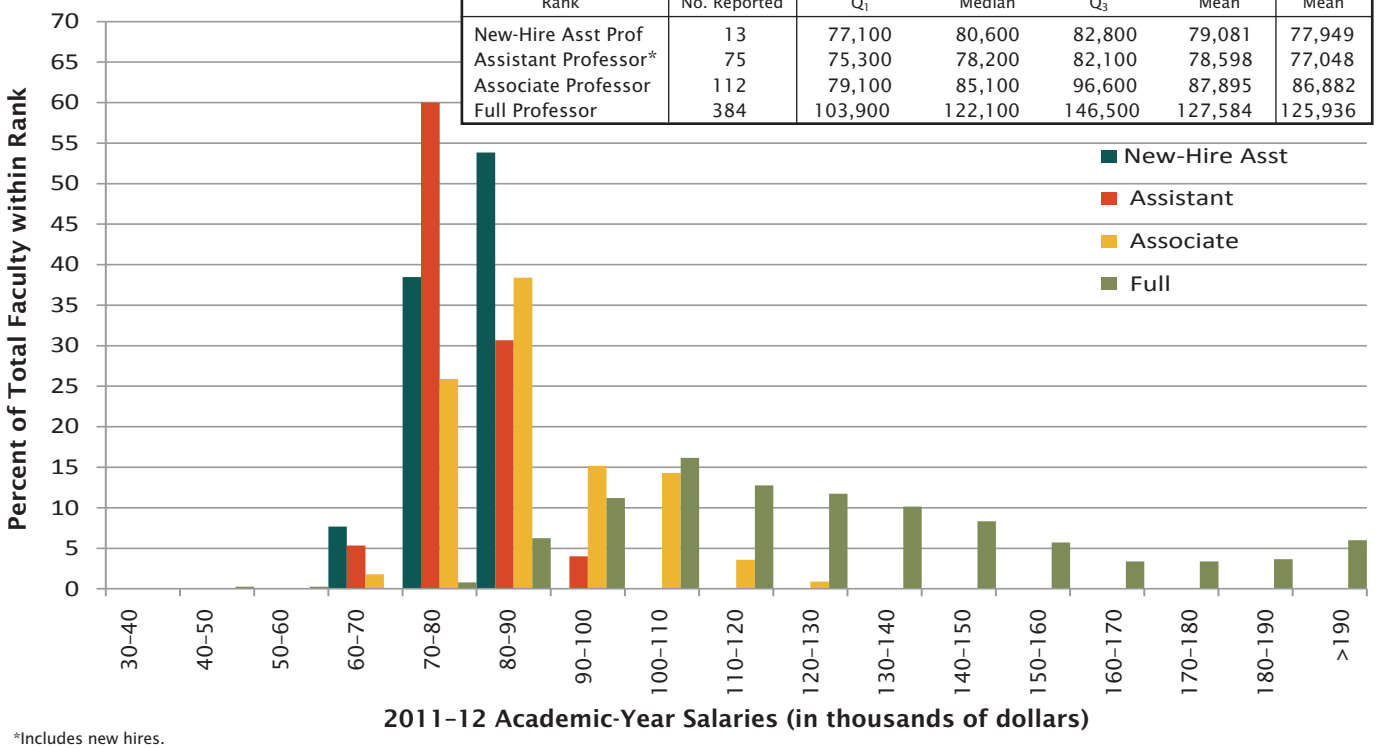
This report provides information on the distribution of 2011–2012 academic-year salaries for tenured and tenure-track faculty at four-year mathematical sciences departments in the U.S. by the departmental groupings used in the Annual Survey. (See page 415 for the definitions of the various departmental 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 2011–2012 academic-year salaries fell within given salary intervals. Reporting salary data in this fashion eliminates some of the concerns about confidentiality but does not permit determination of actual quartiles. 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.

**Group I (Public) Faculty Salaries**
**Doctoral degree-granting departments of mathematics**
13 responses out of 25 departments (52%)

| Rank | 2011–12 No. Reported | $Q_1$ | Median | $Q_3$ | Mean | 2010–11 Mean |
|---|---|---|---|---|---|---|
| New-Hire Asst Prof | 13 | 77,100 | 80,600 | 82,800 | 79,081 | 77,949 |
| Assistant Professor* | 75 | 75,300 | 78,200 | 82,100 | 78,598 | 77,048 |
| Associate Professor | 112 | 79,100 | 85,100 | 96,600 | 87,895 | 86,882 |
| Full Professor | 384 | 103,900 | 122,100 | 146,500 | 127,584 | 125,936 |




*Includes new hires.

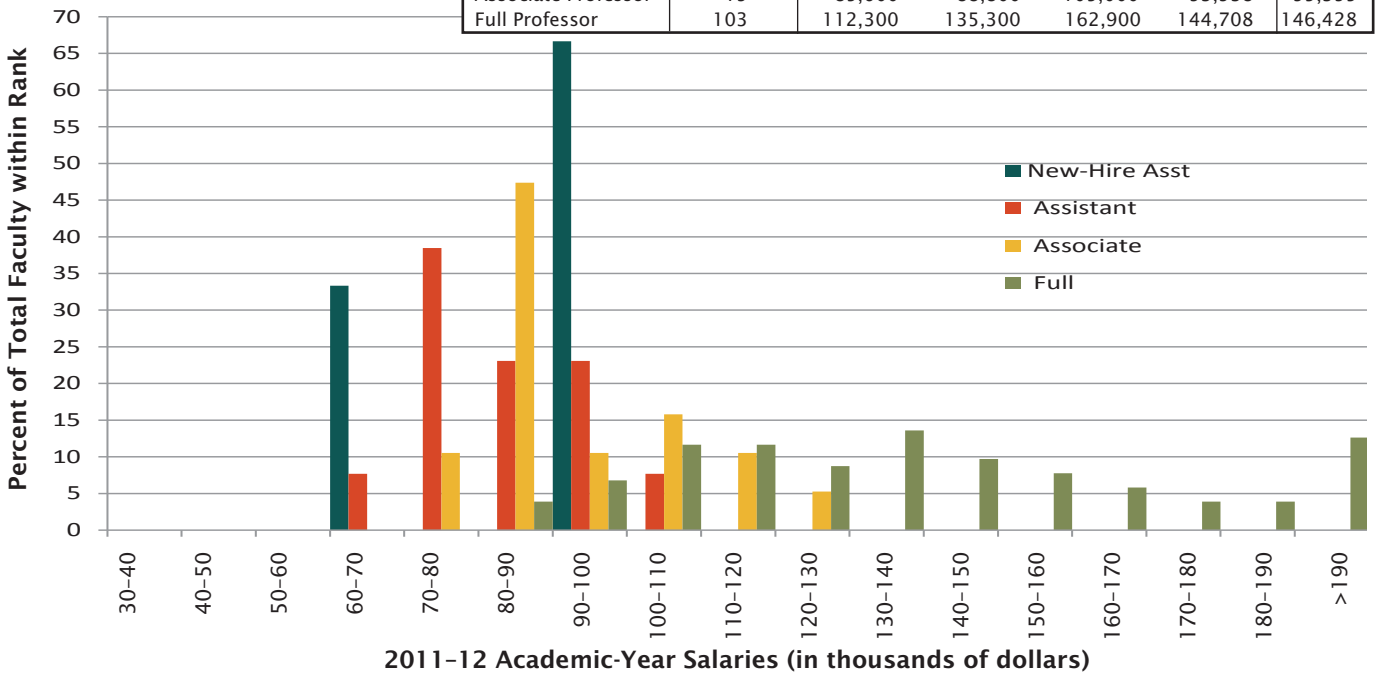
*Richard Cleary is a professor in the Department of Mathematical Sciences at Bentley University. James W. Maxwell is AMS associate executive director for special projects. Colleen A. Rose is AMS survey analyst.*

## Group I (Private) Faculty Salaries

**Doctoral degree-granting departments of mathematics**

5 responses out of 23 departments (22%)

| Rank | 2011–12 No. Reported | $Q_1$ | Median | $Q_3$ | Mean | 2010–11 Mean |
|---|---|---|---|---|---|---|
| New-Hire Asst Prof | 3 | Too few to report | | | | |
| Assistant Professor* | 13 | 76,500 | 81,700 | 91,900 | 83,528 | 76,571 |
| Associate Professor | 19 | 85,600 | 88,800 | 105,000 | 93,938 | 95,395 |
| Full Professor | 103 | 112,300 | 135,300 | 162,900 | 144,708 | 146,428 |

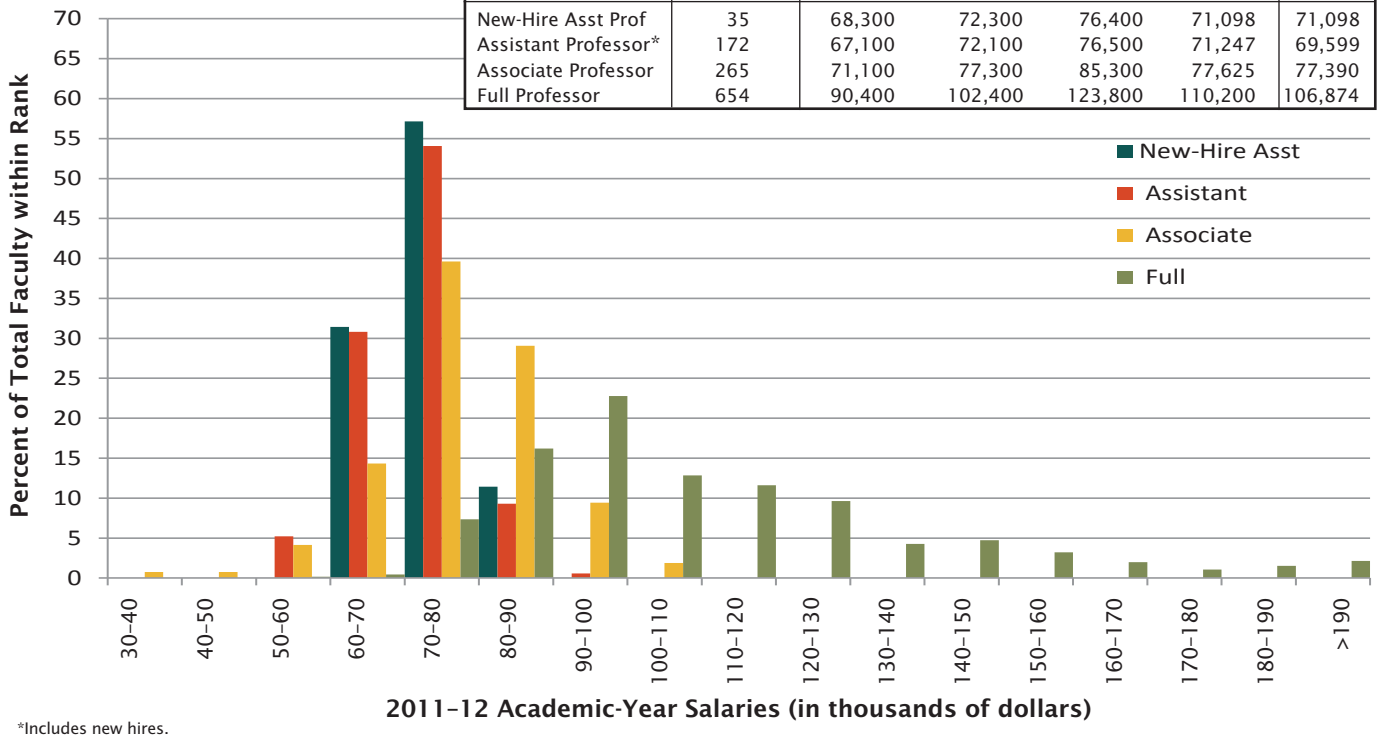



## Group II Faculty Salaries

**Doctoral degree-granting departments of mathematics**

33 responses out of 56 departments (59%)

| Rank | 2011–12 No. Reported | $Q_1$ | Median | $Q_3$ | Mean | 2010–11 Mean |
|---|---|---|---|---|---|---|
| New-Hire Asst Prof | 35 | 68,300 | 72,300 | 76,400 | 71,098 | 71,098 |
| Assistant Professor* | 172 | 67,100 | 72,100 | 76,500 | 71,247 | 69,599 |
| Associate Professor | 265 | 71,100 | 77,300 | 85,300 | 77,625 | 77,390 |
| Full Professor | 654 | 90,400 | 102,400 | 123,800 | 110,200 | 106,874 |



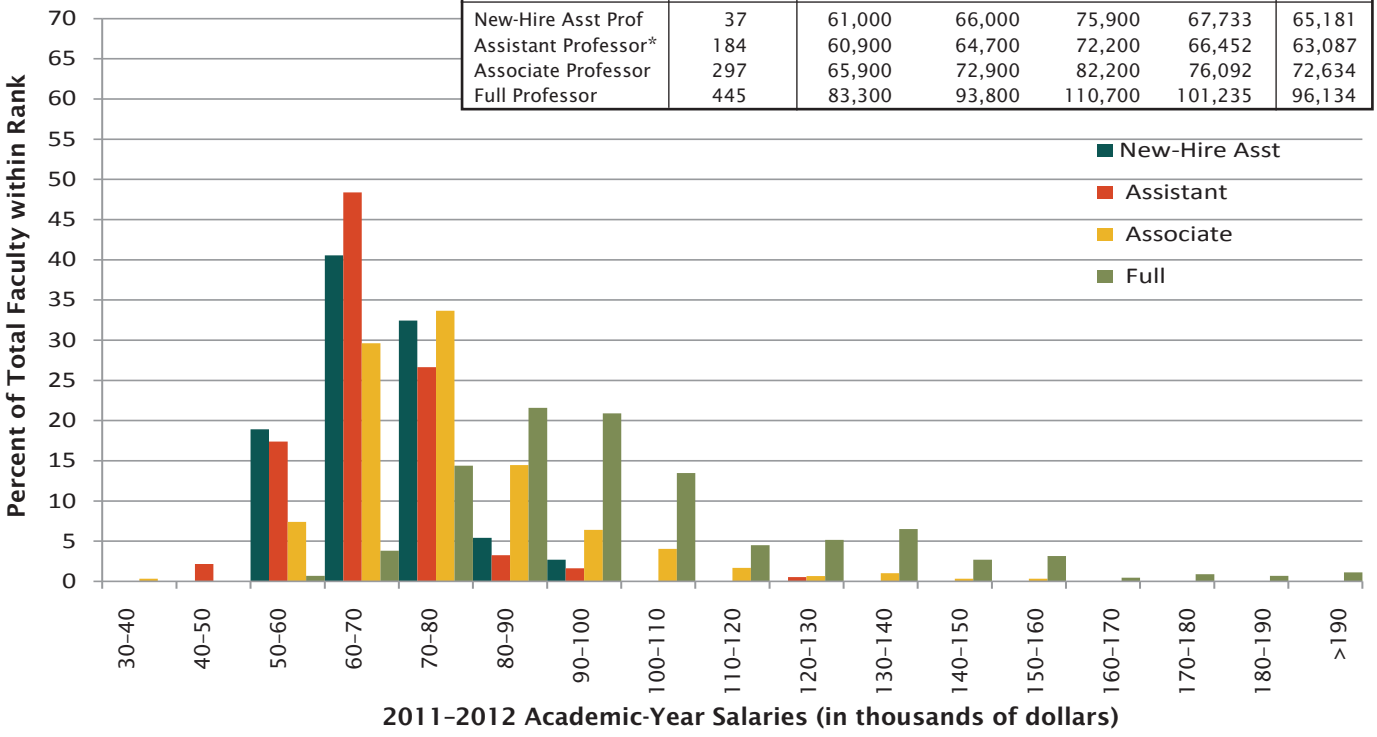

*Includes new hires.

## Group III Faculty Salaries

**Doctoral degree-granting departments of mathematics**

43 responses out of 80 departments (54%)

| Rank | 2011–12 No. Reported | $Q_1$ | Median | $Q_3$ | Mean | 2010–11 Mean |
|---|---|---|---|---|---|---|
| New-Hire Asst Prof | 37 | 61,000 | 66,000 | 75,900 | 67,733 | 65,181 |
| Assistant Professor* | 184 | 60,900 | 64,700 | 72,200 | 66,452 | 63,087 |
| Associate Professor | 297 | 65,900 | 72,900 | 82,200 | 76,092 | 72,634 |
| Full Professor | 445 | 83,300 | 93,800 | 110,700 | 101,235 | 96,134 |

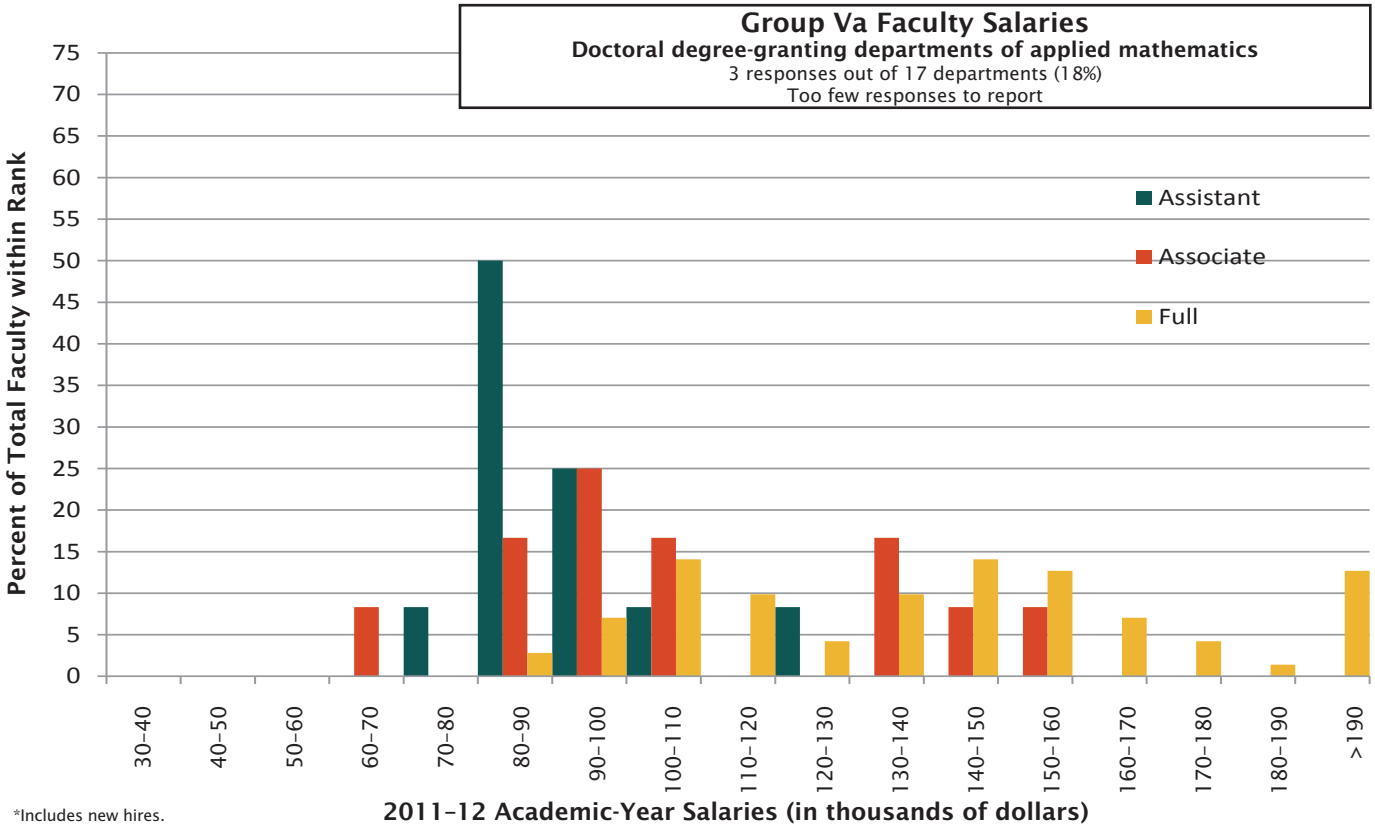



## Group Va Faculty Salaries

**Doctoral degree-granting departments of applied mathematics**

3 responses out of 17 departments (18%)

Too few responses to report



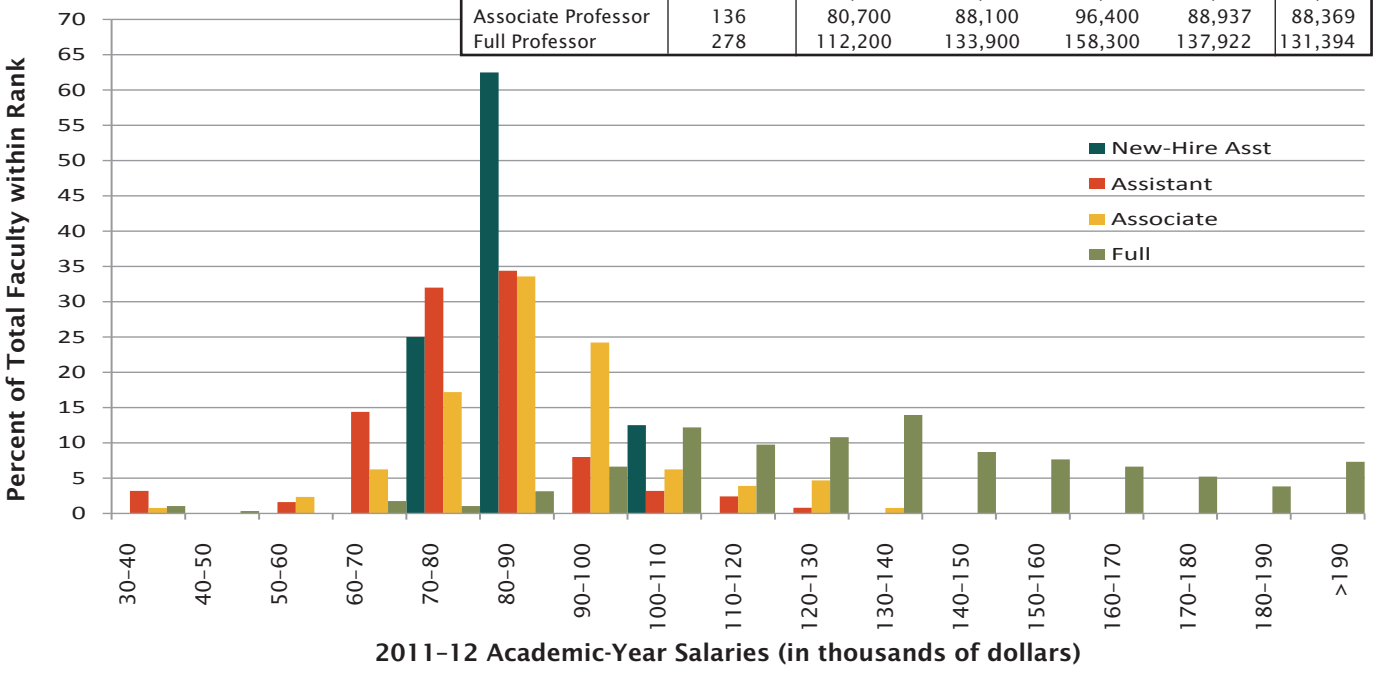

*Includes new hires.

## Group IV Statistics Faculty Salaries*

**Doctoral degree-granting departments of statistics**

35 responses out of 57 departments (61%)

| Rank | 2011–12 No. Reported | $Q_1$ | Median | $Q_3$ | Mean | 2010–11 Mean |
|---|---|---|---|---|---|---|
| New-Hire Asst Prof | 8 | Too few to report | | | | |
| Assistant Professor** | 115 | 74,500 | 80,200 | 85,400 | 79,749 | 77,847 |
| Associate Professor | 136 | 80,700 | 88,100 | 96,400 | 88,937 | 88,369 |
| Full Professor | 278 | 112,200 | 133,900 | 158,300 | 137,922 | 131,394 |

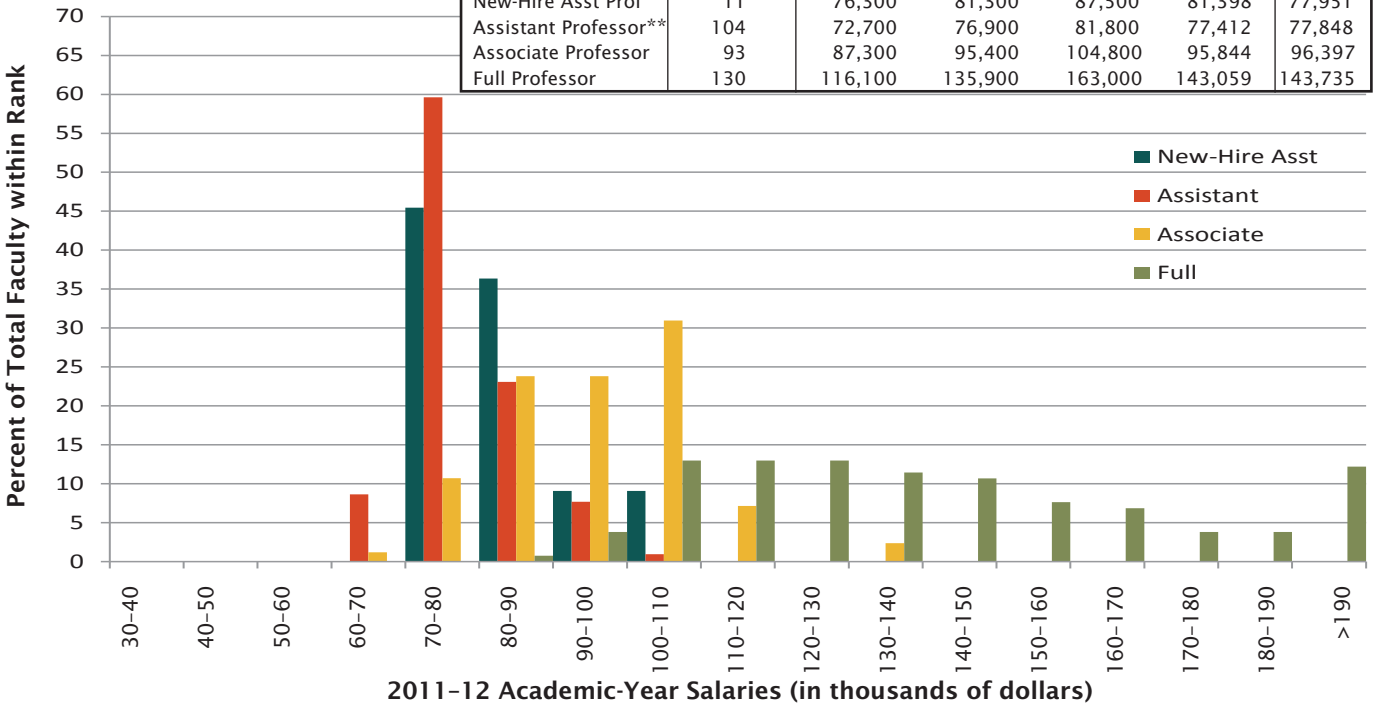



## Group IV Biostatistics Faculty Salaries*

**Doctoral degree-granting departments of biostatistics**

19 responses out of 35 departments (54%)

| Rank | 2011–12 No. Reported | $Q_1$ | Median | $Q_3$ | Mean | 2010–11 Mean |
|---|---|---|---|---|---|---|
| New-Hire Asst Prof | 11 | 76,300 | 81,300 | 87,500 | 81,398 | 77,951 |
| Assistant Professor** | 104 | 72,700 | 76,900 | 81,800 | 77,412 | 77,848 |
| Associate Professor | 93 | 87,300 | 95,400 | 104,800 | 95,844 | 96,397 |
| Full Professor | 130 | 116,100 | 135,900 | 163,000 | 143,059 | 143,735 |



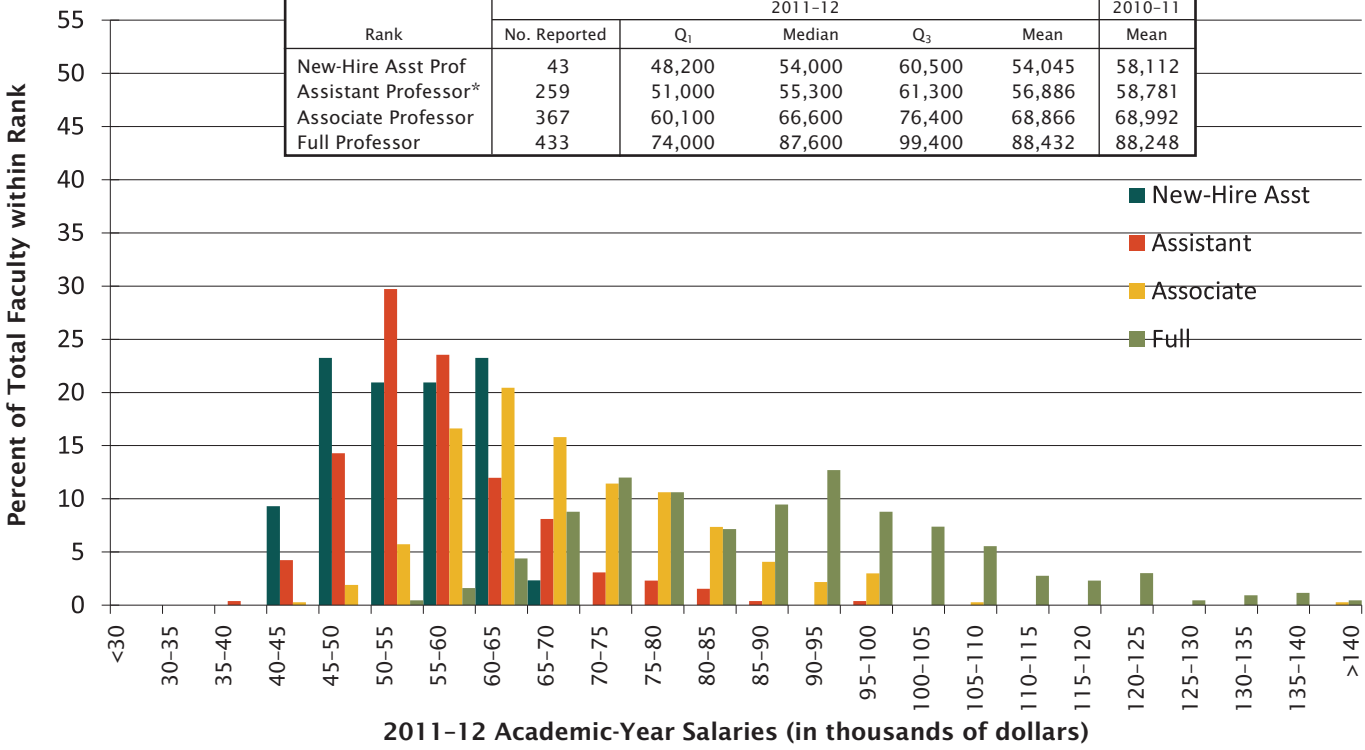

*Faculty salary data provided by the American Statistical Association.
**Includes new hires.

## Group M Faculty Salaries

**Master's degree-granting departments of mathematics**

58 responses out of 177 departments (33%)

| Rank | 2011–12 No. Reported | $Q_1$ | Median | $Q_3$ | Mean | 2010–11 Mean |
|---|---|---|---|---|---|---|
| New-Hire Asst Prof | 43 | 48,200 | 54,000 | 60,500 | 54,045 | 58,112 |
| Assistant Professor* | 259 | 51,000 | 55,300 | 61,300 | 56,886 | 58,781 |
| Associate Professor | 367 | 60,100 | 66,600 | 76,400 | 68,866 | 68,992 |
| Full Professor | 433 | 74,000 | 87,600 | 99,400 | 88,432 | 88,248 |

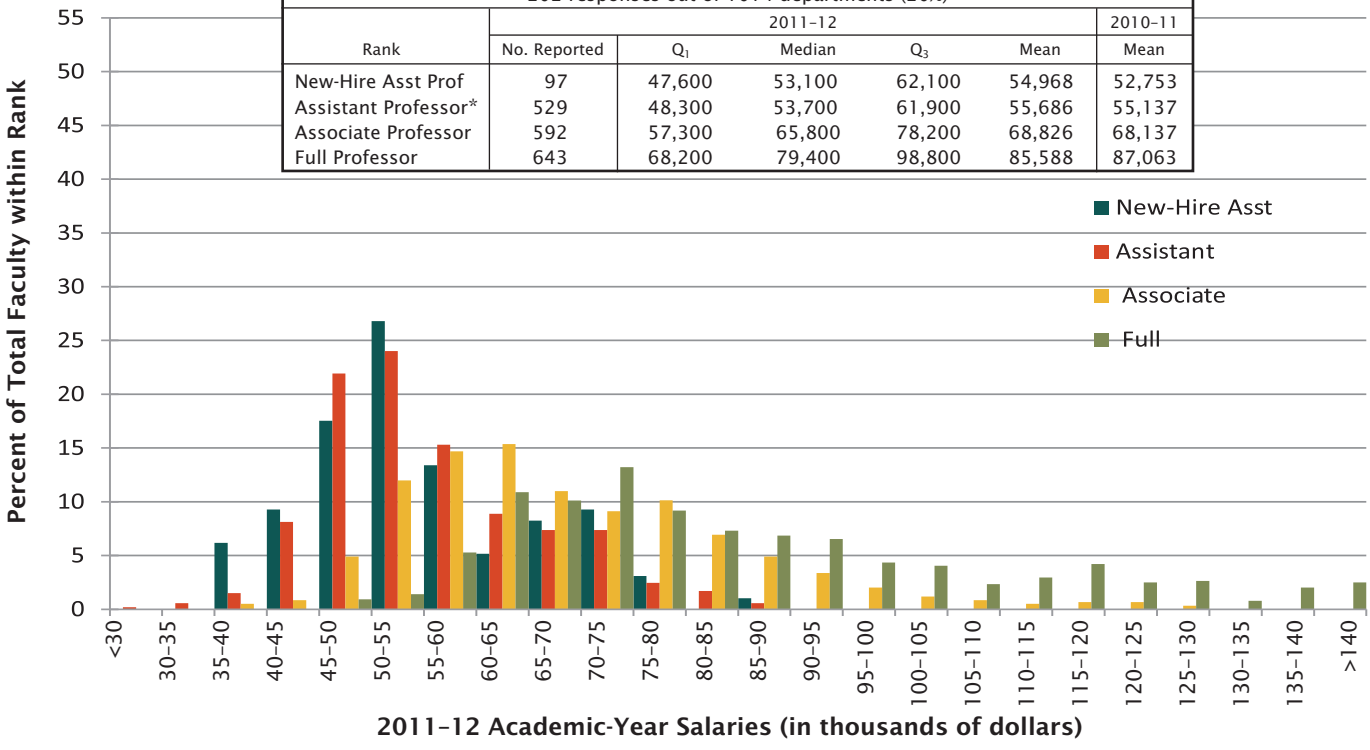



## Group B Faculty Salaries

**Bachelor's degree-granting departments of mathematics**

202 responses out of 1014 departments (20%)

| Rank | 2011–12 No. Reported | $Q_1$ | Median | $Q_3$ | Mean | 2010–11 Mean |
|---|---|---|---|---|---|---|
| New-Hire Asst Prof | 97 | 47,600 | 53,100 | 62,100 | 54,968 | 52,753 |
| Assistant Professor* | 529 | 48,300 | 53,700 | 61,900 | 55,686 | 55,137 |
| Associate Professor | 592 | 57,300 | 65,800 | 78,200 | 68,826 | 68,137 |
| Full Professor | 643 | 68,200 | 79,400 | 98,800 | 85,588 | 87,063 |




*Includes new hires.

# Other Information

## 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 with along 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.

## Acknowledgements

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.

## Previous Annual Survey Reports

The 2010 Report on New Doctoral Recipients, Faculty Salaries, Academic Recruitment and Hiring, and the Departmental Profile Survey Reports were published in the *Notices of the AMS* in the February, August, May 2011, and February 2012 issues respectively. These reports and earlier reports, as well as a wealth of other information from these surveys, are available on the AMS website at www.ams.org/annual-survey/survey-reports.

## Group Descriptions

**Group I** is composed of 48 departments with scores in the 3.00–5.00 range. Group I Public and Group I Private are Group I departments at public institutions and private institutions, respectively.

**Group II** is composed of 56 departments with scores in the 2.00–2.99 range.

**Group III** contains the remaining U.S. departments reporting a doctoral program, including a number of departments not included in the 1995 ranking of program faculty.

**Group IV** contains U.S. departments (or programs) of statistics, biostatistics, and biometrics reporting a doctoral program.

**Group V** contains U.S. departments (or programs) in applied mathematics/applied science, operations research, and management science which report a doctoral program.

**Group Va** is applied mathematics/applied science.

**Group M** contains U.S. departments granting a master's degree as the highest graduate degree.

**Group B** contains U.S. departments granting a baccalaureate degree only.

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

## Other Sources of Data

Visit the AMS website at www.ams.org/annual-survey/other-sources for a listing of additional sources of data on the Mathematical Sciences.

## 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 Pam Arroway, Richard Cleary (chair), Steven R. Dunbar, Susan Geller, Boris Hasselblatt, Abbe H. Herzig, Ellen Kirkman, Peter March, David R. Morrison, James W. Maxwell (ex officio), and Bart S. Ng. 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 directed to the committee.