

Notices

of the American Mathematical Society

26th Annual AMS Survey 1982

First Report

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First Report

The following pages contain a first report on the 1982 AMS Survey. Included in this report are salary and other data on faculty members in four-year colleges and universities, a report on the 1982 survey of new doctorates, a report on salaries of new doctorates, and a list of names and thesis titles for members of the 1981-1982 Ph.D. class.

The Annual AMS Survey is conducted in two parts. Questionnaires were distributed in May to all departments in the mathematical sciences in colleges and universities in the United States and Canada, and later to the recipients of doctoral degrees granted by these departments between July 1981 and June 1982, inclusive. This report is based on the information collected from these questionnaires. A second round of questionnaires was distributed in September; these are concerned with data on fall enrollments, class size, teaching loads and faculty mobility. These data will be reported in the February or April 1983 issue of the *Notices*.

This Survey is the twenty-sixth in an annual series begun in 1957 by the Society's Committee on the Economic Status of Teachers. The present Survey is under the direction of the Committee on Employment and Educational Policy (CEEP), whose members are Lida K. Barrett (chairman), Irwin Kra, Robert W. McKelvey, Donald C. Rung, Robert J. Thompson, and Barnet M. Weinstock. The questionnaires were devised by CEEP's Data Subcommittee consisting of Lida K. Barrett, Susan J. Devlin, Lincoln K. Durst, Wendell H. Fleming, Arthur P. Mattuck, and Donald C. Rung (chairman).

Faculty Salaries, Tenure, Women

The questionnaires sent to departments in the mathematical sciences asked for information on salaries and tenure. Departments submitted a minimum, median, and maximum salary figure for each of four academic ranks, for staff members both with and without doctorates. Annual salaries of full-time faculty members for the academic year of 9 or 10 months were sought. The 1982 questionnaire requested information for both the years 1981-1982 and 1982-1983. The sample in this survey is thus the same for both years and is different from the sample used in the Twenty-Fifth AMS Survey in 1981. In the salary tables on the following pages the numbers in parentheses give the range of the middle fifty percent of salaries reported. The figures outside the parentheses represent the minimum and maximum salary listed by any reporting institution. In some categories relatively few departments reported and, because significant figures were not available, salaries are not listed.

The information reported this year on the number of faculty members is based on returns from 781 departments in the mathematical sciences, 150 of which did not contain usable salary information.

For these reports, the departments are divided into groups according to the highest degree offered in the mathematical sciences. The doctorate-granting departments are in six groups as described in the box.

Group I and Group II include the leading departments of mathematics in the U. S. according to the findings of the American Council on Education in 1969, in which departments were ranked according to the quality of their graduate faculty.¹

Group I is composed of the 27 departments with scores in the 3.0-5.0 range.

Group II is composed of the next 38 leading departments with scores in the 2.0-2.9 range.

Group III contains all other U.S. departments of mathematics.

Group IV includes U.S. departments of statistics, biostatistics and biometrics.

Group V includes all other U.S. departments in the mathematical sciences.

Group VI consists of all doctorate-granting departments in the mathematical sciences in Canadian universities.

Although Canadian doctorate-granting departments are grouped separately, those granting bachelor and master degrees are included with U.S. departments, as in previous reports in this series.

¹ The findings were published in *A Rating of Graduate Programs* by Kenneth D. Roose and Charles J. Andersen, American Council on Education, Washington, D.C., 1969, 115 pp. The information on mathematics was reprinted in the February 1971 issue of the *Notices*, pages 338 to 340.

TABLE 1: Total Faculty Reported for Four-Year Colleges and Universities

	1981-1982				1982-1983			
	FACULTY		WOMEN		FACULTY		WOMEN	
	Total	With Tenure	Total	With Tenure	Total	With Tenure	Total	With Tenure
<u>WITHOUT DOCTORATE</u>								
Instructor/Lecturer	829	51	46	27	810	52	425	25
Assistant Professor	597	406	32	91	614	379	135	82
Associate Professor	476	442	57	49	459	423	52	48
Professor	<u>173</u>	<u>167</u>	<u>13</u>	<u>13</u>	<u>167</u>	<u>164</u>	<u>12</u>	<u>12</u>
	2075	1066	648	180	2050	1018	624	167
<u>WITH DOCTORATE</u>								
Instructor/Lecturer	197	5	39	2	193	5	36	2
Assistant Professor	2074	221	269	24	2159	205	297	29
Associate Professor	2829	2511	205	161	2814	2479	207	159
Professor	<u>4013</u>	<u>3943</u>	<u>149</u>	<u>143</u>	<u>4196</u>	<u>4121</u>	<u>160</u>	<u>154</u>
	9113	6680	662	330	9362	6810	700	344

TABLE 2: Percent of Doctorate Faculty with Tenure

	Fall 1981	Fall 1982
Groups I, II, III	77.5%	78.1%
Groups IV, V	64.2%	62.9%
Group VI	88.4%	88.2%
Masters and Bachelors	70.6%	69.4%

TABLE 3: Response Rates

Group	U.S. Departments						
	I	II	III	IV	V	M	B
% Response	74	79	78	63	41	47	37
Group	Canadian Departments						
	VI	M	B				
% Response	37	30	27				

Response Rates. Response rates among the various classes of departments vary widely, thus making it difficult to draw firm conclusions about the sizes of the faculty groups studied. Because the questionnaires request data for two years in a row, however, it is possible to estimate

relative changes from one year to the next with somewhat more confidence. This year's response rates are given in Table 3. As in past years, the greatest rates of response are in Groups I, II, and III, which have a combined response rate of 77%.

Faculty Salaries

SIZE OF FACULTY

1981-1982		1982-1983	
FACULTY	WOMEN	FACULTY	WOMEN
With Total Tenure	With Total Tenure	With Total Tenure	With Total Tenure
3	0	3	0
0	3	0	3
3	0	3	0

DOCTORATE GRANTING DEPARTMENTS. Group I

(20 of 27 reporting)	
FACULTY	WOMEN
With Total Tenure	With Total Tenure
36	0
150	6
130	11
594	12
910	49

DOCTORATE GRANTING DEPARTMENTS. Group II

(30 of 38 reporting)	
FACULTY	WOMEN
With Total Tenure	With Total Tenure
43	2
8	1
2	0
53	28

DOCTORATE GRANTING DEPARTMENTS. Group III

(70 of 90 reporting)	
FACULTY	WOMEN
With Total Tenure	With Total Tenure
55	2
173	10
355	16
539	14
1122	58

SALARIES

(in hundreds of dollars)

	1981-1982			1982-1983		
	Minimum	Median	Maximum	Minimum	Median	Maximum
DOCTORATE GRANTING DEPARTMENTS. Group I						
WITHOUT DOCTORATE						
Instructor/Lecturer	---	---	---	---	---	---
Assistant Professor	180(181-205)	(195-216)	(215-231)280	190(197-217)	---	---
Associate Professor	190(218-246)	(253-276)	(276-325)340	216(237-255)	(212-226)	(223-250)280
Professor	248(277-330)	(365-436)	(513-575)630	262(283-372)	(260-288)	(285-318)364
					(381-460)	(545-629)655
DOCTORATE GRANTING DEPARTMENTS. Group II						
WITHOUT DOCTORATE						
Instructor/Lecturer	---	---	---	---	---	---
Assistant Professor	135(160-190)	(166-190)	(171-200)291	155(166-200)	(173-210)	(180-210)236
Associate Professor	148(175-210)	(197-228)	(213-256)280	180(200-219)	(211-240)	(236-260)290
Professor	189(220-246)	(246-280)	(270-326)378	196(229-269)	(263-303)	(293-355)406
	230(265-301)	(336-397)	(465-545)670	250(283-323)	(361-419)	(510-570)650
DOCTORATE GRANTING DEPARTMENTS. Group III						
WITHOUT DOCTORATE						
Instructor/Lecturer	---	---	---	---	---	---
Assistant Professor	105(124-169)	(131-171)	(140-193)250	105(135-170)	(139-184)	(155-200)260
Associate Professor	161(179-206)	(182-221)	(198-230)258	175(184-230)	(193-242)	(212-248)263
Professor	161(236-276)	(249-290)	(251-292)337	210(241-291)	(261-301)	(277-312)341
	---	---	---	---	---	---
DOCTORATE GRANTING DEPARTMENTS. Group III						
WITH DOCTORATE						
Instructor/Lecturer	43	1	5	1	5	1
Assistant Professor	395	47	41	39	41	39
Associate Professor	621	585	38	31	26	25
Professor	821	820	26	25	25	25
	1880	1443	110	60	1886	1457

SALARIES
(in hundreds of dollars)

SIZE OF FACULTY

1981-1982 **1982-1983**
FACULTY **FACULTY** **WOMEN** **WOMEN**
With **With** **With** **With**
Total **Total** **Total** **Total**
Tenure **Tenure** **Tenure** **Tenure**

1981-1982 **1982-1983**
Minimum **Median** **Maximum** **Minimum** **Median** **Maximum**

MASTER DEGREE GRANTING DEPARTMENTS. (159 of 347 reporting including 6 of 20 Canadian Departments)

	1981-1982				1982-1983										
	Total	With Tenure	Total	With Tenure	Minimum	Median	Maximum	Minimum	Median	Maximum					
WITHOUT DOCTORATE															
Instructor/Lecturer	290	29	154	14	289	29	149	13	100(133-170)	(142-180)	(145-191)248	110(140-173)	(147-184)	(153-200)260	
Assistant Professor	245	201	52	43	253	193	54	39	164(185-218)	(195-232)	(200-238)291	160(195-236)	(207-247)	(219-259)311	
Associate Professor	177	169	19	18	170	163	19	19	184(215-266)	(225-272)	(234-281)349	195(228-284)	(237-285)	(248-299)370	
Professor	46	45	5	5	45	45	5	5	230(253-333)	(253-340)	(259-350)449	247(268-332)	(270-348)	(270-367)499	
	<u>758</u>	<u>444</u>	<u>230</u>	<u>80</u>	<u>757</u>	<u>430</u>	<u>227</u>	<u>76</u>							
WITH DOCTORATE															
Instructor/Lecturer	35	0	7	0	36	1	6	0	---	---	---	---	---	---	---
Assistant Professor	506	93	71	7	548	85	82	10	155(176-208)	(185-224)	(200-242)360	140(189-220)	(203-235)	(219-268)370	
Associate Professor	775	692	65	53	783	687	71	54	170(213-244)	(232-264)	(251-300)396	190(225-260)	(247-285)	(266-321)413	
Professor	797	788	48	47	848	831	54	52	204(257-305)	(289-341)	(311-383)482	202(270-323)	(302-362)	(340-410)503	
	<u>2113</u>	<u>1573</u>	<u>191</u>	<u>107</u>	<u>2215</u>	<u>1604</u>	<u>213</u>	<u>116</u>							

BACHELOR DEGREE GRANTING DEPARTMENTS. (393 of 1064 reporting including 9 of 33 Canadian Departments)

	1981-1982				1982-1983										
	Total	With Tenure	Total	With Tenure	Minimum	Median	Maximum	Minimum	Median	Maximum					
WITHOUT DOCTORATE															
Instructor/Lecturer	307	6	153	2	298	8	143	2	95(140-160)	(140-162)	(140-173)247	103(145-180)	(152-185)	(160-191)295	
Assistant Professor	267	139	54	28	286	130	62	28	120(162-211)	(168-219)	(175-230)304	120(173-227)	(181-235)	(185-245)346	
Associate Professor	240	216	30	25	236	210	28	24	128(192-245)	(197-250)	(200-257)443	138(209-261)	(210-270)	(213-280)500	
Professor	87	84	8	8	85	83	7	7	181(243-336)	(243-336)	(243-342)413	205(259-332)	(259-344)	(259-355)445	
	<u>901</u>	<u>445</u>	<u>245</u>	<u>63</u>	<u>905</u>	<u>431</u>	<u>240</u>	<u>61</u>							
WITH DOCTORATE															
Instructor/Lecturer	17	1	3	0	19	1	5	1	---	---	---	---	---	---	---
Assistant Professor	425	47	78	5	444	50	88	8	143(170-200)	(175-208)	(180-220)321	143(183-218)	(190-229)	(195-235)388	
Associate Professor	549	444	57	41	562	450	59	41	143(204-247)	(209-260)	(215-275)417	148(217-266)	(224-277)	(229-296)450	
Professor	514	491	34	31	546	522	34	31	135(239-299)	(250-313)	(260-338)535	140(250-321)	(264-333)	(270-360)514	
	<u>1505</u>	<u>983</u>	<u>172</u>	<u>77</u>	<u>1571</u>	<u>1023</u>	<u>186</u>	<u>81</u>							

Report on the 1982 Survey of New Doctorates

by Donald C. Rung

This report presents a statistical profile of new doctorates in the mathematical sciences. It includes the employment status of recipients of 1981-1982 doctorates in the mathematical sciences, and a breakdown according to their sex, racial/ethnic group, and citizenship. In addition, trends in the number of doctoral degrees in the mathematical sciences are reported for each group of departments as defined by the 1969 American Council on Education survey (described on the first page of this report of the 1982 Survey).

The number of new doctorates reported for 1981-1982 is 860, which is within two of the lowest number of new doctorates reported over the last 15 years. The 1979-1980 report listed 858 new doctorates. Last year's total of 904 gave some hope that the number of new doctorates was now increasing, but this year's number belies this belief. For comparison purposes all figures are taken from the survey reported each year in the November *Notices*. A second updated

report on the employment status of the 1981-1982 doctorates is planned for the February or April 1983 issue of the *Notices*. It is clear that the demand is now somewhat in excess of the supply. As of August 1982, there were only 32 doctorates reported as still seeking employment (the same total as last year) and, if past experience holds, most will find employment later this year. Based upon these reports over the last three years and the increased demand for doctorates reported in the *Employment Information in the Mathematical Sciences*, the author believes that an increase in the number of new doctorates to a level of 950 per year is necessary to meet the demand, especially in the more applicable areas.

The percentage of new doctorates who are women decreased from 16.4% in 1980-1981 to 12.9% in 1981-1982. This is about the same percentage as reported in 1979-1980. In absolute numbers there were 111 women who received doctorates in 1981-1982 as compared to 148 in 1980-1981. It is interesting to

TABLE 1: 1981-1982 Employment Status of New Doctorates in the Mathematical Sciences

Type of Employer	PURE MATHEMATICS						Statistics	Computer Science	Operations Research	Applied Mathematics	Mathematics Education	Other	Total
	Algebra and Number Theory	Analysis and Functional Analysis	Geometry and Topology	Logic	Probability								
Group I	17	15	20	2	3	2	1		4		1	65	
Group II	15	10	6		4	2	2	1	6			46	
Group III	8	12	6		3	8	2	1	15		1	56	
Group IV						34		1	1			36	
Group V				1	1	1	25	5	1		2	36	
Masters	11	22	10	3	2	11	4	2	9		2	76	
Bachelors	20	13	6	2	1	5			6	2	3	58	
Two-year College or High School	2	1	1			1				4	1	10	
Other Academic Departments		4	2		3	24	6	10	11	1	5	66	
Research Institutes	3	7	4			7		2	9		2	34	
Government	3		2			8	2	1	5			21	
Business and Industry	3	9	5	3	3	35	40	12	18		6	134	
Canada, Academic	3	1	3	2		6	3	3	3		6	30	
Canada, Nonacademic	1					2		2				5	
Foreign, Academic	8	8	4	2	1	25	10	9	5		3	75	
Foreign, Nonacademic	3	8	2		1	8	3	3	4		1	33	
Not seeking employ.		1	1			2		1	1		2	8	
Not yet employed	4	6	3	1	2	5	2	2	5		2	32	
Unknown	4	7	3		1	12	5	3	2		2	39	
Total	105	124	78	16	25	198	105	58	105	7	39	860	

note that the percentage still seeking employment was about the same (3.9%) for both men and women. This percentage is the lowest in recent years and indicates that employment opportunities continue to be good.

The number of those employed by government business and industry fell from 178 to 155, perhaps reflecting recessionary times.

It should be noted that the reported number of new doctorates conferred by Group V departments which include computer science is considerably less than the actual number. It may be that the numbers reported to the AMS represent less than one-half of the total! It is estimated that in 1979-1980 there were 218 doctorates in the computer sciences (February 1982 *Notices*, page 148) while our figure in the November 1980 *Notices* was 90.

Employment Status of New Doctorates, 1981-1982. Table 1 shows the employment status, by type of employer and field of degree, of 860 recipients of doctoral degrees conferred by mathematical sciences departments in the U.S. and Canada between July 1, 1981 and June 30, 1982. These 860 individuals are listed, with their thesis titles, later in this report.

In rows 1 through 5, the numbers who accepted appointments in U.S. doctorate-granting mathematical sciences departments (Groups I-V) are given. In the next two rows, the figures represent those accepting appointments in U.S. mathematical sciences departments granting masters and bachelors degrees

only. The information was obtained both from the departments granting the degrees and from questionnaires subsequently completed by about 43% of the recipients themselves.

Among those 1981-1982 new doctorates employed in the U.S. about 59% took positions in university or college mathematical sciences departments. About 24% took positions in government, business, and industry, while the remaining 17% are in two-year colleges, high schools, other academic departments, or research institutes. These figures are similar to those reported last year.

Table 1 shows as "not yet employed" about 3.9% of the 1981-1982 new doctorates (this excludes those whose employment status is unknown, and those not seeking employment). This is the same figure as last year. The data in Table 1 were in many instances obtained early in the summer of 1982 and do not reflect subsequent hiring during the summer; an update of Table 1 is planned for the February or April 1983 *Notices*. A similar update last year revealed that nearly all new 1980-1981 doctorates not yet employed by early summer subsequently found positions by Fall 1981. (See the *Notices*, November 1981, page 613 and February 1982, page 145.) Only eleven individuals included in Table 1 were reported as having taken part-time employment.

Sex, Race, and Citizenship of New Doctorates, 1981-1982. Table 2 below represents a breakdown according to sex, racial/ethnic group, and citizenship of these 860 new doctorates. The information summarized in Table 2 was obtained from department heads and in some cases from recipients themselves.

TABLE 2: Sex, Minority Group, and Citizenship of New Doctorates

July 1, 1981-June 30, 1982

U. S. DEGREES	MEN					WOMEN					TOTAL
	CITIZENSHIP					CITIZENSHIP					
	U. S.	Canada	Other	Not Known	Total Men	U. S.	Canada	Other	Not Known	Total Women	
RACIAL/ETHNIC GROUP											
Asian, Pacific Islander	19	3	94	7	123	5		6	1	12	135
Black	5		7		12	2				2	14
American Indian, Eskimo, Aleut Mexican American, Chicano, Puerto Rican	2		6		8						8
None of those above	371	10	131	2	514	77		10		87	601
Unknown	34	2	8	1	45	4		2		6	51
Total Number	431	15	246	10	702	88		18	1	107	809

CANADIAN DEGREES	MEN					WOMEN					TOTAL
	CITIZENSHIP					CITIZENSHIP					
	U. S.	Canada	Other	Not Known	Total Men	U. S.	Canada	Other	Not Known	Total Women	
RACIAL/ETHNIC GROUP											
Asian, Pacific Islander		1	15		16						16
Black											
American Indian, Eskimo, Aleut Mexican American, Chicano, Puerto Rican											
None of those above	1	11	12		24	3				3	27
Unknown		5		2	7	1				1	8
Total Number	1	17	27	2	47	4				4	51

Analysis of the 1981-1982 employment forms for the new U.S. doctorates indicates that 10% of those employed by Groups I, II and III departments are women, as compared to 12% last year. Of the new doctorates employed by bachelors and masters degree-granting departments 16% are women, while of those employed by government, business, and industry 13% are women.

Trends in the Number of New Doctorates. Table 3 gives the number of doctorates granted during 1979-1980, 1980-1981, and 1981-1982 by those departments in Groups I-VI, *which reported in all three years* (as of August 15, 1982). The number of such departments is indicated in parentheses.

Table 3 seems to indicate that the decline in new doctorates over last year is shared by each group except for group IV.

TABLE 3: Number of New Mathematical Sciences Doctorates Reported by Selected Departments

	79-80	80-81	81-82
Group I (26 depts.)	243	210	198
Group II (30 depts.)	113	101	98
Group III (66 depts.)	<u>143</u>	<u>142</u>	<u>131</u>
Subtotal	499	453	427
Group IV (39 depts.)	102	146	144
Group V (32 depts.)	120	118	109
Group VI (20 depts.)	<u>65</u>	<u>47</u>	<u>34</u>
Subtotal	<u>287</u>	<u>311</u>	<u>287</u>
TOTAL	786	764	714

Salary Survey for New Recipients of Doctorates

The figures for 1982 in this article were compiled from questionnaires sent to individuals who received a doctorate in the mathematical sciences during the 1981-1982 academic year from universities in the United States and Canada.

Questionnaires requesting information on salaries and professional experience were distributed to 705 recipients of degrees using addresses provided by the departments which granted the degrees. Of these, 9 were returned by the postal service as undeliverable and could not be forwarded. There were 371 individuals who returned forms between late June and early September. The tables below are based on the responses from 335 of these individuals (285 men and 50 women). Data from 36 responses were not used in the compilation of the tables below; forms with insufficient data, or from individuals who had indicated they had part-time employment, were not yet employed, or were not seeking employment were considered unusable.

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. More comprehensive information on the number, the sex-minority group status-citizenship, and the employment status of the recipients of new doctorates granted last year in the mathematical sciences in the U.S. and Canada may be found in the previous article of this report on the 1982 Survey.

Key to Tables. *Salaries* are listed in hundreds of dollars. *Years* listed refer to the academic year ending in the listed year. *M* and *F* are Male and Female respectively. *One year experience* means that the persons had experience limited to one year or less in the same position or a position similar to the one reported; some persons receiving a doctorate had been employed in their present position for several years. (*X + Y*) means there are *X men and Y women* in the 1982 sample. Quartile figures are given only in cases where the number of responses is large enough to make them meaningful.

NINE-MONTH SALARIES

Year	Min.	Q ₁	Median	Q ₃	Max.
TEACHING OR TEACHING AND RESEARCH (161 + 24)					
1978	92	135	145	159	211
1979	100	145	157	170	234
1980	105	155	171	185	250
1981	130	175	190	210	320
1982	160	190	206	229	370
1978M	100	135	145	160	211
1978F	92	131	145	151	195
1979M	100	145	158	170	234
1979F	115	145	152	171	200
1980M	120	155	171	185	250
1980F	105	151	164	198	210
1981M	130	175	190	210	320
1981F	146	177	195	216	300
1982M	160	192	210	229	370
1982F	160	175	198	225	285
One year experience (139 + 20)					
1982M	160	191	209	222	311
1982F	160	183	200	225	285

RESEARCH (3 + 1)

1978	120	-	-	125
1979	110	-	132	160
1980	125	-	137	180
1981	143	-	-	145
1982	180	-	190	235
1978M	120	-	-	125
1978F	-	-	-	-
1979M	110	-	132	160
1979F	-	-	-	-
1980M	125	-	137	180
1980F	-	-	-	-
1981M	143	-	-	145
1981F	-	-	145	-
1982M	180	-	190	190
1982F	-	-	235	-
One year experience (3 + 0)				
1982M	180	-	190	190
1982F	-	-	-	-

TWELVE-MONTH SALARIES

Year	Min.	Median	Max.	Year	Min.	Median	Max.
TEACHING OR TEACHING AND RESEARCH (35 + 8)				GOVERNMENT (15 + 2)			
1978	101	185	290	1978	170	220	320
1979	120	195	240	1979	180	243	357
1980	143	195	350	1980	156	244	501
1981	156	203	400	1981	220	290	460
1982	100	250	500	1982	228	325	470
1978M	101	180	290	1978M	170	220	320
1978F	187	195	223	1978F	170	200	250
1979M	120	188	240	1979M	180	254	357
1979F	210	233	240	1979F	190	231	256
1980M	143	190	350	1980M	156	230	501
1980F	147	200	220	1980F	205	247	280
1981M	156	200	400	1981M	220	294	400
1981F	165	213	290	1981F	252	269	460
1982M	180	250	500	1982M	228	331	470
1982F	100	266	367	1982F	282	326	369
One year experience (25 + 5)				One year experience (10 + 2)			
1982M	180	240	310	1982M	228	331	416
1982F	230	252	291	1982F	282	326	369

RESEARCH (18 + 4)

1978	100	185	248
1979	100	174	271
1980	120	180	321
1981	140	200	280
1982	130	245	364
1978M	100	187	248
1978F	-	180	-
1979M	100	174	271
1979F	-	-	-
1980M	120	180	321
1980F	178	200	264
1981M	140	200	280
1981F	150	168	200
1982M	144	230	336
1982F	130	265	364
One year experience (15 + 4)			
1982M	144	230	336
1982F	130	265	364

BUSINESS AND INDUSTRY (53 + 11)

1978	145	240	387
1979	140	254	380
1980	190	284	400
1981	195	308	500
1982	196	354	550
1978M	145	246	387
1978F	180	210	251
1979M	140	251	380
1979F	200	255	350
1980M	190	284	400
1980F	218	283	345
1981M	195	319	500
1981F	226	290	358
1982M	196	366	550
1982F	230	350	430
One year experience (32 + 10)			
1982M	243	355	418
1982F	230	347	400