

Table 1A: Faculty Attrition,¹ Fall 2000

	GROUP									
	I Public	I Private	II	III	I, II, & III	IV	Va	M	B	I, II, III, M & B
Full-time faculty who retired or died										
Total number	37	22	59	60	178	25	8	174	238	590
Percentage (%)	2.3	2.4	2.5	3.0	2.6	1.8	2.3	3.6	3.1	3.0

¹ Number and percentage of full-time faculty who were in the department in fall 1999 but were reported to have retired or died by fall 2000.

Faculty Profile

The Departmental Profile Survey, sent in fall 2000 to mathematical sciences departments at four-year colleges and universities as part of the Annual Survey, gathered information about faculties at these schools, which is reported in this section. The First Report presented data collected earlier about faculty salaries (pages 203–7 of the February 2001 issue of the *Notices of the AMS*).

Table 1A displays losses of full-time mathematical sciences faculty due to retirements and deaths. The fall 2000 mathematics faculty attrition rate for Groups I, II, III, M, and B combined was 3.0% compared with fall 1999, 1998, and 1997 values of 3.0%, 3.1%, and 2.4%. Groups M and B had the highest attrition rates at 3.6% and 3.1% respectively. Figure 1B shows the trend in this attrition rate for mathematics departments during the years 1986 to 2000.

Table 2A contains detailed information on the number of full-time faculty positions in mathematical sciences departments under

Figure 1B: Percent of Full-Time Doctoral Faculty Who Retired or Died in Groups I, II, III, M, & B Combined, Fall 1986 to Fall 2000

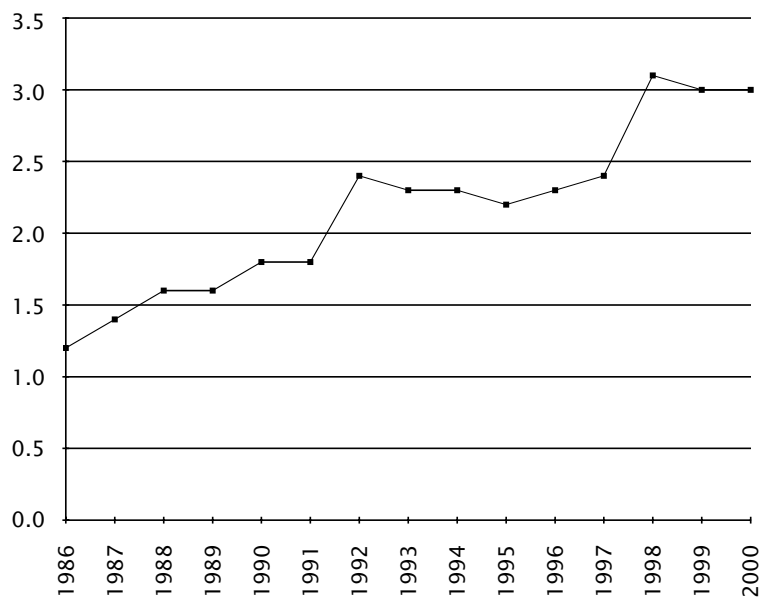


Table 2A: Recruitment of Doctoral Faculty, Fall 2000

	GROUP									
	I Public	I Private	II	III	I, II, & III	IV	Va	M	B	I, II, III, M & B
Posted Doctoral Positions										
Total number ¹	195	139	173	146	654	184	22	407	794	1854
Tenured/tenure-track	75	41	100	95	311	124	17	327	640	1278
Open to new doctoral recipients	148	107	139	134	529	147	17	378	706	1613
Tenured/tenure-track	33	22	78	86	218	78	12	320	595	1134
Open at assoc/full level	35	20	27	22	104	58	7	76	137	318
Reported Hires for Above										
Male doctoral hires	145	108	122	98	473	89	16	176	319	968
Male new doctoral hires	72	68	51	23	214	32	5	53	120	387
Female doctoral hires	30	13	18	19	79	39	1	80	145	304
Female new doctoral hires	21	10	8	7	46	23	0	26	66	139
Male nondoctoral hires	0	0	2	1	3	1	0	13	66	82
Female nondoctoral hires	0	0	0	0	0	0	0	15	76	91
Unfilled positions	20	18	32	27	98	55	5	123	187	408

¹ Number of full-time doctoral positions under recruitment in 1999–2000 to be filled for 2000–2001. Subtotals of rounded table values may exhibit rounding errors.

Table 2B: A Summary of Recruitment of Doctoral Faculty, Fall 2000

	I, II, III, Va, M & B	IV	Total
Posted Doctoral Positions			
Total number	1876	184	2060
Tenured/tenure-track	1293	124	1417
Open to new doctoral recipients	1630	147	1777
Reported Hires for Above			
Total doctoral hires	1289	128	1417
Male	984	89	1073
Female	305	39	344
Unfilled positions	413	55	468

recruitment in 1999–2000 for employment beginning in the academic year 2000–2001. Among mathematics departments (Groups I, II, III, M, and B), 1,854 positions were under recruitment in 1999–2000, up 22.8% compared to 1998–1999. Of those 1,854 positions, 1,613 (87.0%) were available to new doctoral recipients, and of those 1,613 positions, 1,134 (70.3%) were tenure-track positions. The 1,134 tenure-track positions open to new doctoral recipients is up substantially from the 859 such positions in 1998–1999. Table 2B provides a brief summary of Table 2A.

Figure 2C shows the number of full-time doctoral positions available in these groups, as well as the number of those that are tenured/tenure-track and the number unfilled for the years 1990 to 2000. (Note: The tenured/tenure-track status of these positions was not surveyed until 1992.) There was a sharp decrease in available

positions in the first three years of the decade of the 1990s, but this number has increased significantly since 1997. Particularly interesting is the dramatic increase in tenure-track positions under recruitment.

Table 3A gives the number of faculty for six different categories of faculty broken down by group. Table 3B gives the same information for females only. The estimated total number of full-time faculty in Groups I, II, III, M and B combined is 19,444, up 954 from the number reported last year. Group M is up 299 full-time faculty, while Group B is up 604 and Groups I, II, and III are up 51 full-time faculty. Last year was the first year in which sampling from Groups M and B was used. Substantial drops in faculty numbers in Groups M and B were reported last year. In last year's Second Report the authors discussed this fact and felt that the reported estimates for Groups M and B were on the low side. If that is true, the increases in faculty in Groups M and B are not as large as they appear this year. For further discussion of this matter see the 1999 Second Report in the September 2000 issue of the *Notices of the AMS*.

Table 3C gives some percentages based on the information in Tables 3A and 3B.

The number of non-tenure-track doctoral full-time faculty and the number of part-time faculty have been steadily increasing in recent years. Table 3D gives a five-year history of these two types of faculty for Groups I, II, and III combined, for Group M, and for Group B. Also shown for each number in this

table is the percentage of females. This increase in non-tenure-track full-time doctoral positions continues a disturbing trend reported in "Changes in Mathematics Faculty Composition, Fall 1990–Fall 1996" (James W. Maxwell, *Notices of the AMS*, November 1997, pages 1321–3). The growth in part-time faculty appears to be more recent, since it was absent in the earlier period 1990–1996.

Figure 2C: Number of Full-Time Doctoral Positions under Recruitment: Total, Tenured/Tenure-Track, and Unfilled in Groups I, II, III, M, & B Combined, Fall 1990 to Fall 2000

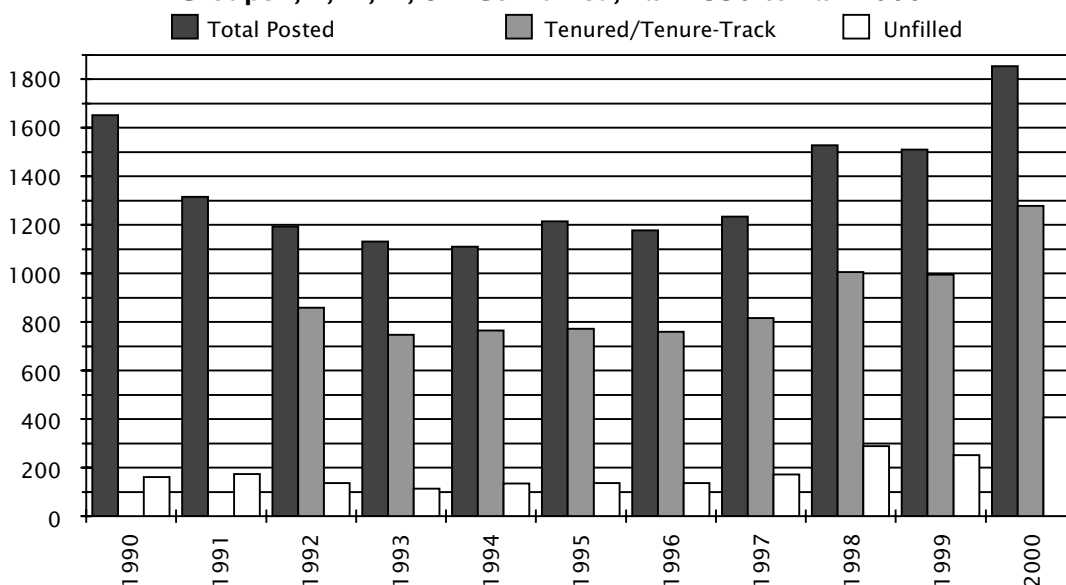


Table 3A: Faculty Size, Fall 2000

	GROUP									
	I Public	I Private	II	III	I, II, & III	IV	Va	M	B	I, II, III, M & B
Full-time faculty	1641	907	2393	2023	6964	1387	335	4775	7705	19444
Doctoral full-time faculty	1594	906	2197	1784	6482	1361	333	3932	5893	16306
Tenured doctoral full-time faculty	1192	550	1696	1342	4780	857	218	2851	4129	11760
Untenured, tenure-track doctoral full-time faculty	127	82	275	304	788	251	37	819	1357	2963
Non-tenure-track doctoral full-time faculty	275	275	226	138	915	253	78	262	407	1583
Part-time faculty	186	49	434	717	1386	190	13	2323	3580	7288

Table 3B: Female Faculty Size, Fall 2000

	GROUP									
	I Public	I Private	II	III	I, II, & III	IV	Va	M	B	I, II, III, M & B
Full-time female faculty	171	81	320	390	961	316	29	1272	2084	4317
Doctoral full-time female faculty	146	79	211	256	692	305	29	847	1350	2889
Tenured doctoral full-time female faculty	73	29	111	133	346	119	9	513	799	1658
Untenured, tenure-track doctoral full-time female faculty	19	10	47	76	153	86	8	258	428	838
Non-tenure-track doctoral full-time female faculty	54	40	53	47	193	100	12	76	123	393
Part-time female faculty	61	8	173	272	514	63	4	842	1447	2803

Table 3C: Number and Percentage of Full-Time Faculty, Fall 2000

	GROUP									Total All Groups
	I Public	I Private	II	III	IV	Va	M	B		
Full-Time Faculty										
Number	1641	907	2393	2023	1387	335	4775	7705		21166
Percentage of total full-time faculty (%)	7.8	4.3	11.3	9.6	6.6	1.6	22.6	36.4		100.0
Female Full-Time Faculty										
Number	171	81	320	390	316	29	1272	2084		4662
Percentage of female full-time faculty (%)	3.7	1.7	6.9	8.4	6.8	0.6	27.3	44.7		100.0
Female Full-Time Faculty Percentage female full-time faculty by group (%)	10.4	8.9	13.4	19.3	22.8	8.6	26.6	27.1		22.0

Table 3D: Number, and Percentage of Those Female, of Non-tenure-track Doctoral Full-Time Faculty and Part-Time Faculty by Group, Fall 1996 to Fall 2000

	1996	1997	1998	1999	2000
Groups I, II, & III					
Non-tenure-track doctoral full-time faculty	618	669	844	907	915
Percentage female (%)	22.7	21.8	21.2	22.7	21.1
Part-time faculty	1088	941	1088	1192	1386
Percentage female (%)	36.9	36.9	37.6	38.2	37.1
Group M					
Non-tenure-track doctoral full-time faculty	138	216	140	146	262
Percentage female (%)	23.9	29.6	27.1	56.2	29.0
Part-time faculty	1879	1612	1768	1906	2323
Percentage female (%)	41.4	45.5	42.8	35.2	36.2
Group B					
Non-tenure-track doctoral full-time faculty	419	385	427	514	407
Percentage female (%)	22.9	26.2	31.1	23.7	30.2
Part-time faculty	3055	3107	3585	3298	3580
Percentage female (%)	44.0	46.0	42.3	40.7	40.4

Faculty Profile for Females

Table 3B gives a complete breakdown of all categories of female faculty by group. The total number of full-time faculty in all groups for 2000-2001 is 21,166, of which 4,662 (22.0%) are females.

Table 3C shows the number and percentage of all full-time faculty that fall in each group for 2000-2001 and the number and percentage of all female full-time faculty that fall in each group for 2000-2001. In addition, the percentage of the full-time faculty within each group who

are female is given in the bottom section of Table 3C. We see that the number of females as a percentage of full-time faculty varies considerably among the groups, from 8.9% and 8.6% for Groups I Private and Va to 26.6% and 27.1% for Groups M and B respectively. Note: In Table 3C the percentages for each group in rows 2 and 4 are of the row totals. The percentages in row 5 are column percentages using the numbers in rows 1 and 3.

Table 3D contains information about non-tenure-track doctoral full-time faculty and part-

Table 3E: Summary of Full-Time and Part-Time Faculty by Sex, Fall 2000

	GROUP					
	I, II, & III		IV		M & B	
	Male	Female	Male	Female	Male	Female
Full-time faculty						
Number	6003	961	1071	316	9123	3356
Percentage (%)	86.2	13.8	77.2	22.8	73.1	26.9
Doctoral full-time faculty						
Number	5790	692	1057	305	7628	2197
Percentage (%)	89.3	10.7	77.6	22.4	77.6	22.4
Tenured doctoral full-time faculty						
Number	4434	346	738	119	5668	1312
Percentage (%)	92.8	7.2	86.1	13.9	81.2	18.8
Untenured, tenure-track doctoral full-time faculty						
Number	635	153	165	86	1490	686
Percentage (%)	80.6	19.4	65.8	34.2	68.5	31.5
Non-tenure-track doctoral full-time faculty						
Number	721	193	153	100	470	199
Percentage (%)	78.8	21.2	60.6	39.4	70.2	29.8
Part-time faculty						
Number	872	514	127	63	3613	2289

time faculty for 1996 to 2000 for Groups I, II, and III combined, M, and B. This table includes the total number for each category as well as the percentage female for each number.

Table 3E gives the male/female breakdown by count and percentage for Groups I, II, and III combined for various categories of faculty in columns 2 and 3. The same breakdowns are given for Group IV in columns 4 and 5 and for Groups M and B combined in columns 6 and 7.