

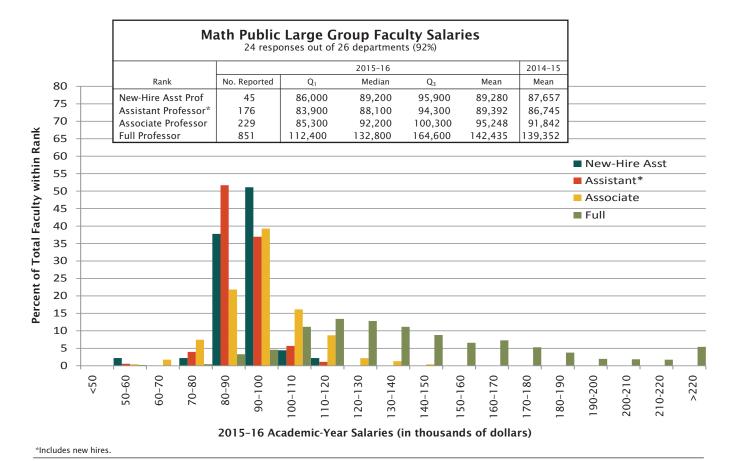
# 2015–2016 Faculty Salaries Report

William Yslas Vélez, Thomas H. Barr, and Colleen A. Rose

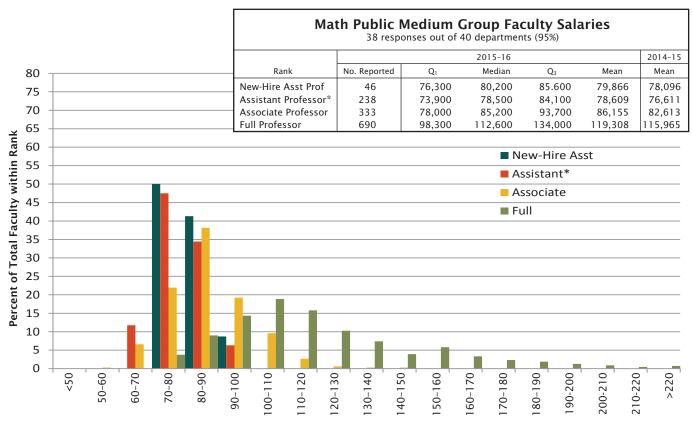
This salary report is one part of the Annual Survey of Mathematical Sciences, a nationwide survey administered by the AMS on behalf of the American Statistical Association, the Institute for Mathematical Statistics, the Mathematical Association of America, and the Society for Industrial and Applied Mathematics. It provides a look at the salaries of faculty in the Mathematical Sciences in the US by rank in several different department groupings based on discipline, highest degree offered, and graduate counts. The graphs here are identified by those group names, and the group definitions are given at the end of the report.

Departments were asked to report for each rank the number of tenured and tenure-track faculty whose 2015–16 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.

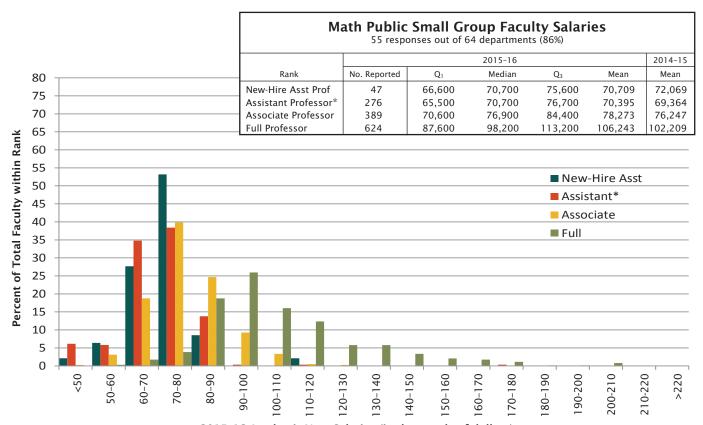
Faculty Salary Reports from prior years are at www.ams.org/profession/data/annual-survey/facsal. Interpretation of historical trends should be made with some care. For instance, one factor influencing changes in the mean of reported salaries year to year may be differences in the set of responding departments within the groups.



William Yslas Vélez is a professor in the Department of Mathematics at the University of Arizona. Thomas H. Barr is AMS Special Projects Officer. Colleen A. Rose is AMS survey analyst.

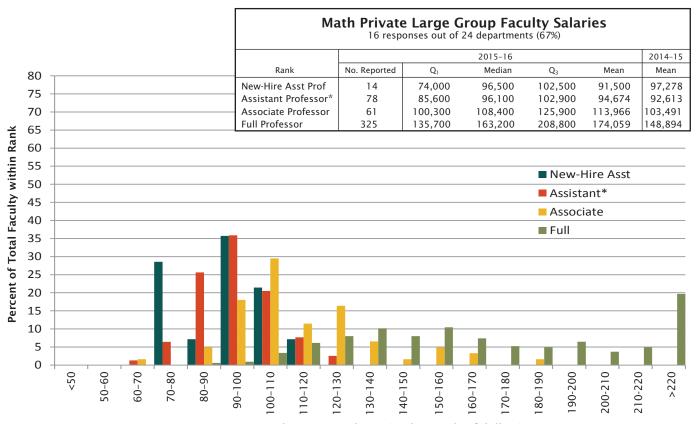


2015-16 Academic-Year Salaries (in thousands of dollars)

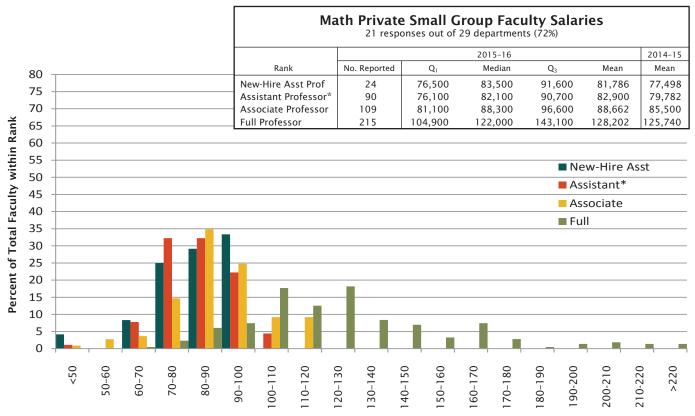


2015-16 Academic-Year Salaries (in thousands of dollars)

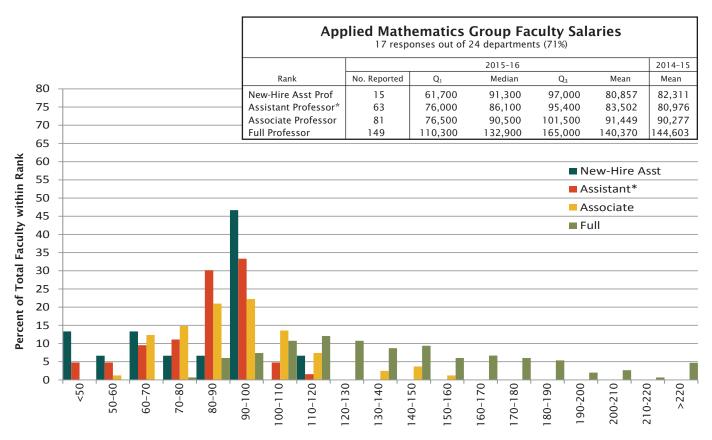
\*Includes new hires.



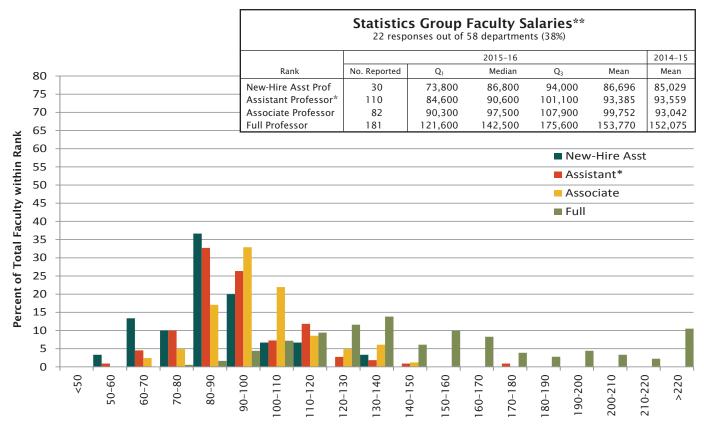
2015-2016 Academic-Year Salaries (in thousands of dollars)



2015-16 Academic-Year Salaries (in thousands of dollars)

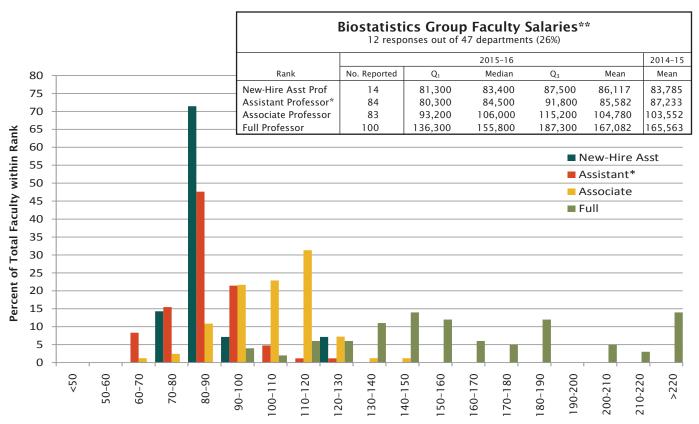


2015-16 Academic-Year Salaries (in thousands of dollars)

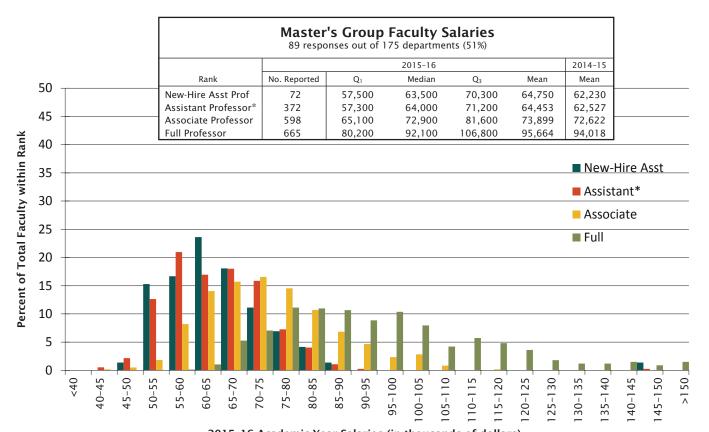


2015-16 Academic-Year Salaries (in thousands of dollars)

<sup>\*</sup>Includes new hires.
\*\*Faculty salary data provided by the American Statistical Association.

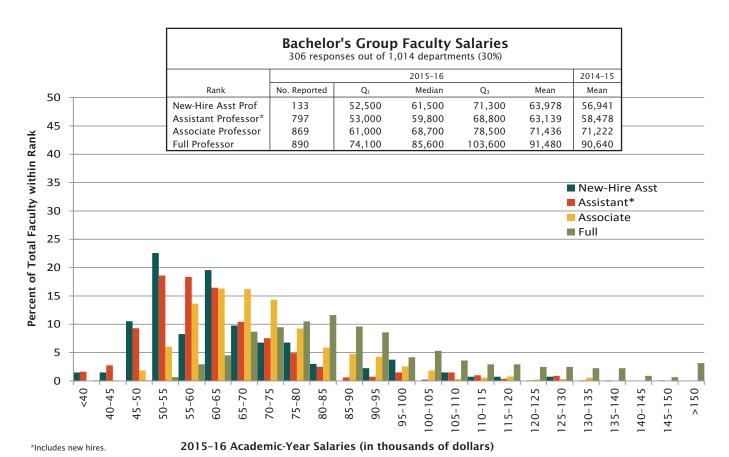


2015-16 Academic-Year Salaries (in thousands of dollars)



2015-16 Academic-Year Salaries (in thousands of dollars)

<sup>\*</sup>Includes new hires. \*\*Faculty salary data provided by the American Statistical Association.



## **Departmental Groupings**

In this report, Mathematical Sciences departments are those in four-year institutions in the US that refer to themselves with a name that incorporates (with a few exceptions) "Mathematics" or "Statistics" in some form. For instance, the term includes, but is not limited to, departments of "Mathematics," "Mathematical Sciences," "Mathematics and Statistics," "Mathematics and Computer Science," "Applied Mathematics," "Statistics," and "Biostatistics." Also, *Mathematics (Math)* refers to departments that (with exceptions) have "mathematics" in the name; *Statistics* refers to departments that incorporate (again, with exceptions) "statistics" in the name but do not use "mathematics." The streamlining of language here militates against the possible objection to foreshortening the full subject names.

Starting with reports on the 2012 AMS-ASA-IMS-MAA-SIAM Annual Survey of the Mathematical Sciences, the Joint Data Committee implemented a new method for grouping 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 PhDs awarded between 2000 and 2010, based on their reports to the Annual Survey during that period.

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 www.ams.org/journals/notices/201209/rtx120901262p.pdf.

 $\textbf{Math Public Large} \ consists \ of \ departments \ with \ the \ highest \ annual \ rate \ of \ production \ of \ PhDs, \ ranging \ between \ 7.0 \ and \ 24.2 \ per \ year.$ 

Math Public Medium consists of departments with an annual rate of production of PhDs, ranging between 3.9 and 6.9 per year.

Math Public Small consists of departments with an annual rate of production of PhDs of 3.8 or less per year.

Math Private Large consists of departments with an annual rate of production of PhDs, ranging between 3.9 and 19.8 per year.

Math Private Small consists of departments with an annual rate of production of PhDs of 3.8 or less per year.

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.

Master's contains US departments granting a Master's degree as the highest graduate degree.

Bachelor's contains US departments granting a Baccalaureate degree only.

Doctoral Math contains all US math public, math private, and applied math mathematics departments granting a PhD as the highest graduate degree.

Mathematics contains all US math public, math private, and applied math, Master's, and Bachelor's groups above.

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

### Obtain a Special Faculty Salaries Analysis

Each year AMS provides a limited number of special faculty salary analyses to departments requesting them. These reports are based on data gathered through the Survey and provide more nuanced comparisons with similar institutions than is possible with the Faculty Salaries Report. In order to receive a special analysis, your department must have responded to the most recent Faculty Survey.

Send a list of your peer institutions (a minimum of 12 institutions is required) to ams-survey@ams.org along with the date by which 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.

#### 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.

#### **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. A list of current members of this committee can be found at www.ams.org/annual-survey/AMS-ASA-IMS-MAA-SIAM-Data-Committee.pdf. Comments or suggestions regarding this Survey Report may be emailed to the committee at ams-survey@ams.org.