

ANNUAL SURVEY

Figure EE.7. Age Distribution of New PhD Respondents

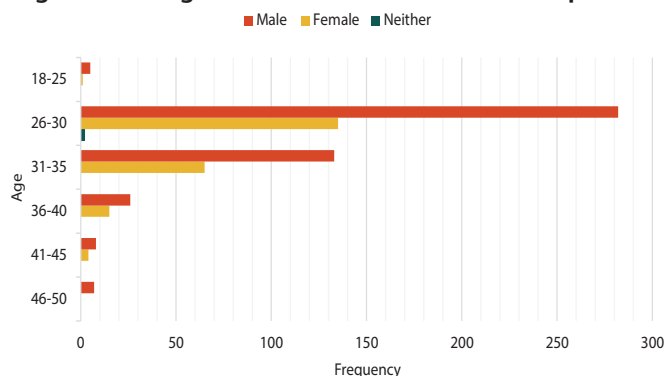


Figure EE.7 gives the age distribution of the 683 new doctoral recipients who respond to this question. The median age of new doctoral recipients was 29 while the mean was 30.5.

- The youngest new PhD recipient was 18 and the oldest was 50.
- 61% of all new PhD recipients are between the ages of 26-30
- The mode is 28 (21% of females and 18% of males reported being age 28).

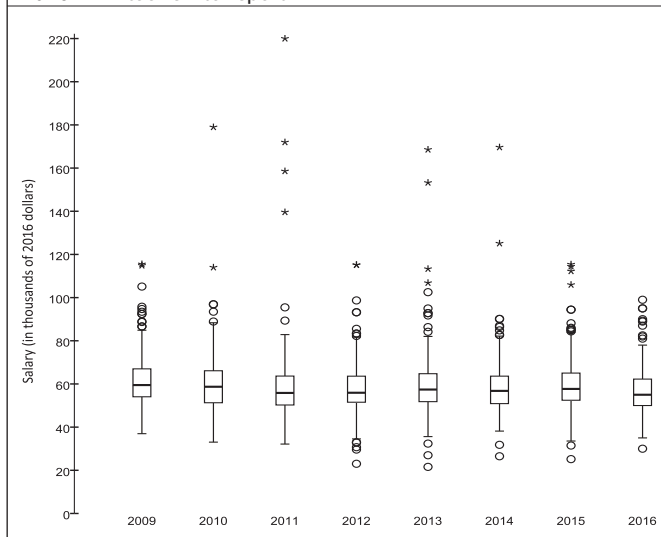
Starting Salaries of the 2015-2016 Doctoral Recipients

The starting salary figures were compiled from information gathered on the EENDR questionnaires sent to 1,656 individuals using addresses provided by the departments granting the degrees; 730 individuals responded between late October 2016 and June 2017. Responses with insufficient data or from individuals who indicated they had part-time or non-US employment were excluded. Numbers of usable responses for each salary category are reported in the following tables.

Readers should be warned that the data in this report are obtained from a self-selected sample, and inferences from them may not be representative of the full population. Detailed information, including boxplots which traditionally appeared in this report, is available on the AMS website at www.ams.org/annual-survey/survey-reports.

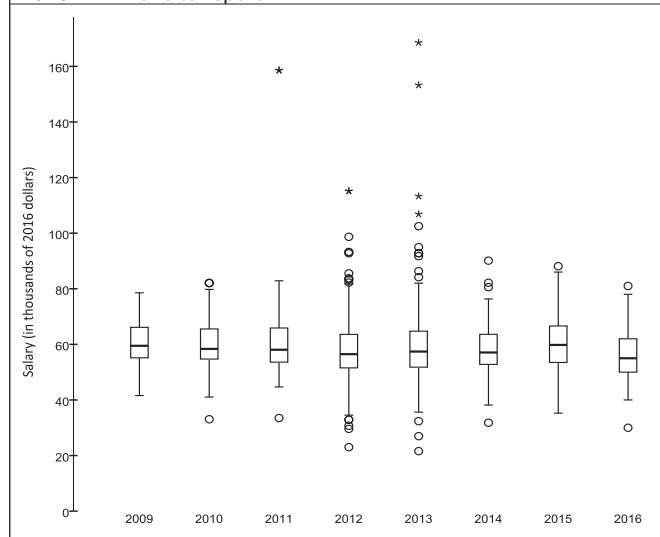
Academic Teaching/Teaching and Research
9-10-Month Starting Salaries[†]
(in thousands of dollars)

PhD Year	Min	Q ₁	Median	Q ₃	Max
Total (148 male/95 female/1 neither)					
2016 M	30.0	50.0	55.5	63.0	99.0
2016 F	35.0	50.0	55.0	60.5	82.0
2016 N	too few to report				
One year or less experience (130 male/84 female/1 neither)					
2016 M	30.0	50.0	55.0	63.0	99.0
2016 F	35.0	50.0	55.0	60.0	77.0
2016 N	too few to report				



Academic Postdoctorates Only[†]
9-10-Month Starting Salaries
(in thousands of dollars)

PhD Year	Min	Q ₁	Median	Q ₃	Max
Total (64 male/25 female/0 neither)					
2016 M	30.0	49.3	55.0	61.3	81.0
2016 F	45.0	53.5	55.0	62.6	78.0
2016 N	none to report				
One year or less experience (59 male/23 female/0 neither)					
2016 M	30.0	49.2	55.0	60.5	81.0
2016 F	45.0	54.3	59.0	62.8	78.0
2016 N	none to report				

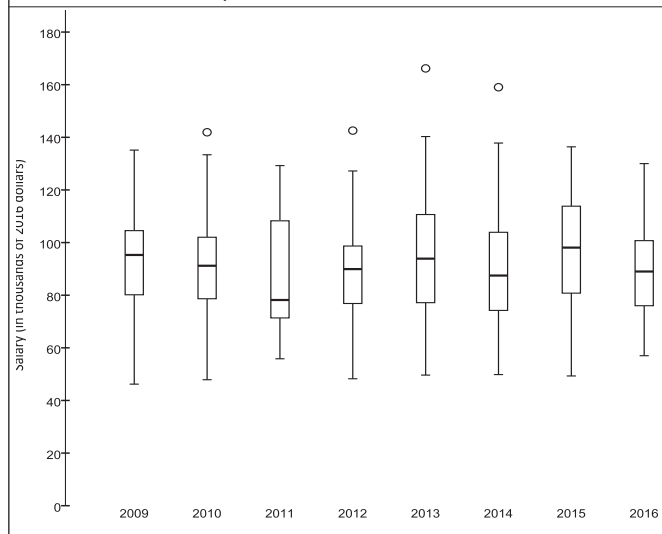


[†] Includes postdoctoral salaries.

[†] A postdoctoral appointment is a temporary position primarily intended to provide an opportunity to extend graduate training or to further research experience.

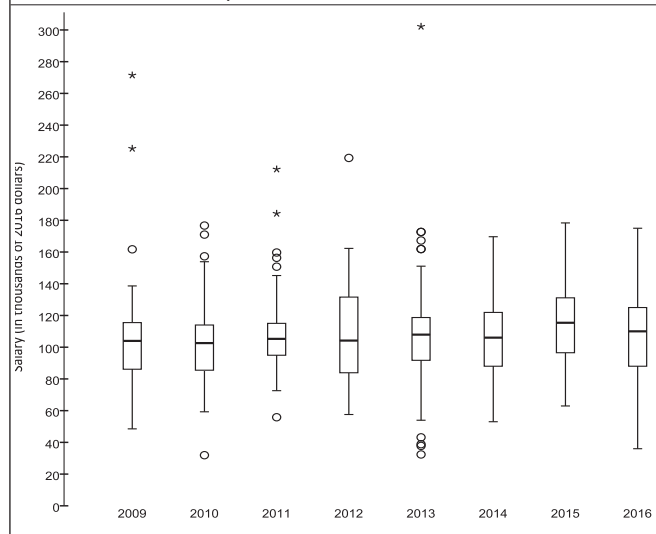
Government
11-12-Month Starting Salaries
(in thousands of dollars)

PhD Year	Min	Q ₁	Median	Q ₃	Max
Total (23 male/14 female/0 neither)					
2016 M	57.0	74.8	85.7	93.3	130.0
2016 F	68.5	86.8	98.2	101.1	112.0
2016 N	none to report				
One year or less experience (20 male/9 female/0 neither)					
2016 M	77.0	74.5	85.4	97.0	130.0
2016 F	68.5	81.0	98.0	98.2	112.0
2016 N	none to report				



Business and Industry
11-12-Month Starting Salaries
(in thousands of dollars)

PhD Year	Min	Q ₁	Median	Q ₃	Max
Total (102 male/49 female/0 neither)					
2016 M	36.0	86.8	110.0	125.0	175.0
2016 F	65.0	89.5	107.0	125.0	160.0
2016 N	none to report				
One year or less experience (76 male/39 female/0 neither)					
2016 M	45.0	84.2	106.5	125.0	175.0
2016 F	70.0	91.5	105.4	125.0	143.0
2016 N	none to report				



Remarks on Starting Salaries

Key to Tables and Graphs. Salaries are those reported for the fall immediately following the survey cycle. Years listed denote the survey cycle in which the doctorate was received—for example, survey cycle July 1, 2015–June 30, 2016 is designated as 2016. Salaries reported as 9–10 months exclude stipends for summer grants or summer teaching or the equivalent. M and F are male and female, respectively. Male and female figures are not provided when the number of salaries available for analysis in a particular category was five or fewer. All categories of “Teaching/Teaching and Research” and “Research Only” contain those recipients employed at academic institutions only.

Graphs. The graphs show standard boxplots summarizing salary distribution information for the years 2009 through 2016. Values plotted for 2009 through 2015 are converted to 2016 dollars using the implicit price deflator prepared annually by the Bureau of Economic Analysis, US Department of Commerce. These categories are based on work activities reported in EENDR. Salaries of postdoctorates are shown separately. They are also

included in other academic categories with matching work activities.

For each boxplot the box shows the first quartile (Q₁), the median (M), and the third quartile (Q₃). Upper whiskers extend from Q₃ to the largest data value below Q₃+1.5IQR, and lower whiskers from Q₁ down to the smallest data value above Q₁-1.5IQR. Data points falling between Q₃+1.5IQR and Q₃+3IQR or Q₁-1.5IQR and Q₃-3IQR are designated as outliers and plotted as circles (o). Data outside the range Q₁-3IQR to Q₃+3IQR are designated as extreme outliers and plotted as stars (*).

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Response Rates

**New PhD Recipient Response Rates
by Granting Department Grouping**

Granting Department Group	Number	Percent
Math Public Large	152 of 348	44%
Math Public Medium	130 of 305	43%
Math Public Small	103 of 218	47%
Math Private Large	112 of 215	52%
Math Private Small	41 of 84	49%
Applied Math	51 of 97	53%
Statistics	82 of 246	33%
Biostatistics	59 of 143	41%
Total	730 of 1656	44%

**Distribution of New PhD Recipient Responses
by Employer Type**

Employer Type	Number	Percent
Math Public Large	49	7%
Math Public Medium	31	4%
Math Public Small	34	5%
Math Private Large	32	4%
Math Private Small	17	2%
Applied Math	7	1%
Statistics	11	2%
Biostatistics	16	2%
Masters	33	5%
Bachelors	96	13%
Two-Year institutions	14	2%
Other Academic	57	8%
Research Institute/Other Non-profit	33	5%
Government	37	5%
Business/Industry	157	22%
Non-US Academic	66	9%
Non-US Nonacademic	8	1%
Not Seeking (US)	5	1%
Still Seeking (US)	18	2%
Unknown (US)	1	0%
Non-US: Not seeking, Still seeking, Unknown	8	1%
Total	730	100%

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. For this EENDR report, we thank the PhD recipients responded to the survey. Their participation is vital to our provided accurate and timely information.

The Annual Survey is co-sponsored by the American Mathematical Society (AMS), the American Statistical Association (ASA), Institute for Mathematical Statistics (IMS), Mathematical Association of America (MAA), and the Society for Industrial and Applied Mathematics (SIAM).