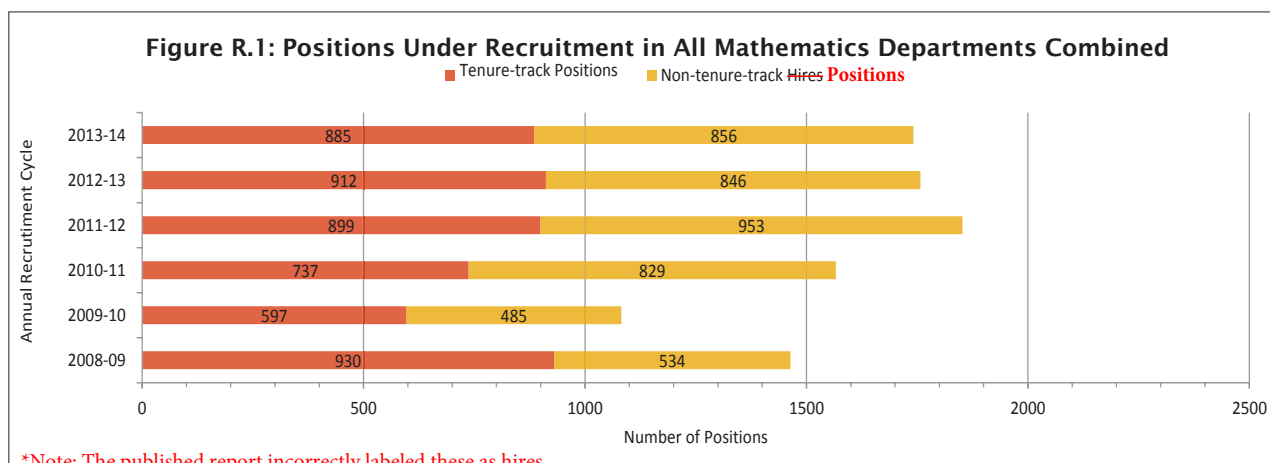


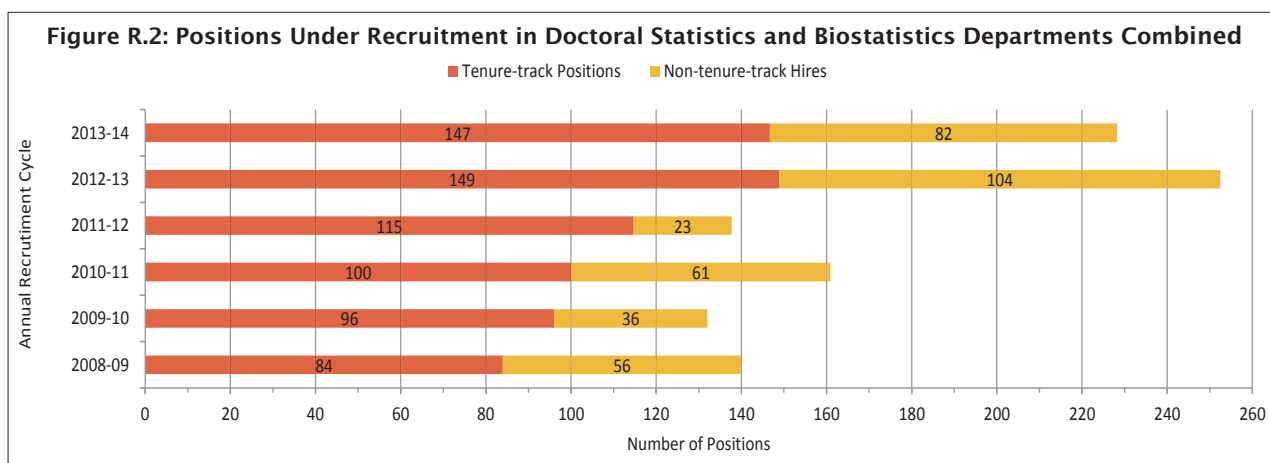
Report on 2013–2014 Academic Recruitment and Hiring

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

The number of full-time positions under recruitment in mathematics departments was 1,741 during the 2013–14 academic recruitment cycle (for employment beginning in fall 2014). Recruitment of tenure-track positions increased in doctoral and masters departments and decreased in bachelors departments. When compared to the 2003–04 recruitment cycle, a year that was representative of the years from 2003–07, total tenure-track positions are down 22% (from 1,128) and non-tenure-track positions are up 45% (from 593).



The doctoral statistics and biostatistics department groupings each reported a decrease (4% and 10%) in the number of positions under recruitment over the numbers reported for the prior year, an (estimated¹) combined total of 228 positions under recruitment for the 2013–14 recruitment cycle. Compared to the 2008–09 data, the total number of positions increased by 63% and the numbers of tenure-track and of non-tenure-track full-time positions represent an increase of 75% and 46%, respectively. Looking back even further to the 2003–04 data we see that the number of non-tenure-track full-time positions has doubled (from 41) and tenure-track positions have increased by 11% (from 132).

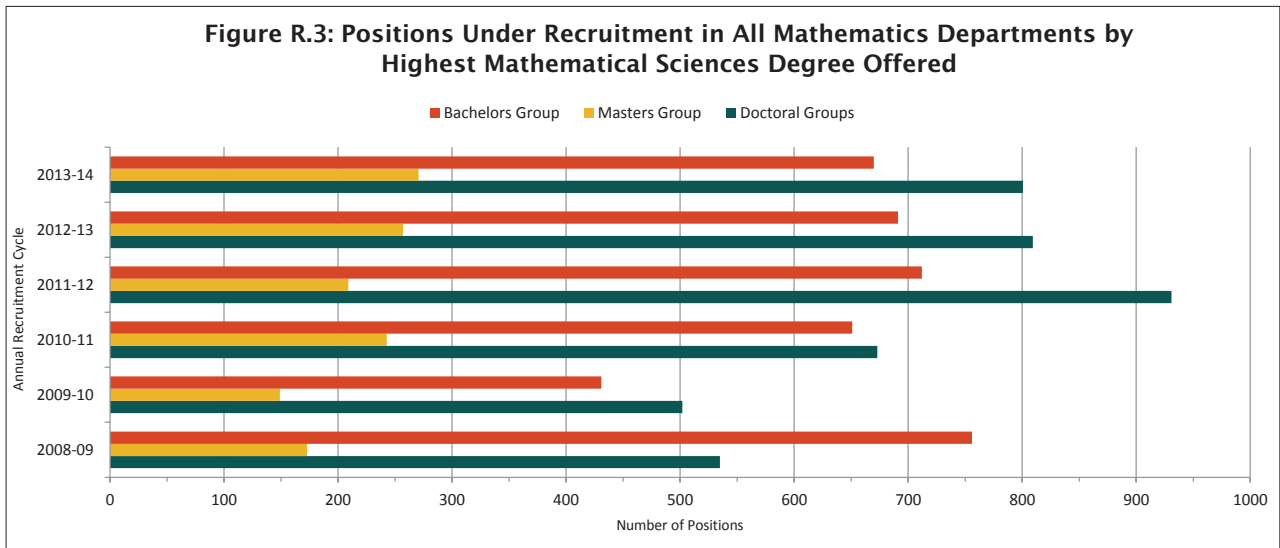


¹All numbers reported are estimates made to account for non-responding departments. See page 538 for response rates.

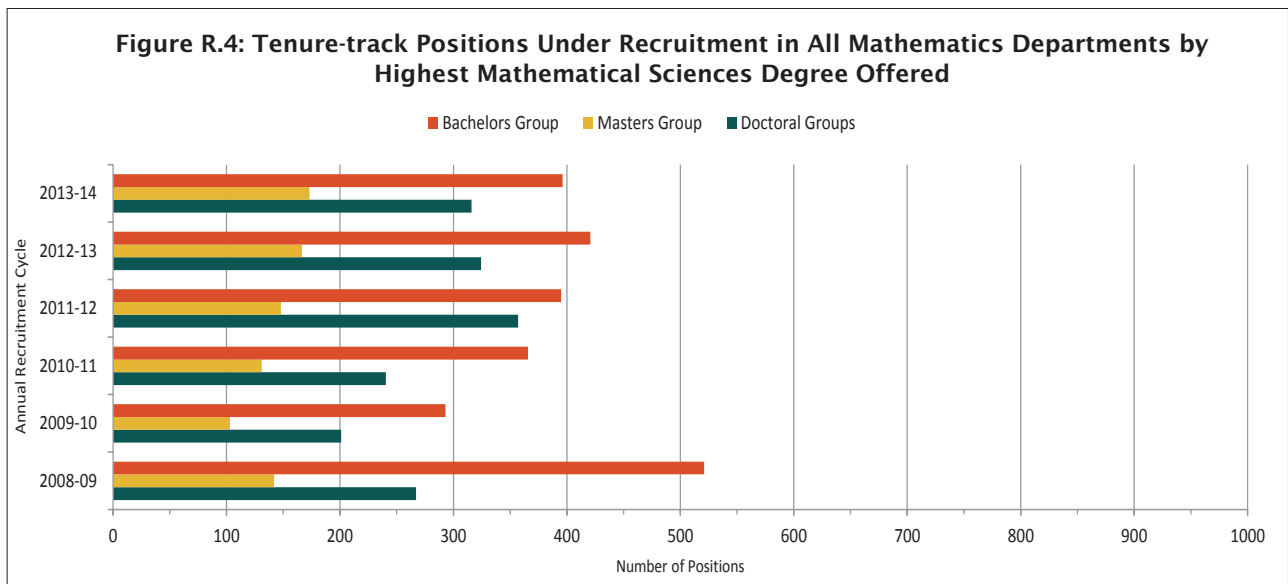
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Positions Under Recruitment

The overall number of full-time positions under recruitment decreased among mathematics departments. There was a 1% decrease for the doctoral mathematics groups combined, a 5% increase for the masters group, and a 3% decrease for the bachelors group. Recruitment of tenure-track positions decreased overall, but increased 4% in the masters and decreased in both the doctoral mathematics groups combined and bachelors groups by 3% and 6%, respectively. Comparing current levels of recruitment with 2008-09 and 2003-04, we see that it has increased in doctoral departments by 50% and 25%, respectively; in masters departments it has increased 57% since 2008-09 and decreased 21% since 2003-04; in bachelors departments it has decreased by 11% since 2008-09 and decreased by 9% since 2003-04.

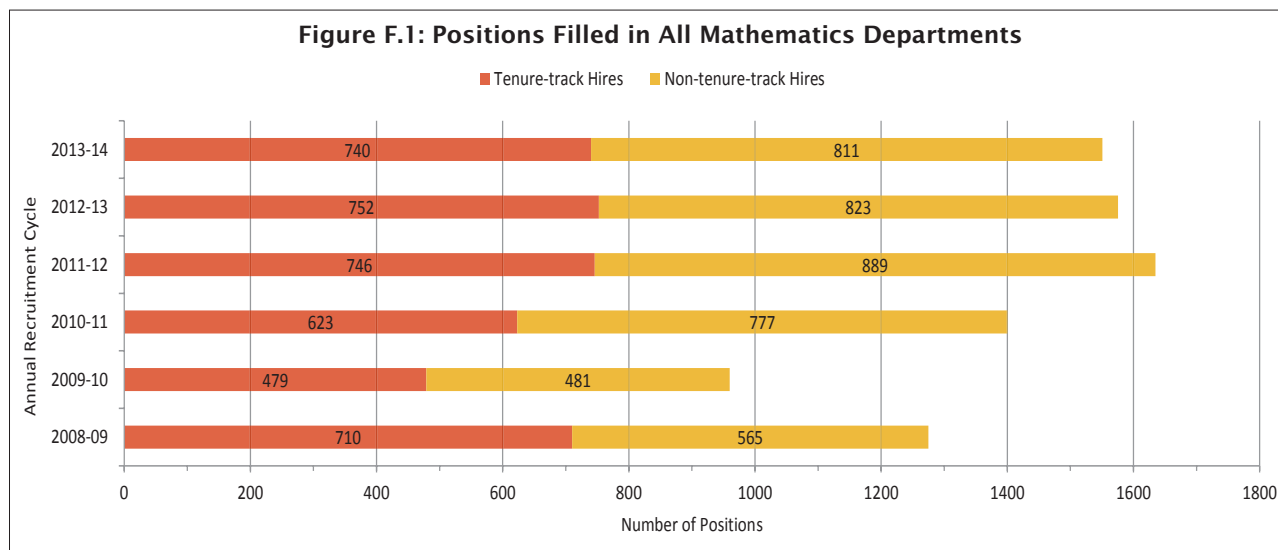


The overall number of tenure-track positions under recruitment has decreased 3% from its level in 2012-13; dropping 3% in the doctoral departments, increasing 4% in the masters departments and dropping 6% among the bachelors departments. Comparing current levels of tenure-track recruitment with 2008-09 and 2003-04, we see that it has increased in doctoral departments by 18% and 2%, respectively; in masters departments it has increased 22% since 2008-09 and decreased 36% since 2003-04; in bachelors departments it has decreased by 24% and 28%, respectively.

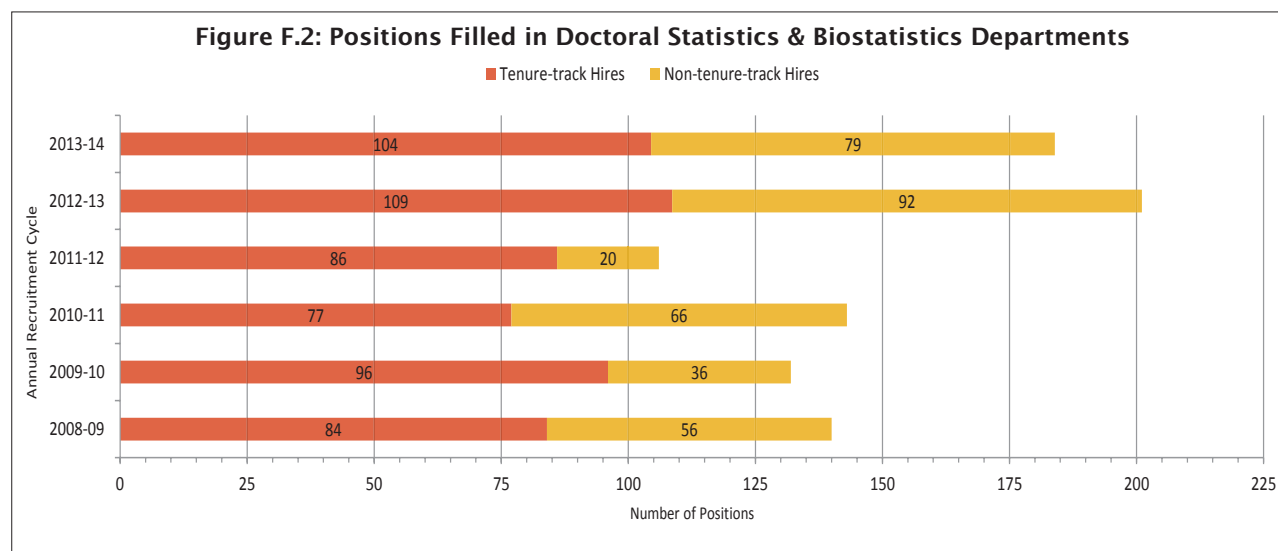


Positions Filled

A total of 1,551 full-time positions were filled during the 2013-14 academic cycle for employment beginning in fall 2014 by all mathematics groups combined. This total is up 22% from the 2008-09 total and up 4% from the 2003-04 total. This year 89% of the positions under recruitment were filled in the mathematics departments.

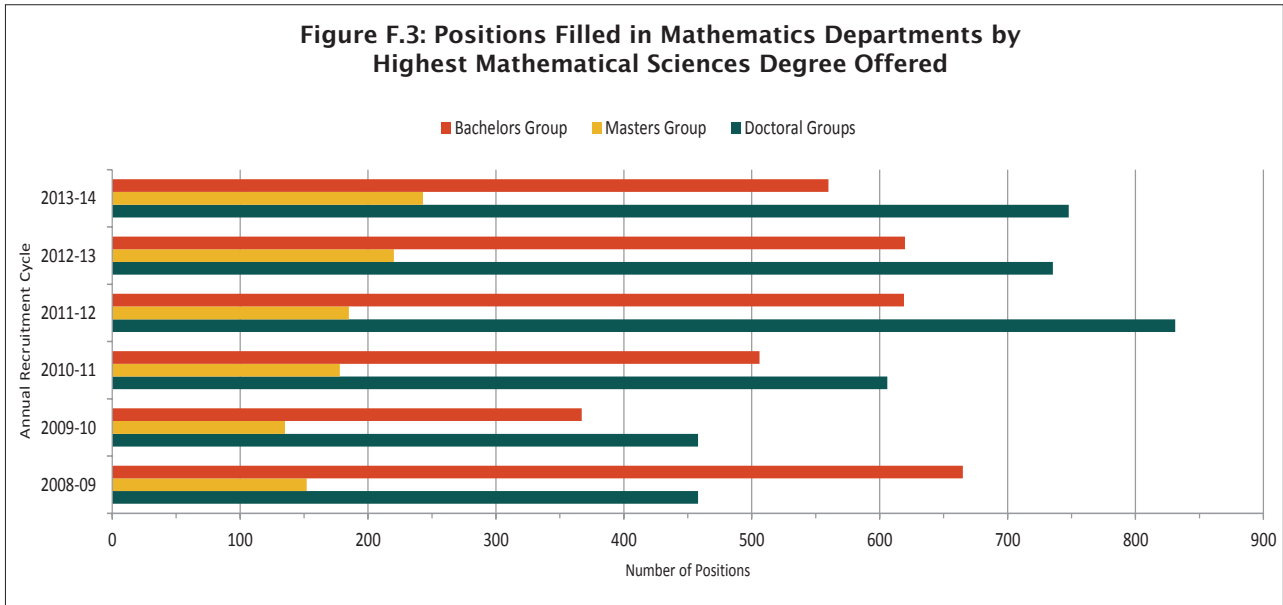


Among the doctoral statistics and biostatistics departments combined the total of filled positions is down 8% from 2012-13, up 31% from the 2008-09 total, and up 55% from the 2003-04 total. This year 81% of the positions under recruitment were filled in these departments.

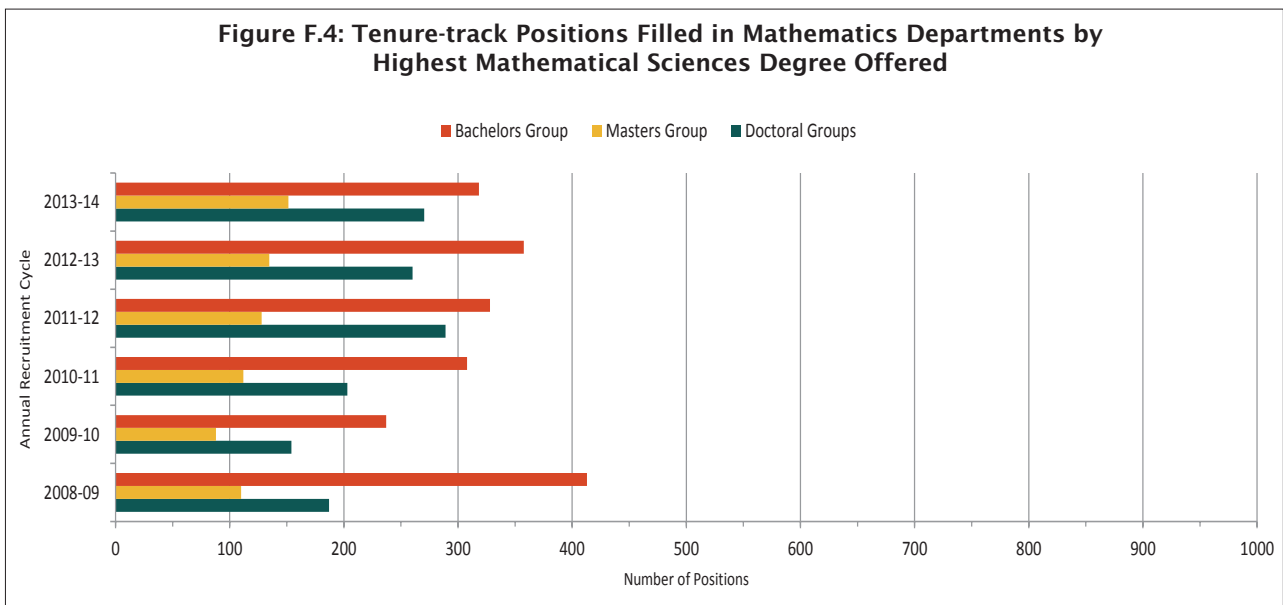


Positions Filled

The number of full-time positions filled for fall 2014 from 2013-14 recruitment varied widely among the various reporting groups. For the doctoral mathematics groups combined, the number of positions filled was 748, an increase of 2% from fall 2013, a 63% increase from the fall 2009, and a 35% increase from the fall 2004 counts. For the masters group the count was 243, up 10% from the fall 2013, up 60% from the fall 2009, and down 13% from the fall 2004 counts. For the bachelors group the count was 560, a decrease of 10% from fall 2013, and down 16% from both the fall 2009 and the fall 2004 counts.

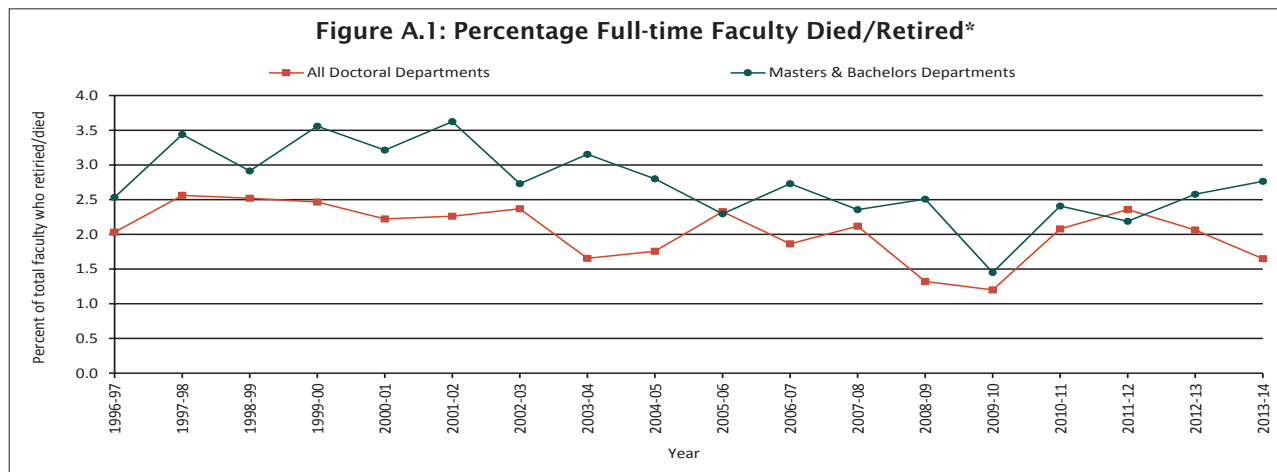


The total tenure-track positions filled for fall 2014 from 2013-14 recruitment by all mathematics groups combined is 740. This total is down 2% from the fall 2013 figure of 752, up 4% from the fall 2009 total of 710, and down 10% from the fall 2004 total of 820.



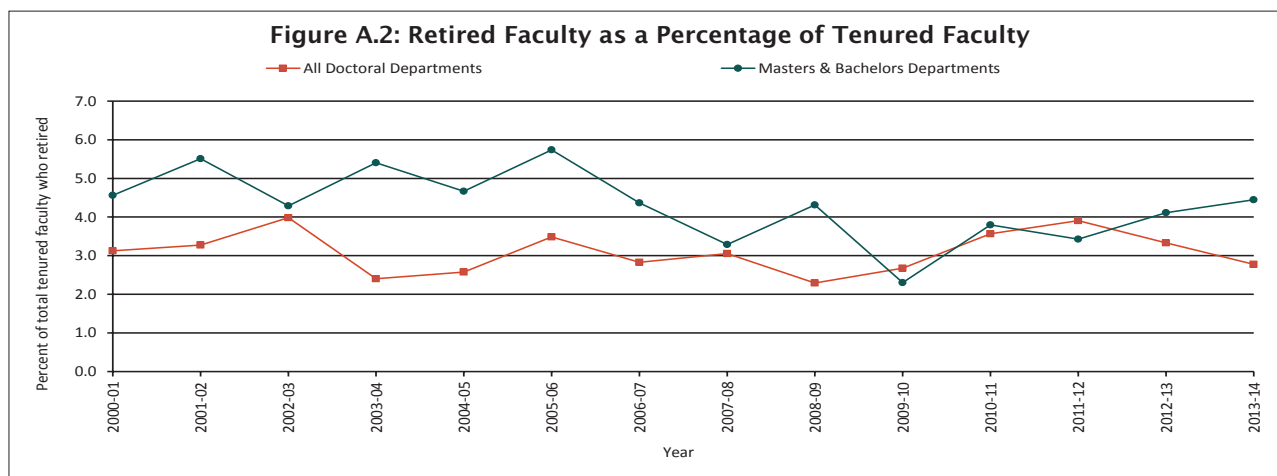
Faculty Attrition

Figure A.1 shows the trends in attrition from deaths and retirements among the full-time faculty for the academic years 1996-97 through 2013-14. Attrition reached its lowest rate in 2009-10. Since 2011-12 attrition has been increasing among the masters & bachelors departments and decreasing among doctoral departments.



* The percentage of full-time faculty who died or retired is the number of faculty who died or retired at some point during the academic year (September 1 through August 31) divided by the number of full-time faculty at the start of the academic year.

Figure A.2 shows an alternative way of looking at the trends in annual faculty retirements compared to that offered in Figure A.1. The vast majority of individuals who are reported by their department as retiring are, in fact, members of the tenured faculty. Given that, it makes sense to look at the ratio of those retiring during an academic year to the total tenured faculty at the start of that year, as is done in A.2. Data collected this year show that approximately 87% of those retiring were tenured.



* Each percentage in this figure is the number of full-time faculty that retired at some point during the academic year (September 1 through August 31) divided by the number of full-time tenured faculty at the start of the academic year.

Survey Groups and Response Rates

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 PhD'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 PhD 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 was 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 www.ams.org/notices/201209/rtx120901262p.pdf.

Survey Groups:

Math. Public Large consists of departments with the highest annual rate of production of PhD's, ranging between 7.0 and 24.2 per year.

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

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

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

Math. Private Small consists of departments with an annual rate of production of PhD's 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.

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

Bachelors contains US departments granting a baccalaureate degree only.

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

Response Rates by Survey Groups

Faculty Recruitment & Hiring Response Rates

Group*	Received (%)
Math. Public Large	20 of 26 with 20 recruiting (77%)
Math. Public Medium	36 of 40 with 30 recruiting (90%)
Math. Public Small	49 of 64 with 37 recruiting (77%)
Math. Private Large	16 of 24 with 15 recruiting (67%)
Math. Private Small	23 of 28 with 21 recruiting (82%)
Applied Math.	17 of 24 with 14 recruiting (71%)
Statistics	42 of 58 with 33 recruiting (72%)
Biostatistics	18 of 43 with 15 recruiting (42%)
Masters	110 of 177 with 69 recruiting (62%)
Bachelors	450 of 1007 with 196 recruiting (45%)
Total	781 of 1499 with 450 recruiting (52%)

* Doctoral programs that do not formally "house" faculty and their salaries are excluded from this survey.

Other Information

The interested reader may view additional details on the results of this survey and prior year trends by visiting the AMS website at www.ams.org/annual-survey. Survey results for the doctoral departments in statistics and biostatistics are available there.

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.