

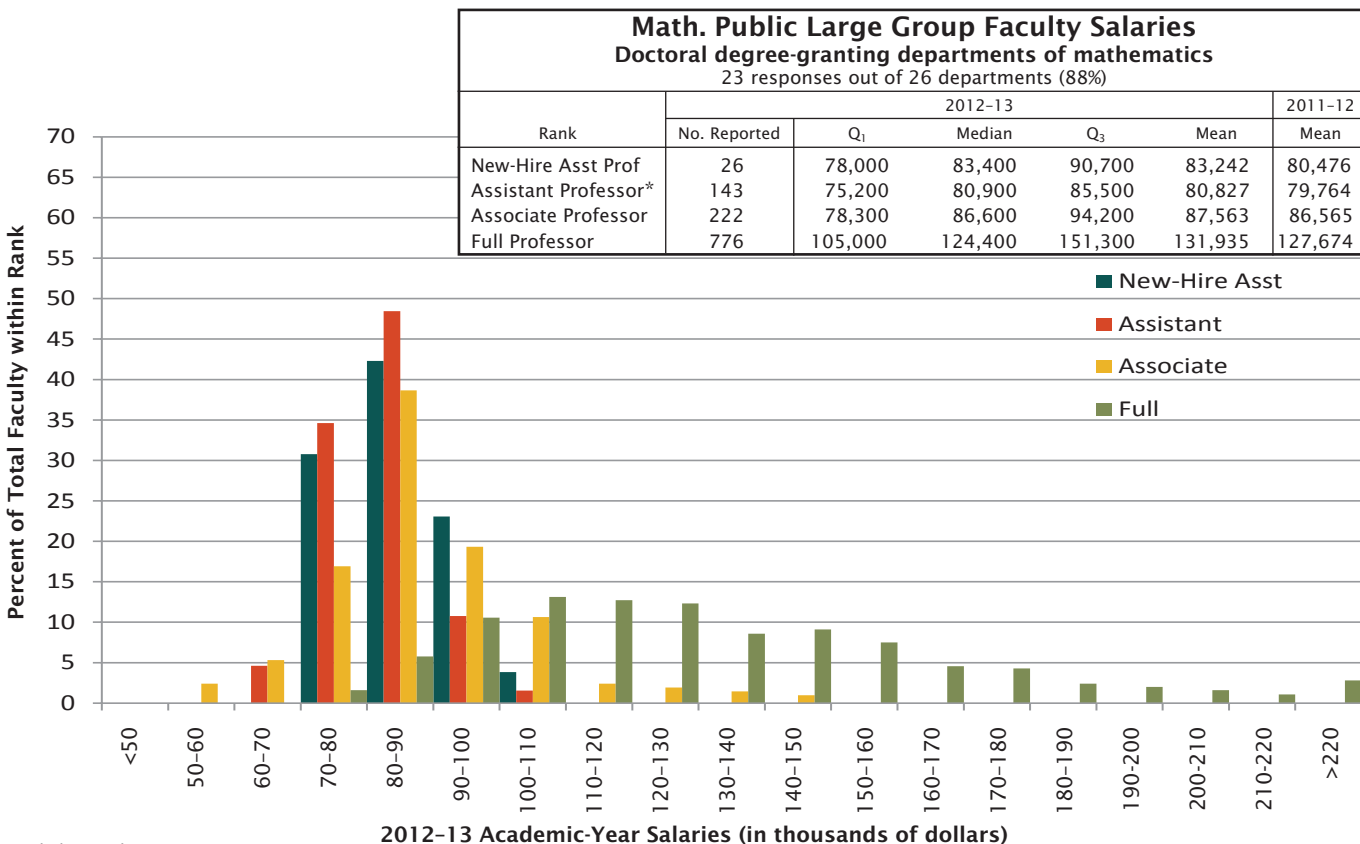
# 2012-2013 Faculty Salaries Report

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

This report provides information on the distribution of 2012–2013 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 431 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 2012–2013 academic-year salaries fell within given salary intervals. Reporting salary data in this fashion ensures confidentiality of individual responses, 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.

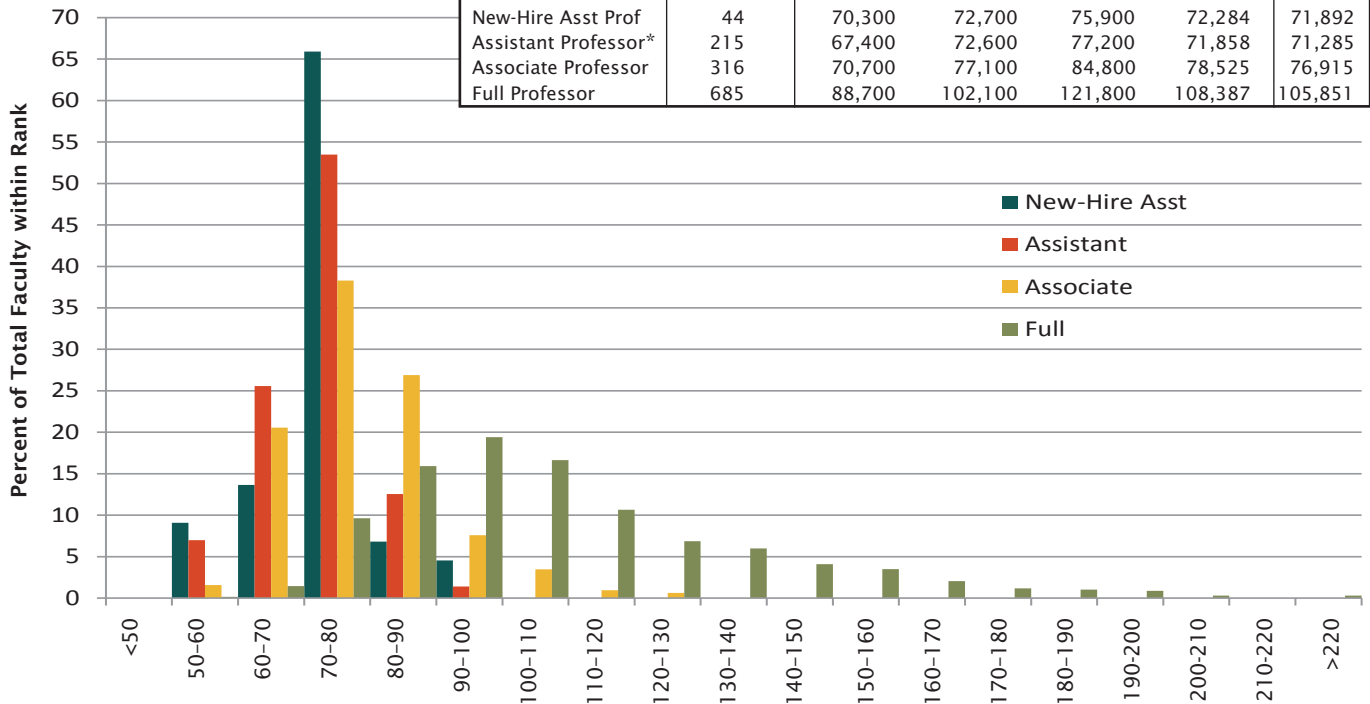
When comparing current and prior year figures, one should keep in mind that differences in the set of responding departments may be one of the most important factors in the change in the reported mean salaries. Note this report uses the new groupings of doctoral-granting mathematics departments recently adopted by the Joint Data Committee. Additional detail is provided on page 431.



\*Includes new hires.

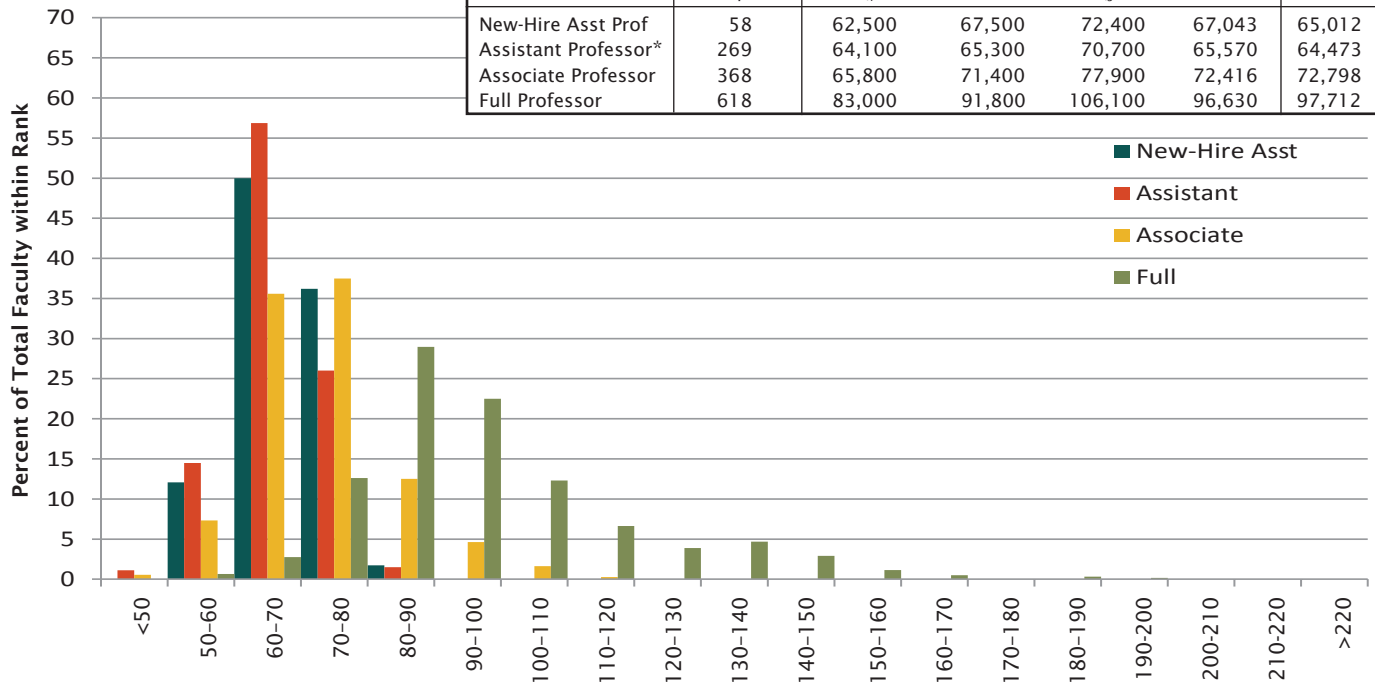
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| Math. Public Medium Group Faculty Salaries          |              |                |         |                |         |         |
|---|--------------|----------------|---------|----------------|---------|---------|
| Doctoral degree-granting departments of mathematics |              |                |         |                |         |         |
| 36 responses out of 40 departments (90%)            |              |                |         |                |         |         |
| Rank  | 2012-13      |                |         |                |         | 2011-12 |
|   | No. Reported | Q <sub>1</sub> | Median  | Q <sub>3</sub> | Mean    | Mean    |
| New-Hire Asst Prof                                  | 44           | 70,300         | 72,700  | 75,900         | 72,284  | 71,892  |
| Assistant Professor*                                | 215          | 67,400         | 72,600  | 77,200         | 71,858  | 71,285  |
| Associate Professor                                 | 316          | 70,700         | 77,100  | 84,800         | 78,525  | 76,915  |
| Full Professor                                      | 685          | 88,700         | 102,100 | 121,800        | 108,387 | 105,851 |



2012-13 Academic-Year Salaries (in thousands of dollars)

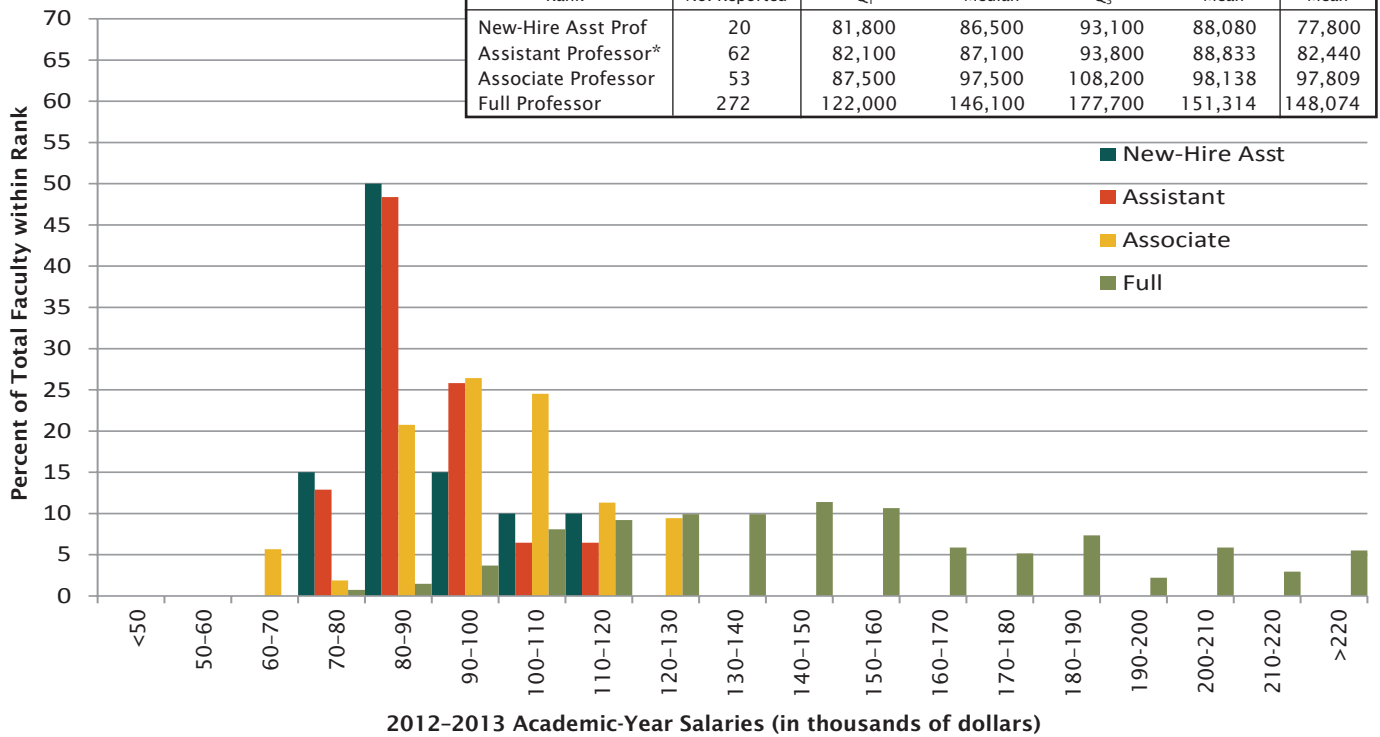
| Math. Public Small Group Faculty Salaries           |              |                |        |                |        |         |
|---|--------------|----------------|--------|----------------|--------|---------|
| Doctoral degree-granting departments of mathematics |              |                |        |                |        |         |
| 54 responses out of 64 departments (84%)            |              |                |        |                |        |         |
| Rank  | 2012-13      |                |        |                |        | 2011-12 |
|   | No. Reported | Q <sub>1</sub> | Median | Q <sub>3</sub> | Mean   | Mean    |
| New-Hire Asst Prof                                  | 58           | 62,500         | 67,500 | 72,400         | 67,043 | 65,012  |
| Assistant Professor*                                | 269          | 64,100         | 65,300 | 70,700         | 65,570 | 64,473  |
| Associate Professor                                 | 368          | 65,800         | 71,400 | 77,900         | 72,416 | 72,798  |
| Full Professor                                      | 618          | 83,000         | 91,800 | 106,100        | 96,630 | 97,712  |



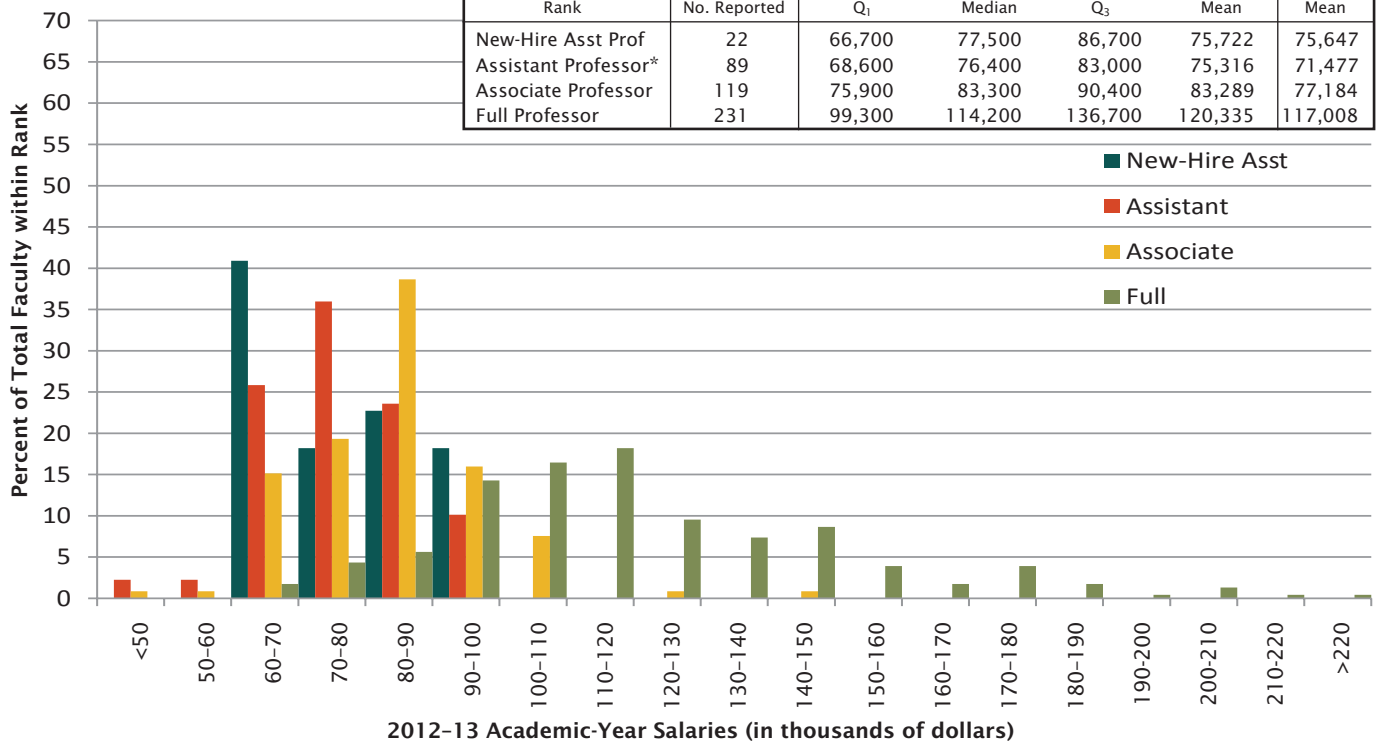
2012-13 Academic-Year Salaries (in thousands of dollars)

\*Includes new hires.

| Math. Private Large Group Faculty Salaries          |              |                |         |                |         |         |
|---|--------------|----------------|---------|----------------|---------|---------|
| Doctoral degree-granting departments of mathematics |              |                |         |                |         |         |
| 17 responses out of 24 departments (71%)            |              |                |         |                |         |         |
| Rank  | 2012-13      |                |         |                |         | 2011-12 |
|   | No. Reported | Q <sub>1</sub> | Median  | Q <sub>3</sub> | Mean    | Mean    |
| New-Hire Asst Prof                                  | 20           | 81,800         | 86,500  | 93,100         | 88,080  | 77,800  |
| Assistant Professor*                                | 62           | 82,100         | 87,100  | 93,800         | 88,833  | 82,440  |
| Associate Professor                                 | 53           | 87,500         | 97,500  | 108,200        | 98,138  | 97,809  |
| Full Professor                                      | 272          | 122,000        | 146,100 | 177,700        | 151,314 | 148,074 |

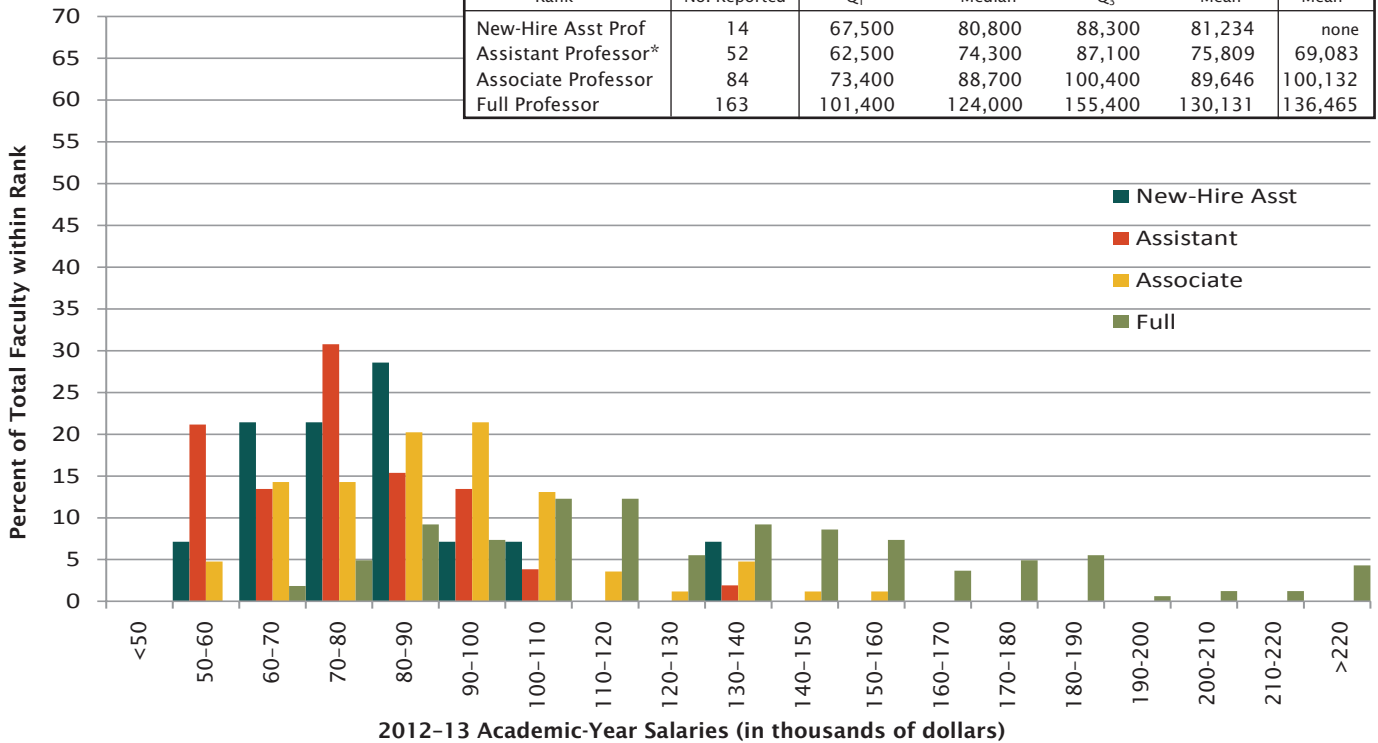


| Math. Private Small Group Faculty Salaries          |              |                |         |                |         |         |
|---|--------------|----------------|---------|----------------|---------|---------|
| Doctoral degree-granting departments of mathematics |              |                |         |                |         |         |
| 23 responses out of 28 departments (82%)            |              |                |         |                |         |         |
| Rank  | 2012-13      |                |         |                |         | 2011-12 |
|   | No. Reported | Q <sub>1</sub> | Median  | Q <sub>3</sub> | Mean    | Mean    |
| New-Hire Asst Prof                                  | 22           | 66,700         | 77,500  | 86,700         | 75,722  | 75,647  |
| Assistant Professor*                                | 89           | 68,600         | 76,400  | 83,000         | 75,316  | 71,477  |
| Associate Professor                                 | 119          | 75,900         | 83,300  | 90,400         | 83,289  | 77,184  |
| Full Professor                                      | 231          | 99,300         | 114,200 | 136,700        | 120,335 | 117,008 |

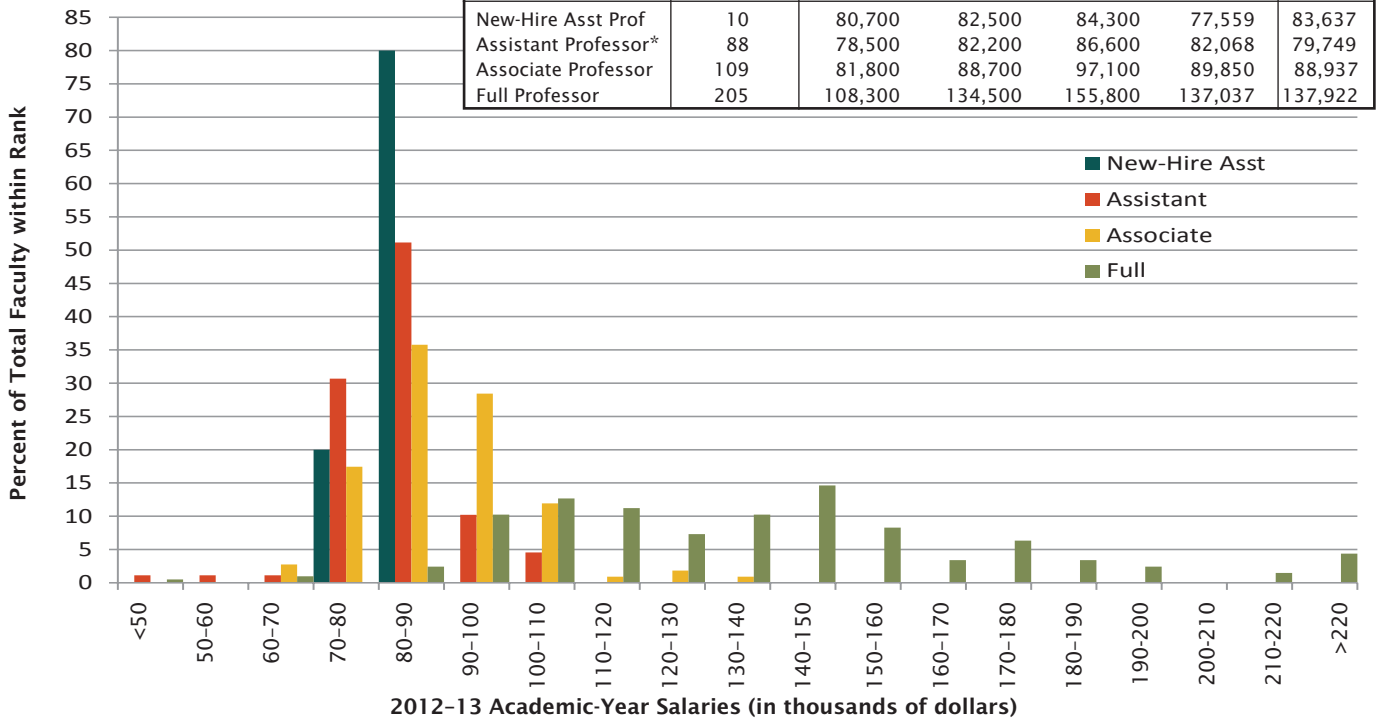


\*Includes new hires.

| Applied Mathematics Group Faculty Salaries                  |              |                |         |                |         |         |
|---|--------------|----------------|---------|----------------|---------|---------|
| Doctoral degree-granting departments of Applied Mathematics |              |                |         |                |         |         |
| 19 responses out of 30 departments (63%)                    |              |                |         |                |         |         |
| Rank  | 2012-13      |                |         |                |         | 2011-12 |
|   | No. Reported | Q <sub>1</sub> | Median  | Q <sub>3</sub> | Mean    | Mean    |
| New-Hire Asst Prof  | 14           | 67,500         | 80,800  | 88,300         | 81,234  | none    |
| Assistant Professor*  | 52           | 62,500         | 74,300  | 87,100         | 75,809  | 69,083  |
| Associate Professor   | 84           | 73,400         | 88,700  | 100,400        | 89,646  | 100,132 |
| Full Professor  | 163          | 101,400        | 124,000 | 155,400        | 130,131 | 136,465 |

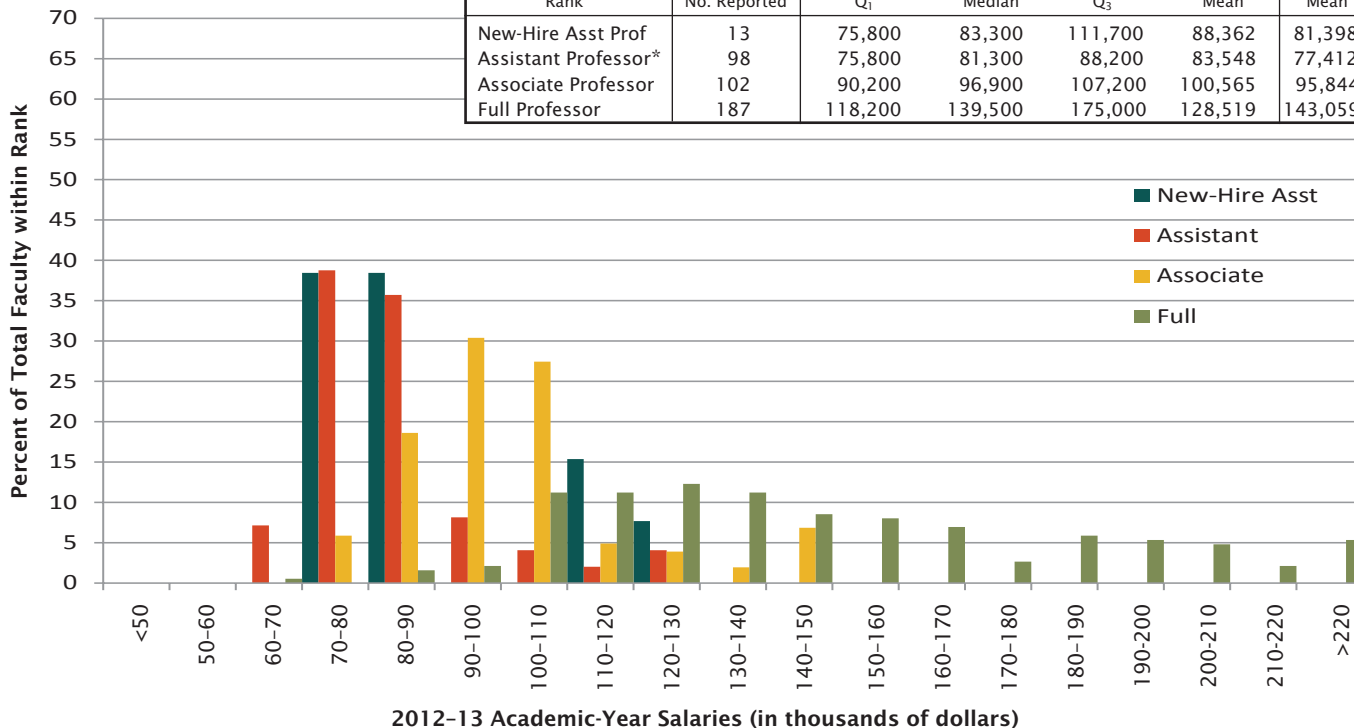


| Statistics Group Faculty Salaries**                |              |                |         |                |         |         |
|--|--------------|----------------|---------|----------------|---------|---------|
| Doctoral degree-granting departments of statistics |              |                |         |                |         |         |
| 26 responses out of 58 departments (44%)           |              |                |         |                |         |         |
| Rank   | 2012-13      |                |         |                |         | 2011-12 |
|  | No. Reported | Q <sub>1</sub> | Median  | Q <sub>3</sub> | Mean    | Mean    |
| New-Hire Asst Prof                                 | 10           | 80,700         | 82,500  | 84,300         | 77,559  | 83,637  |
| Assistant Professor*                               | 88           | 78,500         | 82,200  | 86,600         | 82,068  | 79,749  |
| Associate Professor                                | 109          | 81,800         | 88,700  | 97,100         | 89,850  | 88,937  |
| Full Professor                                     | 205          | 108,300        | 134,500 | 155,800        | 137,037 | 137,922 |

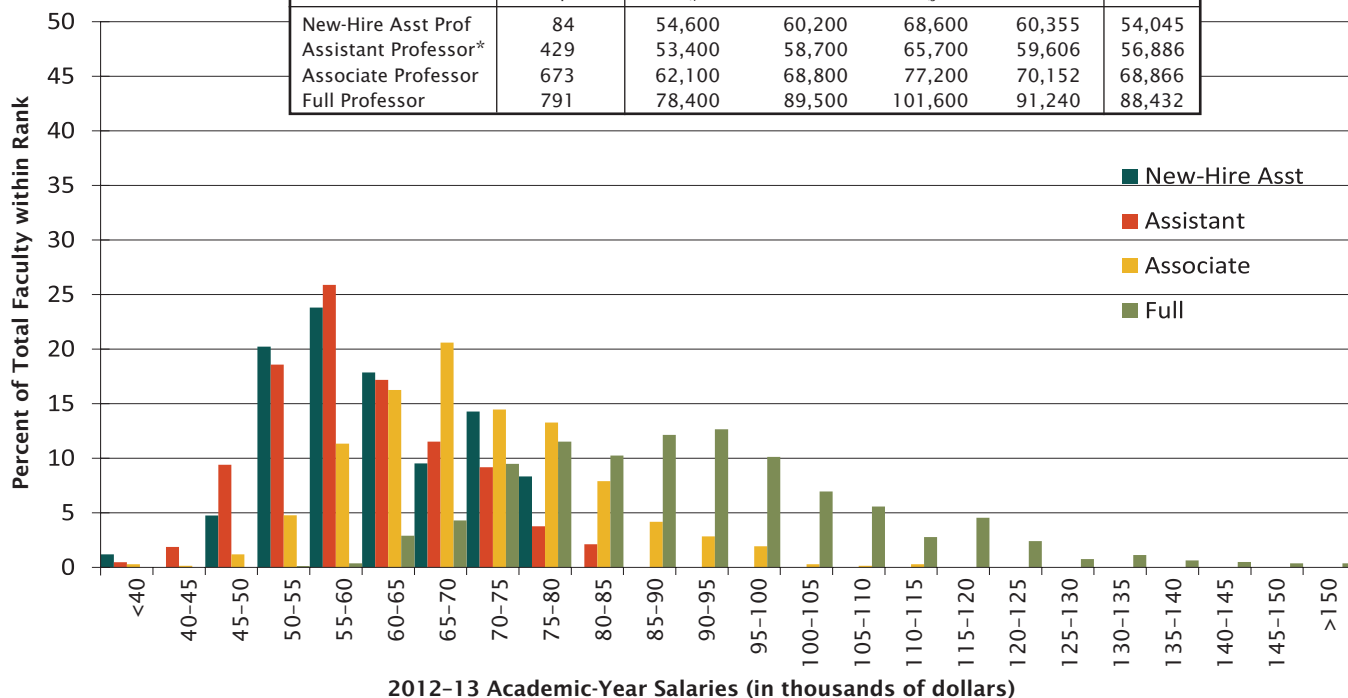


\*Includes new hires.  
 \*\*Faculty salary data provided by the American Statistical Association.

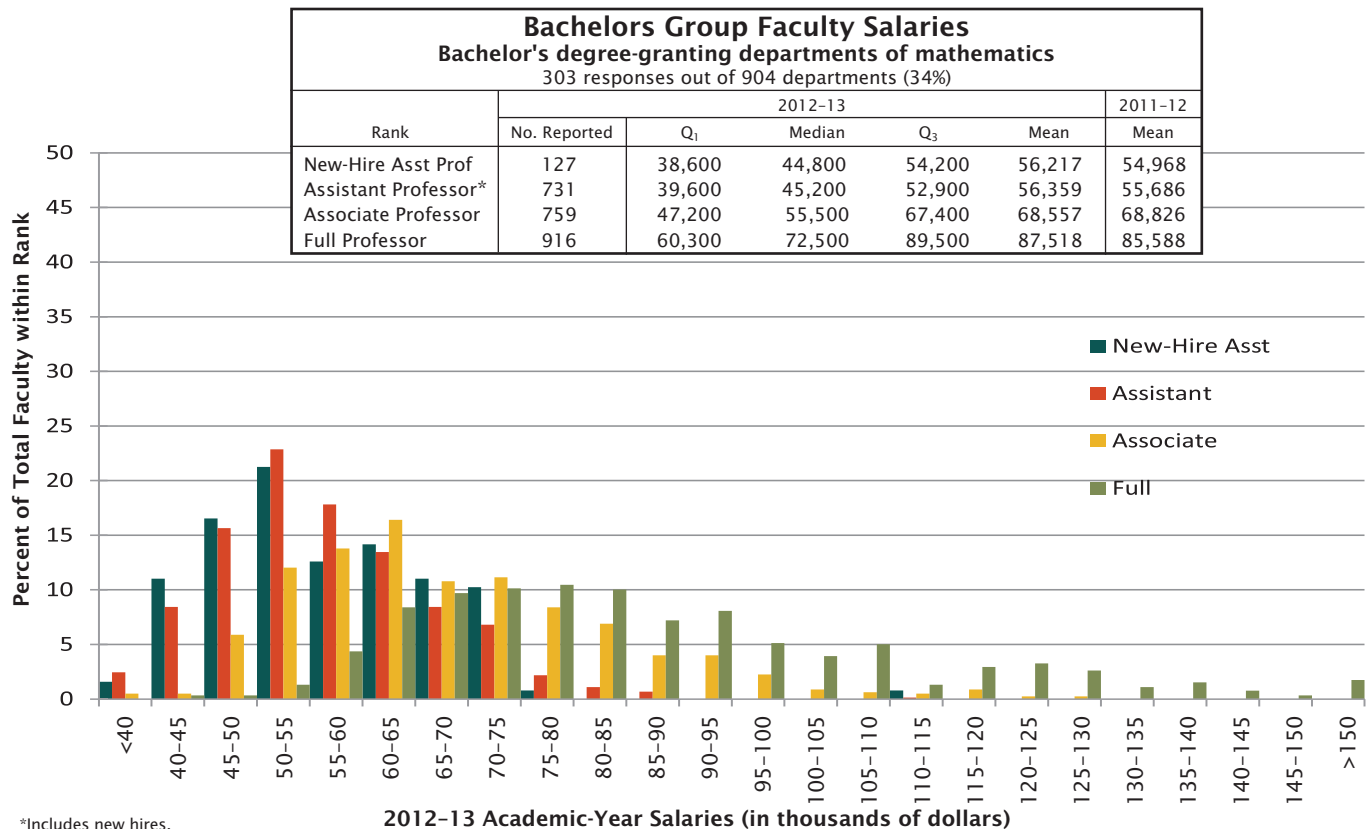
| Biostatistics Group Faculty Salaries**                |              |                |         |                |         |         |
|---|--------------|----------------|---------|----------------|---------|---------|
| Doctoral degree-granting departments of biostatistics |              |                |         |                |         |         |
| 20 responses out of 35 departments (56%)              |              |                |         |                |         |         |
| Rank  | 2012-13      |                |         |                |         | 2011-12 |
|   | No. Reported | Q <sub>1</sub> | Median  | Q <sub>3</sub> | Mean    | Mean    |
| New-Hire Asst Prof                                    | 13           | 75,800         | 83,300  | 111,700        | 88,362  | 81,398  |
| Assistant Professor*                                  | 98           | 75,800         | 81,300  | 88,200         | 83,548  | 77,412  |
| Associate Professor                                   | 102          | 90,200         | 96,900  | 107,200        | 100,565 | 95,844  |
| Full Professor  | 187          | 118,200        | 139,500 | 175,000        | 128,519 | 143,059 |



| Masters Group Faculty Salaries                      |              |                |        |                |        |         |
|---|--------------|----------------|--------|----------------|--------|---------|
| Master's degree-granting departments of mathematics |              |                |        |                |        |         |
| 104 responses out of 180 departments (58%)          |              |                |        |                |        |         |
| Rank  | 2012-13      |                |        |                |        | 2011-12 |
|   | No. Reported | Q <sub>1</sub> | Median | Q <sub>3</sub> | Mean   | Mean    |
| New-Hire Asst Prof                                  | 84           | 54,600         | 60,200 | 68,600         | 60,355 | 54,045  |
| Assistant Professor*                                | 429          | 53,400         | 58,700 | 65,700         | 59,606 | 56,886  |
| Associate Professor                                 | 673          | 62,100         | 68,800 | 77,200         | 70,152 | 68,866  |
| Full Professor                                      | 791          | 78,400         | 89,500 | 101,600        | 91,240 | 88,432  |



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



## 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 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 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](http://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](mailto: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.

### 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 Pam Arroway, Richard Cleary (chair), Steven R. Dunbar, Sue Geller, Boris Hasselblatt, Ellen Kirkman, Peter March, David R. Morrison, James W. Maxwell (ex officio), Bart S. Ng, and William Velez. 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](mailto:ams-survey@ams.org).