

Table 1A: Total Faculty, Fall 2007

	GROUP									
	I Public	I Private	II	III	Va	I, II, III, & Va	M	B	I, II, III, Va, M, & B	IV
<b>Total full-time faculty</b> <i>(Standard error)<sup>1</sup></i>	<b>1781</b>	<b>1035</b>	<b>2714</b>	<b>2225</b>	<b>299</b>	<b>8054</b> <i>(64)</i>	<b>4491</b> <i>(58)</i>	<b>8925</b> <i>(284)</i>	<b>21470</b> <i>(292)</i>	<b>1691</b> <i>(33)</i>
Doctoral full-time faculty	1705	1028	2393	1875	284	<b>7285</b>	3556	6790	<b>17631</b>	1618
Tenured	1107	566	1589	1264	168	<b>4693</b>	2475	4504	<b>11672</b>	851
Untenured, tenure-track	175	91	332	366	52	<b>1016</b>	849	1923	<b>3789</b>	390
Postdoctoral appointments	221	271	235	45	35	<b>807</b>	12	14	<b>833</b>	102
Other non-tenure-track	202	100	237	200	29	<b>769</b>	219	349	<b>1337</b>	276
Nondoctoral full-time faculty <i>(Standard error)<sup>1</sup></i>	76	7	322	350	15	<b>769</b> <i>(24)</i>	935 <i>(29)</i>	2135 <i>(142)</i>	<b>3839</b> <i>(146)</i>	73 <i>(5)</i>
<b>Total part-time faculty</b> <i>(Standard error)</i>	<b>196</b>	<b>30</b>	<b>373</b>	<b>525</b>	<b>19</b>	<b>1143</b> <i>(27)</i>	<b>1868</b> <i>(71)</i>	<b>4053</b> <i>(407)</i>	<b>7065</b> <i>(410)</i>	<b>149</b> <i>(14)</i>

<sup>1</sup> See 'Remarks on Statistical Procedures' page 1276.

## Faculty Profile

Table 1A gives the number of faculty for different categories of faculty broken down by survey group, Table 1B gives the same information for females only, and Table 1C gives some percentages based on the information in Tables 1A and 1B. The estimated total number of full-time faculty in the mathematics groups (Groups I, II, III, Va, M, and B combined) is 21,470, with a standard error of 292, down 616 from last year. The doctoral mathematics departments (Groups I, II, III, and Va) are up 254 full-time faculty members, Group M is down 204 faculty members, and Group B is down 666. The total faculty size in the statistics and biostatistics group (Group IV) is down to 1,691 this year from 1,702 last year.

This year the estimated number of part-time faculty in Groups I, II, III, Va, B, and M combined is 7,065, up 8% from last year's 6,543. The number of non-tenure-track doctoral faculty (including postdoctoral positions) is estimated at 2,170 this year, down 5% from 2,289 last year. The number of nondoctoral full-time faculty is estimated at 3,839 in Groups I, II, III, Va, M, and B combined, down from 4,107 last year, a 7% decrease. In Group IV the number of part-time faculty decreased from 201 last year to 149 this year, and the number of non-tenure-track doctoral faculty decreased from 402 last year to 378 this year due to the decreased number of postdoctoral appointments.

Table 1D gives an eight-year history of tenured/tenure-track, and non-tenure-track doctorate-holding faculty, and all part-time faculty for Groups I, II, III, and Va combined, for Group M, and for Group B. Also shown for each number in this table is the percentage of females. Comparing the 2007 values to the 2000 values, we see that for Groups I, II, III, and Va combined the number of tenured/tenure-track faculty is up 3%, the

number of non-tenure-track faculty is up 59%, and the number of part-time faculty is down 18%. For Group M, the number of tenured/tenure-track faculty is down 9%, the number of non-tenure-track faculty is down 11%, and the number of part-time faculty is down 2%. Finally in Group B, the number of tenured/tenure-track faculty is up 17%, the number of non-tenure-track faculty is down 11%, and the number of part-time faculty is up 13%.

Table 1E gives a summary of the various types of faculty found in departments of mathematical sciences by sex and group.

Tables 1F and 1G give more information about two types of faculty: full-time faculty without a doctorate and part-time faculty. The Table 1F shows the information for the 3,839 full-time faculty in the mathematics departments who do not have doctoral degrees. The majority of these faculty, 3,070 (80%), are found in Groups M and B departments. Table 1G shows the part-time faculty broken down by sex and whether they have a doctoral degree. Comparing Table 1G to last year's table, we see an overall increase in part-time faculty with the largest increase in Group B part-time faculty (12%, from 2,187 last year to 2,454 this year).

### Female Faculty

Table 1B gives a complete breakdown of all categories of female faculty by group. For 2007-2008 the estimated total number of full-time faculty in Groups I, II, III, Va, M, and B combined is 21,470, of which 5,891 are females. While the number of females is down from 6,063 last year, females comprise 27% of the full-time faculty in both 2006-2007 and 2007-2008. In Group B the estimated number of doctoral female faculty decreased from 1,903 last year to 1,863 this year, tenured female faculty decreased from 1,158 to 1,123, untenured

**Table 1B: Female Faculty, Fall 2007**

	GROUP									
	I Public	I Private	II	III	Va	I, II, III, & Va	M	B	I, II, III, Va, M, & B	IV
<b>Female full-time faculty</b> <i>(Standard error)</i>	246	139	590	546	48	1569 (24)	1428 (25)	2895 (232)	5891 (233)	485 (13)
Doctoral full-time faculty	204	136	379	343	39	1101	925	1863	3890	452
Tenured	78	37	152	180	16	462	544	1123	2129	167
Untenured, tenure-track	41	17	81	94	8	241	293	620	1154	147
Postdoctoral appointments	38	51	46	11	5	152	4	2	158	29
Other non-tenure-track	47	31	100	59	9	246	86	117	449	108
Nondoctoral full-time faculty	42	3	211	203	9	468	502	1031	2001	33
<b>Female part-time faculty</b>	63	3	142	208	3	418	720	1734	2872	59

**Table 1C: Full-Time Faculty, Fall 2007**

	GROUP								
	I Public	I Private	II	III	Va	M	B	IV	TOTAL
<b>Full-time faculty</b>	1781	1035	2714	2225	299	4491	8925	1691	23161
<i>Percentage of total full-time faculty</i>	8%	4%	12%	10%	1%	19%	39%	7%	100%
<b>Female full-time faculty</b>	246	139	590	546	48	1428	2895	485	6376
<i>Percentage of total female full-time faculty</i>	4%	2%	9%	9%	1%	22%	45%	8%	100%
<i>Percentage of total female faculty within group</i>	14%	13%	22%	25%	16%	32%	32%	29%	28%

**Table 1D: Mathematics Faculty Counts and Percentage Female, Fall 2000-2007**

	2000	2001	2002	2003	2004	2005	2006	2007
<b>Groups I, II, III, &amp; Va</b>								
Doctoral full-time faculty								
<b>Tenured/tenure-track</b>	5568	5598	5616	5559	5604	5686	5668	5709
<i>Percentage female</i>	9%	10%	10%	10%	11%	11%	12%	12%
<b>Non-tenure-track</b>	993	1233	1274	1343	1314	1401	1461	1576
<i>Percentage female</i>	21%	21%	23%	25%	25%	24%	25%	25%
<b>Part-time faculty</b>	1399	1467	1504	1389	1355	1054	1128	1143
<i>Percentage female</i>	37%	38%	35%	35%	37%	37%	40%	37%
<b>Group M</b>								
Doctoral full-time faculty								
<b>Tenured/tenure-track</b>	3670	3191	3188	3005	3113	3351	3400	3325
<i>Percentage female</i>	21%	23%	22%	22%	23%	24%	25%	25%
<b>Non-tenure-track</b>	262	183	276	230	277	263	283	232
<i>Percentage female</i>	29%	24%	39%	33%	48%	36%	28%	38%
<b>Part-time faculty</b>	1906	2323	2393	1952	1888	1842	1493	1868
<i>Percentage female</i>	35%	36%	37%	37%	37%	37%	41%	39%
<b>Group B</b>								
Doctoral full-time faculty								
<b>Tenured/tenure-track</b>	5486	5665	5569	6172	5770	6875	6623	6427
<i>Percentage female</i>	22%	24%	23%	26%	25%	25%	27%	27%
<b>Non-tenure-track</b>	407	504	507	460	472	516	545	363
<i>Percentage female</i>	30%	29%	36%	20%	29%	32%	25%	33%
<b>Part-time faculty</b>	3580	4197	4117	3997	4846	3630	3922	4053
<i>Percentage female</i>	40%	43%	45%	42%	44%	41%	40%	43%

but tenure-track female faculty increased from 610 to 620, and non-tenure-track doctoral female faculty (including postdoctoral appointments) decreased from 135 to 119. In Group M the doctoral full-time female faculty increased from 916 last year to 925 this year.

Table 1C compares the number of full-time and female full-time faculty that fall into each reporting group for fall 2007. The percentage who are female in each group is given in the bottom row of Table 1C. These percentages vary considerably among the groups, from a low of 13% for Group I Private to a high of 32% for Groups M and B.

Table 1D contains information about the percentage of female faculty among the tenured/tenure-track and non-tenure-track doctoral full-time faculty and among the part-time faculty for the years 2000 to 2007.

Table 1E gives the male/female breakdown by count and percentage for Groups I, II, III, and Va combined, Groups M and B combined, and Group IV for various categories of faculty. It shows that the percentage of women is generally higher in statistics (Group IV) than in the doctoral mathematics groups (Groups I, II, III, and Va combined) and that the percentage of tenured faculty who are women is highest in Groups M and B combined.

Table 1F shows that of the 3,839 nondoctoral full-time faculty in Groups I, II, III, Va, M, and B combined, 2,001 (52%) are females. From Table 1G we see that in these same groups there are 7,065 part-time faculty, of which 2,872 (41%) are females.

**Faculty Recruitment**

Table 2A contains detailed information on the number of full-time doctoral faculty positions under recruitment during 2006–2007 for employment beginning in the academic year 2007–2008. Among mathematics departments (Groups I, II, III, Va, M, and B), 1,786 positions were under recruitment, down 1% compared to those under recruitment during 2005–2006. Of those 1,786 positions, 1,564 (88%) were available to new doctoral recipients, and of those 1,564 positions, 935 (60%) were tenured/tenure-track positions. The 935 tenured/tenure-track positions open to new doctoral recipients is down 13% from the 1,073 such positions under

recruitment in 2005–2006 primarily reflecting declines in Groups M and B. The total number of tenured/tenure-track full-time doctoral positions under recruitment in Groups I, II, III, Va, M, and B combined is 1,131, down from last year’s 1,231 (a decrease of 8%). In Groups I, II, III, and Va combined, the total number of posted doctoral positions open at the associate/full level increased from 93 last year to 126 this year.

Table 2B condenses the information in Table 2A. It also reorganizes the doctoral hires into one section for new doctoral hires and another for other doctoral hires (so excludes posted doctoral positions that were temporarily filled with a

**Table 1E: Summary of Full-Time and Part-Time Faculty, Fall 2007**

	GROUP					
	I, II, III, & Va		M & B		IV	
	Male	Female	Male	Female	Male	Female
<b>Full-time faculty</b>	<b>6485</b>	<b>1569</b>	<b>9094</b>	<b>4322</b>	<b>1206</b>	<b>485</b>
<i>Percentage</i>	<i>81%</i>	<i>19%</i>	<i>68%</i>	<i>32%</i>	<i>71%</i>	<i>29%</i>
Doctoral full-time faculty	6184	1101	7557	2789	1167	452
<i>Percentage</i>	<i>85%</i>	<i>15%</i>	<i>73%</i>	<i>27%</i>	<i>72%</i>	<i>28%</i>
Tenured	4231	462	5312	1667	684	167
<i>Percentage</i>	<i>90%</i>	<i>10%</i>	<i>76%</i>	<i>24%</i>	<i>80%</i>	<i>20%</i>
Untenured, tenure-track	775	241	1860	913	243	147
<i>Percentage</i>	<i>76%</i>	<i>24%</i>	<i>67%</i>	<i>33%</i>	<i>62%</i>	<i>38%</i>
Postdoctoral appointments	655	152	20	6	73	29
<i>Percentage</i>	<i>81%</i>	<i>19%</i>	<i>78%</i>	<i>22%</i>	<i>71%</i>	<i>29%</i>
Other non-tenure-track	523	246	365	203	167	108
<i>Percentage</i>	<i>68%</i>	<i>32%</i>	<i>64%</i>	<i>36%</i>	<i>61%</i>	<i>39%</i>
Nondoctoral full-time faculty	301	468	1537	1533	39	33
<i>Percentage</i>	<i>39%</i>	<i>61%</i>	<i>50%</i>	<i>50%</i>	<i>54%</i>	<i>46%</i>
<b>Part-time faculty</b>	<b>725</b>	<b>418</b>	<b>3467</b>	<b>2454</b>	<b>90</b>	<b>59</b>
<i>Percentage</i>	<i>63%</i>	<i>37%</i>	<i>59%</i>	<i>41%</i>	<i>60%</i>	<i>40%</i>

**Table 1F: Nondoctoral Full-Time Faculty, Fall 2007**

Full-time Faculty	GROUP							
	I, II, III, & Va		M & B		TOTAL		IV	
	Male	Female	Male	Female	Male	Female	Male	Female
<b>Without a Doctorate</b>	<b>301</b>	<b>468</b>	<b>1537</b>	<b>1533</b>	<b>1838</b>	<b>2001</b>	<b>39</b>	<b>33</b>
Tenured	14	7	554	260	568	267	1	0
Untenured, tenure-track	3	1	139	136	142	137	2	1
Postdoctoral appointments	1	3	5	0	6	3	0	0
Other non-tenure-track	283	456	839	1137	1122	1593	36	32

**Table 1G: Part-Time Faculty, Fall 2007**

	GROUP							
	I, II, III, & Va		M & B		TOTAL	IV		
	Male	Female	Male	Female		Male	Female	
Doctoral part-time faculty	337	105	1015	545	<b>2002</b>	79	37	
Nondoctoral part-time faculty	388	313	2452	1909	<b>5063</b>	11	22	
<b>TOTAL</b>	<b>725</b>	<b>418</b>	<b>3467</b>	<b>2454</b>	<b>7065</b>	<b>90</b>	<b>59</b>	

**Table 2A: Recruitment of Faculty with a Doctorate, Fall 2007**

	GROUP									
	I Public	I Private	II	III	Va	I, II, III, & Va	M	B	I, II, III, Va, M, & B	IV
<b>Posted Doctoral Positions</b>										
<b>Total number<sup>1</sup></b> (Standard error)	<b>203</b>	<b>113</b>	<b>251</b>	<b>169</b>	<b>25</b>	<b>762</b> (34)	<b>279</b> (24)	<b>745</b> (81)	<b>1786</b> (85)	<b>160</b> (18)
Tenured/tenure-track	80	31	107	124	19	360	245	526	1131	130
Open to new doctoral recipients	142	84	212	147	21	607	245	712	1564	102
Tenured/tenure-track	30	8	79	107	16	240	210	485	935	95
Open at assoc/full level	30	19	27	46	4	126	28	53	207	50
<b>Reported Hires for Above</b>										
<b>Total number</b>	<b>184</b>	<b>102</b>	<b>227</b>	<b>138</b>	<b>19</b>	<b>669</b>	<b>220</b>	<b>597</b>	<b>1487</b>	<b>109</b>
Male doctoral hires	159	73	178	102	16	527	138	317	982	64
Tenured/tenure-track	51	12	64	66	13	207	119	210	536	58
Female doctoral hires	25	29	45	34	3	135	64	203	402	43
Tenured/tenure-track	9	4	20	27	0	61	56	157	274	27
Male temporary hires	0	0	3	1	0	4	17	43	64	0
Female temporary hires	0	0	1	1	0	3	2	35	39	2
<b>Total new doctoral hires</b>	<b>82</b>	<b>67</b>	<b>102</b>	<b>40</b>	<b>7</b>	<b>298</b>	<b>63</b>	<b>272</b>	<b>634</b>	<b>37</b>
Male new doctoral hires	61	50	83	26	4	224	37	149	410	19
Tenured/tenure-track	4	0	10	14	1	29	29	122	180	19
Female new doctoral hires	21	17	19	14	3	74	27	123	224	17
Tenured/tenure-track	3	0	4	12	0	18	27	105	151	15
<b>Unfilled positions</b>	<b>18</b>	<b>12</b>	<b>25</b>	<b>31</b>	<b>7</b>	<b>92</b>	<b>59</b>	<b>147</b>	<b>299</b>	<b>52</b>

<sup>1</sup> Number of full-time doctoral positions under recruitment in 2006–2007 to be filled for 2007–2008.

**Table 2B: A Summary of Recruitment of Faculty with a Doctorate, Fall 2007**

	GROUP		
	I, II, III, & Va	M & B	IV
<b>Posted Doctoral Positions</b>			
<b>Total number</b>	<b>762</b>	<b>1024</b>	<b>160</b>
Tenured/tenure-track	360	771	130
Open to new doctoral recipients	607	957	102
Tenured/tenure-track	240	695	95
<b>Reported Hires for Above, excluding temporary hires</b>			
<b>Total doctoral hires</b>	<b>663</b>	<b>722</b>	<b>107</b>
Tenured/tenure-track	268	543	85
Previously in non-tenure-track	164	211	25
Previously in postdoc	115	67	10
<b>Total new doctoral hires<sup>1</sup></b>	<b>298</b>	<b>335</b>	<b>37</b>
Tenured/tenure-track	48	283	35
Male	224	186	19
Tenured/tenure-track	29	151	19
Female	74	150	17
Tenured/tenure-track	18	132	15
<b>Total not-new doctoral hires</b>	<b>364</b>	<b>386</b>	<b>70</b>
Tenured/tenure-track	220	259	50
Male	304	269	45
Tenured/tenure-track	178	178	39
Female	61	117	25
Tenured/tenure-track	42	81	12

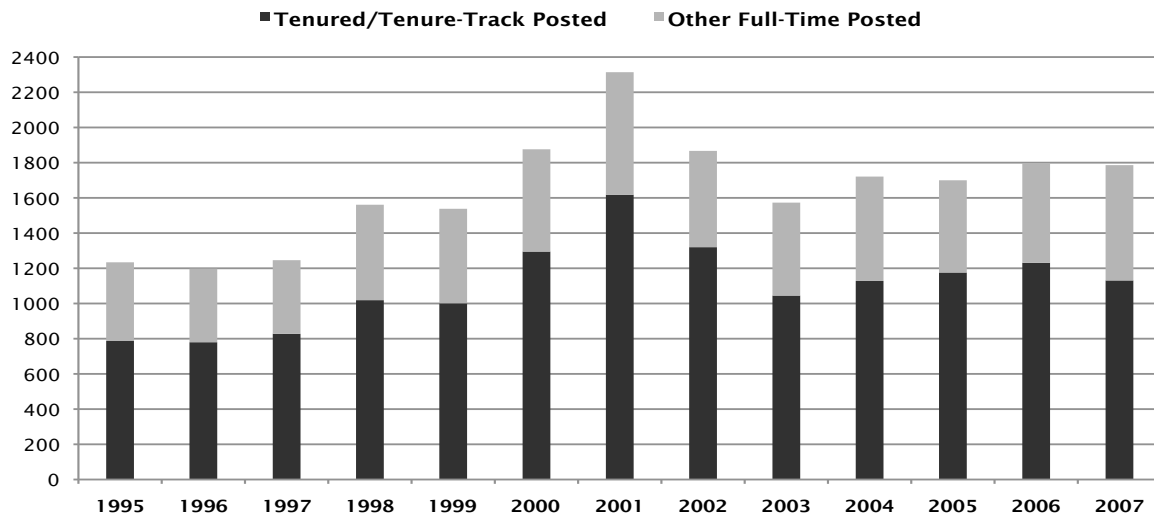
<sup>1</sup> New doctoral hires are individuals who have held a doctorate for less than one year at the time of hiring.

person without a doctorate). Table 2C is derived from Table 2B, with the percentage of the filled positions that were tenured/tenure-track included in the table.

This year the estimated total number of new doctoral hires in mathematics departments is down 10% (to 634 from 701) from last year; it is up 10% (to 298 from 271) in Groups I, II, III, and Va combined, and down 22% (to 335 from 430) in Groups M and B combined. The number of new doctoral tenure-track hires in the math groups combined is down 22% as a result of a decrease in Groups M & B combined (down to 283 from 362). Among the new doctoral hires in Groups I, II, III, and Va combined, 13% of all males and 24% of all females took tenure-track positions. In contrast, for new doctoral hires in Groups M and B combined, 81% of all males and 88% of all females took tenure-track positions. From Table 2C we see that in Groups I, II, III, and Va 16% of the hires of new doctoral recipients are in tenured/tenure-track positions (the same as last year), while in Groups M and B 84% of the new doctoral hires are in tenured/tenure-track positions (the same as last year).

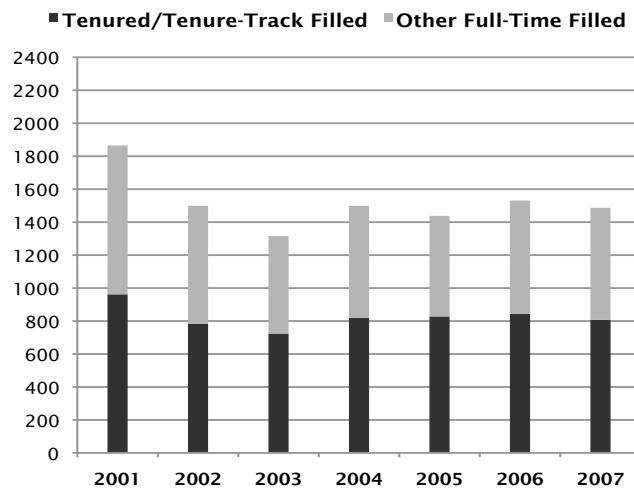
From Table 2B we find that the total number of full-time doctoral positions filled in mathematics departments (Groups I, II, III, Va, M, and B combined) is 1,385 down from 1,435 last year (a decrease of 4%); it is up 14% in Groups I, II, III, and Va combined and down 16% in Groups M and B combined. This year

**Figure 1: Number of Full-Time Doctoral Positions under Recruitment**  
Groups I, II, III, Va, M, & B Combined, Fall 1995 to Fall 2007



**Figure 1A. Number of Full-Time Doctoral Positions Filled**

Groups I, II, III, Va, M, & B Combined, Fall 2001 to Fall 2007



Groups I, II, III, and Va combined filled 663 doctoral positions, of which 268 (40%) were tenured/tenure-track positions. Last year these same groups filled 581 doctoral positions, of which 230 (40%) were tenured/tenure-track. Groups M and B combined filled 722 doctoral positions this year, and 543 (75%) of these were tenured/tenure-track positions. Last year these two groups filled 854 doctoral positions, of which 613 (72%) were tenured/tenure-track.

Beginning with the 2004 Annual Survey, departments were asked to report the number of doctoral hires into tenured/tenure-track positions filled by individuals who held a non-tenure-track position the previous year and of those, how many were in postdoctoral appointments. For Groups I, II, III, and Va combined, 164 individuals reported having held a non-tenure-track position the previous year (61% of the 268 tenure-track hires), with 115 (43%) having held a postdoctoral appointment the previous year. This compares with last year's figure of 121 (53%) positions filled

by individuals who held a postdoctoral appointment the previous year. For Groups M and B combined, 211 individuals (39% of the 543 tenure-track hires) reported having held a non-tenure-track position the previous year, with 67 (12%) having held a postdoctoral appointment the previous year. This compares with last year's figure of 137 (22%) positions filled by individuals who held a postdoctoral appointment the previous year.

The estimated number of not-new doctoral hires in mathematics departments is 750, up from 734 last year. The total of not-new doctoral hires into tenured/tenure-

**Table 2C: Positions Posted and Filled, Fall 2007**

Positions	GROUP		
	I, II, III, & Va	M & B	IV
Posted positions opened to new doctoral recipients	607	957	102
% tenured/tenure-track	40%	73%	92%
Positions filled by new doctoral recipients	298	335	37
% tenured/tenure-track	16%	84%	95%
Positions filled by not-new doctoral recipients <sup>1</sup>	364	386	70
% tenured/tenure-track	60%	67%	72%

<sup>1</sup> Not-new doctoral recipients are individuals who have held their doctorate for more than one year.

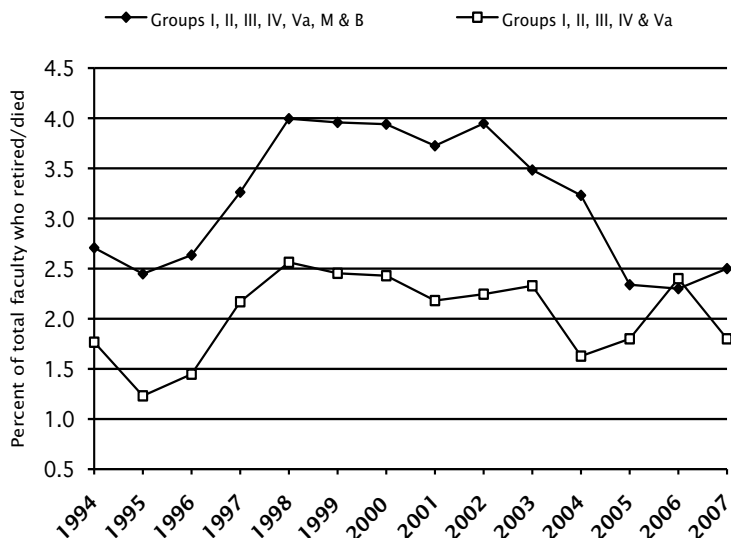


Table 3: Faculty Deaths & Retirements,<sup>1</sup> Fall 2007

	GROUP									
	I Public	I Private	II	III	Va	I, II, III, & Va	M	B	I, II, III, Va, M, & B	IV
<b>Full-time faculty who retired or died</b>										
Total number (Standard error)	39	4	46	52	7	149 (9)	98 (10)	292 (45)	539 (46)	29 (6)
Percentage	2.2%	0.4%	1.7%	2.3%	2.2%	1.8%	2.2%	3.3%	2.5%	1.7%

<sup>1</sup> Number and percentage of full-time faculty who were in the department in fall 2006 but were reported to have retired or died by fall 2007.

Figure 2: Faculty Retired/Died



track positions in all the mathematics groups combined is 479, up 10% from last year. It is up 19% in Groups I, II, III, and Va combined (to 220 from 185 last year), and up 3% in Groups M and B combined (259 from 251).

Figure 1 shows the number of full-time doctoral positions posted for all groups combined except Group IV, as well as the number of those that were tenured/tenure-track for the years 1995 to 2007. The number of positions posted and the number of available tenured/tenure-track positions steadily increased, reaching a maximum in 2001. These numbers declined for the next two years, then increased in 2004 and again in 2006. This year both the number of positions posted and the number of tenured/tenure-track positions posted have decreased slightly from last year.

Figure 1A shows the number of full-time doctoral positions filled for all groups combined except Group IV, as well as the number of tenured/tenure-track for the years 2001 to 2007. Since 2004 the number of tenured/tenure-track positions filled has remained relatively stable, while the number of other positions filled shows more variability across these years.

### Faculty Attrition

Table 3 displays losses of full-time mathematical sciences faculty due to retirements and deaths between 1 September 2006 and 31 August 2007 for each departmental grouping. The fall 2007 faculty attrition rate for Groups I, II, III, Va, M, and B combined is 2.5%, and it is 1.7% for Group IV. For fall 2007, Group I (Pri) had the lowest attrition rate at 0.4%, while Group B had the highest at 3.3%.

Figure 2 shows the trends in these attrition rates between 1994 and 2007. While the rates vary from group to group and from year to year within each group, for most of the 1990s the dominant trend was one of increasing attrition for all groups combined. In the late 1990s attrition leveled off then began dropping in 2003; it reached a low in 2006 and has increased slightly for 2007.

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