

ANNUAL SALARY SURVEY

This year's Annual Salary Survey is based on returns from 478 departments in mathematics and the mathematical sciences, covering 7,307 academic positions held in 1968-1969 and 7,797 positions held in 1969-1970.

Institutions are divided into four groups according to the highest degree offered in mathematics.

- (1) Ph.D. Granting institutions
- (2) Institutions granting a master's degree in mathematics as its highest degree.
- (3) Institutions granting a bachelor's degree in mathematics as its highest degree.
- (4) Junior colleges and other institutions offering courses but not degrees in mathematics.

The Ph.D. granting universities have been subdivided into four groups. Groups I and II include the universities with leading mathematics departments according to the findings of a survey made by the American Council of Education in 1964* in which departments were rated according to the quality of their graduate faculty. Group I is composed of institutions that were considered "Distinguished" and "Strong"; Group II are those considered "Good" and "Adequate Plus." Groups III and IV consist of all of the remaining Ph.D. granting institutions; Group III including those universities that have granted three or more doctorates during

the last three years; and Group IV consisting of institutions that have granted two or less doctorates during the last three years. The number of doctorates granted by universities was determined from the lists published in these *Notices*.

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

Each institution 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 48 categories of salary figures. In some instances relatively few universities or colleges reported, and in as much as there were no significant figures available, salaries could not be listed.

In the following two pages the data in the parentheses gives the range of the middle 50% 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 9 or 10 months. Grants and contracts are included but sabbatical payments and other part-time salaries are not.

This survey is the thirteenth in an annual series begun in 1957 by the Society's Committee on the Economic Status of Teachers.

*The findings were published in a book by Allan Cartter entitled "An Assessment of Quality in Graduate Education." The information on mathematics was reprinted by the Society and can be found on pages 978-980 of the December 1966 issue of these *Notices*.

Number of Usable Returns: 28

PH. D. GRANTING INSTITUTIONS. Group I

	Total Number of Staff Members		SALARIES (hundreds of dollars)				Number of Usable Returns: 21
	1968-1969	1969-1970	1968-1969 Median	Minimum	Maximum	1969-1970 Median	
<u>DOCTORAL DEGREE</u>	84	91	(85-91)	73(90-100)	(86-96)99	(90-100)	(95-101)105
Instructor	355	337	(100-106)	83(100-106)	(110-120)145	(106-114)	(115-125)155
Asst. Professor	217	235	(125-142)	112(116-139)	(140-163)188	(133-145)	(145-165)200
Assoc. Professor	402	442	(200-216)	139(155-180)	(260-290)325	(210-230)	(275-305)345
Professor	1058	1105					

PH. D. GRANTING INSTITUTIONS. Group II

	Total Number of Staff Members		SALARIES (hundreds of dollars)				Number of Usable Returns: 21
	1968-1969	1969-1970	1968-1969 Median	Minimum	Maximum	1969-1970 Median	
<u>MASTER'S DEGREE</u>	47	43	(70-80)	65(72-84)	(73-85)117	(76-85)	(78-90)122
Instructor	13	10	(107-115)	95(102-106)	(122-130)160	(110-117)	(125-130)136
Asst. Professor	270	272	(134-142)	107(119-131)	(153-170)185	(136-152)	(160-173)180
Assoc. Professor	164	181	(185-212)	109(157-177)	(236-260)400	(197-217)	(245-285)400
Professor	207	226					
Professor	654	689					

PH. D. GRANTING INSTITUTIONS. Group III

	Total Number of Staff Members		SALARIES (hundreds of dollars)				Number of Usable Returns: 69
	1968-1969	1969-1970	1968-1969 Median	Minimum	Maximum	1969-1970 Median	
<u>MASTER'S DEGREE</u>	224	220	(70-86)	51(69-86)	(80-95)120	(74-91)	(81-100)127
Instructor	77	73	(85-110)	78(89-115)	(87-111)152	(89-115)	(92-120)160
Asst. Professor	57	58	(108-132)	94(110-127)	(110-144)190	(117-150)	(122-150)210
Assoc. Professor	20	18					
Professor	378	369					

PH. D. GRANTING INSTITUTIONS. Group IV

	Total Number of Staff Members		SALARIES (hundreds of dollars)				Number of Usable Returns: 27
	1968-1969	1969-1970	1968-1969 Median	Minimum	Maximum	1969-1970 Median	
<u>DOCTORAL DEGREE</u>	10	14	(100-115)	80(102-110)	(116-130)150	(113-122)	(123-138)155
Instructor	577	660	(128-148)	97(120-138)	(140-166)205	(136-157)	(150-178)210
Asst. Professor	351	398	(170-195)	122(152-178)	(202-245)300	(175-205)	(216-257)350
Assoc. Professor	415	441					
Professor	1353	1513					

PH. D. GRANTING INSTITUTIONS. Group IV

	Total Number of Staff Members		SALARIES (hundreds of dollars)				Number of Usable Returns: 27
	1968-1969	1969-1970	1968-1969 Median	Minimum	Maximum	1969-1970 Median	
<u>MASTER'S DEGREE</u>	93	75	(72-85)	60(75-88)	(75-94)120	(75-90)	(80-95)102
Instructor	59	69	(87-99)	85(90-103)	(90-107)116	(96-105)	(100-112)133
Asst. Professor	26	26	(109-124)	95(108-134)	(114-130)150	(115-134)	(126-136)166
Assoc. Professor	9	8					
Professor	187	178					

<u>DOCTORAL DEGREE</u>								
Instructor	2							
Asst. Professor	161	86(95-103)	(102-110)	(110-125)138	87(100-110)	(110-120)	(115-135)150	
Assoc. Professor	108	80(118-127)	(130-138)	(135-148)179	110(123-138)	(136-148)	(143-160)194	
Professor	108	106(140-160)	(166-183)	(172-225)275	110(148-165)	(175-192)	(195-239)285	
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MASTER'S DEGREE GRANTING INSTITUTIONS

<u>MASTER'S DEGREE</u>								Number of Usable Returns: 100
Instructor	376	54(69-80)	(73-84)	(80-93)115	54(72-84)	(79-90)	(86-98)118	
Asst. Professor	432	58(83-96)	(90-103)	(95-112)137	60(85-100)	(96-108)	(101-120)143	
Assoc. Professor	160	70(100-122)	(103-127)	(111-130)168	89(102-130)	(110-139)	(115-140)168	
Professor	41	92(125-146)	(120-154)	(130-165)260	97(124-155)	(122-166)	(160-181)260	
	<u>1009</u>							

<u>DOCTORAL DEGREE</u>								
Instructor	0							
Asst. Professor	362	75(99-110)	(105-115)	(110-126)170	84(104-114)	(110-120)	(117-132)170	
Assoc. Professor	244	96(112-128)	(122-135)	(127-150)210	96(120-136)	(127-143)	(135-156)210	
Professor	270	100(131-160)	(142-167)	(155-181)268	90(140-169)	(147-182)	(160-195)265	
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BACHELOR'S DEGREE GRANTING INSTITUTIONS

<u>MASTER'S DEGREE</u>								Number of Usable Returns: 183
Instructor	259	45(70-80)	(74-83)	(75-86)100	55(75-85)	(78-86)	(80-90)115	
Asst. Professor	368	55(80-95)	(85-100)	(90-103)135	65(84-97)	(88-102)	(91-110)140	
Assoc. Professor	129	65(96-114)	(97-117)	(100-120)163	75(100-118)	(102-122)	(103-126)182	
Professor	37	75(110-138)	(115-139)	(118-148)200	85(119-148)	(119-148)	(120-148)211	
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<u>DOCTORAL DEGREE</u>								
Instructor	1							
Asst. Professor	170	65(93-105)	(98-107)	(98-110)135	75(96-108)	(101-111)	(104-115)158	
Assoc. Professor	138	95(108-126)	(110-130)	(114-133)148	88(112-136)	(116-137)	(120-143)163	
Professor	162	89(109-156)	(135-160)	(135-166)221	79(132-161)	(135-169)	(143-177)255	
	<u>471</u>							

NONDEGREE GRANTING INSTITUTIONS

<u>MASTER'S DEGREE</u>								Number of Usable Returns: 50
Instructor	138	59(74-88)	(79-93)	(88-112)147	65(78-95)	(85-103)	(89-120)153	
Asst. Professor	93	70(81-92)	(87-100)	(96-116)144	76(85-100)	(98-107)	(100-120)151	
Assoc. Professor	45	76(87-111)	(98-113)	(102-132)158	84(96-113)	(109-127)	(109-142)164	
Professor	30	72(100-132)	(102-143)	(125-161)176	72(98-139)	(98-155)	(126-168)195	
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Starting Salary for Mathematicians with a Ph. D.

This survey was compiled from questionnaires sent to 1156 individuals who received the Ph.D. in mathematics during the academic year 1968-1969. There were 577 usable returns.

The academic life attracted 85% of those reporting; of these, 61% were primarily engaged in teaching, 11% in research, and 10% in a combination of teaching and research.

Industry attracted only 9% of those reporting; 3% were connected with research institutes and 3% by government.

Geographically 33% accepted jobs in the northeast, 21% in the south, 23% in the midwest, 6% in the mountain states, 14% in the far west and 3% in Canada.

The greater majority of Ph.D.'s had experience in their fields prior to receiving their doctorates, 52% had more than a year of experience, 16% had between 1/2 and a year, and 32% had less than one year of experience.

It should be noted that the first category listed below (teaching, nine-month salary) represents 57% of all positions reported in the survey. Salaries reported on a nine-month basis represent 74% of those responding; of these, two-thirds accepted salaries in the range of \$9,800 to \$11,500, with approximately an equal number accepting salaries lower and higher than these amounts.

Salaries are listed in hundreds of dollars. Dashes indicate that not enough returns were received to warrant including the salary figures.

TEACHING (Nine-Month Salary)				RESEARCH (Nine-Month Salary)				FELLOWSHIP (Yearly Stipend)			
Year	Min.	Median	Max.	Year	Min.	Median	Max.	Year	Min.	Median	Max.
1966	60	89	120	1966	72	84	96	1966	60	81	90
*1967	70	93	120	*1967	78	93	108	*1967	40	80	120
**1967	65	96	140	**1967	70	93	103	**1967	60	85	100
1968	72	102	170	1968	78	100	115	1968	--	--	--
1969	80	105	165	1969	63	105	125	1969	--	--	--

TEACHING AND RESEARCH (Nine-Month Salary)				RESEARCH (Twelve-Month Salary)				TEACHING (Twelve-Month Salary)			
Year	Min.	Median	Max.	Year	Min.	Median	Max.	Year	Min.	Median	Max.
1966	73	89	120	1966	75	90	120	1966	80	105	129
*1967	75	90	105	*1967	80	101	130	*1967	85	112	150
**1967	--	--	--	**1967	80	105	132	**1967	83	122	200
1968	78	100	130	1968	80	100	134	1968	95	120	180
1969	95	110	138	1969	78	149	180	1969	75	128	168

INDUSTRY (Twelve-Month Salary)				RESEARCH INSTITUTES (Twelve-Month Salary)				GOVERNMENT (Twelve-Month Salary)			
Year	Min.	Median	Max.	Year	Min.	Median	Max.	Year	Min.	Median	Max.
1966	103	137	170	1966	68	135	190	1966	78	109	150
*1967	125	145	200	*1967	60	120	150	*1967	84	111	161
**1967	97	151	204	**1967	60	135	215	**1967	--	--	--
1968	110	156	248	1968	120	157	192	1968	85	134	170
1969	125	168	250	1969	75	156	235	1969	82	138	192

*These figures represent the survey compiled from returns sent in by individuals who received their doctorates in 1966.

**These figures represent the survey compiled from returns sent in by individuals who received their doctorates during the first six months of 1967.