

## Starting Salary Survey of the 2004–2005 Doctoral Recipients

The starting salary figures for 2005 were compiled from information gathered on the EENDR questionnaires sent to individuals who received doctoral degrees in the mathematical sciences during the 2004–2005 academic year from universities in the United States (see previous section for more details).

The questionnaires were distributed to 1,104 recipients of degrees using addresses provided by the departments granting the degrees; 587 individuals responded between late October and April. Responses with insufficient data or from individuals who indicated they had part-time or non-U.S. 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 population.

**Key to Tables and Graphs.** Salaries are listed in hundreds of dollars. Nine-month salaries are based on 9–10 months' teaching and/or research, not adding extra stipends for summer grants or summer teaching or the equivalent. Years listed denote the survey cycle in which the doctorate was received: for example: survey cycle July 1, 2004–June 30, 2005, is designated as 2005. Salaries are those reported for the fall immediately following the survey cycle. M and F are male and female respectively. Some persons receiving a doctoral degree had been employed in their present position for several years, so those who had “one year or less experience” were analyzed separately from the total. Male and female figures are not provided when the number of salaries available for analysis in a particular category was five or fewer. Also, quartile figures are not available for 1970 through 1980. 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 1998 through 2005. Values plotted for 1998 through 2004 are converted to 2005 dollars using the implicit price deflator prepared annually by the Bureau of Economic Analysis, U.S. Department of Commerce.

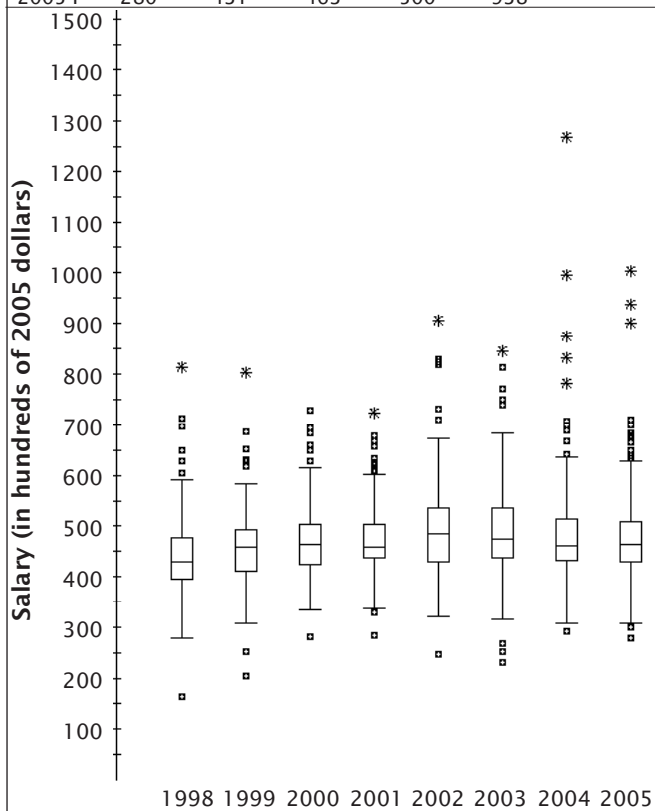
For each boxplot the box shows the first quartile (Q1), the median (M), and the third quartile (Q3). The interquartile range (IQR) is defined as  $Q3 - Q1$ . Think of constructing invisible fences  $1.5 \times \text{IQR}$  below Q1 and  $1.5 \times \text{IQR}$  above Q3. Whiskers are drawn from Q3 to the largest observation that falls below the upper invisible fence and from Q1 to the smallest observation that falls above the lower invisible fence. Think of constructing two more invisible fences, each falling  $1.5 \times \text{IQR}$  above or below the existing invisible fences. Any observation that falls between the fences on each end of the boxplots is called an outlier and is plotted as  $\circ$  in the boxplots. Any observation that falls outside of both fences either above or below the box in the boxplot is called an extreme outlier and is marked as  $*$  in the boxplot.

### 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.

**Academic Teaching/Teaching and Research  
9-10-Month Salaries\***  
(in hundreds of dollars)

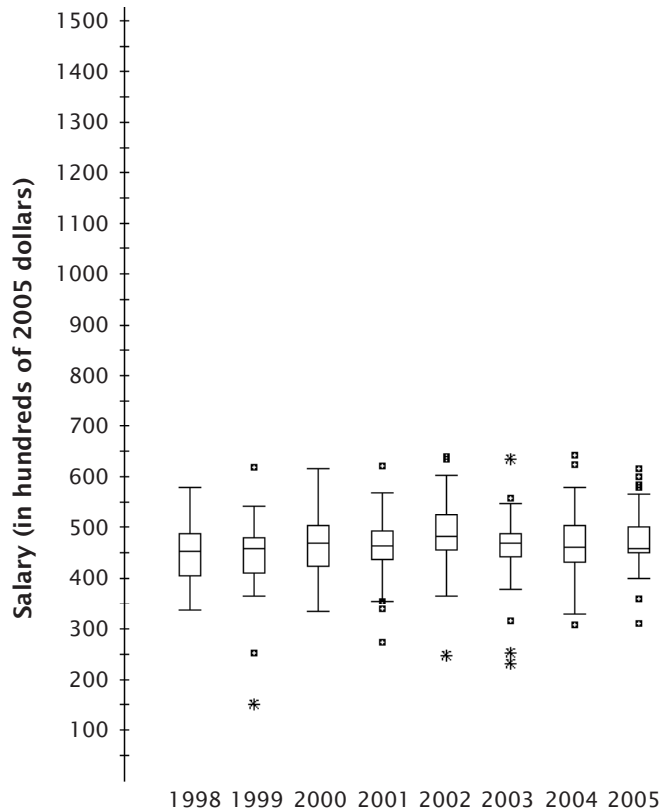
Reported Ph.D. Year	Min	Q <sub>1</sub>	Median	Q <sub>3</sub>	Max	Reported Median in 2005 \$
1975	90	120	128	135	173	378
1980	105	155	171	185	250	355
1985	170	230	250	270	380	402
1990	230	305	320	350	710	440
1995	220	320	350	382	640	426
1997*	180	340	366	400	840	430
1998	140	340	370	410	700	430
1999	180	360	400	430	700	458
2000	250	380	415	450	650	465
2001	259	400	420	461	660	460
2002	230	400	450	500	840	484
2003	220	415	450	510	920	475
2004	285	420	450	500	1234	462
2005	280	430	465	506	1002	465
2001 M	259	490	430	475	660	
2001 F	310	390	413	443	620	
2002 M	230	420	450	500	840	
2002 F	300	400	441	498	610	
2003 M	220	420	450	509	855	
2003 F	359	414	444	512	920	
2004 M	285	420	450	490	850	
2004 F	300	421	450	500	1234	
Total (161 male/82 female)						
2005 M	300	430	465	510	710	
2005 F	280	430	467	501	1002	
One year or less experience (143 male/72 female)						
2005 M	300	432	470	510	710	
2005 F	280	431	463	500	938	



\* Dollar amounts shown from 1997 forward include postdoctoral salaries.

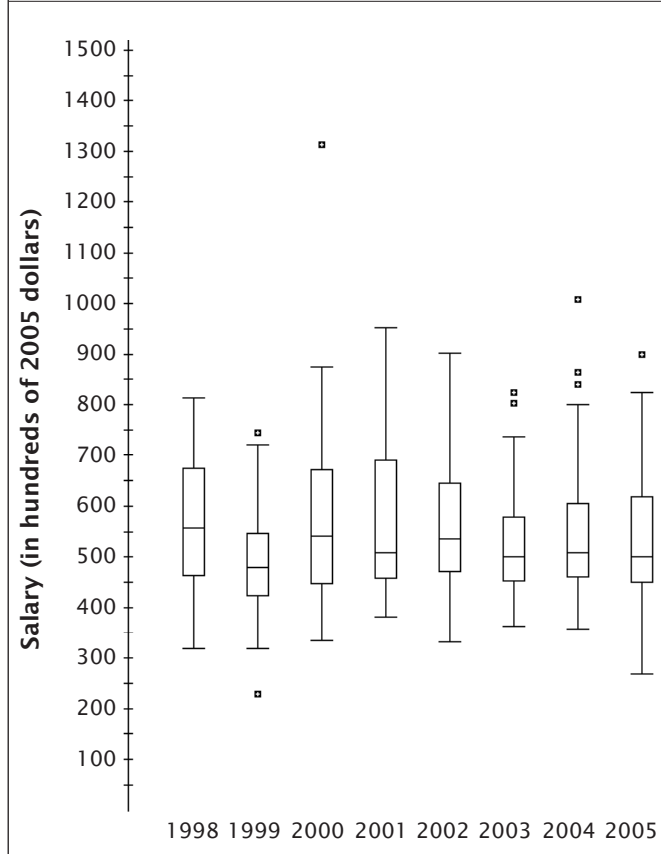
**Academic Postdoctorates Only  
9-10-Month Salaries**  
(in hundreds of dollars)

Ph.D. Year	Min	Q <sub>1</sub>	Median	Q <sub>3</sub>	Max	Reported Median in 2005 \$
1997	180	350	385	410	450	452
1998	290	350	390	420	500	453
1999	130	365	400	418	540	458
2000	300	385	420	450	550	471
2001	250	400	425	450	566	465
2002	230	425	450	487	595	484
2003	240	420	450	480	600	475
2004	300	420	450	490	625	462
2005	310	450	460	500	615	460
2001 M	250	400	430	454	566	
2001 F	310	395	421	438	490	
2002 M	230	425	450	488	595	
2002 F	380	430	450	485	589	
2003 M	240	420	450	485	600	
2003 F	359	408	449	459	510	
2004 M	300	420	450	480	625	
2004 F	400	440	470	500	606	
Total (61 male/16 female)						
2005 M	310	450	470	500	615	
2005 F	400	437	450	471	500	
One year or less experience (59 male/16 female)						
2005 M	310	450	470	503	615	
2005 F	400	437	450	471	500	



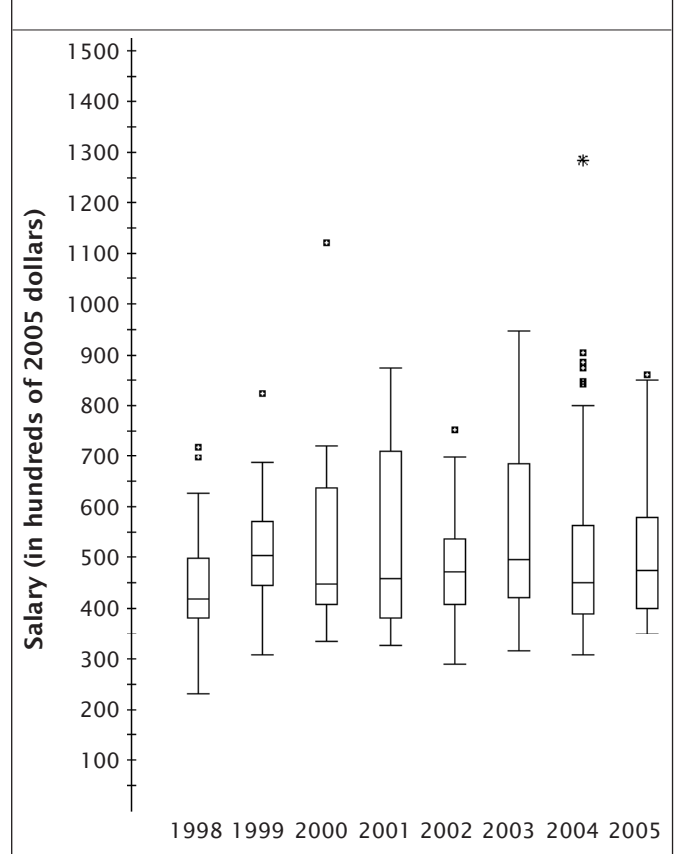
**Academic Teaching/Teaching and Research  
11–12-Month Salaries  
(in hundreds of dollars)**

Ph.D. Year	Min	Q <sub>1</sub>	Median	Q <sub>3</sub>	Max	Reported Median in 2005 \$
1975	87	---	145	---	204	428
1980	143	---	195	---	350	405
1985	220	230	273	300	470	439
1990	225	318	365	404	670	502
1995	300	354	410	478	600	499
1997	260	370	400	497	650	470
1998	275	405	480	575	700	558
1999	200	374	420	469	650	481
2000	300	400	485	600	1170	544
2001	350	420	465	615	870	509
2002	310	439	500	597	840	538
2003	345	438	475	550	780	501
2004	350	450	495	583	980	509
2005	270	450	500	615	900	500
2001 M	350	420	443	498	870	
2001 F	380	465	588	658	750	
2002 M	310	420	485	595	840	
2002 F	400	453	500	558	700	
2003 M	397	440	490	555	780	
2003 F	345	400	440	513	620	
2004 M	350	448	487	533	980	
2004 F	380	465	545	605	650	
Total (38 male/12 female)						
2005 M	270	455	490	549	900	
2005 F	420	450	570	753	824	
One year or less experience (32 male/11 female)						
2005 M	270	450	480	535	900	
2005 F	420	475	620	755	824	



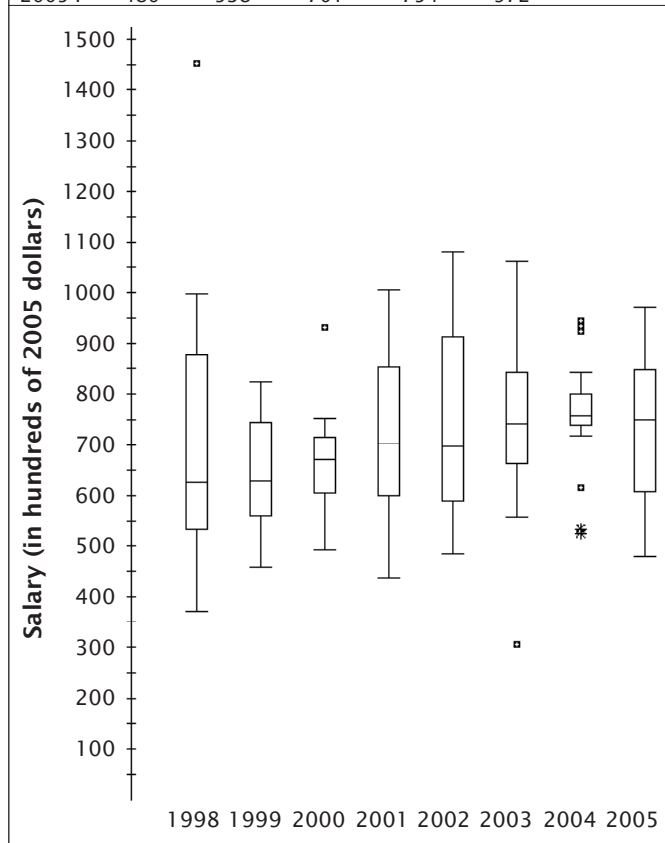
**Academic Research Only  
11–12-Month Salaries  
(in hundreds of dollars)**

Ph.D. Year	Min	Q <sub>1</sub>	Median	Q <sub>3</sub>	Max	Reported Median in 2005 \$
1975	90	---	119	---	180	351
1980	120	---	180	---	321	373
1985	190	295	342	400	520	550
1990	180	280	300	365	546	412
1995	196	280	340	370	587	414
1997	190	300	350	400	600	411
1998	200	333	360	428	617	418
1999	270	390	440	500	720	504
2000	300	384	400	555	1000	449
2001	300	367	420	625	800	460
2002	270	380	440	500	700	474
2003	300	415	470	613	900	496
2004	300	384	440	543	1250	452
2005	350	400	475	573	860	475
2001 M	300	348	425	655	800	
2001 F	342	400	420	588	700	
2002 M	270	388	440	500	650	
2002 F	310	350	440	505	700	
2003 M	300	420	450	510	820	
2003 F	310	390	480	650	900	
2004 M	300	385	440	640	1250	
2004 F	350	383	440	495	820	
Total (39 male/17 female)						
2005 M	350	410	480	640	860	
2005 F	350	400	470	515	850	
One year or less experience (32 male/17 female)						
2005 M	350	400	465	555	820	
2005 F	350	400	470	515	850	



**Government  
11-12-Month Salaries  
(in hundreds of dollars)**

Ph.D. Year	Min	Q <sub>1</sub>	Median	Q <sub>3</sub>	Max	Reported Median in 2005 \$
1975	78	---	182	---	247	537
1980	156	---	244	---	501	506
1985	263	294	325	381	440	523
1990	320	345	378	430	587	519
1995	370	440	494	507	650	601
1997	350	454	573	600	750	673
1998	320	475	540	736	1250	628
1999	400	495	550	651	720	630
2000	440	540	600	640	830	673
2001	400	580	644	758	920	705
2002	450	551	650	775	1005	700
2003	290	668	705	763	1008	744
2004	510	720	738	780	920	758
2005	480	610	752	848	972	752
2001 M	400	590	647	780	920	
2001 F	450	550	630	670	896	
2002 M	450	551	642	725	1005	
2002 F	540	600	700	850	880	
2003 M	290	648	710	788	830	
2003 F	600	683	695	723	1008	
2004 M	520	700	730	740	910	
2004 F	510	733	749	790	920	
Total (10 male/11 female)						
2005 M	500	668	790	902	955	
2005 F	480	540	750	770	972	
One year or less experience (10 male/6 female)						
2005 M	500	668	790	902	955	
2005 F	480	538	701	754	972	



**Business and Industry  
11-12-Month Salaries  
(in hundreds of dollars)**

Ph.D. Year	Min	Q <sub>1</sub>	Median	Q <sub>3</sub>	Max	Reported Median in 2005 \$
1975	114	---	187	---	240	552
1980	190	---	284	---	400	589
1985	260	360	400	420	493	643
1990	320	438	495	533	700	680
1995	288	480	568	690	1250	691
1997	300	483	600	658	1000	705
1998	240	550	650	750	2250	756
1999	360	600	680	761	2450	779
2000	200	640	720	800	1500	807
2001	475	716	770	865	1850	843
2002	325	734	780	850	1400	839
2003	300	700	800	900	1250	844
2004	400	728	817	900	1800	840
2005	510	755	870	978	2000	870
2001 M	520	717	788	875	1700	
2001 F	475	710	750	850	1850	
2002 M	325	738	782	858	1100	
2002 F	600	713	768	838	1400	
2003 M	550	725	840	920	1250	
2003 F	300	628	780	816	900	
2004 M	400	710	813	900	1800	
2004 F	480	789	850	900	1100	
Total (47 male/15 female)						
2005 M	510	760	930	1005	2000	
2005 F	600	745	860	890	1100	
One year or less experience (36 male/8 female)						
2005 M	510	794	940	1005	2000	
2005 F	650	785	860	900	950	

