16th

ANNUAL SALARY SURVEY

As has been the practice for several years, questionnaires were sent again this year to departments in the mathematical sciences asking for information on salaries. The two-year colleges were sent a form which allowed them to report salaries without regard to academic rank, because many of the junior colleges do not rank their teaching staffs. These results are included in a listing under "two-year colleges." Except for the starting salary survey, the institutions are divided into groups according to the highest degree offered in the mathematical sciences.

Ph. D. Granting Institutions

Group I and Group II include the universities with leading departments of mathematics according to the findings of a survey made by the American Council of Education in 1969* in which departments were ranked according to the quality of their graduate faculty. Group I is composed of the twenty-seven institutions in which the departments of mathematics were ranked highest, and Group II is made of the thirty-eight institutions which were also listed in that report as having leading departments. It should be noted that most of these institutions have several departments in the mathematical sciences (see figures below) but that the rating was on the strength of the department of mathematics.

Group III includes those universities that have granted three or more doctorates during the last three years according to the list of doctorates which is published in these Notices).

Group IV consists of institutions that have granted two or less doctorates during the past three years.

All Canadian universities maintaining Ph. D. granting programs are included in Groups III and IV.

The total number of institutions and of departments in the mathematical sciences in the various groups are as follows.

	Numb	er of
Type of institution	Insti- tutions	Depart- ments
Ph. D. granting Group I	077	1 722
Group II	27 .	86
Group III	38	95
Group IV	75 37	145 54
Master's granting	225	242
Bachelor's granting	953	966
Two-year colleges	600	600
	1955	2188

Faculty Salaries

This survey is the sixteenth in an annual series begun in 1957 by the Society's Committee on the Economic Status of Teachers. The 1972 survey is based on returns from 943 departments in the mathematical sciences. The institutions include 92 two-year colleges which do not classify staff according to academic rank.

The 943 departments in the survey cover 12,593 academic positions held in 1971–1972 and 12,644 positions in 1972–1973. Institutions submitted a minimum, median, and maximum salary figure for each of four academic ranks, both for staff members with master's degrees and for those with doctorates, creating fortyeight categories of salary figures. In some instances,

relatively few universities or colleges reported, and inasmuch as there were no significant figures available, salaries could not be listed.

In the following two pages the data in the 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. Salaries are given in "hundreds of dollars."

All salaries refer to an academic year of nine or ten months. Grants and contracts are included but sabbatical payments and other part-time salaries are not.

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^{*}The findings were published in "A Rating of Graduate Programs" by Kenneth D. Roose and Charles J. Anderson, American Council of Education, Washington, D. C., 1969, 115 pp. The information on mathematics was reprinted by the Society and can be found on pages 338-340 of the February 1972 issue of these CNotices).

0	1			0 (04				Notices of t		American Mathe 9, Issue 6, Octol	m	atical Society r 1972			
ble Returns. 49			Maximum (105-114)120 (127-147)170 (162-188)205 (270-332)380	hle Refume. 61		(90-121)149		(132-149)199 (172-191)336 (264-307)400	8	38 157 193		(130–149)189 (158–188)207 (223–282)362	le Returns: 23		(90-98)119 (126-139)144
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Z	reds of dollars)		Minimum 79(100-111) 80(110-125) 112(138-160) 150(170-210)	ž		60(83-113)		87(113-130) 112(136-160) 125(176-210)	Nu	48(80-97) 85(100-118) 105(127-158)		92(110-121) 98(129-151) 100(165-195)	Nu		83(89-91) 89(104-131)
	SALARIES (in hundreds of dollars)		Maximum (108-110)111 (124-140)159 (160-180)198 (261-320)368			(83-116)142		(132-148)190 (167-190)323 (252-300)400		(83-105)132 (104-122)145 (130-160)185		(126-146)173 (156-181)220 (215-278)349			(90-98)125 (117-131)142
	SA 1971-1972		Median (104-107) (115-129) (148-163) (215-240)			(81–107)		(123-135) (147-171) (212-244)		(76-95) (103-117) (127-154)		(117-128) (139-160) (187-215)			(84–95) (117–124)
			Minimum 95(100-106) 90(105-120) 94(131-150) 148(163-200)			60(80-107)		86(110-125) 109(135-159) 140(171-210)		54(70-92) 87(100-115) 95(121-154)		92(105-117) 95(125-145) 94(158-187)			60(78–88) 95(102–118)
NS. Group I	Total Number of Staff Members	1079 1079	11	4S. Group II		7.1		$ \begin{array}{c} 42 \\ 591 \\ 488 \\ 550 \\ \hline 1671 \end{array} $	IS. Group III	143 72 63 15 293		$\begin{array}{c} 42 \\ 713 \\ 686 \\ 596 \\ \hline 2037 \end{array}$	S. Group IV		29 35 15 13 92
STITUTIO	Total I	1971_1979	299 272 272 576 1217	TITUTION		26		29 652 457 517 1655	TITUTION	205 88 69 14 376		$\begin{array}{c} 42 \\ 746 \\ 626 \\ 566 \\ \hline 1980 \end{array}$	ITUTION		36 38 15 14
PH. D. GRANTING INSTITUTIONS. Group I		DOCTORAT, DECEPE	Instructor Asst, Professor Assoc, Professor Professor	PH. D. GRANTING INSTITUTIONS. Group II	NON-PH. D. DEGREE	Instructor	THE TAGONOO	DOCIORAL DEGREE Instructor Asst. Prof. Assoc. Prof. Professor	PH. D. GRANTING INSTITUTIONS. Group III	NON-PH. D. DEGREE Instructor Asst. Professor Assoc. Professor Professor	DOCTOBAT DECEME	Instructor Asst. Professor Assoc. Professor Professor	PH. D. GRANTING INSTITUTIONS. Group IV	NON-PH. D. DEGREE	Instructor Asst, Professor Assoc, Professor Professor

5	143		376			216		
	Number of Usable Returns: (87-107) (90-111)133 (106-124) (111-132)170 (124-151) (125-157)191 (140-176) (141-180)270	(125–142)208 (143–168)255 (180–219)313	Number of Usable Returns:	(86-100)190 (99-120)175 (113-144)230 (139-173)288	(110-128)208 (123-155)245 (150-200)326	Number of Usable Returns: (103-138) (113-166)255 (117-170) (119-172)288		(96-124)180 (107-131)200 (119-160)235 (125-190)255
(124–131) (141–166) (185–232)	(87-107) (106-124) (124-151) (140-176)	(119–131) (138–158) (170–199)	Number of Us	(85-100) (97-115) (113-139) (139-173)	(107–122) (123–147) (149–190)	Number of Us (103–138) (117–170)	gures above)	(91-116) (105-124) (116-150) (124-182)
100(105-122) 120(128-155) 136(160-194)	65 (85–102) 72 (101–116) 87 (117–149)	80(110-123) 87(130-147) 92(158-188)		36(83-100) 40(93-111) 74(110-137) 100(139-173)	40(105-119) 80(120-145) 92(145-181)	50(89-116) 81(112-163)	JUDED in the fi	50(87-108) 75(99-118) 84(112-144) 54(115-182)
(130–140)160 (149–180)220 (219–260)361	(88-107)125 (108-126)160 (120-151)185	(122–139)208 (143–163)245 (172–209)313		(83–98)185 (99–117)165 (110–138)220 (130–173)275	(110–125)198 (120–151)235 (148–196)326	(108-160)245 (120-164)273	FF IS CLASSIFIED BY ACADEMIC RANK (124 returns; INCLUDED in the figures above)	(90-119) (103-133)193 (113-160)235 (120-180)245
(118-129) (141-162) (188-220)	(84–102) (102–119) (120–144)	(115-128) (135-153) (164-193)		(82-95) (95-110) (108-133) (130-168)	(105–120) (120–147) (146–183)	(98-133) (116-164)	SMIC RANK (1	(88-113) (99-119) (109-149) (120-172)
97(107–117) 118(125–145) 135(162–190)	52(80-99) 67(102-112) 84(118-140)	94(109-120) 85(125-146) 89(154-184)	s	36(80-92) 40(90-108) 71(107-131) 96(130-168)	79(103-116) 83(117-143) 89(144-174)	50(85-108) 77(109-163)	TED BY ACADE	50(84-105) 79(95-113) 80(106-140) 54(111-168)
$\begin{array}{c} 3 \\ 205 \\ 167 \\ \hline 522 \end{array}$	IG INSTITUTIONS 302 508 241	$ \begin{array}{c} 1121 \\ 21 \\ 744 \\ 564 \\ 463 \\ \hline 1792 \end{array} $	TING INSTITUTIONS	$ \begin{array}{r} 279 \\ 524 \\ 293 \\ \hline 71 \\ \hline 1167 \end{array} $	$\begin{array}{c} 11 \\ 518 \\ 329 \\ 347 \\ \hline 1205 \end{array}$	1442 103	E STAFF IS CLASSIF	$ \begin{array}{r} 267 \\ 293 \\ 183 \\ \hline 76 \\ \hline 819 \\ \end{array} $
$\begin{array}{c} 1 \\ 214 \\ 152 \\ 140 \\ \hline 507 \end{array}$	363 530 232	$ \begin{array}{c} 1195 \\ 12 \\ 741 \\ 503 \\ 440 \\ 1696 \end{array} $	GRAN	$\begin{array}{c} 332 \\ 539 \\ 289 \\ \hline 66 \\ \hline 1226 \end{array}$	$\begin{array}{c} 10 \\ 472 \\ 290 \\ 323 \\ \hline 1095 \end{array}$	1446 98	S WHOS	$\begin{array}{c} 302 \\ 293 \\ 156 \\ 67 \\ \hline 818 \end{array}$
DOCTORAL DEGREE Instructor Asst. Professor Assoc. Professor Professor	MASTER'S DEGREE GRANTING INSTITUTIONS NON-PH. D. DEGREE 363 302 Instructor 363 302 Asst. Professor 530 508 Assoc. Professor 232 241	DOCTORAL DEGREE Instructor Asst. Professor Assc., Professor Professor	BACHELOR'S DEGREE GRANTING	NON-PH, D. DEGREE Instructor Asst. Professor Assoc. Professor Professor	DOCTORAL DEGREE Instructor Asst, Professor Assoc, Professor Professor	TWO-YEAR COLLEGES NON-PH. D. DEGREE DOCTORAL DEGREE	TWO-YEAR COLLEGES WHOSE STA	Instructor Asst, Professor Assoc, Professor Professor

Graduate Student Support

The figures below represent the major sources of support (excluding tuition) of full-time graduate students enrolled for advanced degrees in 1971-1972 and estimates for 1972-1973. The type of support has been converted into percentages, with the total number of students represented by the sample given in the last column.

Replies from Canadian institutions have been

listed separately so that the U.S. figures can be compared with data previously collected by the Division of Graduate Education in Science, National Science Foundation. See the article entitled, "Sources of graduate student support in 1971–1972" in the May 1972 issue of the Newsletter of the Conference Board of Mathematical Sciences.

	S				
SUPPORT SOURCES	Fellowships and Traineeships	Graduate Research Assistantships	Graduate Teaching Assistantships	Other types of support	Total number of students in sample
U.S. Ph.D. GRANTING INSTITUTIONS					
Group I (50 returns/86 depts.)				
1971-1972					3885
Government	16%	13%	6%	1%	
Other Sources	10%	1%	28%	25%	
1972-1973	2070	270	2010		3799
Government	13%	13%	7%	1%	373.537676
Other Sources	9%	2%	28%	27%	
Group II (61 returns/95 depts	.)				0014
1971-1972			. 01	-01	3314
Government	11%	6%	4%	5%	
Other Sources	5%	4%	42%	23%	0004
1972-1973	04	- OI		a01	3261
Government	7%	6%	4%	6%	
Other Sources	5%	4%	42%	26%	
Group III (67 returns/120 dep 1971-1972	ts.)				2748
Government	11%	2%	6%	5%	2110
Other Sources	2%	4%	45%	25%	
1972-1973	270	₩ 70	40 /0	20 /0	2801
Government	7%	3%	8%	5%	2001
Other Sources	2%	4%	43%	28%	
		T /0	10/0	2070	
Group IV (26 returns/40 dept	s.)				
1971-1972	99200	7/62/2	10.0022	-01	725
Government	6%	4%	14%	5%	
Other Sources	2%	5%	35%	29%	12.22
1972-1973	328	1222	522	- 01	837
Government	3%	3%	17%	6%	
Other Sources	4%	4%	29%	34%	
U.S. MASTER'S DEGREE					
GRANTING INSTITUTIONS					
(127 returns/203 depts.) 1971-1972					1435
Government	3%	1%	12%	9%	1100
Other Sources	2%	2%	43%	28%	
1972-1973	270	270	10%		1511
Government	2%	1%	11%	8%	1411
Other Sources	2%	2%	43%	31%	
CANADIAN INSTITUTIONS					
크리크 크림 1시간 하는 그림 시민 사람들이 100 100 100 100 100 100 100 100 100 10					
(24 returns/51 depts.)					1042
1971–1972	21%	16%	17%	1%	1012
Government	6%	7%	25%	6%	
Other Sources	0 70	1 70	20 70	0 /0	989
1972-1973	21%	16%	16%	1%	000
Government	21% 6%	7%	25%	7%	
Other Sources	070	1 70	20 10	• 70	

Starting Salary Survey for New Recipients of the Doctorate

The latest figures in this Survey were compiled from questionnaires sent to individuals who received a doctorate in the mathematical sciences during the academic year 1971—1972 from universities in the United States and Canada. Of 1,375 distributed there were 531 returns considered usable, i.e., compatible with the Survey categories, 497 representing men and 34 representing women. Among the unusable returns, 2 representing males and 3 representing females reported part-time jobs only and were for that reason not used in the compilation of salary information.

In parentheses, after each category below, are listed the number of returns that represent men and women respectively. Men and women are treated separately, as well as together, in the 1971 and 1972 figures, 1972M referring to male replies and 1972F to female.

Most of the Ph.D.'s reporting, 81%, have accepted academic positions. Of the remainder, 8% are

in industry, 7% in research institutions, and 3% in government. The 34 women respondents reported 30 academic, 1 research institution, and 3 governmental positions.

Of those reporting academic positions, 46% were held in Ph. D. granting institutions, 22% in institutions granting the master's as its highest degree, 28% in bachelor granting institutions, 2% in junior colleges and 2% in high schools; in the 1971 survey, no individuals reported positions in high schools.

Geographically, the Survey indicates that 88% have accepted jobs in the United States, 83% men and 5% women; 6%, all men, in Canada; and 5% men and 1% women, in other locations.

Salaries are listed in hundreds of dollars. Dashes indicate that not enough returns were received to warrant including the figures here. Quartiles are indicated for teaching, nine-month salary. The years listed refer to the academic year ending in the listed year.

TEACHING (253 + 18) (Nine-Month Salary)						TEACH (Twelve			RESEARCH (29 + 0) (Nine-Month Salary)				
Year	Min.	Q_1	Median	Q_3	Max.	Year	Min.	Median	Max.	Year	Min.	Median	Max.
1968	72		102		170	1968	95	120	180	1968	78	100	115
969	80		105		165	1969	75	128	168	1969	63	105	125
970	85		110		195	1970	95	128	200	1970	78	105	160
971	70	105	110	120	178	1971	80	126	190	1971	90	110	153
972	61	105	115	125	192	1972	92	124	210	1972	60	111	155
971M	75	105	110	120	178	1971M	80	127	190	1971M	90	110	153
971F	-70	95	105	108	148	1971F		110		1971F	105		120
972M	61	105	115	125	192	1972M	92	125	210				5.72
972F	94	105	110	125	192	1972F	103	104	120				
ESEA Twelve	RCH (2 e-Month	1 + 2) 1 Sala	ry)			INDUST:				GOVER! (Twelve		(36 + 3) Salary)	
ear	Min.		Median		Max.	Year	Min.	Median	Max.	Year	Min.	Median	Max.
968	80		100		134	1968	110	156	248	1968	85	134	170
969	78		149		180	1969	125	168	250	1969	82	138	192
970	90		120		205	1970	96	170	235	1970	100	150	223
971	60		120		181	1971	99	170	252	1971	117	151	290
972	50		125		180	1972	118	181	296	1972	70	155	315
971M	60		120		181	1971M	99	167	252	1971M	117	160	290
971F	60				60	1971F	192		240	1971F	140		150
972M	50		126		180					1972M	70	155	315
972F	100				125					1972F	110	156	160
	ING AN		SEARCH	(45 +	5)	TEACHI (Twelve-	NG ANI -Month	RESEAR Salary)	RCH (13+2)	RESEAR (Twelve-			S (17 +
ear	Min.		Median		Max.	Year	Min.	Median	Max.	Year	Min.	Median	Max.
968	78		100		130	1971	100	137	165	1968	120	157	192
969	95		110		138	1972	100	125	205	1969	75	156	235
70	90		106		120	1971M	100	150	165	1970	70	170	200
71	88		110		156	1971F		120		1971	65	160	190
72	95		115		160	1972M	100	127	185	1972	63	168	190
72M	100		116		160	1972F	106		205	1972M	63	168	190
72F	95		105		135		-		230	1972F		159	130