

## Starting Salary Survey of New Doctoral Recipients

The starting salary figures for 2001 were compiled from information gathered on the EENDR questionnaires sent to individuals who received doctoral degrees in the mathematical sciences during the 2000–2001 academic year from universities in the United States (see previous section for more details).

The questionnaires were distributed to 939 recipients of degrees using addresses provided by the departments granting the degrees; 530 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, 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 1965 through 1980. 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 fifth year. These salaries are also included within the academic tables and boxplots on the following pages.

**Graphs.** The graphs show standard boxplots summarizing salary distribution information for the years 1994 through 2001. Values plotted for 1994 through 2000 are converted to 2001 dollars using the implicit price deflator prepared annually by the Bureau of Economic Analysis, U.S. Department of Commerce.

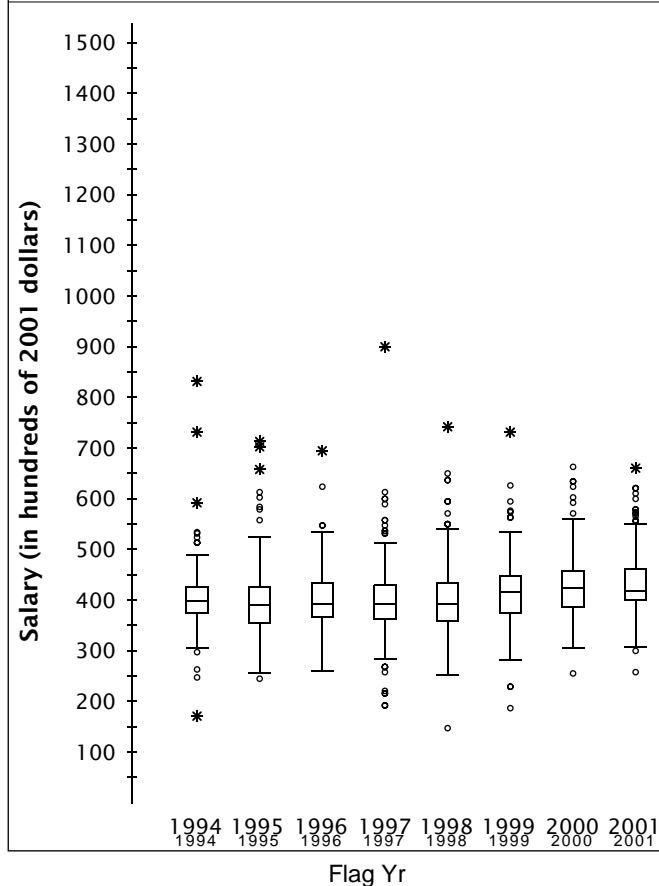
For each boxplot the box shows the first quartile (Q1), the median (M), and the third quartile (Q3). The interquartile range (IQR) is defined as  $Q_3 - Q_1$ . Think of constructing invisible fences  $1.5 \times IQR$  below Q1 and  $1.5 \times IQR$  above Q3. Whiskers are drawn from Q3 to the largest 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	$Q_1$	Median	$Q_3$	Max	Reported Median in 2001 \$
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
2001	250	400	425	450	566	425
1997 M	250	350	380	405	446	---
1997 F	180	350	385	408	450	---
1998 M	290	340	390	430	500	---
1998 F	310	361	375	390	436	---
1999 M	220	373	400	428	540	---
1999 F	130	350	390	410	475	---
2000 M	300	390	420	450	550	---
2000 F	360	389	448	458	544	---
Total (54 male/18 female)						
2001 M	250	400	430	454	566	430
2001 F	310	395	421	438	490	395

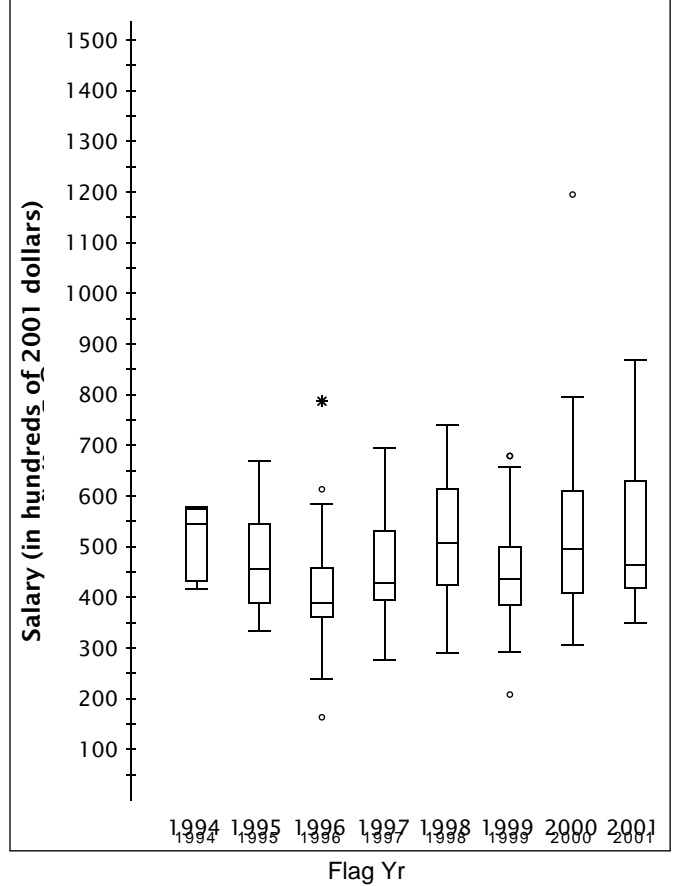
**Academic Teaching/Teaching and Research  
9-10-Month Salaries  
(in hundreds of dollars)**

Ph.D. Year	Min	Q <sub>1</sub>	Median	Q <sub>3</sub>	Max	Reported Median in 2001 \$
1965	70	---	80	---	105	368
1970	85	---	110	---	195	414
1975	90	120	128	135	173	350
1980	105	155	171	185	250	328
1985	170	230	250	270	380	371
1990	230	305	320	350	710	405
1994	150	330	350	375	730	399
1995	220	320	350	382	640	390
1996	240	333	360	400	636	394
1997	180	340	366	400	840	393
1998	140	340	370	410	700	392
1999	180	360	400	430	700	418
2000	250	380	415	450	650	424
2001	259	400	420	461	660	420
1997 M	180	340	367	400	571	---
1997 F	180	340	366	396	840	---
1998 M	140	340	370	411	700	---
1998 F	250	350	377	409	600	---
1999 M	220	370	400	430	700	---
1999 F	180	350	390	420	540	---
2000 M	250	380	415	450	650	---
2000 F	321	380	413	450	620	---
Total (158 male/68 female)						
2001 M	259	400	430	475	660	430
2001 F	310	390	413	443	620	413
One year or less experience (133 male/60 female)						
2001 M	259	400	430	465	660	430
2001 F	310	390	415	439	620	415



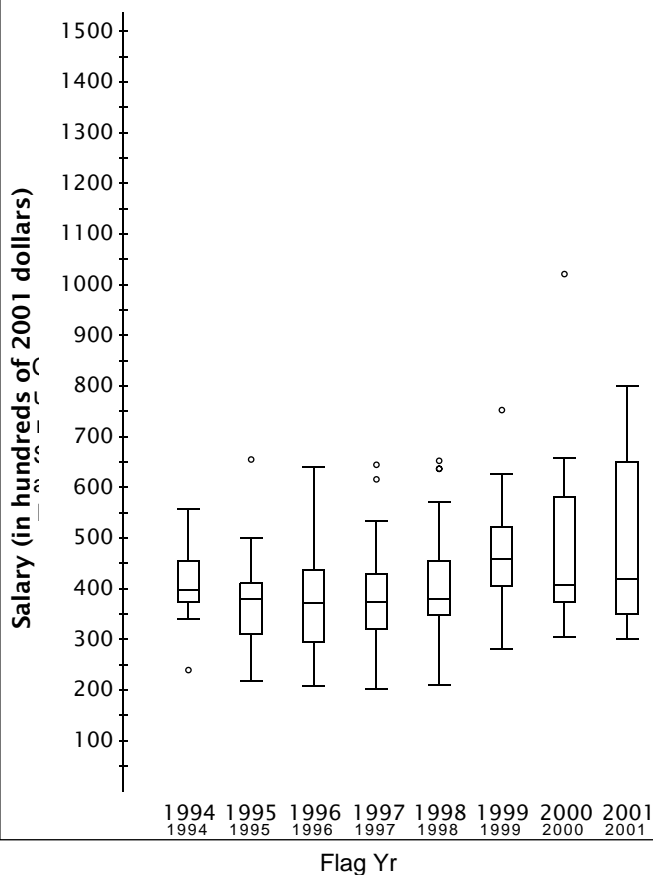
**Academic Teaching/Teaching and Research  
11-12-Month Salaries  
(in hundreds of dollars)**

Ph.D. Year	Min	Q <sub>1</sub>	Median	Q <sub>3</sub>	Max	Reported Median in 2001 \$
1965	78	---	104	---	121	478
1970	95	---	128	---	200	482
1975	87	---	145	---	204	396
1980	143	---	195	---	350	374
1985	220	230	273	300	470	405
1990	225	318	365	404	670	462
1994	365	391	480	503	510	547
1995	300	354	410	478	600	457
1996	150	302	340	390	720	372
1997	260	370	400	497	650	429
1998	275	403	480	578	700	509
1999	200	374	420	469	650	439
2000	300	400	485	600	1170	496
2001	350	420	465	615	870	465
1997 M	260	360	400	420	635	---
1997 F	260	393	447	505	650	---
1998 M	275	410	495	573	700	---
1998 F	300	395	464	575	630	---
1999 M	280	370	420	458	650	---
1999 F	200	393	435	590	630	---
2000 M	300	390	460	650	1170	---
2000 F	395	465	500	570	750	---
Total (38 male/18 female)						
2001 M	350	420	443	498	870	443
2001 F	380	465	588	658	750	588
One year or less experience (34 male/15 female)						
2001 M	350	413	440	485	870	440
2001 F	380	465	566	650	750	566



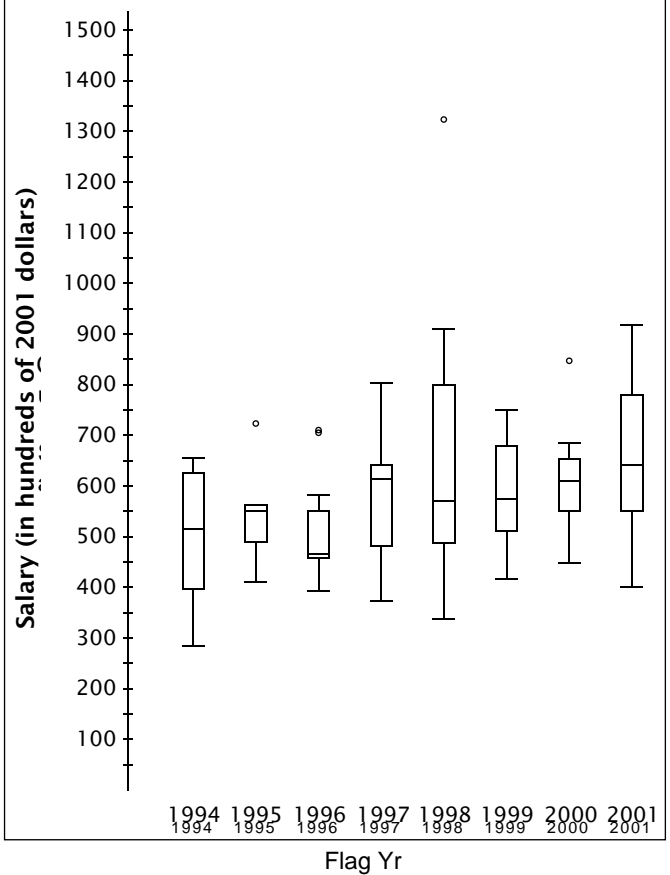
**Academic Research Only**  
**11-12-Month Salaries**  
**(in hundreds of dollars)**

Ph.D. Year	Min	Q <sub>1</sub>	Median	Q <sub>3</sub>	Max	Reported Median in 2001 \$
1965	81	---	93	---	107	428
1970	90	---	120	---	205	452
1975	90	---	119	---	180	325
1980	120	---	180	---	321	345
1985	190	295	342	400	520	508
1990	180	280	300	365	546	379
1994	210	330	350	400	490	399
1995	196	280	340	370	587	379
1996	192	270	330	400	585	361
1997	190	300	350	400	600	376
1998	200	333	360	428	617	382
1999	270	390	440	500	720	460
2000	300	384	400	555	1000	409
2001	300	367	420	625	800	420
1997 M	210	300	350	406	500	---
1997 F	190	313	350	386	600	---
1998 M	200	340	360	400	600	---
1998 F	285	330	360	540	617	---
1999 M	270	383	400	493	600	---
1999 F	340	468	530	581	720	---
2000 M	300	390	400	486	1000	---
2000 F	300	360	410	580	630	---
Total (20 male/7 female)						
2001 M	300	348	425	655	800	425
2001 F	342	400	420	588	700	420
One year or less experience (18 male/5 female)						
2001 M	300	343	395	628	800	395
2001 F	---	---	---	---	---	---



**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 2001 \$
1965	70	---	126	---	160	580
1970	100	---	150	---	223	565
1975	78	---	182	---	247	497
1980	156	---	244	---	501	468
1985	263	294	325	381	440	482
1990	320	345	378	430	587	478
1994	250	355	455	530	576	518
1995	370	440	494	507	650	551
1996	360	420	427	504	650	467
1997	350	454	573	600	750	615
1998	320	475	540	736	1250	572
1999	400	495	550	651	720	575
2000	440	540	600	640	830	613
2001	400	580	644	758	920	644
1997 M	370	476	573	608	750	---
1997 F	350	465	560	586	680	---
1998 M	320	500	568	756	1250	---
1998 F	---	---	---	---	---	---
1999 M	400	495	540	587	720	---
1999 F	---	---	---	---	---	---
2000 M	440	563	620	649	830	---
2000 F	530	545	566	593	650	---
Total (17 male/7 female)						
2001 M	400	590	647	780	920	647
2001 F	450	550	630	670	896	630
One year or less experience (15 male/6 female)						
2001 M	400	570	640	710	920	640
2001 F	500	608	640	680	896	640



**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 2001 \$
1965	100	---	136	---	180	626
1970	96	---	170	---	235	640
1975	114	---	187	---	240	511
1980	190	---	284	---	400	545
1985	260	360	400	420	493	594
1990	320	438	495	533	700	626
1994	200	418	525	600	750	598
1995	288	480	568	690	1250	633
1996	250	510	580	610	1000	634
1997	300	483	600	658	1000	644
1998	240	550	650	750	2250	689
1999	360	600	680	761	2450	711
2000	200	640	720	800	1500	736
2001	475	716	770	865	1850	770
1997 M	300	490	600	670	1000	---
1997 F	400	460	540	620	900	---
1998 M	240	550	650	750	1250	---
1998 F	305	565	662	765	2250	---
1999 M	360	626	700	763	2450	---
1999 F	440	580	644	676	1100	---
2000 M	200	640	730	800	1500	---
2000 F	200	645	690	788	980	---
Total (63 male/19 female)						
2001 M	520	717	788	875	1700	788
2001 F	475	710	750	850	1850	750
One year or less experience (52 male/16 female)						
2001 M	550	734	795	885	1700	795
2001 F	475	715	750	850	1050	750

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

