

## Starting Salary Survey of New Doctoral Recipients

The starting salary figures for 2000 were compiled from information gathered on the EENDR questionnaires sent to individuals who received doctoral degrees in the mathematical sciences during the 1999–2000 academic year from universities in the United States (see previous section for more details).

The questionnaires were distributed to 1,046 recipients of degrees using addresses provided by the departments granting the degrees; 603 individuals responded between late October and April. Responses with insufficient data or from individuals who indicated they had part-time employment were considered unusable. 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.** 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 are the academic year in which the doctorate was received. M and F are male and female respectively. Some persons receiving a doctoral degree had been employed in their present position for several years. Quartile figures are given only in cases where the number of responses is large enough to make them meaningful. All categories of "Teaching or Teaching and Research"

and "Research" contain only those recipients employed at academic institutions. The "Research, 9–10-Month Salaries" table was dropped as of 1998 because so few recipients respond in this category that the data was not considered meaningful. Starting salaries for those reporting a postdoctoral position are available for a fourth year. These salaries are also included within the academic tables and box plots on pages 717–718.

**Graphs.** The graphs show standard box plots summarizing salary distribution information for the years 1994 through 2000. Values plotted for 1994 through 1999 are converted to 2000 dollars using the implicit price deflator prepared annually by the Bureau of Economic Analysis, U.S. Department of Commerce.

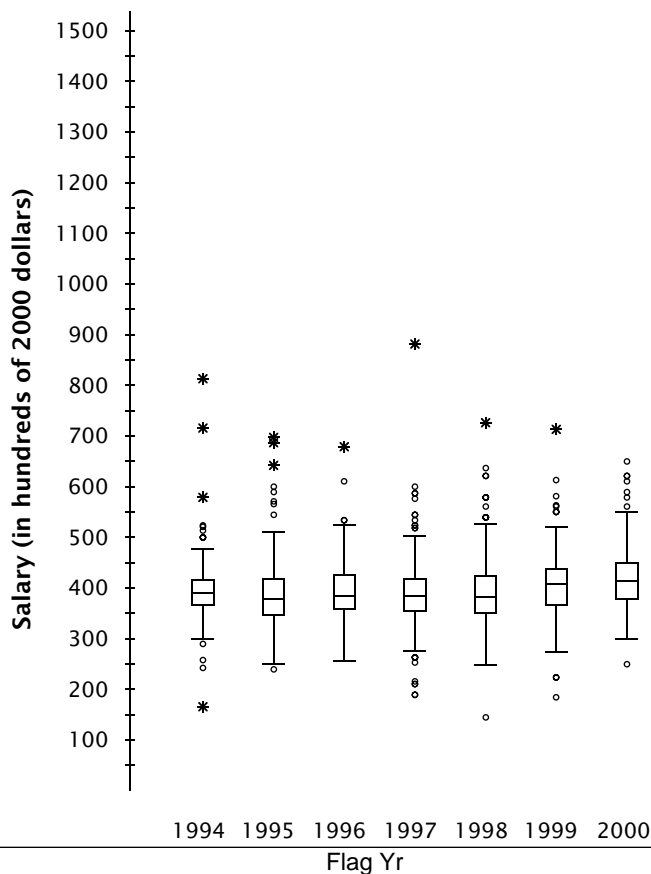
For each boxplot the box shows the first quartile (Q1), the median (M), and the third quartile (Q3). The interquartile range (IQR) is defined as  $Q3 - Q1$ . Think of constructing invisible fences  $1.5 \times IQR$  below Q1 and  $1.5 \times IQR$  above Q3. Whiskers are drawn from Q3 to the largest observation 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  $1.5 \times IQR$  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.

**Academic Postdoctorates  
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 2000 \$
1997	180	350	385	410	450	404
1998	290	350	390	420	500	404
1999	130	365	400	418	540	408
2000	300	385	420	450	550	420
1997M	250	350	380	405	446	-----
1997F	180	350	385	408	450	-----
1998M	290	340	390	430	500	-----
1998F	310	361	375	390	436	-----
1999M	220	373	400	428	540	-----
1999F	130	350	390	410	475	-----
Total (61 male/14 female)						
2000M	300	390	420	450	550	
2000F	360	389	448	458	544	

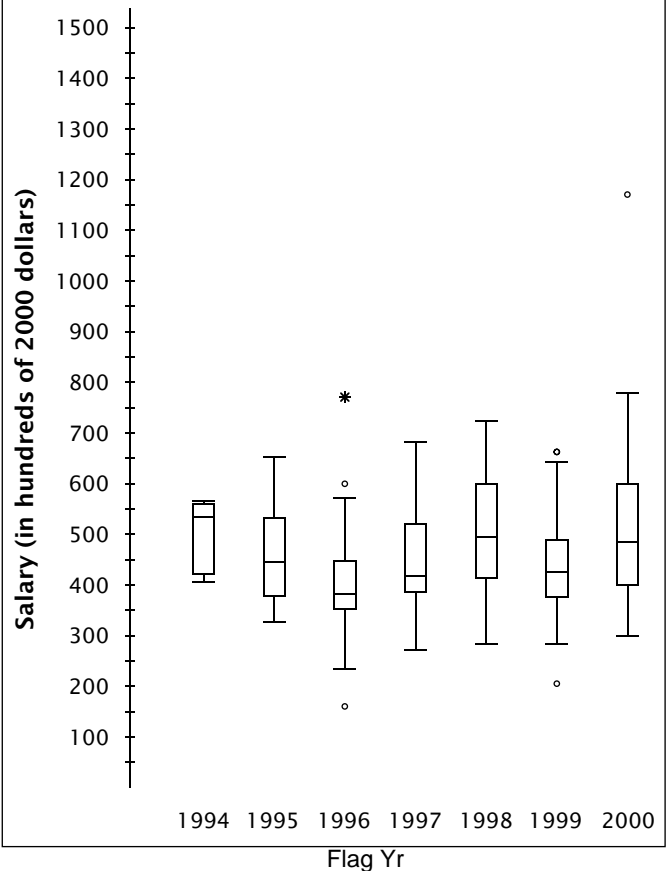
**Academic Teaching/Teaching and Research  
9-10-Month Salaries  
(in hundreds of dollars)**

Ph.D. Year	Min	Q <sub>1</sub>	Median	Q <sub>3</sub>	Max	Reported Median in 2000 \$
1965	70		80		105	360
1970	85		110		195	405
1975	90	120	128	135	173	342
1980	105	155	171	185	250	321
1985	170	230	250	270	380	363
1990	230	305	320	350	710	396
1994	150	330	350	375	730	390
1995	220	320	350	382	640	381
1996	240	333	360	400	636	385
1997	180	340	366	400	840	384
1998	140	340	370	410	700	383
1999	180	360	400	430	700	408
2000	250	380	415	450	650	415
1996M	240	330	360	400	636	-----
1996F	270	345	365	399	500	-----
1997M	180	340	367	400	571	-----
1997F	180	340	366	396	840	-----
1998M	140	340	370	411	700	-----
1998F	250	350	377	409	600	-----
1999M	220	370	400	430	700	-----
1999F	180	350	390	420	540	-----
Total (183 male/72 female)						
2000M	250	380	415	450	650	
2000F	321	380	413	450	620	
One year or less experience (149 male/57 female)						
2000M	250	380	415	450	650	
2000F	321	380	418	450	620	



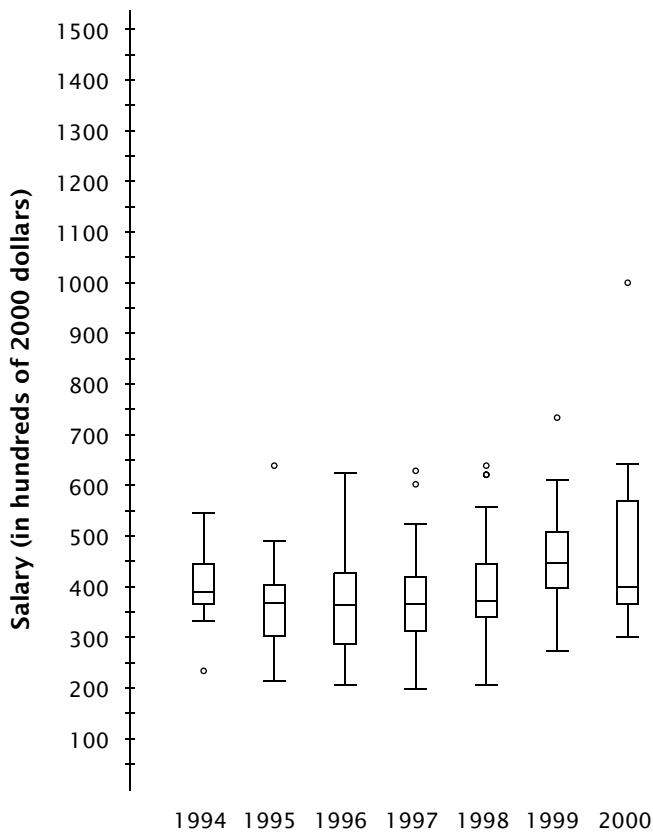
**Academic Teaching/Teaching and Research  
11-12-Month Salaries  
(in hundreds of dollars)**

Ph.D. Year	Min	Q <sub>1</sub>	Median	Q <sub>3</sub>	Max	Reported Median in 2000 \$
1965	78		104		121	468
1970	95		128		200	471
1975	87		145		204	387
1980	143		195		350	366
1985	220	230	273	300	470	396
1990	225	318	365	404	670	451
1994	365	391	480	503	510	535
1995	300	354	410	478	600	447
1996	150	302	340	390	720	364
1997	260	370	400	497	650	420
1998	275	403	480	578	700	497
1999	200	374	420	469	650	429
2000	300	400	485	600	1170	485
1996M	150	280	330	460	720	-----
1996F	330	340	358	368	400	-----
1997M	260	360	400	420	635	-----
1997F	260	393	447	505	650	-----
1998M	275	410	495	573	700	-----
1998F	300	395	464	575	630	-----
1999M	280	370	420	458	650	-----
1999F	200	393	435	590	630	-----
Total (45 male/13 female)						
2000 M	300	390	460	650	1170	
2000 F	395	465	500	570	750	
One year or less experience (34 male/10 female)						
2000 M	300	390	443	536	780	
2000 F	395	474	510	560	750	



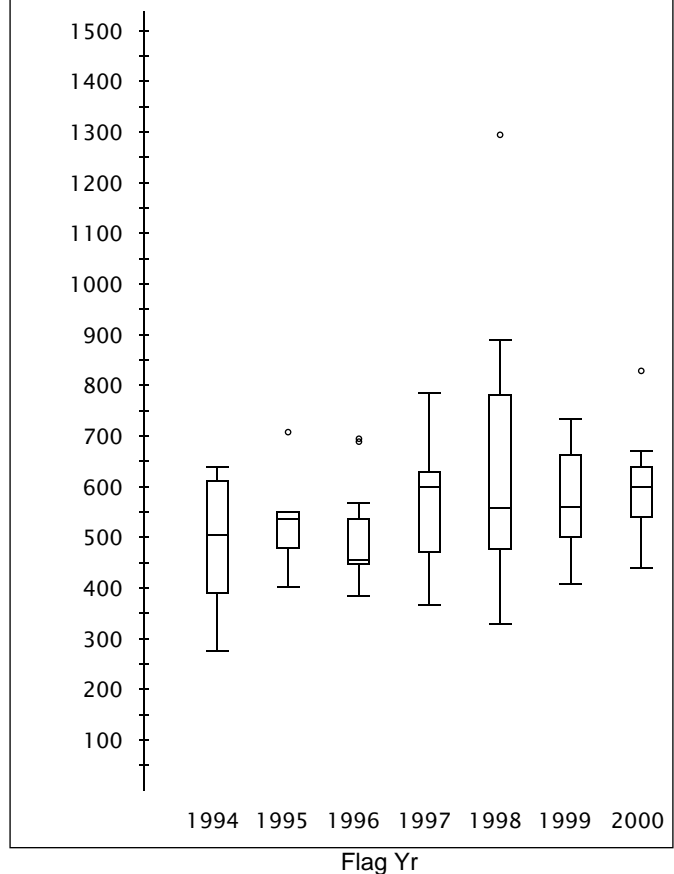
**Academic Research Only  
11-12-Month Salaries  
(in hundreds of dollars)**

Ph.D. Year	Min	Q <sub>1</sub>	Median	Q <sub>3</sub>	Max	Reported Median in 2000 \$
1965	81		93		107	418
1970	90		120		205	442
1975	90		119		180	318
1980	120		180		321	337
1985	190	295	342	400	520	496
1990	180	280	300	365	546	371
1994	210	330	350	400	490	390
1995	196	280	340	370	587	371
1996	192	270	330	400	585	353
1997	190	300	350	400	600	367
1998	200	333	360	428	617	373
1999	270	390	440	500	720	449
2000	300	384	400	555	1000	400
1996M	210	273	330	360	585	----
1996F	192	265	390	455	500	----
1997M	210	300	350	406	500	----
1997F	190	313	350	386	600	----
1998M	200	340	360	400	600	----
1998F	285	330	360	540	617	----
1999M	270	383	400	493	600	----
1999F	340	468	530	581	720	----
Total (23 male/17 female)						
2000M	300	390	400	486	1000	
2000F	300	360	410	580	630	
One year or less experience (23 male/14 female)						
2000M	300	390	400	486	644	
2000F	300	360	400	533	600	



**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 2000 \$
1965	70		126		160	567
1970	100		150		223	552
1975	78		182		247	486
1980	156		244		501	457
1985	263	294	325	381	440	472
1990	320	345	378	430	587	467
1994	250	355	455	530	576	507
1995	370	440	494	507	650	538
1996	360	420	427	504	650	457
1997	350	454	573	600	750	601
1998	320	475	540	736	1250	559
1999	400	495	550	651	720	561
2000	440	540	600	640	830	600
1996M	360	405	427	500	650	----
1996F	----	----	----	----	----	----
1997M	370	476	573	608	750	----
1997F	350	465	560	586	680	----
1998M	320	500	568	756	1250	----
1998F	----	----	----	----	----	----
1999M	400	495	540	587	720	----
1999F	----	----	----	----	----	----
Total (11 male/6 female)						
2000M	440	563	620	649	830	
2000F	530	545	566	593	650	
One year or less experience (9 male/4 female)						
2000M	440	525	620	658	830	
2000F	----	----	----	----	----	



**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 2000 \$
1965	100		136		180	612
1970	96		170		235	626
1975	114		187		240	499
1980	190		284		400	532
1985	260	360	400	420	493	580
1990	320	438	495	533	700	612
1994	200	418	525	600	750	585
1995	288	480	568	690	1250	619
1996	250	510	580	610	1000	620
1997	300	483	600	658	1000	629
1998	240	550	650	750	2250	673
1999	360	600	680	761	2450	694
2000	200	640	720	800	1500	720
1996M	250	480	580	610	1000	-----
1996F	520	-----	590	-----	650	-----
1997M	300	490	600	670	1000	-----
1997F	400	460	540	620	900	-----
1998M	240	550	650	750	1250	-----
1998F	305	565	662	765	2250	-----
1999M	360	626	700	763	2450	-----
1999F	440	580	644	676	1100	-----
Total (83 male/26 female)						
2000M	200	640	730	800	1500	
2000F	200	645	690	788	980	
One year or less experience (60 male/20 female)						
2000M	350	648	750	800	1100	
12000F	200	655	680	750	950	

(Note: Two salaries above \$150,000 are not shown.)

