

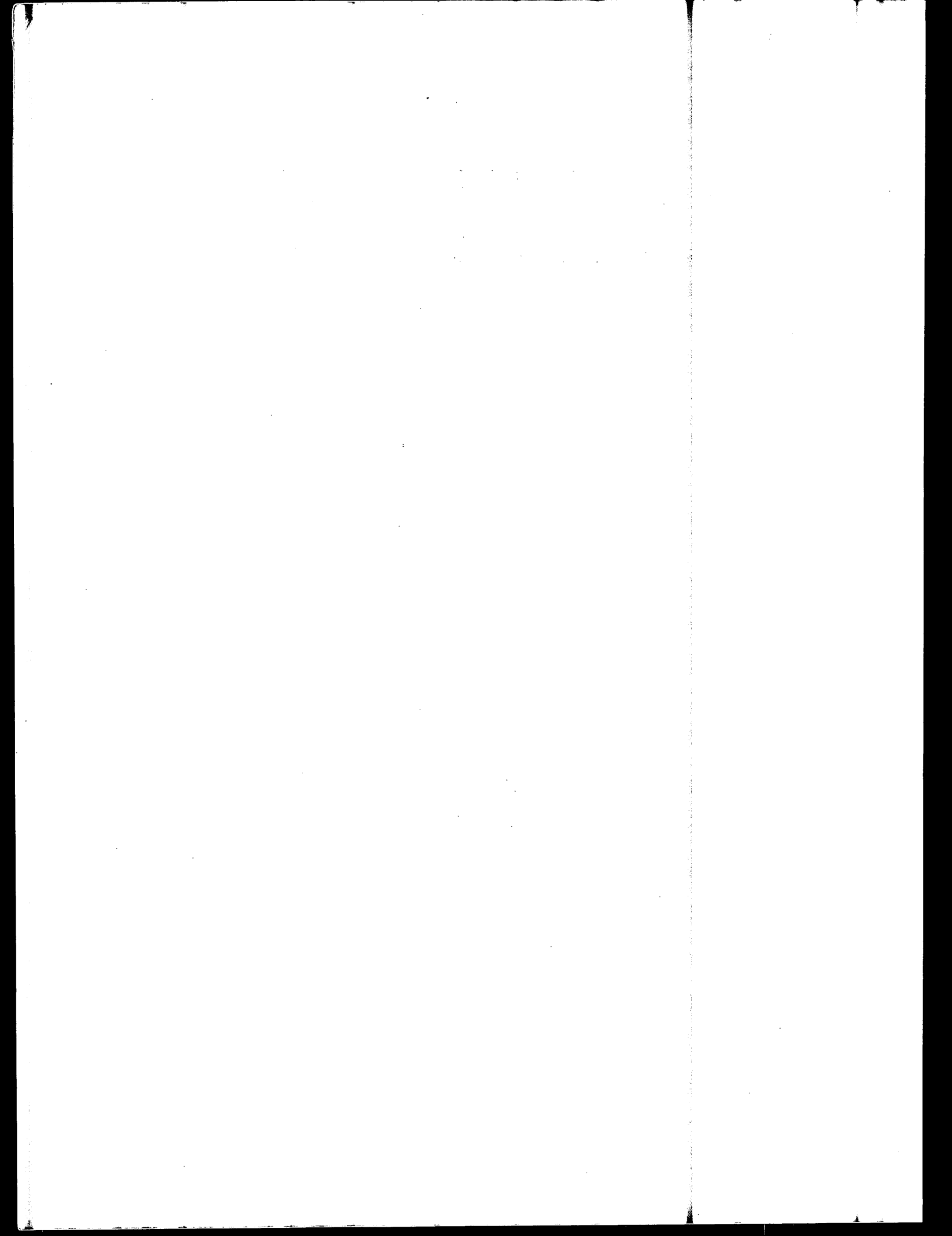
SALARIES

1981

Analysis of the
American Chemical Society's
1981 Survey of Salaries and Employment



Manpower Studies
American Chemical Society
Washington, D.C.



SALARIES 1981

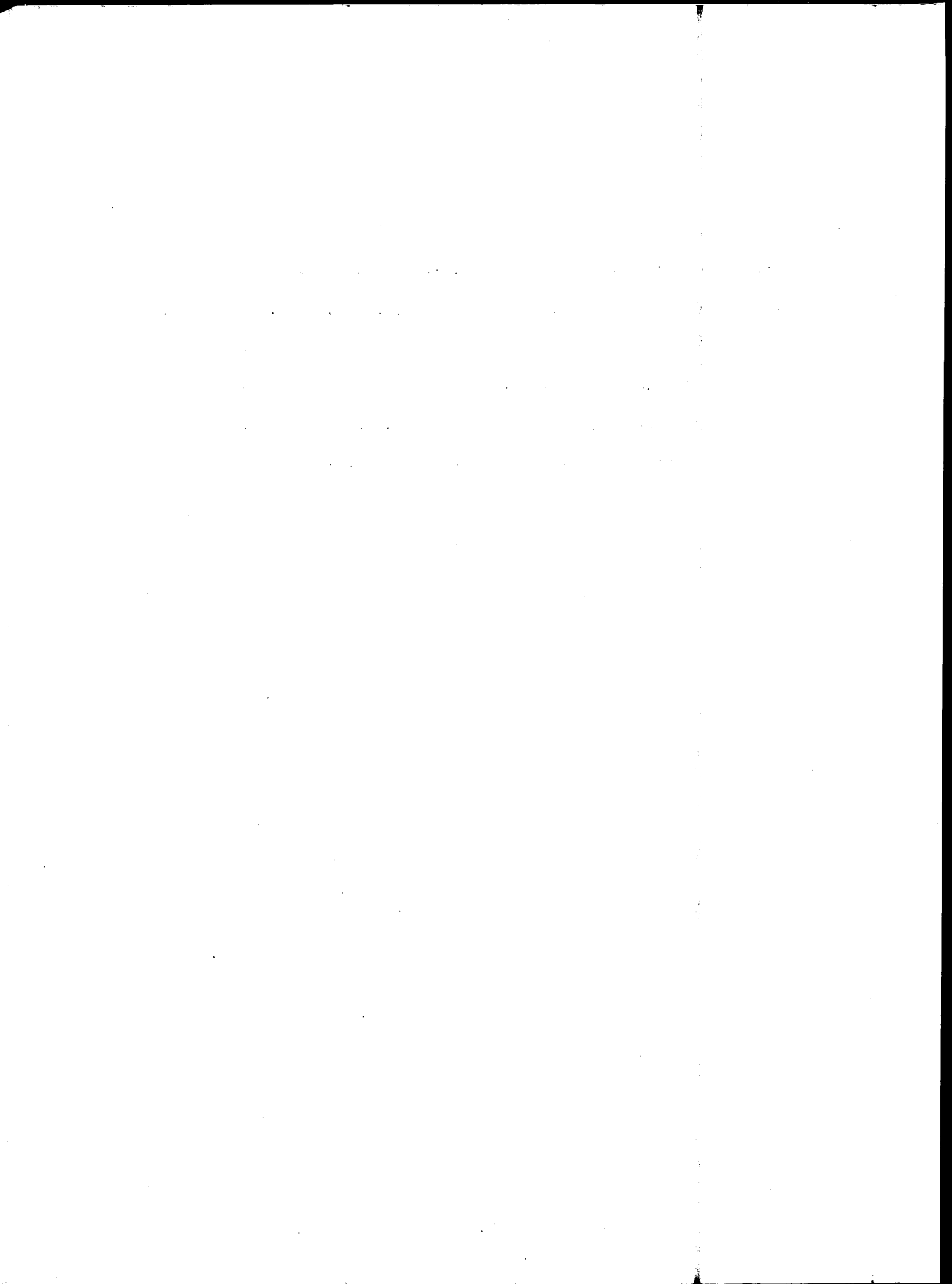
ANALYSIS OF THE AMERICAN CHEMICAL SOCIETY'S
1981 SURVEY OF SALARIES AND EMPLOYMENT

This report was prepared by the
ACS Office of Manpower Studies

American Chemical Society
1155 Sixteenth Street, N.W.
Washington, D.C. 20036

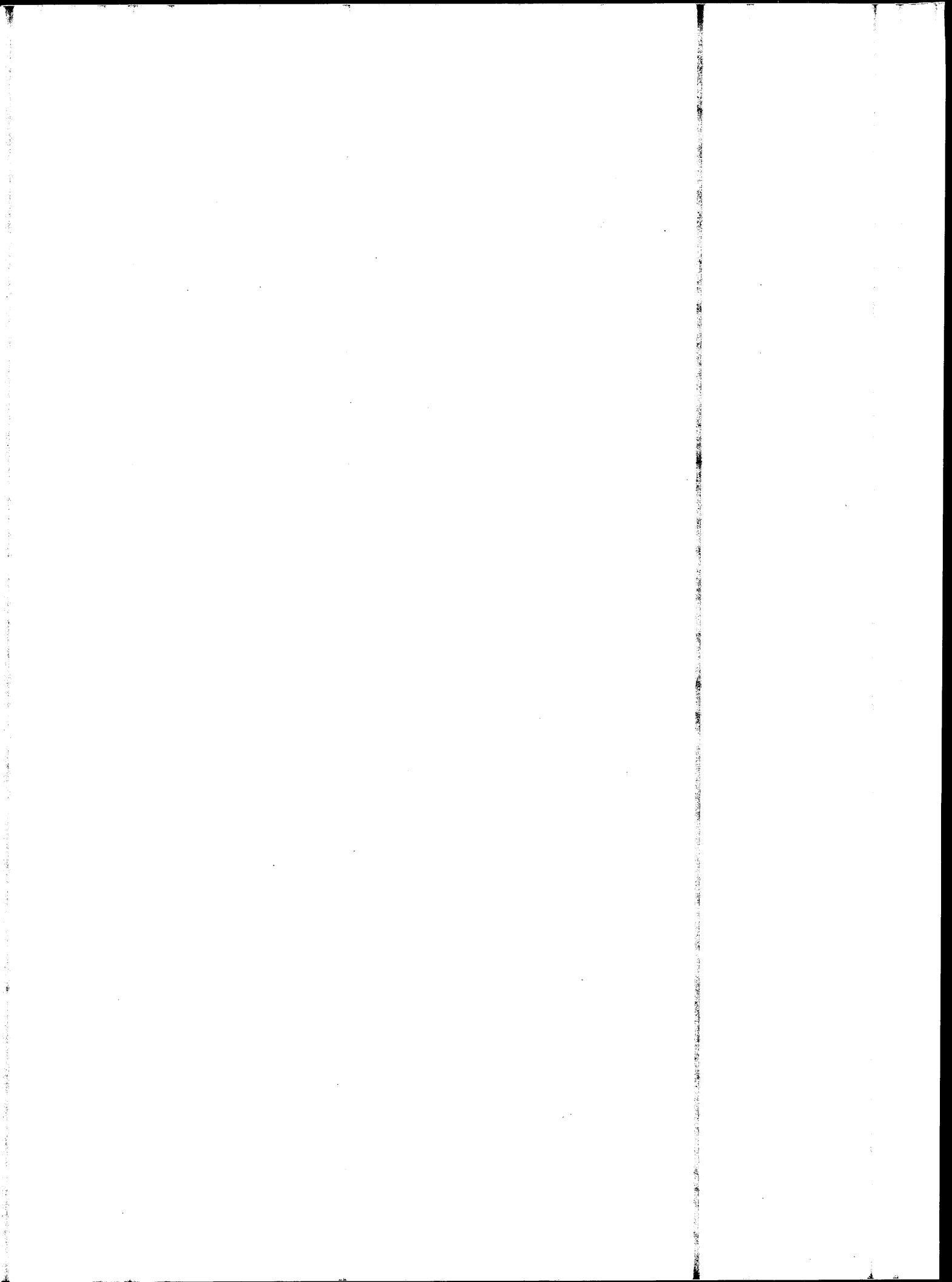
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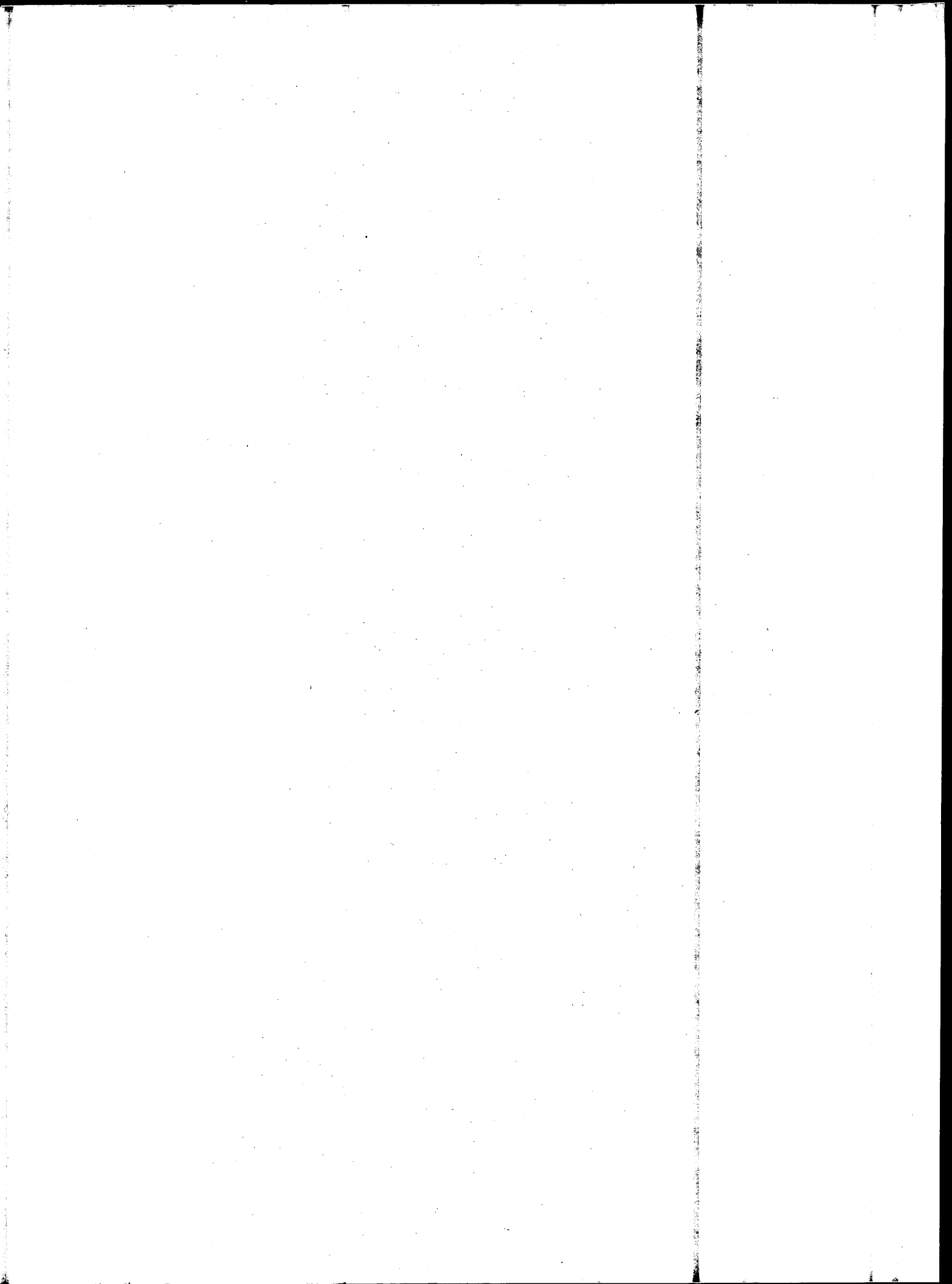


INTRODUCTION AND ACKNOWLEDGMENT

This report presents detailed results of the 1981 Comprehensive Salary and Employment Status Survey. Such a survey is conducted in March of every year by the ACS's Office of Manpower Studies. A summary of the 1980 findings was published in the June 22, 1981 issue of Chemical and Engineering News.

General oversight of the survey and its analysis was provided by the ACS Council Committee on Economic Status, which is grateful to each of the more than 11,000 ACS members who completed and returned survey questionnaires. Dr. Gerhard Meisels is 1981 Chairman of the Committee.

This report was prepared by John Robert Jones, Harry Foxwell, and Joanna Chin of the ACS Office of Manpower Studies.



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TECHNICAL NOTES

The target population of the 1981 Comprehensive Salary and Employment Status Survey is those ACS members who have U.S. mailing addresses, are not older than 70, and have neither student nor emeritus status.

On January 31, 1980 the ACS membership totalled 115,120, of which approximately 87,600 were eligible for inclusion in the sample. A systematic sample of 21,900 was selected from the target population.

The survey questionnaires were mailed to this sample of 21,900 members by bulk mail during the week of February 16-20. By May 8, the cut-off date, 11,266 (51.4%) usable questionnaires had been returned.

The survey data were processed by the Alpha-Micro computer at the ACS Office of Manpower Studies. Computer programs for the processing were written by Harry Foxwell, Bob Jones, and Joanna Chin.

Definitions

For the purposes of the survey analysis only, the following definitions were used:

Chemist: a respondent who indicated a work specialty of chemistry or biochemistry (categories 2 through 11 of question D on the questionnaire).

Chemical Engineer: a respondent who indicated a work specialty of chemical engineering (category 1 of question D on the questionnaire).

Unemployed: a respondent who is unemployed and seeking employment (category 3 of question B on the questionnaire).

This report presents the respondents' principal annual salaries as of March 1, 1981. The respondent's age is given as of March 1, 1980. A respondent's state and geographic region refer to place of residence, rather than place of employment.

Academic Salaries

This year, for the first time, the survey asked members employed in colleges and universities to indicate whether their base salaries covered service for 9-10 months or 11-12 months. Almost one third of academic chemists responding indicated that their salaries covered service for 11-12 months.

No adjustment was made to the salary data reported for academic chemists, and so comparisons with past survey results may be made. If all academic salaries for 11-12 months of service were prorated to a 9-10 month period,

salary statistics (percentiles, medians, and means) would be somewhat less than those reported in the salary tables for these chemists.

Further study is planned to determine whether the proportion of academic chemists with 11-12 months salary periods is changing and whether any adjustments are required when reporting salaries for this group.

Proportions

The proportion of people falling within a certain cell in one of the tables is a sample proportion. The sample proportion is used to make statements about the corresponding population proportion, but, of course, the sample proportion generally is not exactly equal to the population proportion. Another useful type of estimate is the confidence interval. Such an interval estimate is illustrated in the following statement: "We assert with 95% confidence that the population proportion is between 0.04 and 0.06". A simple but adequate formula for a confidence interval centered on the sample proportion is

$$p = \hat{p} + z [\hat{p}(1-\hat{p})/n]^{1/2}$$

where

p	=	the population proportion
\hat{p}	=	the sample proportion
z	=	a function of the level of confidence and is found in a table of the standard normal distribution
n	=	the sample size

Inspection of the formula shows that the width of the confidence interval is inversely proportional to the square root of the sample size, so that proportions derived from small samples are not so precise as ones drawn from large samples. Also, if non-respondents differ from respondents with regard to the characteristics under consideration, the formula will overstate precision because the formula is based on an assumption of 100% response.

Suppose a confidence interval is required for a group containing 1900 sample members. If the sample contains 95 persons with a specific characteristics, then the numbers that go into the formula are $\hat{p} = 95/1900 = 0.05$ and $n = 1900$. For a 95% confidence interval, z is about 2. Putting these numbers into the formula above we have

$$\begin{aligned} p &= \hat{p} + z [\hat{p}(1-\hat{p})/n]^{1/2} \\ &= 0.05 + 2[0.05(0.95)/1900] \\ &= 0.05 + 0.01 \end{aligned}$$

Thus, a 95% confidence interval for p is from 4.0% to 6.0%. Although we cannot say that the population proportion is exactly 5.0%, we can be confident that it is between 4.0% and 6.0%. The 95% level of confidence means roughly that if this procedure were followed a large number of times using different samples of the same size, the population proportion would be within the calculated interval about 95% of the time.

Small Cell Counts

If the number of responses in a cell of a salary table is small, then the sample salary statistics for that cell may not accurately estimate the corresponding population salary statistics. In general, a cell containing fewer than 15 responses does not provide a useful estimate of the median salary, and a cell containing fewer than 25 responses does not provide a useful estimate of the 25th or the 75th salary percentile.

Percentiles

If a sample of size n is arranged in ascending order of magnitude, the j th percentile P_j , $j = 1, 2 \dots$ or 99 is given by the $(j(n+1)/100)$ th value. If $(j(n+1)/100)$ is not an integer, then the j th percentile is a weighted average of the two values whose ranks are closest to $(j(n+1)/100)$.

Discrepancies Among Tables

Some pairs of tables contain totals that should be identical but are not. For example, two tables that present information about PhD respondents should show the same total number of PhDs. They might, however, show different totals. To illustrate, if one table groups the PhDs according to specialty and the other groups them according to geographic region, the totals will differ unless the number who did not indicate their specialty is the same as the number who did not indicate their geographic region.

Comparing Salaries

Often questions arise concerning B.S. chemists' salaries as compared with M.S. chemists', or chemists' salaries as compared with chemical engineers'. These and similar comparisons require caution.

Statistical tests should be performed to determine whether observed differences in salaries of various sample groups could be mere chance occurrences resulting from peculiarities of the sample. Whether a difference in salaries is "statistically significant" depends not only on the magnitude of the difference but also on the sample size and the magnitudes of the sample standard deviations.

References for statistical tests of significance may be found in Numerical and Statistical Techniques, by J.H. Pollard, Handbook of Tables for Probability and Statistics, published by the Chemical Rubber Company, and other similar texts.

Work Specialties

Question D presents a list of work specialties and asks the respondent to choose one specialty. Because of an error the list does not include "inorganic chemistry". As a result, the tables include inorganic chemists in the category: "other specialties". Inorganic chemists comprise about one-half of the chemists that this report includes in the category "other specialties". This estimate is based on results of past ACS surveys.

GEOGRAPHIC REGIONS

PACIFIC

Alaska
California
Hawaii
Oregon
Washington

MOUNTAIN

Arizona
Colorado
Idaho
Montana
Nevada
New Mexico
Utah
Wyoming

WEST NORTH CENTRAL

Iowa
Kansas
Minnesota
Missouri
Nebraska
North Dakota
South Dakota

WEST SOUTH CENTRAL

Arkansas
Louisiana
Oklahoma
Texas

EAST NORTH CENTRAL

Illinois
Indiana
Michigan
Ohio
Wisconsin

EAST SOUTH CENTRAL

Alabama
Kentucky
Mississippi
Tennessee

MIDDLE ATLANTIC

New Jersey
New York
Pennsylvania

SOUTH ATLANTIC

Delaware
District of Columbia
Florida
Georgia
Maryland
North Carolina
South Carolina
Virginia
West Virginia

NEW ENGLAND

Connecticut
Maine
Massachusetts
New Hampshire
Rhode Island
Vermont

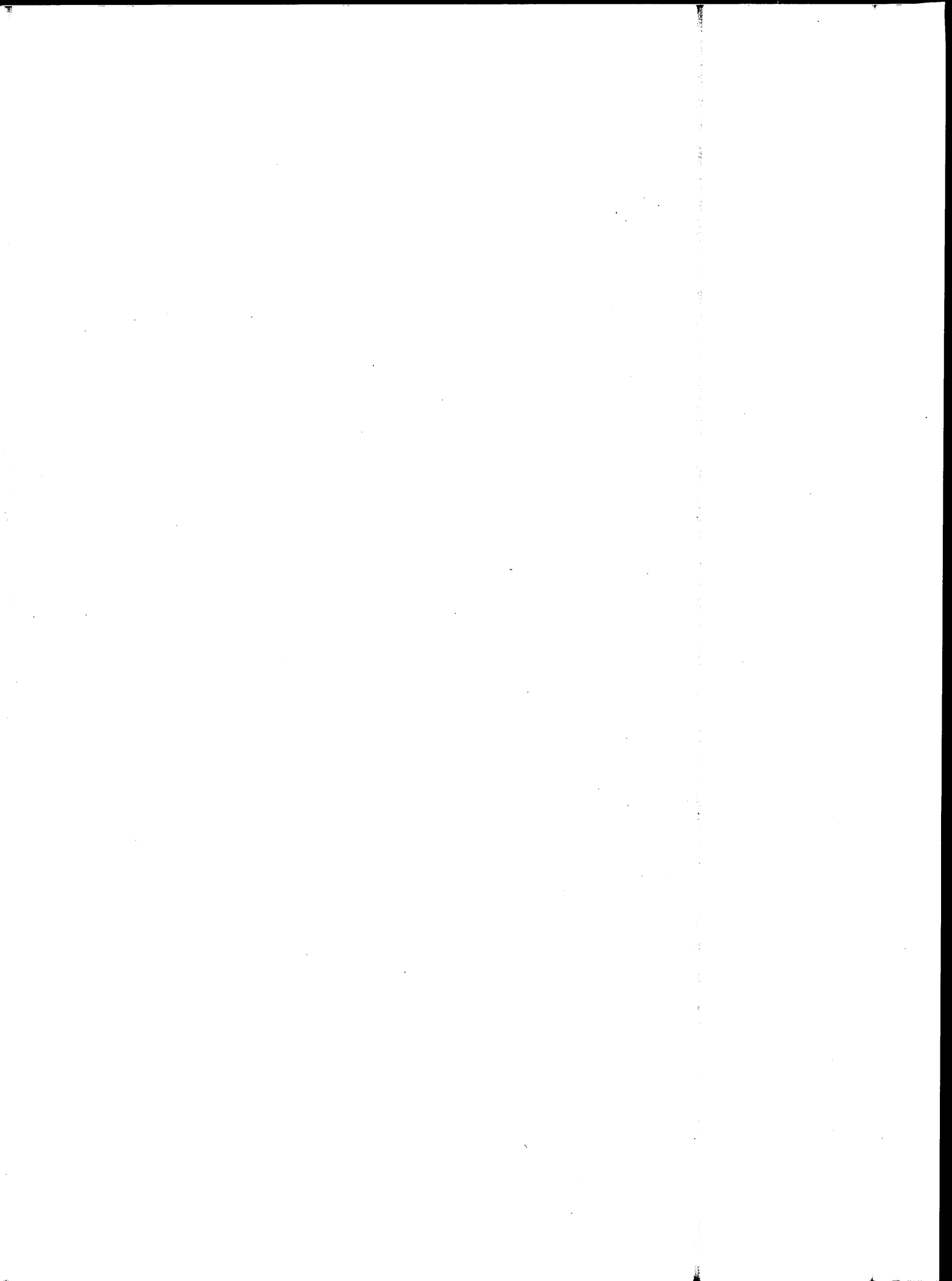


TABLE-1.1.0

SALARIES of FULL-TIME EMPLOYED CHEMISTS
by HIGHEST DEGREE and YEARS SINCE BS
1981 Survey of ACS Members

HIGHEST DEGREE	YEARS SINCE BS										TOTAL										
	(0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)		No Resp									
Bachelors	24,040	23,920	30,000	38,000	43,210	45,376	49,700	52,400	60,000	60,000	60,000	60,000	45,000	35,100	27,500	21,458	17,626	30,242	14,489	2,068	Count
	21,000	21,727	25,183	32,000	35,100	39,000	40,000	44,000	49,000	49,000	47,500	47,500	30,960	35,000	25,000	22,144	25,000	26,399	6,864	8	Dev.
	17,900	19,028	22,000	27,000	30,000	32,400	34,500	35,500	36,240	28,500	30,216	30,216	22,144	21,458	17,626	30,242	14,489	2,068	Count		
	15,316	16,398	19,000	23,434	24,491	28,000	29,000	29,940	28,500	24,000	25,000	25,000	22,144	21,458	17,626	30,242	14,489	2,068	Count		
	12,738	14,550	16,760	20,526	21,000	22,970	24,000	24,000	24,000	36,125	39,576	40,854	40,201	30,242	14,489	2,068	Count				
	18,362	19,331	23,063	28,302	31,388	33,932	36,125	39,576	40,854	40,201	18,677	14,299	6,864	30,242	14,489	2,068	Count				
	4,909	4,591	9,856	7,268	10,387	9,991	12,005	20,770	18,677	14,299	127	99	8	30,242	14,489	2,068	Count				
	45	274	405	260	206	187	162	295	127	99	127	99	8	30,242	14,489	2,068	Count				
Masters	---	25,000	29,000	37,500	44,000	48,525	56,400	52,113	55,000	55,000	60,840	60,840	55,000	47,200	38,000	30,000	19,000	32,584	17,728	1,567	
	---	24,000	25,800	31,475	37,000	38,382	43,500	43,925	42,401	49,000	49,000	49,000	44,000	38,000	30,000	23,500	19,000	32,584	17,728	1,567	
	---	23,000	22,486	27,000	31,683	32,000	35,000	36,000	35,517	37,000	37,000	37,000	30,000	30,000	23,500	19,000	32,584	17,728	1,567		
	---	19,620	19,100	22,075	25,900	25,000	28,000	30,000	27,900	30,000	30,000	30,000	24,000	19,000	13,500	10,000	17,728	1,567			
	---	16,500	16,000	17,550	19,850	19,550	23,000	23,475	20,500	24,236	24,236	24,236	20,000	19,000	13,500	10,000	17,728	1,567			
	---	21,844	22,478	29,524	33,029	33,071	39,636	37,928	37,022	40,663	40,663	40,663	35,034	32,584	17,728	1,567					
	---	2,892	5,076	22,943	16,630	11,899	25,480	12,500	13,250	16,390	16,390	16,390	17,015	17,728	1,567						
	0	39	251	280	214	154	175	214	94	87	87	87	59	1,567							
Doctorate	---	---	34,000	40,000	46,000	52,000	56,000	65,000	64,000	64,000	65,000	65,000	55,800	53,000	44,000	35,000	27,888	37,146	15,616	4,494	
	---	---	31,500	35,000	40,000	44,000	48,000	52,000	52,000	52,000	52,000	52,000	45,000	44,000	35,000	27,888	37,146	15,616	4,494		
	---	27,920	29,000	30,000	33,000	36,000	38,100	45,000	43,250	43,250	43,250	43,250	38,000	35,000	27,888	37,146	15,616	4,494			
	---	---	25,000	23,500	25,000	28,850	30,458	35,000	35,000	35,000	35,000	35,000	28,000	27,888	15,616	4,494					
	---	---	17,000	18,000	21,000	22,900	24,813	29,010	27,925	28,500	28,500	28,500	21,000	21,406	15,616	4,494					
	---	27,920	27,824	29,642	33,396	37,369	40,789	46,542	45,535	46,309	46,309	46,309	38,546	37,146	15,616	4,494					
	---	4,356	10,127	8,897	10,426	12,666	17,262	18,561	16,828	19,279	19,279	21,463	21,463	15,616	4,494						
	0	2	340	750	886	704	521	520	294	266	266	211	211	4,494							
No Response	---	---	---	---	---	---	---	---	---	---	---	---	85,000	85,000	54,000	38,400	32,031	43,410	19,532	19	
	---	---	---	---	---	---	---	---	---	---	---	---	54,000	54,000	38,400	32,031	43,410	19,532	19		
	---	---	---	---	---	---	---	---	---	---	---	---	38,400	38,400	32,031	43,410	19,532	19			
	---	---	---	---	---	---	---	---	---	---	---	---	32,031	32,031	43,410	19,532	19				
	---	---	---	---	---	---	---	---	---	---	---	---	43,410	43,410	19,532	19					
	0	0	0	0	0	0	0	0	0	0	0	0	19	19							
TOTAL	24,040	24,910	32,000	39,000	45,000	50,000	55,000	60,000	62,000	63,700	63,700	63,700	55,000	50,000	40,500	32,000	24,825	19,500	34,531	16,074	8,148
	21,000	22,000	28,923	34,000	39,000	43,000	45,000	50,000	50,000	51,000	51,000	51,000	44,500	40,500	32,000	24,825	19,500	34,531	16,074	8,148	
	17,900	19,600	24,000	28,700	32,000	34,990	37,000	40,000	40,000	41,000	41,000	41,000	34,000	32,000	24,825	19,500	34,531	16,074	8,148		
	15,316	16,800	19,782	23,175	25,000	27,966	30,000	32,000	32,000	33,000	33,000	33,000	27,000	24,825	19,500	34,531	16,074	8,148			
	12,738	14,920	16,770	18,400	21,000	22,460	24,000	26,000	25,000	26,000	26,000	26,000	20,820	19,500	34,531	16,074	8,148				
	18,362	19,696	24,541	29,346	33,019	36,121	39,673	42,754	42,827	43,884	43,884	43,884	37,832	34,531	16,074	8,148					
	4,909	4,530	9,301	13,070	11,676	12,241	18,515	18,566	17,030	17,958	17,958	17,958	20,379	16,074	8,148						
	45	315	996	1,290	1,306	1,045	858	1,029	515	452	452	452	297	16,074	8,148						

TABLE-1.1.1

SALARIES of FULL-TIME EMPLOYED CHEMISTS
by HIGHEST DEGREE and YEARS SINCE BS - Men Only
1981 Survey of ACS Members

HIGHEST DEGREE	YEARS SINCE BS										TOTAL	- 75th % - 11e	- Median	- 25th % - 11e	- Mean	- Std. Dev.	- Count	
	(0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)								No Resp
Bachelors	21,000	22,000	25,620	32,868	36,000	39,000	40,000	45,000	49,432	48,000	32,280	37,000						
	18,000	19,300	22,500	27,576	31,250	32,760	35,000	36,500	38,750	39,000	25,000	29,220						
	15,432	17,000	19,203	23,986	25,719	28,875	29,000	30,000	29,250	31,300	23,774	22,500						
	18,885	19,924	23,012	28,770	32,399	34,460	36,750	40,504	42,436	40,852	27,085	31,684						
	5,762	4,846	5,959	7,408	10,108	9,632	12,135	21,168	19,291	14,231	7,112	14,609						
	23	179	309	232	174	166	147	275	108	95	7	1,715						
Masters	---	24,250	26,000	32,000	37,900	39,563	44,341	44,000	45,000	49,850	48,375	39,000						
	---	22,500	23,000	27,780	32,000	33,000	36,000	36,000	38,000	38,980	32,500	30,543						
	---	19,560	19,560	22,900	26,000	26,000	29,000	31,000	28,250	30,000	26,040	24,000						
	---	21,920	22,852	30,476	32,835	34,203	41,141	38,586	38,483	41,435	37,237	33,750						
	0	29	189	227	185	132	153	197	79	82	17,638	17,948						
	---	---	31,700	35,000	40,000	44,000	48,000	52,000	53,500	52,650	45,000	44,500						
	---	24,840	29,000	30,500	33,000	36,320	39,000	45,000	45,000	43,500	36,000	35,000						
	---	---	25,000	24,000	26,000	29,046	31,000	35,045	36,000	36,000	28,900	28,200						
	---	24,840	28,044	30,091	33,811	37,732	41,173	46,782	46,420	46,734	40,262	37,785						
	---	---	10,544	8,939	10,398	12,415	17,472	18,583	16,748	19,424	22,183	15,766						
	0	1	295	675	811	660	497	501	278	256	184	4,158						
No Response	---	---	---	---	---	---	---	---	---	---	54,250	54,250						
	---	---	---	---	---	---	---	---	---	---	37,450	37,450						
	---	---	---	---	---	---	---	---	---	---	31,773	31,773						
	---	---	---	---	---	---	---	---	---	---	42,988	42,988						
	0	0	0	0	0	0	0	0	0	0	20,009	20,009						
	---	---	---	---	---	---	---	---	---	---	18	18						
TOTAL	21,000	22,013	29,110	34,050	39,185	43,050	45,900	50,000	50,256	51,000	45,000	42,000						
	18,000	20,000	24,300	29,200	32,824	35,000	37,800	40,000	41,500	41,137	35,280	33,000						
	15,432	17,400	20,000	23,997	26,000	28,800	30,000	32,000	33,468	34,000	28,000	25,600						
	18,885	20,225	24,846	29,898	33,447	36,679	40,351	43,348	44,146	44,440	39,529	35,608						
	5,762	4,663	8,178	13,624	10,307	12,015	18,910	18,655	17,120	18,029	21,050	16,158						
	23	209	793	1,134	1,170	958	797	973	465	433	257	7,212						

TABLE-1.1.2

SALARIES of FULL-TIME EMPLOYED CHEMISTS
by HIGHEST DEGREE and YEARS SINCE BS - Women Only
1981 Survey of ACS Members

HIGHEST DEGREE	YEARS SINCE BS											TOTAL
	(0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)	No Resp	
Bachelors	20,965	21,000	24,000	27,000	28,650	30,694	32,805	31,000	36,375	25,908	---	25,100 - 75th %-ile
	17,500	18,500	21,000	23,986	24,400	24,000	30,700	27,750	25,910	25,065	21,600	21,250 - Median
	14,800	15,270	18,600	23,000	21,000	20,887	23,100	23,600	22,775	23,285	---	18,000 - 25th %-ile
	17,902	18,181	23,264	24,043	25,893	25,679	29,176	26,760	29,339	24,753	21,600	22,671 - Mean
	3,958	3,876	17,348	4,048	10,311	6,322	7,440	5,402	8,560	1,402	---	11,077 - Std. Dev.
	21	92	95	27	32	17	12	18	16	4	1	11,335 - Count
Masters	---	24,125	25,150	30,000	33,175	30,586	33,670	38,000	36,398	36,650	29,250	30,000
	---	23,000	21,900	25,500	29,425	25,250	29,000	27,800	28,520	29,000	22,619	25,000
	---	18,975	17,893	19,169	21,250	20,625	25,000	20,000	20,750	18,893	18,900	20,000
	---	21,625	21,337	25,456	34,202	26,200	29,031	28,679	28,923	28,017	24,464	26,053
	---	3,245	5,428	6,889	38,631	8,604	6,373	10,755	8,976	9,837	9,541	15,236
	0	10	62	51	28	20	21	15	14	5	10	15,236
Doctorate	---	---	30,868	30,000	34,500	35,000	37,780	40,773	39,487	46,500	31,300	33,000
	---	31,000	29,000	26,820	27,029	29,645	28,750	35,758	28,250	30,000	27,800	28,500
	---	---	22,800	18,800	22,500	21,400	23,662	29,663	21,750	25,300	19,750	21,500
	---	31,000	26,632	25,512	28,083	29,584	30,607	39,032	30,112	34,654	25,757	28,289
	---	---	6,563	7,566	8,253	9,847	8,049	18,520	9,886	11,219	8,728	9,552
	0	1	44	70	67	35	18	16	14	9	25	299
No Response	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	51,000	51,000
	---	---	---	---	---	---	---	---	---	---	---	---
	0	0	0	0	0	0	0	0	0	0	1	1
TOTAL	20,965	21,500	26,982	29,515	32,500	32,207	35,000	37,750	37,125	39,000	31,300	30,000
	17,500	18,720	22,000	25,238	26,398	26,250	30,000	30,000	26,770	28,500	26,500	24,000
	14,800	15,950	18,528	19,314	21,760	21,000	24,515	24,125	22,125	23,979	20,050	19,056
	17,902	18,640	23,407	25,225	28,880	27,722	29,621	31,355	29,453	30,610	25,978	25,549
	3,958	4,110	12,780	6,799	19,762	8,867	7,141	13,456	8,928	10,052	9,599	12,151
	21	103	201	148	127	72	51	49	44	18	37	871

TABLE-1.2.1

SALARIES of B.S. CHEMISTS EMPLOYED FULL-TIME in PRIVATE INDUSTRY
by SEX and YEARS SINCE BS
1981 Survey of ACS Members

SEX	YEARS SINCE BS										TOTAL	75th %ile	Median	25th %ile	Mean	Std. Dev.	Count
	(0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)							
Men	23,700	22,000	26,400	33,394	37,100	40,000	42,000	45,000	50,000	47,500	34,095	38,100	30,000	23,000	32,547	15,293	1,411
	18,500	20,000	23,000	28,000	32,000	33,000	35,660	36,504	40,000	40,000	26,000	30,000	30,000	32,000	41,729	14,219	79
	17,450	17,700	20,000	24,000	26,260	29,500	30,000	30,000	30,000	32,000	24,694	23,000	23,000	24,694	43,880	20,472	6
	20,508	20,442	23,447	29,482	35,263	35,688	37,713	41,371	43,880	41,729	28,766	32,547	32,547	28,766	43,880	20,472	6
	5,347	4,843	5,901	7,456	10,542	9,849	12,591	22,396	20,472	14,219	6,080	15,293	15,293	6,080	43,880	20,472	6
	18	157	247	186	141	127	126	235	89	79	6	1,411	1,411	6	43,880	20,472	6
Women	21,240	21,500	24,800	28,225	33,500	27,500	36,045	31,000	37,875	26,000	21,600	25,000	25,000	21,450	22,434	6,614	241
	17,900	19,812	21,000	24,500	25,000	22,080	29,035	29,000	28,750	24,500	21,600	21,450	21,450	18,350	22,434	6,614	241
	15,500	16,800	19,000	20,200	23,000	20,587	23,100	21,750	22,335	22,880	21,600	18,350	18,350	18,350	22,434	6,614	241
	18,229	19,040	22,103	24,093	29,443	23,127	29,714	26,500	30,334	24,460	21,600	22,434	22,434	18,350	22,434	6,614	241
	4,026	3,291	4,681	4,935	11,442	4,639	8,118	6,221	9,844	1,560	1	6,614	6,614	1,560	22,434	6,614	241
	19	69	75	18	19	13	8	6	10	3	1	241	241	3	22,434	6,614	241
No Response	16,000	17,250	---	34,500	---	70,000	22,000	27,250	65,000	---	---	39,250	34,500	20,000	34,295	17,110	13
	16,000	17,250	---	34,500	---	35,832	---	---	35,000	---	---	20,000	20,000	20,000	34,295	17,110	13
	---	1,061	---	---	---	18,112	---	7,425	17,039	---	---	17,110	17,110	---	---	---	---
	1	2	0	1	0	3	1	2	3	0	0	13	13	---	---	---	---
TOTAL	21,293	22,000	25,850	33,000	36,875	39,600	41,700	45,000	49,625	47,425	32,280	36,000	28,000	22,000	31,097	14,810	1,665
	18,000	19,855	22,500	28,000	31,580	32,232	35,000	36,500	38,500	38,250	25,000	28,000	28,000	22,000	27,742	14,810	1,665
	16,000	17,242	19,775	23,630	25,500	28,700	29,000	30,000	29,000	31,825	23,774	22,000	22,000	22,000	27,742	14,810	1,665
	19,250	19,990	23,134	29,033	32,810	34,835	37,122	40,888	42,594	41,097	27,742	31,097	22,000	22,000	31,097	14,810	1,665
	4,755	4,456	5,662	7,412	10,687	10,499	12,515	22,202	19,902	14,331	6,176	14,810	14,810	22,000	31,097	14,810	1,665
	58	228	322	205	160	143	135	243	102	82	7	1,665	1,665	---	---	---	---

TABLE-1.2.2

SALARIES of M.S. CHEMISTS EMPLOYED FULL-TIME in PRIVATE INDUSTRY
by SEX and YEARS SINCE BS
1981 Survey of ACS Members

SEX	YEARS SINCE BS											TOTAL	
	(0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)	No Resp		
Men	---	24,675	26,540	33,325	39,140	43,425	46,650	46,470	49,775	53,000	49,750	41,000	-75% -ile
	---	23,000	23,500	28,800	33,900	35,550	40,000	38,125	39,750	41,000	35,000	32,500	- Median
	---	20,000	21,000	25,000	31,665	31,343	31,343	33,350	31,875	32,000	28,550	26,000	-25% -ile
	---	22,491	24,010	33,423	34,392	38,043	44,160	41,192	41,684	45,136	37,625	35,852	- Mean
	---	2,331	4,246	29,030	10,199	11,315	25,186	12,519	14,037	16,920	12,245	18,676	- Std. Dev.
	0	25	145	162	138	80	105	136	52	55	33	931	- Count
Women	---	24,250	27,000	33,000	34,875	32,000	37,035	39,250	39,795	---	44,000	32,000	
	---	23,000	23,000	29,205	29,750	27,800	30,400	37,750	32,000	---	36,000	27,240	
	---	18,750	21,350	25,000	27,250	25,000	29,250	27,050	22,148	---	20,100	23,000	
	---	21,828	23,688	29,113	41,694	30,518	32,760	34,500	31,177	---	33,367	29,656	
	---	3,374	4,103	5,630	50,085	8,523	4,887	7,271	9,485	---	12,166	18,792	
	0	9	37	28	16	11	12	10	5	0	3	131	
No Response	---	---	---	---	---	---	---	40,000	---	---	---	39,000	
	---	---	---	22,500	---	36,000	32,000	---	---	---	---	34,000	
	---	---	---	---	---	---	---	40,000	---	---	---	24,875	
	---	---	---	22,500	---	36,000	32,000	---	---	---	---	32,625	
	0	0	0	1	0	1	1	1	0	0	0	7,499	
	---	---	---	---	---	---	---	---	---	---	---	---	4
TOTAL	---	24,500	26,643	33,200	38,625	42,375	45,925	45,000	49,050	53,000	48,375	40,000	
	---	23,000	23,500	29,000	33,108	35,000	38,750	38,000	39,000	41,000	35,500	31,770	
	---	20,000	21,000	25,000	27,000	30,285	30,000	33,000	31,250	32,000	28,325	25,500	
	---	22,315	23,944	32,734	35,150	37,121	42,897	40,729	40,762	45,136	37,270	35,079	
	---	2,608	4,208	26,861	18,549	11,188	24,064	12,290	13,959	16,920	12,124	18,762	
	0	34	182	191	154	92	118	147	57	55	36	1,066	

TABLE-1.2.3

SALARIES of PHD CHEMISTS EMPLOYED FULL-TIME in PRIVATE INDUSTRY
by SEX and YEARS SINCE BS
1981 Survey of ACS Members

SEX	YEARS SINCE BS											TOTAL			
	(0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)	No Resp				
Men	---	---	32,046	37,200	43,000	49,000	53,400	59,650	60,000	60,000	60,000	60,000	51,250	48,000	48,000 - 75th %-ile
	---	24,840	30,031	34,000	38,050	42,780	45,000	48,000	48,000	48,000	48,000	48,000	39,000	39,686	--- Median
	---	---	28,300	30,100	33,000	37,000	38,000	40,000	40,000	40,000	40,000	40,000	32,375	33,000	--- 25th %-ile
	---	24,840	31,097	34,611	39,068	44,277	48,151	52,261	52,334	52,334	53,366	53,366	43,746	42,824	--- Mean
	---	---	10,693	7,287	9,240	11,921	17,291	20,441	18,571	18,571	23,278	18,962	16,255	16,255	--- Std. Dev.
	0	1	208	395	424	323	234	284	149	149	132	98	2,248	2,248	--- Count
Women	---	---	31,850	35,000	41,375	38,650	44,500	70,000	50,000	50,000	---	---	34,000	37,238	
	---	31,000	30,000	29,700	35,950	33,258	38,720	38,052	30,000	30,000	---	---	28,500	31,000	
	---	---	28,725	27,600	30,013	31,350	27,375	37,658	16,500	16,500	---	---	27,100	29,000	
	---	31,000	30,219	31,165	35,923	35,742	36,990	50,674	32,167	32,167	---	---	30,080	33,299	
	---	---	2,849	5,545	6,288	7,704	8,117	27,592	16,855	16,855	---	---	8,168	8,935	
	0	1	30	31	24	10	6	5	3	3	0	10	120	120	
No Response	---	---	---	---	57,938	77,000	52,000	---	---	---	---	---	---	---	---
	---	---	---	---	49,000	45,960	46,100	44,980	---	---	---	---	---	---	---
	---	---	---	---	46,625	37,385	45,000	---	---	---	---	---	---	---	---
	---	---	---	---	51,188	54,946	47,700	44,980	---	---	---	---	---	---	---
	---	---	---	---	6,368	28,756	3,764	7,099	---	---	---	---	---	---	---
	0	0	0	0	4	5	3	2	0	0	0	0	0	14	
TOTAL	---	---	32,000	37,125	43,000	48,877	53,000	59,500	60,000	60,000	60,000	60,000	49,125	48,000	
	---	27,920	30,000	33,500	38,000	42,450	45,000	48,000	48,000	48,000	49,750	49,750	37,620	39,000	
	---	---	28,500	30,000	33,000	36,875	38,000	40,000	40,000	40,000	40,000	40,000	30,195	32,188	
	---	27,920	30,986	34,361	39,008	44,183	47,870	52,184	51,936	51,936	53,366	53,366	42,480	42,392	
	---	4,356	10,047	7,225	9,176	12,289	17,099	20,465	18,701	18,701	23,278	23,278	18,639	16,114	
	0	2	238	426	452	338	243	291	152	152	132	108	2,382	2,382	

TABLE-1.3.1

SALARIES of B.S. CHEMISTS EMPLOYED FULL-TIME in GOVERNMENT
by SEX and YEARS SINCE BS
1981 Survey of ACS Members

SEX	YEARS SINCE BS											TOTAL
	(0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)	No Resp	
Men	---	18,050	26,250	28,685	33,000	36,320	38,456	46,708	49,615	50,106	---	35,250
	12,000	15,900	22,236	24,998	30,000	33,258	30,000	38,000	36,600	39,000	---	29,000
	---	15,300	18,200	23,986	25,792	24,700	29,000	29,236	32,000	26,608	---	22,500
	12,000	16,938	22,581	25,441	30,237	31,770	32,240	37,336	39,903	37,592	---	29,861
	---	2,696	5,392	5,366	5,344	7,485	6,517	10,319	9,388	14,985	---	9,781
	1	8	29	28	19	27	15	27	9	9	0	172
Women	---	18,543	22,673	25,680	30,000	37,000	---	33,200	36,696	---	---	30,000
	15,200	15,193	19,491	23,986	21,624	34,198	32,200	31,000	28,825	25,630	---	23,100
	---	13,433	18,364	23,000	15,500	30,500	---	26,870	25,747	---	---	18,500
	15,200	15,992	33,262	24,143	22,375	33,899	32,200	30,228	30,423	25,630	---	26,786
	---	3,641	47,845	1,322	7,279	3,260	1,131	3,296	5,957	---	---	24,536
	1	9	12	7	3	3	2	5	4	1	0	47
No Response	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	40,000	---	---	---	---	---	40,000
	---	---	---	---	---	40,000	---	---	---	---	---	40,000
	---	---	---	---	---	---	---	---	---	---	---	---
	0	0	0	0	0	1	0	0	0	0	0	1
TOTAL	---	18,543	25,250	27,672	32,504	37,000	37,922	46,650	47,865	50,103	---	35,000
	13,600	15,600	21,000	24,800	29,800	33,300	31,400	35,000	35,000	37,000	---	28,000
	---	15,050	18,350	23,100	25,169	28,900	29,000	29,059	27,900	24,973	---	22,000
	13,600	16,437	25,707	29,181	29,165	32,242	32,235	36,225	36,986	36,396	---	29,250
	2,263	3,169	25,963	4,843	6,095	7,194	6,103	9,879	9,401	14,626	---	14,257
	2	17	35	22	31	31	17	32	13	10	0	220

TABLE-1.3.2

SALARIES of M.S. CHEMISTS EMPLOYED FULL-TIME in GOVERNMENT
by SEX and YEARS SINCE BS
1981 Survey of ACS Members

SEX	YEARS SINCE BS										TOTAL		
	(0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)		No Resp	
Men	---	---	23,625	30,375	36,475	37,825	39,500	41,000	43,350	43,500	50,250	36,975	- 75th % -ile
	---	---	22,243	25,000	32,119	31,250	34,090	35,000	40,000	40,000	27,750	30,500	- Median
	---	---	18,423	21,000	27,661	24,625	23,050	30,650	32,817	35,000	22,250	23,000	- 25th % -ile
	---	---	21,516	25,381	31,427	32,260	33,857	36,160	38,467	39,204	33,250	30,896	- Mean
	---	---	3,538	5,922	7,425	9,557	11,661	8,741	6,045	5,939	13,732	9,655	- Std. Dev.
	0	0	18	28	16	16	17	22	5	9	6	137	- Count
Women	---	19,800	24,719	30,000	34,500	27,640	26,000	18,000	41,000	39,000	24,000	30,000	
	---	---	19,000	27,000	29,823	27,640	26,000	18,000	36,000	39,000	24,000	25,000	
	---	19,800	17,785	20,500	21,661	27,640	26,000	18,000	30,000	39,000	24,000	19,000	
	---	---	21,321	25,614	28,661	4,106	1,414	---	35,667	39,000	24,000	25,836	
	0	1	9	7	4	2	2	1	5,508	1	1	6,992	
	---	---	---	---	---	---	---	---	---	---	---	31	
No Response	---	---	---	---	---	18,200	---	---	---	---	---	42,508	
	---	---	---	---	---	18,200	---	45,000	35,033	---	35,000	35,017	
	---	---	---	---	---	---	---	45,000	35,033	---	35,000	22,400	
	0	0	0	0	0	1	0	1	1	0	1	11,117	
	---	---	---	---	---	---	---	---	---	---	---	4	
TOTAL	---	19,800	23,500	30,000	36,300	37,300	39,000	43,000	40,500	42,750	46,250	35,813	
	---	---	20,000	25,000	31,000	30,000	34,000	35,000	36,000	39,500	27,750	30,000	
	---	---	18,000	21,000	27,661	23,500	24,000	29,950	32,817	35,000	23,250	22,625	
	---	19,800	21,451	25,427	30,874	31,034	33,030	35,772	37,152	39,183	32,313	30,040	
	0	1	4,278	5,778	7,260	9,424	11,275	9,346	5,322	5,600	12,098	9,430	
	---	---	27	35	20	19	19	24	9	10	8	172	

TABLE-1.3.3

SALARIES of PhD CHEMISTS EMPLOYED FULL-TIME in GOVERNMENT
by SEX and YEARS SINCE BS
1981 Survey of ACS Members

SEX	YEARS SINCE BS											TOTAL	75th % - Median	25th % - Mean	Std. Dev.	Count		
	(0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)	No Resp							
Men	---	---	28,740	35,000	37,968	41,829	47,000	50,000	50,000	50,000	50,084	44,000	45,000	37,000	30,823	37,638	9,133	365
	---	---	25,250	31,810	34,092	36,000	40,000	47,983	46,000	43,250	37,000	30,000	30,000	30,000	30,000	30,000	9,203	19
	---	---	21,375	26,988	28,968	30,000	35,813	40,000	40,000	35,050	30,000	30,000	30,000	30,000	30,000	30,000	9,203	19
	---	---	24,817	31,396	33,833	35,892	40,429	44,762	44,185	42,934	37,686	30,000	30,000	30,000	30,000	30,000	9,203	19
	---	---	4,908	6,198	7,198	7,635	7,263	7,480	7,485	9,412	9,412	9,203	9,203	9,203	9,203	9,203	9,203	19
	0	0	16	42	76	53	50	52	29	28	28	19	19	19	19	19	19	19
Women	---	---	---	29,175	32,048	44,028	---	41,031	---	50,000	50,000	33,508	38,000	30,000	30,000	30,000	38,000	35
	---	---	30,000	28,747	29,000	38,936	33,694	34,200	31,000	43,000	43,000	28,900	30,000	30,000	30,000	30,000	30,000	30,000
	---	---	---	27,000	22,550	31,447	---	26,951	---	39,000	39,000	22,125	27,400	27,400	27,400	27,400	27,400	27,400
	---	---	30,000	28,219	28,743	38,613	33,694	34,061	31,000	44,000	44,000	28,056	32,454	32,454	32,454	32,454	32,454	32,454
	---	---	---	1,150	5,620	7,344	5,224	7,041	12,021	5,568	5,568	5,928	7,522	7,522	7,522	7,522	7,522	7,522
	0	0	1	5	7	6	2	3	2	3	3	6	35	35	35	35	35	35
No Response	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	34,143	---	---	---	---	---	42,240	42,240	---	38,192	38,192	38,192	38,192	38,192	38,192
	---	---	---	34,143	---	---	---	---	---	42,240	42,240	---	38,192	38,192	38,192	38,192	38,192	38,192
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	0	0	0	1	0	0	0	0	0	1	1	0	2	2	2	2	2	2
TOTAL	---	---	29,660	34,786	37,871	42,000	46,500	50,000	50,000	50,000	50,000	40,064	44,181	36,320	30,000	37,189	9,096	9,402
	---	---	26,000	30,823	33,888	36,280	40,000	47,000	45,443	42,620	35,000	30,000	36,320	36,320	36,320	36,320	36,320	36,320
	---	---	21,750	27,000	28,085	30,000	35,439	40,000	39,500	35,575	29,450	29,450	29,450	29,450	29,450	29,450	29,450	29,450
	---	---	25,122	31,122	33,404	36,169	40,170	44,178	43,335	43,012	35,374	35,374	37,189	37,189	37,189	37,189	37,189	37,189
	---	---	4,916	5,897	7,192	7,589	7,275	7,790	8,243	8,904	9,405	9,405	9,405	9,405	9,405	9,405	9,405	9,405
	0	0	17	48	83	59	52	55	31	32	32	25	402	402	402	402	402	402

TABLE-1.4.1

SALARIES of M.S. CHEMISTS EMPLOYED FULL-TIME in COLLEGE/UNIVERSITY
by SEX and YEARS SINCE BS
1981 Survey of ACS Members

SEX	YEARS SINCE BS											TOTAL	75th %ile	Median	25th %ile	Mean	Std. Dev.	Count
	(0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)	No Resp							
Men	---	---	18,000	23,250	30,750	26,000	31,415	32,246	33,563	30,125	31,500	29,050	22,000	22,000	23,349	6,951	121	
	---	15,750	16,000	20,000	22,285	23,000	23,000	25,167	27,290	27,270	27,650	22,000	18,000	18,000	18,000	6,951	121	
	---	---	15,400	15,000	18,138	20,000	18,550	21,085	19,729	20,625	22,000	26,930	25,452	25,452	25,452	6,951	121	
	---	1,061	3,705	4,946	6,379	6,217	7,207	7,425	7,460	6,451	6,029	6,029	6,029	6,029	6,029	6,029	121	
	0	2	11	18	16	19	13	17	10	10	5	5	5	5	5	5	121	
Women	---	---	13,700	25,000	---	19,983	25,000	---	---	29,000	---	23,238	16,434	16,434	16,434	16,434	16,434	
	---	---	12,650	18,510	23,250	16,715	23,000	11,470	23,000	24,345	19,269	13,500	13,500	13,500	13,500	13,500	13,500	
	---	---	11,750	15,000	---	14,925	20,000	---	---	13,440	---	18,298	18,298	18,298	18,298	18,298	18,298	
	---	---	12,683	19,077	23,250	17,208	22,667	11,470	23,000	22,262	19,269	5,613	5,613	5,613	5,613	5,613	5,613	
	---	---	1,151	4,651	10,960	2,741	2,517	1,810	2,828	7,986	5,613	5,613	5,613	5,613	5,613	5,613	5,613	
	0	0	6	7	2	4	3	2	2	3	2	2	2	2	2	2	2	
No Response	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL	---	---	17,050	23,500	31,000	25,000	28,959	32,000	32,349	29,550	30,000	27,000	21,400	21,400	21,400	21,400	21,400	
	---	15,750	15,400	19,200	22,285	22,000	23,000	24,000	25,000	27,000	27,000	27,000	17,063	17,063	17,063	17,063	17,063	
	---	---	12,650	15,000	17,950	19,350	19,250	19,960	20,250	19,750	17,000	17,000	22,319	22,319	22,319	22,319	22,319	
	---	1,061	3,320	4,787	6,557	6,256	6,575	8,406	6,995	6,618	6,592	6,592	6,592	6,592	6,592	6,592	6,592	
	0	2	17	25	18	23	16	19	12	13	7	7	7	7	7	7	7	

TABLE-1.4.2

SALARIES of PHD CHEMISTS EMPLOYED FULL-TIME in COLLEGE/UNIVERSITY
by SEX and YEARS SINCE BS
1981 Survey of ACS Members

SEX	YEARS SINCE BS										TOTAL		
	(0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)		No Resp	
Men	---	---	21,625	24,000	28,062	33,953	37,749	42,750	45,000	45,000	40,000	34,470	- 75th % - 11e
	---	---	18,170	20,000	24,000	28,200	30,000	32,825	36,000	36,555	32,000	27,000	- Median
	---	---	16,500	17,500	21,000	24,584	25,000	28,000	30,400	30,375	22,950	22,000	- 25th % - 11e
	---	---	19,121	20,997	25,566	29,547	33,067	35,767	37,533	38,253	35,161	29,408	- Mean
	---	---	4,025	4,888	7,359	7,758	16,542	11,858	11,052	10,537	29,684	12,928	- Std. Dev.
	0	0	64	197	251	254	188	136	83	78	57	1,308	- Count
Women	---	---	18,500	20,000	26,199	24,000	30,250	39,325	39,482	40,000	27,000	26,000	
	---	---	16,600	18,000	22,600	21,500	24,258	31,500	26,500	28,500	20,500	21,400	
	---	---	15,200	16,100	18,000	19,217	21,875	26,138	21,000	21,442	14,600	17,500	
	---	---	17,231	18,678	22,722	23,309	26,159	33,620	29,724	30,277	20,500	22,897	
	---	---	3,095	3,603	5,021	7,321	5,610	12,056	8,835	11,718	7,452	7,621	
	0	0	11	29	33	16	10	8	7	5	8	127	
No Response	---	---	---	27,000	24,500	30,000	36,000	---	---	---	---	31,000	
	---	---	15,600	24,500	19,500	23,859	31,400	50,000	30,500	---	40,500	26,700	
	---	---	---	20,000	17,500	15,500	26,700	---	---	---	---	20,000	
	---	---	15,600	23,833	20,500	23,120	31,367	50,000	30,500	---	40,500	27,508	
	---	---	---	3,547	3,873	7,278	4,650	---	707	---	14,849	9,952	
	0	0	1	3	4	3	3	1	2	0	2	19	
TOTAL	---	---	20,488	24,000	28,000	33,073	37,250	42,500	43,000	45,000	39,000	33,972	
	---	---	18,000	20,000	23,750	28,000	30,000	33,000	35,500	36,500	29,000	26,200	
	---	---	16,000	17,375	20,805	23,825	25,000	28,000	30,000	29,544	21,000	21,000	
	---	---	18,801	20,740	25,169	29,111	32,698	35,746	36,786	37,772	33,570	28,816	
	---	---	3,933	4,792	7,160	7,867	16,118	11,855	10,974	10,705	27,950	12,649	
	0	0	76	229	288	273	201	145	92	83	67	1,454	

TABLE-1.5.1

SALARIES of FULL-TIME EMPLOYED B.S. CHEMISTS
by REGION and YEARS SINCE BS
1981 Survey of ACS Members

REGION	YEARS SINCE BS										No Resp	TOTAL	
	(0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)			
Pacific	23,000	22,500	26,250	27,618	34,250	43,000	39,195	49,000	48,500	46,500	32,280	36,000 - 75th %-ile 28,530 - Median 23,387 - 25th %-ile 31,571 - Mean 15,093 - Std. Dev. 246 - Count	
	18,000	20,400	23,374	25,740	30,000	34,680	35,000	36,000	38,000	43,250	25,000		
	16,400	15,100	20,419	22,500	24,875	29,750	29,177	31,000	27,400	31,750	17,000		
	19,360	20,146	26,394	25,573	30,255	37,025	34,374	40,278	40,209	40,765	24,760		
	3,485	6,102	22,098	5,464	7,079	10,429	6,371	12,807	14,982	9,777	7,643		
	5	17	56	30	26	21	18	35	21	14	3		
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Mountain	20,738	25,000	25,535	32,000	38,685	45,000	39,750	50,112	---	---	---	32,055 24,900 19,825 26,563 10,066 62	
	15,800	19,300	23,500	26,640	31,496	34,125	32,610	43,000	51,000	23,000	25,000		
	12,625	15,300	19,993	20,500	23,032	25,250	32,055	27,000	---	---	---		
	16,388	22,414	22,961	25,071	31,071	35,542	34,805	40,037	51,000	23,000	25,000		
	4,363	9,649	4,081	7,684	8,395	14,320	4,816	11,837	---	---	---		
	4	11	18	9	4	6	4	3	1	1	1		
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WN Central	---	21,625	23,150	32,000	46,875	31,300	37,000	39,060	97,500	56,000	---	32,000 24,250 20,000 28,045 15,792 102	
	20,450	19,950	20,800	27,654	33,100	26,250	31,250	37,000	38,000	37,650	---		
	---	16,425	16,500	20,634	22,725	17,563	24,950	28,000	28,500	26,200	---		
	20,450	18,918	20,265	26,999	36,200	26,231	31,030	33,920	58,000	39,950	---		
	11,950	3,687	4,099	5,279	14,910	9,160	6,447	8,634	51,899	15,620	---		
	2	10	29	17	10	8	5	12	5	4	0		
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WS Central	19,300	23,010	28,050	34,200	46,000	42,450	46,500	46,708	48,000	53,225	---	36,080 27,700 22,000 29,900 10,915 146	
	16,500	19,200	23,750	26,236	30,000	33,160	36,000	33,000	32,000	43,700	---		
	13,448	16,950	19,150	22,000	22,305	27,000	34,000	29,000	28,440	38,035	---		
	16,399	20,547	24,508	29,309	32,366	34,899	38,675	36,544	36,575	44,987	---		
	3,188	4,238	7,015	11,090	11,122	9,459	7,193	9,789	10,496	8,004	---		
	5	26	26	19	11	14	15	15	11	4	0		
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EN Central	21,240	21,792	25,071	33,612	35,000	39,000	40,000	41,500	53,000	50,850	---	34,000 27,000 21,600 29,291 11,801 495	
	18,400	19,650	22,000	29,400	30,500	32,580	33,000	34,235	36,000	38,500	21,600		
	15,800	16,950	18,575	25,000	26,500	29,075	28,000	26,874	24,000	29,000	---		
	19,063	19,507	22,474	29,788	31,781	33,503	34,770	36,260	41,519	41,094	21,600		
	3,091	3,482	5,296	6,687	9,043	7,484	10,148	14,802	22,067	14,014	---		
	7	74	102	71	49	50	37	64	23	17	1		
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ES Central	---	20,435	24,300	32,000	33,600	32,489	---	52,500	44,400	---	---	33,050 27,360 19,850 30,604 25,994 69	
	18,000	18,000	18,600	27,300	29,000	29,820	28,190	34,800	35,000	27,908	27,000		
	---	15,375	15,800	25,000	19,000	28,950	---	31,550	28,350	---	---		
	18,000	18,586	20,290	28,527	26,881	30,420	28,190	53,900	36,100	27,908	27,000		
	---	4,330	5,055	5,711	7,256	1,970	6,944	53,185	10,465	3,264	---		
	1	10	13	11	7	4	2	13	5	2	1		
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Mid Atlantic	20,768	20,225	25,000	34,725	35,588	39,750	44,000	45,000	48,680	45,000	---	38,000 28,394 21,000 30,917 13,667 514	
	17,750	18,610	22,000	28,000	30,100	30,444	35,820	37,600	37,000	38,000	23,774		
	15,175	16,245	19,400	23,146	23,362	24,915	29,000	30,000	28,567	32,000	---		
	17,745	18,726	22,285	29,259	30,736	34,452	39,330	38,986	39,828	39,773	23,774		
	3,701	4,016	4,935	7,866	8,459	13,331	15,709	14,681	15,613	13,766	---		
	14	68	87	48	50	44	47	83	37	35	1		
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So Atlantic	---	20,945	26,858	29,475	37,252	39,893	38,800	49,125	50,000	51,903	---	38,000 29,120 22,000 31,881 17,460 263	
	15,432	17,050	21,700	25,243	29,000	34,599	31,400	37,750	40,000	37,500	39,540		
	---	14,895	18,717	23,000	25,243	29,875	25,200	31,000	31,414	29,250	---		
	15,432	17,749	23,249	27,510	31,287	34,834	32,777	43,968	43,251	40,976	39,540		
	---	4,602	5,795	6,751	12,089	7,318	9,761	30,344	12,943	16,651	---		
	1	26	48	34	29	30	19	48	11	16	1		
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New England	32,500	22,250	25,400	33,850	36,630	40,550	35,500	43,000	51,250	64,500	---	32,074 24,000 19,906 28,316 14,584 137	
	16,000	19,581	20,658	24,500	30,000	29,800	30,250	30,000	34,750	32,148	---		
	13,375	15,830	18,054	22,875	20,000	23,924	28,350	22,000	23,160	24,750	---		
	21,550	19,199	23,496	28,291	32,688	31,861	35,458	32,445	39,544	42,130	---		
	10,231	4,991	10,541	8,418	19,262	9,227	17,019	11,082	20,465	28,863	---		
	5	30	23	16	14	6	13	15	10	5	0		
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No Response	---	---	29,100	31,800	36,075	34,574	---	60,000	46,500	---	---	40,250 31,400 22,875 33,366 13,618 34	
	18,000	22,000	24,000	22,000	32,500	27,400	42,000	40,000	45,000	33,720	---		
	---	---	20,000	21,500	24,375	18,439	---	38,000	29,000	---	---		
	18,000	22,000	24,367	25,720	31,633	26,804	42,000	47,929	40,167	33,720	---		
	---	1,414	4,561	5,709	7,496	8,362	0	19,469	9,700	---	---		
	1	2	3	5	6	4	2	7	3	1	0		
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TOTAL	21,000	21,727	25,183	32,000	35,100	39,000	40,000	44,000	49,000	47,500	30,960	35,100 27,500 21,458 30,242 14,489 2,068	
	17,900	19,028	22,000	27,000	30,000	32,400	34,500	35,500	36,240	38,000	25,000		
	15,316	16,398	19,000	23,434	24,491	28,000	29,940	28,500	30,216	22,144	---		
	18,362	19,331	23,063	28,302	31,388	33,932	36,125	39,576	40,854	40,201	26,399		
	4,909	4,591	9,856	7,268	10,387	9,991	12,005	20,770	18,677	14,299	6,864		
	45	274	405	260	206								

TABLE-1.5.2

SALARIES of FULL-TIME EMPLOYED M.S. CHEMISTS
by REGION and YEARS SINCE BS
1981 Survey of ACS Members

REGION	YEARS SINCE BS										No Resp	TOTAL	
	(0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)			
Pacific	---	---	25,950	30,225	35,750	38,688	41,888	48,000	40,325	43,750	41,250	35,125	- 75th %-ile
	---	21,700	22,750	25,465	32,800	32,000	33,320	36,000	31,548	30,870	23,500	29,440	- Median
	---	---	19,500	22,250	24,500	26,850	29,220	31,000	24,000	27,155	20,000	23,075	- 25th %-ile
	---	21,700	22,771	26,381	31,710	34,433	35,204	38,850	32,600	36,713	31,998	30,931	- Mean
	---	---	4,606	5,687	10,078	12,358	10,341	12,487	9,623	16,611	14,847	10,968	- Std. Dev.
	0	1	24	36	22	17	12	23	10	6	7	158	- Count
Mountain	---	---	24,000	33,600	35,200	32,600	48,500	38,000	40,730	44,100	---	33,000	
	---	20,675	22,000	29,280	28,310	25,000	33,000	37,000	30,500	26,500	27,250	27,000	
	---	---	18,000	26,875	22,750	18,000	18,000	27,875	22,449	22,525	---	22,000	
	---	20,675	21,060	30,395	27,542	25,200	33,167	34,292	30,953	30,975	27,250	28,324	
	---	5,904	3,073	7,447	7,833	7,302	15,251	6,156	9,459	12,765	3,182	8,514	
	0	2	7	10	10	3	3	4	6	4	2	51	
WN Central	---	---	27,125	29,250	38,500	32,000	62,250	51,750	34,000	42,355	35,000	35,000	
	---	20,500	20,441	24,800	31,000	24,388	39,000	38,000	20,000	30,000	19,200	25,850	
	---	---	12,600	21,200	21,935	21,450	27,000	23,548	19,200	23,500	17,000	20,559	
	---	20,500	20,488	26,120	30,562	27,754	42,750	38,532	24,400	32,886	23,733	28,592	
	---	3,536	7,183	7,601	8,715	9,094	19,033	20,380	8,323	12,823	9,819	12,074	
	0	2	10	13	9	9	4	6	3	7	3	66	
WS Central	---	25,000	26,832	34,075	41,000	35,000	46,300	39,770	47,307	60,975	49,250	39,000	
	---	24,000	23,000	30,800	38,000	33,000	34,000	33,790	40,114	47,000	25,000	31,700	
	---	21,000	18,700	25,000	28,752	27,800	28,800	25,875	30,500	39,945	14,250	24,500	
	---	23,143	21,761	37,661	36,566	32,431	36,295	33,975	39,307	49,778	29,500	34,105	
	---	2,135	6,202	41,941	12,498	7,989	9,533	9,640	8,795	11,413	19,502	21,807	
	0	7	19	26	19	11	15	12	4	10	4	127	
EN Central	---	24,500	25,950	31,275	37,200	37,650	44,000	43,675	52,000	46,118	52,500	36,200	
	---	23,300	22,450	27,000	31,533	33,000	33,600	36,000	33,575	39,090	33,000	29,800	
	---	20,500	19,813	21,000	26,800	26,250	28,000	32,000	28,110	30,850	29,000	23,600	
	---	22,702	22,882	29,558	33,664	32,530	36,384	39,395	40,019	37,624	44,665	32,313	
	---	2,071	4,733	24,948	10,699	8,986	12,804	14,732	15,759	11,308	28,512	16,394	
	0	9	68	70	46	41	39	48	21	10	11	363	
ES Central	---	---	23,015	28,825	33,700	40,033	78,130	54,584	30,000	105,000	---	36,803	
	---	15,000	19,782	26,000	32,050	25,300	36,650	48,400	20,000	30,000	40,500	26,300	
	---	---	17,000	15,425	22,675	18,323	25,288	23,500	18,498	20,000	---	19,416	
	---	15,000	20,108	23,667	29,475	28,540	48,697	43,152	22,833	51,667	40,500	32,707	
	---	---	3,109	6,757	6,598	11,286	40,206	16,823	6,252	46,458	6,364	21,350	
	0	1	6	6	4	6	5	6	3	3	2	42	
Mid Atlantic	---	23,500	27,000	32,300	39,760	45,000	44,650	44,000	47,050	49,000	43,000	40,000	
	---	22,000	23,500	27,890	32,100	31,000	38,400	38,250	39,000	39,500	30,000	30,700	
	---	19,200	21,250	22,800	27,000	22,000	29,500	30,000	33,000	32,750	26,870	24,700	
	---	21,268	23,536	30,806	37,674	35,523	43,515	38,674	40,864	42,480	33,543	35,069	
	---	3,015	4,892	27,282	30,682	16,347	34,493	10,883	11,637	16,022	9,806	22,601	
	0	11	58	70	45	33	53	61	25	26	12	394	
So Atlantic	---	24,375	25,400	31,325	36,125	40,500	42,705	45,000	41,000	51,000	52,000	40,000	
	---	22,000	20,500	28,500	29,823	30,810	34,170	38,000	35,033	40,000	43,750	30,250	
	---	19,550	18,000	19,914	23,750	24,750	25,300	31,500	23,458	30,000	31,250	23,800	
	---	21,975	21,364	26,291	29,932	32,518	42,257	37,062	32,937	43,779	40,680	32,516	
	---	2,646	5,306	8,090	9,045	9,665	34,389	10,789	10,561	16,090	13,547	16,428	
	0	4	30	26	38	22	26	33	13	13	10	215	
New England	---	---	24,550	32,625	34,934	42,000	39,000	37,500	51,250	38,750	26,000	35,000	
	---	22,350	21,000	28,100	29,000	37,000	28,500	32,000	35,125	31,910	23,000	28,000	
	---	---	18,050	19,127	26,649	27,492	25,300	23,250	25,510	19,969	21,300	21,650	
	---	22,350	22,123	28,143	29,555	36,531	31,807	32,529	38,161	30,783	23,520	29,313	
	---	4,596	5,706	8,434	6,457	15,753	9,921	13,322	13,985	12,275	2,480	10,755	
	0	2	25	22	20	11	12	17	8	6	5	128	
No response	---	---	24,750	---	---	---	50,250	49,000	---	---	50,000	47,000	
	---	---	24,000	24,115	35,000	31,000	39,500	40,000	74,000	38,000	28,100	35,000	
	---	---	21,750	---	---	---	33,450	32,500	---	---	22,000	25,000	
	---	---	23,500	24,115	35,000	31,000	41,633	40,500	74,000	38,000	33,367	36,783	
	---	---	1,732	---	---	---	11,175	9,000	---	18,385	14,724	13,768	
	0	0	4	1	1	1	6	4	1	2	3	23	
TOTAL	---	24,000	25,800	31,475	37,000	38,382	43,500	43,925	42,401	49,000	44,000	38,000	
	---	23,000	22,486	27,000	31,683	32,000	35,000	36,000	35,517	37,000	30,000	30,000	
	---	19,620	19,100	22,075	25,900	25,000	28,000	30,000	27,900	30,000	24,000	23,500	
	---	21,844	22,478	29,524	33,029	33,071	39,636	37,928	37,022	40,663	35,034	32,584	
	---	2,892	5,076	22,943	16,630	11,899	25,480	12,500	13,250	16,390	17,015	17,728	
	0	39	251	280	214	154	175	214	94	87	59	1,567	

TABLE-1.5.3

SALARIES of FULL-TIME EMPLOYED Ph.D.CHEMISTS
by REGION and YEARS SINCE BS
1981 Survey of ACS Members

REGION	YEARS SINCE BS										No Resp	TOTAL	
	(0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)			
Pacific	---	---	31,800	36,000	38,385	42,150	50,000	50,112	50,000	52,675	37,875	44,000	- 75th %ile
	---	---	30,000	31,600	32,000	36,000	39,000	45,780	39,000	44,028	31,000	35,000	- Median
	---	---	26,144	25,150	25,000	30,750	32,250	36,000	34,538	34,366	23,625	29,700	- 25th %ile
	---	---	28,649	31,566	32,842	37,296	42,120	46,475	41,500	52,179	32,418	37,727	- Mean
	---	---	5,483	10,194	10,258	10,711	17,495	17,103	10,838	36,526	15,054	15,831	- Std. Dev.
	0	0	34	82	80	78	57	71	41	22	20	485	- Count
Mountain	---	---	27,000	36,405	34,300	38,850	42,425	50,000	50,000	41,680	48,500	39,925	
	---	---	18,000	28,400	27,000	33,146	36,450	32,000	35,000	36,534	40,564	31,400	
	---	---	17,125	23,350	22,000	26,350	26,200	30,000	31,400	30,500	27,282	25,000	
	---	---	21,250	29,200	28,508	33,053	42,593	40,019	37,933	39,414	38,782	33,879	
	---	---	5,453	7,943	8,784	8,542	39,457	14,929	10,655	12,088	11,620	18,734	
	0	0	5	21	43	21	24	15	11	8	4	152	
WN Central	---	---	30,020	32,500	37,365	40,500	39,050	52,750	39,300	45,742	30,000	38,575	
	---	---	28,250	26,951	28,500	32,000	32,000	43,000	30,700	37,850	27,300	30,000	
	---	---	22,725	21,000	22,575	26,500	24,758	29,963	25,750	34,000	19,250	24,813	
	---	---	26,688	26,843	30,079	34,452	33,406	42,289	34,263	40,056	26,923	32,521	
	---	---	6,077	6,854	9,773	11,345	10,550	14,945	12,522	8,079	7,855	11,299	
	0	0	26	41	54	51	33	32	14	18	15	284	
WS Central	---	---	31,850	35,000	42,125	42,600	50,745	60,000	48,500	55,885	70,000	45,000	
	---	---	29,590	32,000	35,300	36,000	37,750	46,500	44,400	49,000	33,000	34,550	
	---	---	21,613	24,500	24,731	27,500	28,500	34,000	39,418	34,113	24,915	27,500	
	---	---	27,534	31,809	34,054	36,873	39,480	46,258	44,252	45,964	58,901	37,545	
	---	---	6,637	10,179	10,289	14,494	12,754	15,944	10,481	13,998	63,322	17,512	
	0	0	34	63	68	55	30	46	17	20	11	344	
EN Central	---	---	32,000	35,150	39,950	44,000	46,200	51,875	58,075	51,000	46,375	43,100	
	---	24,840	29,350	31,000	33,000	35,640	36,960	44,050	46,000	41,137	35,000	34,800	
	---	---	25,556	24,970	26,050	28,250	30,000	36,000	36,550	36,250	28,000	28,000	
	---	24,840	29,698	29,619	33,877	36,750	39,214	47,491	50,174	44,668	40,556	37,402	
	---	---	18,562	7,673	10,713	11,717	13,361	18,857	21,293	12,519	23,219	15,688	
	0	1	70	136	197	141	102	92	62	49	43	893	
ES Central	---	---	32,500	31,150	38,025	41,900	40,750	49,000	71,250	42,500	45,000	40,000	
	---	---	30,000	26,000	32,000	35,700	32,000	40,000	54,500	38,300	30,780	32,000	
	---	---	20,225	19,100	24,450	27,000	25,250	32,000	30,566	27,425	23,000	25,000	
	---	---	27,957	26,047	32,934	37,671	33,520	42,198	52,719	39,313	36,311	34,735	
	---	---	6,603	6,955	11,963	14,097	10,481	19,998	27,415	16,309	14,630	15,055	
	0	0	14	25	34	25	24	15	10	8	7	162	
Mid Atlantic	---	---	31,000	36,000	40,000	47,000	52,250	54,000	57,600	60,000	47,000	46,000	
	---	31,000	29,000	30,000	33,250	40,000	40,680	45,000	48,000	48,000	37,800	36,500	
	---	---	25,300	24,798	27,312	30,375	32,550	35,200	36,800	39,000	32,000	29,000	
	---	31,000	27,791	30,386	34,621	40,460	44,719	47,374	47,536	51,091	40,084	39,025	
	---	---	6,673	8,531	10,941	14,686	18,419	18,933	16,881	20,512	15,106	16,104	
	0	1	85	195	188	170	118	127	71	69	59	1,083	
So Atlantic	---	---	31,275	35,000	40,000	45,000	48,125	50,700	50,000	50,112	44,500	45,000	
	---	---	29,380	28,925	34,200	36,320	41,000	46,700	45,000	45,600	35,033	36,000	
	---	---	24,625	21,000	25,912	29,000	33,150	37,750	38,000	37,000	29,184	28,787	
	---	---	27,439	29,313	33,570	37,018	42,146	48,476	43,595	46,121	36,597	37,447	
	---	---	5,743	9,739	9,485	11,289	16,044	22,496	11,063	18,412	11,509	14,948	
	0	0	44	112	146	111	93	77	43	51	33	710	
New England	---	---	30,600	33,000	40,000	42,000	45,925	50,000	46,625	46,550	45,500	42,000	
	---	---	26,000	27,000	33,000	35,000	37,250	42,000	42,500	33,200	36,000	33,200	
	---	---	18,225	20,000	24,500	26,000	29,518	32,000	37,325	26,900	32,150	25,250	
	---	---	25,247	27,169	33,598	35,369	38,311	44,125	45,935	36,727	37,321	34,549	
	---	---	6,658	9,030	9,840	12,475	10,260	17,538	20,787	13,518	10,573	13,501	
	0	0	25	68	65	43	34	35	20	17	12	319	
No response	---	---	31,000	33,000	46,000	39,500	48,950	63,625	50,556	72,625	44,000	48,500	
	---	---	28,500	29,224	42,000	30,000	39,000	58,500	50,000	45,250	33,000	35,500	
	---	---	25,000	23,500	24,350	25,100	32,250	35,619	39,565	39,250	30,000	29,168	
	---	---	28,167	27,103	37,132	32,022	40,435	52,528	46,048	52,375	37,057	39,321	
	---	---	3,014	6,470	12,189	9,725	9,828	15,894	7,243	19,137	9,968	13,919	
	0	0	3	7	11	9	6	10	5	4	7	62	
TOTAL	---	---	31,500	35,000	40,000	44,000	48,000	52,000	52,000	52,000	45,000	44,000	
	---	27,920	29,000	30,000	33,000	36,000	38,100	45,000	43,250	43,028	35,000	35,000	
	---	---	25,000	23,500	25,000	28,850	30,458	35,000	35,000	35,083	28,000	27,888	
	---	27,920	27,824	29,642	33,396	37,369	40,789	46,542	45,535	46,309	38,546	37,146	
	---	4,356	10,127	8,897	10,426	12,666	17,262	18,561	16,828	19,279	21,463	15,616	
	0	2	340	750	886	704	521	520	294	266	211	4,494	

TABLE-2.1.1

SALARIES of FULL-TIME EMPLOYED NON-ACADEMIC CHEMISTS - MEN Only
by DEGREE and YEARS SINCE BS
1981 Survey of ACS Members

HIGHEST DEGREE	YEARS SINCE BS											TOTAL
	(0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)	No Resp	
Bachelors	23,600	22,000	25,800	32,823	36,500	39,500	41,000	45,000	50,000	48,000	32,280	37,500 - 75th %-ile
	18,400	19,600	22,700	27,576	31,900	35,000	35,000	36,500	40,000	40,000	25,000	29,600 - Median
	17,000	17,300	19,500	23,986	26,000	29,100	29,177	30,000	30,000	32,000	23,774	23,000 - 25th %-ile
	20,061	20,198	23,202	28,716	32,728	34,907	36,830	40,695	43,253	41,334	27,085	31,984 - Mean
	5,551	4,760	5,853	7,282	10,163	9,532	12,124	21,247	19,446	14,241	7,112	14,666 - Std. Dev.
	19	171	299	230	162	159	146	271	102	91	7	1,657 - Count
Masters	---	24,500	26,000	32,850	39,000	42,000	45,000	45,000	49,075	51,500	50,000	40,000
	---	23,000	23,000	28,500	33,519	35,000	38,428	38,000	40,000	40,000	34,500	32,000
	---	20,000	20,000	24,725	27,255	30,000	30,000	33,000	31,875	32,750	26,120	25,311
	---	22,377	23,441	31,957	34,044	36,888	41,966	40,216	41,406	44,333	38,836	35,084
	0	2,517	4,434	26,570	9,913	11,712	23,292	12,136	13,388	16,171	18,209	17,800
		27	174	198	162	103	132	173	60	69	42	1,140
Doctorate	---	24,840	32,000	37,000	42,000	48,000	50,500	55,000	55,350	58,000	48,750	48,000
	---	24,840	30,000	33,000	37,000	42,000	43,680	48,000	48,000	47,984	38,500	39,000
	---	24,840	27,975	30,000	32,000	35,750	37,000	40,000	40,000	39,000	32,200	32,048
	---	24,840	30,580	33,998	37,665	43,104	46,263	50,839	50,550	50,679	42,681	41,765
	---	---	10,508	7,336	9,332	11,892	16,144	18,853	17,168	21,389	17,578	15,408
	0	1	226	470	549	400	299	357	189	174	125	2,790
No Response	---	---	---	---	---	---	---	---	---	---	48,000	48,000
	---	---	---	---	---	---	---	---	---	---	36,000	36,000
	---	---	---	---	---	---	---	---	---	---	31,000	31,000
	---	---	---	---	---	---	---	---	---	---	39,452	39,452
	0	0	0	0	0	0	0	0	0	0	18,339	18,339
											15	15
TOTAL	23,600	22,500	29,760	35,625	41,000	45,600	48,325	50,000	53,500	53,500	48,000	44,000
	18,400	20,000	25,000	31,000	35,000	39,000	40,000	42,000	45,000	43,330	37,000	35,000
	17,000	17,916	21,000	26,400	30,000	32,375	33,000	34,410	36,000	35,033	30,000	28,000
	20,061	20,517	25,647	32,195	36,077	40,168	42,893	45,113	46,867	46,822	40,993	37,506
	5,551	4,562	8,170	14,196	9,817	11,908	17,625	19,200	17,717	19,057	17,695	16,320
	19	199	699	898	873	662	577	801	351	334	189	5,602

TABLE-2.2.1

SALARIES of FULL-TIME EMPLOYED NON-ACADEMIC B.S. CHEMISTS
by SELECTED STATES and YEARS SINCE BS
1981 Survey of ACS Members

SELECTED STATES	YEARS SINCE BS										No Resp	TOTAL	
	(0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)			
California	22,000	22,750	26,500	27,654	35,450	38,475	39,780	42,750	50,000	44,925	32,280	36,550	- 75th %ile
	18,000	20,700	23,400	25,800	31,000	33,840	36,000	35,850	40,500	43,250	25,000	29,000	- Median
	17,000	15,900	21,000	21,300	24,405	29,625	29,700	31,000	32,500	32,750	17,000	23,374	- 25th %ile
	19,000	20,492	27,175	25,642	31,182	35,726	35,782	38,147	44,652	40,861	24,760	31,927	- Mean
	2,646	6,127	23,996	5,815	8,015	8,786	5,716	9,485	15,423	8,545	7,643	15,307	- Std. Dev.
	3	16	47	24	18	20	15	32	15	12	3	205	- Count
Texas	20,150	23,040	29,175	36,000	37,000	42,450	44,100	44,250	49,200	---	---	36,000	
	17,050	19,392	20,950	27,000	29,500	34,750	36,000	32,500	36,000	43,700	---	27,700	
	14,625	16,500	17,354	22,000	20,718	27,000	33,110	29,163	27,220	---	---	20,475	
	17,275	20,643	23,686	28,915	29,771	35,410	37,623	35,831	37,768	43,700	---	29,301	
	2,904	4,502	8,879	8,370	9,868	9,690	6,930	10,550	11,101	5,233	---	10,565	
	4	19	14	11	6	10	13	8	5	2	0	92	
Illinois	24,100	22,200	25,054	34,000	48,125	39,150	44,000	43,365	48,000	47,125	---	35,000	
	20,500	20,500	22,000	30,000	34,150	34,000	38,000	34,550	35,000	36,470	21,600	28,000	
	17,900	17,375	18,720	26,383	29,000	28,650	32,768	29,000	24,250	27,435	---	22,000	
	20,833	20,108	22,645	30,294	36,642	35,260	38,178	37,651	41,278	37,010	21,600	30,889	
	3,113	3,026	4,728	5,282	9,766	10,329	7,989	17,040	24,532	10,318	---	13,015	
	3	13	25	21	10	10	6	20	9	4	1	122	
Michigan	---	22,000	26,963	32,500	34,000	42,000	50,000	38,000	54,000	55,000	---	34,000	
	---	20,900	23,000	29,000	30,780	32,000	39,672	35,340	36,240	45,000	---	26,963	
	---	18,600	19,500	24,700	27,736	26,850	24,000	29,400	20,100	32,000	---	22,000	
	---	19,995	23,497	29,920	30,788	33,940	36,591	40,067	36,888	44,000	---	29,306	
	---	2,639	6,023	6,846	3,276	8,085	12,935	21,654	17,528	11,533	---	12,088	
	0	15	27	19	7	5	7	11	5	3	0	99	
Ohio	---	21,931	23,910	36,750	32,500	39,000	37,275	44,300	56,000	51,700	---	34,600	
	19,820	19,978	21,840	29,750	29,280	33,000	30,000	32,825	36,000	41,760	---	27,000	
	---	17,175	17,400	24,200	25,000	28,000	25,600	25,240	24,000	25,000	---	21,788	
	19,820	19,902	21,904	31,755	30,509	33,328	32,305	34,962	46,643	40,994	---	29,926	
	2,008	3,856	5,747	8,521	10,574	7,285	9,584	10,196	26,831	14,974	---	12,154	
	2	24	21	13	23	15	15	22	7	7	0	149	
New Jersey	23,600	20,725	25,375	35,700	39,875	41,000	47,500	47,000	50,000	45,000	---	41,350	
	22,320	19,175	22,250	28,000	33,500	34,000	37,000	39,000	44,000	37,000	---	30,000	
	16,000	16,845	20,300	23,500	22,888	29,820	30,770	30,000	29,533	30,000	---	23,000	
	20,640	19,263	22,850	30,097	32,023	37,565	42,016	39,748	43,202	39,918	---	33,681	
	4,069	2,973	3,426	7,409	11,092	14,638	17,195	15,467	12,348	16,056	---	14,561	
	3	18	26	19	20	15	25	31	14	15	0	186	
New York	20,845	22,204	29,000	29,250	35,100	38,182	44,250	46,500	59,500	57,000	---	35,910	
	18,300	20,000	22,600	26,400	29,300	30,000	33,660	34,000	35,500	41,600	---	29,000	
	17,750	17,628	19,000	23,395	26,000	25,500	28,568	30,000	27,125	37,025	---	21,550	
	19,098	20,213	23,057	27,630	30,385	31,627	38,573	38,190	45,438	45,925	---	30,704	
	1,624	5,132	5,853	7,484	7,668	6,853	15,248	11,839	25,399	12,123	---	13,181	
	5	23	27	13	11	15	10	29	8	8	0	149	
Pennsylvania	20,000	19,600	24,708	37,968	34,875	53,000	42,875	45,000	41,000	42,750	---	36,500	
	16,920	17,500	21,000	29,500	29,950	30,000	35,500	38,500	35,000	37,250	23,774	25,608	
	15,200	15,100	18,725	21,507	23,978	22,250	22,500	28,785	29,000	31,250	---	20,000	
	17,373	17,428	21,591	29,586	29,371	36,542	34,366	39,482	36,267	37,738	23,774	29,010	
	2,432	2,794	4,975	8,938	5,479	17,117	12,363	17,456	7,740	10,372	---	12,743	
	3	25	32	16	16	12	12	22	11	10	1	160	
Other	23,363	21,740	25,165	30,200	36,500	39,000	38,628	45,000	48,922	53,750	39,540	34,167	
	15,900	18,900	22,000	26,305	30,000	33,000	32,000	36,000	35,000	35,000	27,000	26,800	
	13,338	16,200	18,768	23,000	24,500	29,100	27,770	30,000	28,530	25,800	25,000	21,000	
	18,933	19,309	22,630	27,362	32,363	33,823	34,022	42,172	40,811	40,598	30,513	29,894	
	7,042	5,035	5,917	7,037	12,656	8,765	11,084	28,753	21,497	18,092	7,881	16,143	
	16	107	171	117	75	75	53	107	44	33	3	801	
No Response	---	---	29,100	31,800	36,075	34,574	---	66,750	46,500	---	---	40,625	
	18,000	21,000	24,000	22,000	32,500	27,400	42,000	40,250	45,000	33,720	---	31,400	
	---	---	20,000	21,500	24,375	18,439	---	36,000	29,000	---	---	22,875	
	18,000	21,000	24,367	25,720	31,633	26,804	42,000	49,250	40,167	33,720	---	33,482	
	---	---	4,561	5,709	7,496	8,562	0	20,980	9,700	---	---	13,875	
	1	1	3	5	6	4	2	6	3	1	0	32	
TOTAL	21,180	21,770	25,292	32,000	35,363	39,000	40,000	45,000	49,115	48,000	30,960	35,700	
	18,000	19,200	22,000	27,000	30,100	32,760	35,000	36,000	37,000	38,500	25,000	28,000	
	15,850	16,800	19,100	23,451	25,000	28,750	29,000	30,000	28,810	31,000	22,144	21,600	
	18,968	19,515	23,205	28,238	31,694	34,316	36,274	39,884	41,525	40,636	26,399	30,510	
	4,810	4,498	9,915	7,160	10,466	9,915	11,956	20,897	18,785	14,334	6,864	14,572	
	40	261	393	258	192	181	158	288	121	95	8	1,995	

TABLE-2.2.2

SALARIES of FULL-TIME EMPLOYED NON-ACADEMIC M.S. CHEMISTS
by SELECTED STATES and YEARS SINCE BS
1981 Survey of ACS Members

SELECTED STATES	YEARS SINCE BS										No Resp	TOTAL		
	(0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)				
California	---	---	26,000	32,000	36,722	41,250	42,450	51,375	---	61,250	55,313	36,625	- 75th %-ile	
	---	---	23,100	28,000	32,500	34,000	36,000	37,188	38,000	33,370	38,625	30,650	- Median	
	---	---	19,500	24,000	24,500	28,350	29,000	31,155	---	---	27,435	24,000	24,252	- 25th %-ile
	---	---	23,260	27,970	32,116	36,874	37,677	39,585	38,000	40,685	39,313	32,509	- Mean	
	---	---	4,846	5,453	10,689	13,054	12,001	13,228	19,799	19,894	16,489	11,862	- Std. Dev.	
	0	0	19	27	18	13	7	20	2	4	4	114	- Count	
Texas	---	24,625	27,000	35,750	42,000	35,750	46,300	34,100	49,000	62,325	49,250	40,400		
	---	23,500	25,000	31,300	38,000	35,000	34,000	33,600	42,228	52,500	25,000	33,000		
	---	20,625	18,700	25,000	34,250	31,000	28,800	24,500	38,000	40,675	14,250	25,000		
	---	22,833	22,637	40,539	40,811	33,700	36,757	33,769	43,076	51,125	29,500	36,118		
	---	2,160	5,954	46,298	13,967	3,401	9,658	10,578	5,549	12,290	19,502	25,490		
	0	6	11	21	9	5	11	7	3	8	4	85		
Illinois	---	25,000	29,125	32,363	40,250	39,813	39,264	42,875	62,000	40,090	108,250	37,000		
	---	23,700	23,190	28,000	34,500	34,000	33,000	34,000	62,000	36,000	55,250	31,500		
	---	21,000	20,275	23,713	31,235	32,450	28,000	23,188	26,500	29,900	43,125	24,782		
	---	23,233	24,716	28,686	38,447	36,045	34,754	35,125	50,167	35,196	68,875	33,610		
	---	2,040	5,448	7,180	12,692	6,062	10,750	13,177	20,496	5,458	38,167	14,441		
	0	3	20	21	14	10	11	6	3	5	4	97		
Michigan	---	---	26,200	33,000	48,000	38,050	51,850	46,500	41,000	52,000	34,580	38,700		
	---	24,000	23,100	29,800	31,666	36,500	26,292	39,800	35,788	50,000	30,000	31,000		
	---	---	20,500	24,500	23,600	28,500	23,540	34,000	31,644	40,000	28,000	24,350		
	---	24,000	23,460	41,867	34,109	34,350	35,414	39,692	36,144	47,333	31,032	35,427		
	---	---	3,101	51,525	12,482	5,653	16,920	8,355	4,858	6,429	3,871	25,365		
	0	1	12	15	7	4	5	13	4	3	5	69		
Ohio	---	25,200	24,000	27,000	38,000	43,500	45,000	43,450	50,500	---	---	39,250		
	---	23,300	22,800	27,000	31,000	35,176	33,830	36,000	31,750	44,824	33,000	31,685		
	---	22,500	18,840	22,000	28,310	28,950	30,421	32,000	28,500	---	---	25,000		
	---	23,667	21,913	24,636	33,178	35,947	39,627	40,848	39,018	44,824	33,000	33,717		
	---	1,387	3,867	4,905	8,322	8,554	13,852	18,352	19,335	---	---	14,060		
	0	3	19	11	13	16	16	25	8	1	1	113		
New Jersey	---	22,200	26,625	35,375	42,200	42,000	48,250	41,750	56,713	54,250	45,000	40,750		
	---	19,500	22,250	28,550	34,000	30,600	40,000	38,125	41,250	42,000	40,000	31,300		
	---	16,763	20,000	25,675	28,235	26,500	30,639	30,000	38,525	35,725	29,260	26,000		
	---	19,488	23,217	36,424	44,599	33,082	47,640	37,598	45,855	44,994	37,194	37,558		
	---	2,889	4,440	40,480	43,207	7,938	34,574	8,211	13,192	12,789	11,115	28,011		
	0	4	24	30	21	11	18	20	10	12	7	157		
New York	---	24,500	26,000	34,250	42,030	65,000	42,000	48,000	37,950	40,400	---	39,060		
	---	23,500	24,400	27,140	33,350	50,000	33,639	41,000	33,000	35,600	28,500	31,000		
	---	19,750	22,400	22,425	23,900	38,300	27,500	30,325	28,688	31,600	---	25,000		
	---	22,400	24,025	27,816	33,174	47,200	46,176	41,198	32,356	41,656	28,500	35,017		
	---	3,380	4,969	7,309	9,310	17,776	49,935	11,617	6,399	22,504	9,192	21,983		
	0	5	17	18	12	7	15	20	8	9	2	113		
Pennsylvania	---	---	28,340	30,800	37,250	48,250	44,850	50,000	49,575	54,160	---	40,000		
	---	22,000	23,250	27,250	33,200	27,000	38,428	39,000	41,750	40,000	27,580	30,000		
	---	---	22,000	20,000	21,250	18,208	28,500	33,000	35,193	32,000	---	22,375		
	---	22,000	24,569	26,518	31,170	35,466	38,674	40,600	41,532	42,053	27,580	33,340		
	---	0	4,111	7,733	10,675	21,981	17,557	11,757	8,565	11,222	2,008	13,874		
	0	2	14	18	10	10	18	15	6	3	2	98		
Other	---	24,675	25,650	31,300	36,750	37,240	43,550	45,000	42,750	49,850	49,500	37,853		
	---	21,700	22,000	28,000	30,000	31,082	36,360	38,000	35,517	39,890	34,000	29,790		
	---	19,510	19,000	22,800	25,250	25,000	30,000	32,000	28,000	30,000	23,500	23,500		
	---	21,905	22,342	27,842	30,796	32,585	42,554	38,967	35,929	43,534	34,774	31,910		
	---	2,679	4,775	7,474	8,020	10,814	27,993	11,282	12,020	18,634	12,604	14,150		
	0	13	93	88	89	50	49	63	30	26	19	520		
No Response	---	---	24,750	---	---	---	50,250	49,000	---	---	50,000	47,000		
	---	---	24,000	24,115	35,000	31,000	39,500	40,000	74,000	38,000	28,100	35,000		
	---	---	21,750	---	---	---	33,450	32,500	---	---	22,000	25,000		
	---	---	23,500	24,115	35,000	31,000	41,633	40,500	74,000	38,000	33,367	36,783		
	---	---	1,732	---	---	---	11,175	9,000	---	18,385	14,724	13,768		
	0	0	4	1	1	1	6	4	1	2	3	23		
TOTAL	---	24,250	26,000	32,006	37,575	40,000	44,161	45,000	45,000	50,500	45,000	38,550		
	---	23,000	22,800	28,000	32,050	33,200	36,000	38,000	38,000	40,000	33,000	30,250		
	---	19,900	19,990	24,000	26,524	27,000	29,910	32,000	30,000	32,250	25,000	24,245		
	---	22,174	23,024	30,611	33,896	34,882	41,299	39,263	39,079	43,608	36,710	33,730		
	---	2,574	4,676	23,980	17,105	11,850	26,393	12,130	13,365	16,063	17,587	18,303		
	0	37	233	250	194	127	156	193	75	73	51	1,389		

TABLE-2.2.3

SALARIES of FULL-TIME EMPLOYED NON-ACADEMIC Ph.D. CHEMISTS
by SELECTED STATES and YEARS SINCE BS
1981 Survey of ACS Members

SELECTED STATES	YEARS SINCE BS										No Resp	TOTAL
	(0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)		
California	---	---	33,650	37,695	42,375	44,000	56,000	55,000	49,175	56,650	44,875	48,000 - 75th %ile
	---	---	30,000	33,900	36,000	39,250	48,000	49,500	41,000	44,028	33,750	38,000 - Median
	---	---	29,000	31,000	30,250	34,904	38,000	41,031	35,750	38,750	25,875	32,125 - 25th %ile
	---	---	30,426	35,527	37,617	40,984	50,011	52,290	43,077	49,211	37,800	41,298 - Mean
	---	---	3,958	8,750	9,505	10,300	21,615	19,155	9,251	19,130	15,704	14,977 - Std. Dev.
	0	0	26	54	44	38	27	39	16	14	10	268 - Count
Texas	---	---	32,850	48,500	45,000	51,375	55,250	65,856	51,000	60,340	84,000	51,250
	---	---	29,600	36,000	40,500	39,450	49,000	52,000	40,000	55,000	70,000	41,000
	---	---	27,725	31,750	36,000	36,070	37,720	43,000	40,000	47,500	45,000	39,000
	---	---	30,557	39,998	40,765	47,445	47,492	53,427	43,667	54,136	66,333	44,343
	---	---	4,108	10,958	6,978	18,929	9,394	18,362	6,351	7,087	19,757	14,543
	0	0	14	17	27	16	9	19	3	5	3	113
Illinois	---	---	32,000	33,607	41,600	47,875	46,250	65,575	69,325	53,050	45,500	48,000
	---	---	30,700	31,650	36,200	39,800	40,000	50,000	57,750	50,500	35,000	36,260
	---	---	26,000	28,825	30,156	33,575	36,000	42,222	39,450	36,500	22,500	31,665
	---	---	24,840	29,278	31,438	36,415	40,708	41,942	59,261	56,209	49,170	40,692
	---	---	3,741	4,347	8,447	7,729	6,945	26,033	17,335	13,022	16,057	19,422
	0	1	9	26	43	12	14	16	12	12	9	154
Michigan	---	---	31,750	38,000	45,000	46,838	60,400	52,500	58,300	63,119	48,531	46,838
	---	---	29,875	35,000	36,800	43,500	48,000	49,400	46,000	51,000	30,000	38,000
	---	---	27,005	32,070	31,967	38,450	42,500	39,500	38,000	43,000	28,250	32,000
	---	---	29,641	35,712	39,482	43,541	49,723	49,492	50,125	52,648	35,729	41,318
	---	---	2,929	4,231	9,711	10,246	13,567	12,332	15,199	12,053	12,208	12,027
	0	0	16	29	31	16	13	13	15	5	6	144
Ohio	---	---	33,125	35,875	40,000	48,125	49,325	48,000	47,600	41,825	40,900	43,000
	---	---	31,250	31,340	35,050	42,500	38,303	44,100	44,500	40,000	35,000	37,000
	---	---	29,275	28,262	30,840	35,125	33,610	39,980	37,180	35,950	29,876	31,850
	---	---	30,829	32,266	36,226	43,325	41,617	45,278	42,858	40,181	36,828	38,624
	---	---	2,781	4,881	10,768	9,777	14,781	12,081	7,520	5,716	8,770	10,674
	0	0	22	24	42	30	20	25	13	12	9	197
New Jersey	---	---	32,500	37,150	45,000	48,500	62,000	60,000	62,413	60,000	45,500	48,625
	---	---	31,000	30,500	32,670	39,000	44,000	48,500	47,000	52,000	50,500	39,950
	---	---	27,950	29,100	32,500	35,500	39,500	40,000	40,000	39,700	31,375	32,500
	---	---	31,000	31,034	33,932	40,497	44,419	52,033	50,702	53,315	50,990	42,548
	---	---	4,968	7,879	11,883	13,029	18,956	14,039	19,059	12,473	9,607	14,502
	0	1	33	68	71	55	33	41	24	26	22	374
New York	---	---	34,000	38,300	40,650	52,500	51,300	60,250	54,250	65,000	52,000	48,700
	---	---	29,000	33,150	35,000	42,125	41,730	45,000	48,000	60,000	39,800	39,000
	---	---	27,000	27,100	29,000	35,675	36,000	34,800	38,850	41,000	29,400	30,000
	---	---	28,859	32,639	35,112	44,601	44,829	53,644	45,862	56,200	45,555	42,014
	---	---	5,874	7,530	8,346	15,620	13,801	29,400	13,886	16,819	23,120	17,820
	0	0	19	36	37	46	26	30	13	15	11	233
Pennsylvania	---	---	30,950	37,000	39,960	48,000	56,850	54,125	59,400	59,250	67,000	48,000
	---	---	29,200	32,450	34,500	42,000	46,250	47,600	51,250	44,500	46,000	38,620
	---	---	27,850	29,188	30,000	33,000	32,900	40,000	41,750	39,000	37,800	32,000
	---	---	29,560	33,011	33,997	43,269	49,580	48,010	51,138	55,321	50,891	41,811
	---	---	2,917	6,089	8,141	15,541	22,391	11,237	11,494	36,144	14,542	16,991
	0	0	16	45	35	27	26	30	16	14	11	220
Other	---	---	32,000	36,000	41,450	47,075	48,800	52,000	54,750	51,000	45,500	46,000
	---	---	30,000	32,048	36,660	41,000	43,000	48,000	46,100	45,300	35,825	38,000
	---	---	27,950	28,760	31,100	35,000	35,875	40,000	39,125	38,160	29,550	31,668
	---	---	30,918	33,166	36,996	41,665	43,680	49,853	50,047	49,627	40,862	40,601
	---	---	14,974	7,131	8,623	11,143	14,079	19,263	21,057	24,865	20,054	19,811
	0	0	102	208	253	182	141	147	84	72	56	1,245
No Response	---	---	---	33,000	47,500	48,500	56,000	60,000	50,084	72,625	48,500	50,028
	---	---	29,750	29,400	43,400	39,500	41,000	57,000	47,722	45,250	43,000	41,900
	---	---	---	28,162	30,325	31,250	33,500	36,000	36,625	39,250	32,700	32,850
	---	---	29,750	30,345	40,681	39,750	43,500	51,471	44,810	52,375	41,080	42,396
	---	---	1,768	2,587	10,741	8,958	11,456	16,305	7,729	19,137	8,587	12,704
	0	0	2	5	8	4	3	7	4	4	5	42
TOTAL	---	---	32,000	37,000	42,000	48,000	50,400	55,000	55,000	57,000	46,334	47,000
	---	---	27,920	30,000	33,000	36,800	41,629	43,550	48,000	47,100	37,000	38,260
	---	---	---	28,000	29,500	31,500	35,075	36,988	40,000	39,525	30,000	32,000
	---	---	27,920	30,476	33,680	37,423	42,738	45,849	50,668	49,405	50,396	40,951
	---	---	4,356	9,907	7,291	9,376	12,324	16,062	18,893	17,475	21,185	17,373
	0	2	259	512	591	426	312	367	200	179	142	2,990

TABLE-2.3.1

SALARIES of FULL-TIME EMPLOYED NON-ACADEMIC B.S. CHEMISTS
by ACS LOCAL SECTION and YEARS SINCE BS
1981 Survey of ACS Members

LOCAL SECTION	YEARS SINCE BS										No Resp	TOTAL	
	(0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)			
So California	---	25,375	28,437	26,900	36,250	38,475	39,000	48,975	40,375	52,250	---	35,550	- 75th %-ile
	17,500	21,500	23,200	25,050	28,500	32,895	35,500	35,400	36,250	42,000	17,000	28,750	- Median
	---	17,600	19,925	20,450	22,605	29,625	35,000	31,000	23,875	36,250	---	22,420	- 25th %-ile
	17,500	21,288	22,860	25,984	29,530	35,774	36,500	38,568	33,500	43,500	17,000	30,081	- Mean
	707	4,709	6,028	7,081	7,246	10,775	2,380	9,994	9,101	8,505	---	10,547	- Std. Dev.
	2	8	18	10	6	8	4	17	4	4	1	82	- Count
California	---	20,950	24,225	27,654	35,450	40,840	39,585	41,369	57,500	46,500	---	36,375	
	20,000	20,150	23,000	26,150	31,000	32,000	35,694	35,800	43,875	44,600	32,280	28,530	
	---	14,082	20,056	17,145	26,250	28,350	29,059	30,500	34,200	39,875	---	21,682	
	20,000	19,653	22,727	23,196	31,040	34,370	34,254	37,251	47,197	43,283	32,280	30,237	
	2,828	7,159	3,539	6,413	6,887	7,795	5,646	7,479	16,499	6,227	---	11,340	
	2	9	24	12	10	9	8	10	9	6	1	100	
Chicago	---	22,400	25,169	33,709	39,250	39,600	44,000	43,820	44,000	59,025	---	34,500	
	19,200	21,000	23,000	29,750	30,650	34,000	38,000	34,500	33,000	46,750	21,600	27,000	
	---	17,100	20,000	25,150	26,250	28,000	32,768	32,000	25,375	32,105	---	22,000	
	19,200	20,383	23,058	29,691	33,288	35,475	38,178	38,997	40,050	46,468	21,600	30,496	
	1,838	2,936	4,421	5,442	8,015	10,446	7,989	19,132	23,453	16,707	---	13,156	
	2	15	32	26	8	11	6	15	10	6	1	132	
Delaware	---	16,000	33,500	---	---	---	45,500	97,500	62,100	---	---	53,750	
	---	13,150	24,000	33,000	37,950	36,800	38,800	59,500	44,000	60,000	---	38,900	
	---	10,300	19,750	---	---	---	22,850	47,750	36,840	---	---	29,175	
	---	13,150	26,100	33,000	37,950	36,800	35,100	79,333	47,627	60,000	---	44,552	
	---	4,031	7,249	---	6,435	9,617	11,835	64,726	14,251	---	---	34,690	
	0	2	5	1	2	2	5	6	6	1	0	30	
New York	20,325	22,278	25,554	29,875	36,800	38,182	44,000	43,000	48,250	57,000	---	33,155	
	18,150	20,000	22,540	28,250	29,300	30,000	31,500	33,073	41,000	44,500	---	26,950	
	17,625	17,907	18,825	22,500	23,500	27,200	28,890	30,000	27,150	37,025	---	20,300	
	18,700	20,538	22,664	29,175	30,682	31,926	39,361	38,920	38,800	46,175	---	29,222	
	1,568	5,042	5,186	8,753	9,494	6,628	17,894	17,521	11,208	10,503	---	12,647	
	4	22	26	12	9	11	7	19	4	4	0	118	
No Jersey	23,600	20,300	25,750	36,350	39,000	42,500	47,750	47,125	60,000	48,500	---	43,000	
	22,320	19,000	23,880	28,000	32,000	33,000	37,950	39,650	49,500	36,000	---	30,800	
	16,000	16,380	20,700	23,250	22,850	28,400	32,313	29,700	30,000	28,250	---	23,000	
	20,640	19,212	23,222	30,623	32,064	37,574	43,793	39,738	49,864	41,377	---	34,851	
	4,069	3,144	3,287	7,793	11,072	15,560	18,454	16,460	21,012	19,486	---	16,554	
	3	15	17	13	15	13	20	26	11	10	0	143	
No Eastern	35,000	22,500	25,475	30,300	36,630	36,000	33,330	43,000	53,750	93,000	---	31,950	
	30,000	20,000	20,250	26,500	31,900	29,450	30,000	31,500	38,250	26,000	---	25,700	
	14,350	17,750	16,775	22,638	25,500	25,541	29,025	25,000	22,880	23,500	---	20,575	
	26,450	20,043	22,875	28,083	31,420	30,511	30,827	36,773	41,543	47,500	---	28,824	
	10,773	4,651	11,364	8,377	5,532	5,894	4,988	15,405	22,306	39,424	---	13,978	
	3	25	20	12	6	6	10	19	8	3	0	112	
Philadelphia	---	20,000	27,000	25,290	37,250	58,750	44,000	45,000	41,000	43,750	---	39,250	
	14,660	17,825	25,000	22,868	34,750	44,500	38,500	39,000	37,000	34,750	23,774	28,000	
	---	16,575	21,250	20,625	27,200	25,750	27,921	27,400	28,000	27,000	---	21,375	
	14,660	18,138	25,211	22,928	31,900	44,125	37,112	36,538	36,226	36,673	23,774	31,130	
	3,196	2,496	5,724	2,541	8,021	17,480	8,938	9,600	8,038	11,873	---	12,169	
	2	14	9	4	8	8	13	7	8	1	82		
Pittsburgh	---	22,750	24,000	43,000	29,750	29,400	51,750	91,750	42,930	---	---	35,625	
	20,000	19,056	21,000	38,922	23,985	29,000	32,000	41,000	35,000	38,000	---	25,850	
	---	16,350	18,500	29,950	21,750	21,000	22,000	35,895	31,000	---	---	20,000	
	20,000	19,928	21,296	36,459	24,795	26,467	35,900	56,215	36,572	38,000	---	29,938	
	---	4,663	2,705	7,617	4,539	4,738	16,188	34,683	7,287	5,657	---	14,634	
	1	9	11	8	6	3	5	4	5	2	0	54	
SE Texas	---	27,000	31,050	40,425	---	52,000	47,000	51,500	50,760	---	---	36,000	
	17,500	22,000	25,000	29,800	30,000	27,000	36,000	33,000	48,000	---	---	28,000	
	---	19,000	23,000	25,625	---	22,000	32,220	30,500	36,000	---	---	22,750	
	17,500	22,573	26,619	31,950	30,000	33,667	38,914	39,400	44,920	---	---	30,796	
	4,950	4,752	6,599	8,056	---	16,073	8,771	11,589	7,847	---	---	10,816	
	2	11	9	4	1	3	7	5	3	0	0	45	
Washington DC	---	19,560	32,000	26,500	35,250	42,000	37,922	50,103	50,000	50,709	---	40,000	
	---	15,597	25,000	23,986	31,000	35,279	32,660	45,750	35,000	48,500	---	32,000	
	---	13,675	20,851	23,000	25,231	31,300	26,150	35,020	33,360	38,000	---	23,986	
	---	16,227	25,265	25,664	31,158	35,542	32,244	41,685	39,453	45,602	---	32,153	
	---	4,075	6,005	4,473	6,324	6,972	6,201	11,156	9,170	7,012	---	10,958	
	0	6	10	9	6	9	4	10	3	6	0	63	
None of Above	21,293	21,552	25,191	32,000	36,000	38,500	39,850	42,375	48,000	45,000	36,405	35,000	
	17,800	18,600	21,700	27,300	30,550	32,232	33,000	35,420	35,000	34,000	26,000	27,360	
	15,374	16,400	18,615	23,481	25,275	28,900	28,000	29,688	27,700	29,000	---	21,250	
	18,273	19,263	23,134	28,115	32,766	33,149	34,720	39,034	40,515	37,812	29,135	29,913	
	4,472	4,406	12,554	6,965	11,784	8,333	10,897	21,240	21,477	13,648	7,000	14,693	
	18	119	204	138	108	93	74	140	50	43	4	991	
No Response	---	22,054	28,500	32,160	---	54,750	---	50,000	---	---	---	34,000	
	16,000	19,300	23,000	25,500	29,890	36,500	---	45,000	---	39,000	---	26,000	
	---	18,625	18,400	20,688	---	26,500	---	28,000	---	---	---	20,000	
	16,000	19,993	23,460	26,866	29,890	39,250	---	41,000	---	39,000	---	28,803	
	---	1,971	5,419	7,469	1,259	15,174	---	11,533	---	1,414	---	10,545	
	1	4	7	8	2	4	0	3	0	2	0	31	
TOTAL	21,180	21,800	25,296	32,000	36,000	39,000	40,000	45,000	49,172	48,000	30,960	35,820	
	18,000	19,200	22,050	27,000	30,500	32,630	35,000	36,000	37,250	38,500	25,000	28,000	
	15,850	16,800	19,201	23,480	25,000	28,725	29,000	30,000	29,000	31,000	22,144	21,700	
	18,968	19,581	23,224	28,270	32,058	34,306	36,274	39,937	41,637	40,636	26,399	30,575	
	4,810	4,451	9,921	7,156	10,349	9,942	11,956	20,914	18,823	14,334	6,864	14,582	
	40	259	392	257	187	180	158	287	120	95	8	1,983	

TABLE-2.3.2

SALARIES of FULL-TIME EMPLOYED NON-ACADEMIC M.S. CHEMISTS
by ACS LOCAL SECTION and YEARS SINCE BS
1981 Survey of ACS Members

LOCAL SECTION	YEARS SINCE BS										No Resp	TOTAL
	(0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)		
So California	---	---	26,250	35,000	37,500	40,125	42,450	52,500	---	---	0	38,875
	---	---	23,718	31,000	33,800	36,200	40,200	40,000	38,000	48,000	0	32,750
	---	---	16,600	24,500	29,500	29,960	34,090	23,000	---	---	0	25,122
	---	---	22,922	29,391	33,811	36,106	38,913	38,700	38,000	48,000	---	33,456
	0	0	5,624	6,473	7,437	7,156	4,326	13,455	19,799	31,113	---	11,214
California	---	---	26,534	30,000	48,694	62,500	---	45,282	---	---	---	35,750
	---	---	23,000	28,000	35,000	30,850	29,000	35,000	---	35,000	50,625	29,975
	---	---	19,750	23,000	22,050	22,675	---	31,905	---	---	---	23,250
	---	---	23,114	27,117	35,298	38,675	29,000	39,666	---	35,000	50,625	32,144
	0	0	3,552	5,228	16,116	22,842	9,899	13,147	---	---	13,258	12,642
Chicago	---	24,675	27,200	35,250	38,500	39,813	41,632	44,750	62,000	40,090	125,000	37,000
	---	22,350	22,500	30,100	33,608	34,000	35,500	36,250	62,000	36,000	52,500	31,500
	---	20,250	20,800	24,606	28,173	32,450	26,100	32,250	26,500	29,900	40,000	25,000
	---	22,425	24,546	30,214	36,603	36,045	35,688	39,083	50,167	35,196	72,500	33,442
	0	2,317	4,917	7,400	12,753	6,062	11,839	10,356	20,496	5,458	45,894	14,240
Delaware	---	---	27,500	31,300	48,000	---	80,000	50,800	---	---	---	45,480
	---	---	25,500	27,000	35,500	33,660	33,180	45,480	57,500	53,000	---	33,660
	---	---	19,650	19,000	35,000	---	---	36,250	---	---	---	27,000
	---	---	24,267	25,767	39,500	33,660	60,060	43,916	57,500	53,000	---	41,593
	0	0	4,189	6,242	7,365	---	68,759	7,813	23,335	---	---	33,991
New York	---	24,400	26,500	37,250	44,000	65,000	48,000	48,000	39,650	56,350	---	42,000
	---	23,750	23,500	27,000	31,700	50,000	36,600	42,000	34,500	39,500	22,000	32,000
	---	21,375	21,900	21,325	25,300	38,300	30,000	34,560	28,688	31,450	---	24,058
	---	22,767	24,698	28,307	35,380	47,486	37,963	41,903	35,731	46,433	22,000	34,922
	0	3,192	4,126	8,470	12,867	17,657	9,226	10,630	11,706	27,035	---	13,905
No Jersey	---	23,000	26,250	32,750	36,075	35,575	57,625	42,550	60,138	57,500	46,000	40,000
	---	19,800	22,000	28,500	33,050	30,450	44,000	38,250	41,250	43,000	35,000	32,000
	---	15,950	19,590	25,975	28,118	27,375	33,125	32,000	37,700	37,150	24,680	26,750
	---	19,583	22,588	37,359	44,979	32,213	54,250	38,597	47,619	47,200	35,272	38,684
	0	3,530	4,069	43,325	49,368	6,505	41,073	8,027	13,748	13,001	11,923	31,315
No Eastern	---	---	25,350	34,000	35,375	41,625	41,500	40,000	51,250	---	---	37,000
	---	---	22,650	28,500	37,000	37,000	35,000	44,000	44,000	32,100	23,000	29,000
	---	---	19,250	26,000	26,133	28,932	28,500	29,000	30,480	---	---	23,875
	---	---	22,945	29,068	29,704	34,819	35,000	34,973	41,910	32,100	23,000	30,040
	0	0	5,945	6,488	6,750	8,932	6,671	9,874	11,149	4,101	---	8,793
Philadelphia	---	22,000	23,000	33,200	43,250	68,500	41,200	51,669	50,050	---	---	42,250
	---	22,000	22,000	29,000	37,700	44,000	36,700	39,763	45,000	52,000	28,080	33,100
	---	19,200	22,000	21,500	29,550	27,000	29,000	27,350	38,045	---	---	23,750
	---	21,067	21,857	28,404	36,280	47,000	35,790	41,350	44,238	52,000	28,080	34,589
	0	1,617	2,593	6,796	9,361	24,238	7,458	14,011	6,064	---	2,715	12,683
Pittsburgh	---	---	30,450	29,700	36,000	41,875	45,585	61,750	---	54,160	---	43,750
	---	---	26,490	28,260	27,000	24,500	41,500	48,000	---	40,000	29,000	30,900
	---	---	23,350	24,830	19,000	21,375	32,114	35,750	---	32,000	---	25,248
	---	---	26,730	27,597	27,333	29,250	45,030	48,500	---	42,053	29,000	35,986
	0	0	4,003	2,502	8,505	12,059	24,058	13,478	---	11,222	---	16,158
SE Texas	---	24,750	27,060	37,500	41,500	36,500	47,937	---	---	60,975	57,000	40,600
	---	24,000	26,700	31,300	39,200	35,000	31,374	---	49,000	52,500	24,000	31,650
	---	22,000	23,700	25,000	35,250	27,800	29,100	---	---	42,025	11,000	25,000
	---	23,500	25,407	44,107	38,540	33,100	36,137	---	49,000	51,833	30,667	37,919
	0	1,581	2,864	54,587	3,716	4,651	11,363	---	---	10,327	23,714	31,954
Washington DC	---	---	26,438	36,653	32,686	49,847	---	50,000	46,700	61,000	51,000	41,500
	---	19,400	20,500	31,500	28,500	45,525	39,750	38,456	41,000	40,000	50,000	33,000
	---	---	18,146	25,500	25,250	33,000	---	32,000	35,033	32,517	20,000	24,950
	---	19,400	22,645	31,218	28,505	42,791	39,750	38,079	40,911	45,407	40,333	34,255
	0	0	5,714	5,803	4,222	9,256	1,061	11,551	5,834	19,890	17,616	12,344
None of Above	---	24,888	25,518	31,850	38,425	37,990	45,500	44,000	42,000	49,850	44,250	38,000
	---	23,150	22,443	27,800	32,500	32,800	36,000	38,000	35,517	39,890	32,500	30,572
	---	19,905	19,590	24,000	26,990	26,250	30,000	32,000	29,500	31,635	25,750	24,440
	---	22,555	22,563	30,143	33,294	33,650	39,576	39,851	36,410	42,951	34,465	33,136
	0	2,471	4,316	21,119	9,835	10,061	15,315	13,123	12,449	16,559	11,147	14,729
No Response	---	---	28,200	30,000	---	---	53,500	35,000	---	---	---	33,950
	---	19,500	22,700	25,000	30,500	23,500	33,600	28,500	31,500	---	---	28,100
	---	---	17,050	25,000	---	---	29,400	22,000	---	---	---	22,525
	---	19,500	22,650	26,667	30,500	23,500	39,880	28,500	31,500	---	---	29,992
	0	0	5,575	2,887	14,849	---	15,800	9,192	---	---	---	11,442
TOTAL	---	24,250	26,000	32,725	38,000	40,000	44,500	45,000	46,000	51,000	45,000	39,000
---	23,000	23,000	28,230	33,000	34,000	36,360	38,000	38,600	40,000	33,000	31,000	31,000
---	19,900	20,000	24,435	27,085	28,000	30,000	32,000	31,000	33,000	25,000	24,900	24,900
---	22,174	23,154	31,213	34,538	35,611	40,930	39,730	39,976	44,117	36,710	34,052	34,052
0	2,574	4,556	24,405	17,298	11,642	22,330	12,018	13,093	15,995	17,587	17,731	17,731

TABLE-2.3.3

SALARIES of FULL-TIME EMPLOYED NON-ACADEMIC Ph.D. CHEMISTS
by ACS LOCAL SECTION and YEARS SINCE BS
1981 Survey of ACS Members

LOCAL SECTION	YEARS SINCE BS										No Resp	TOTAL
	(0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)		
So California	---	---	34,000	40,750	50,000	43,000	54,750	51,750	40,950	45,650	39,875	44,000 - 75th %-ile
	---	---	30,600	35,000	42,250	38,500	50,046	50,000	38,000	37,000	34,500	37,000 - Median
	---	---	29,320	31,850	36,000	34,325	37,000	40,000	33,100	33,000	25,875	32,100 - 25th %-ile
	---	---	30,298	37,110	43,325	38,650	49,136	56,726	37,220	38,860	33,667	40,019 - Mean
	---	---	4,221	11,563	10,114	8,434	12,967	35,499	4,225	7,684	7,494	14,806 - Std. Dev.
	0	0	15	21	20	18	8	9	5	5	6	107 - Count
California	---	---	34,500	36,750	37,250	53,250	63,000	60,000	43,850	70,000	66,000	49,900
	---	---	30,250	32,800	32,700	41,329	53,200	49,600	41,000	45,000	35,000	38,290
	---	---	29,150	30,000	27,000	34,904	38,000	46,000	36,000	40,000	29,000	32,000
	---	---	31,520	34,270	32,125	45,049	57,972	53,234	40,140	53,643	45,000	42,702
	---	---	4,190	6,782	5,659	11,785	30,272	11,182	4,919	25,167	19,764	16,356
	0	0	10	28	17	18	11	23	5	7	5	124
Chicago	---	---	32,750	33,225	41,600	46,750	45,000	71,110	70,750	53,400	51,000	48,000
	---	---	31,350	31,560	36,000	39,600	40,000	55,000	65,500	50,000	33,000	36,200
	---	---	27,400	26,500	30,156	33,400	36,300	41,700	45,150	34,000	25,500	31,680
	---	---	30,338	31,081	36,589	39,617	41,524	62,002	59,609	48,958	37,618	41,170
	---	---	3,205	4,567	8,612	8,507	6,453	28,290	16,556	13,636	22,627	16,304
	0	0	8	22	39	13	16	13	10	11	11	143
Delaware	---	---	31,680	44,400	45,000	53,000	56,850	60,275	58,500	70,580	53,580	51,175
	---	---	31,000	39,680	40,000	45,480	47,375	51,350	49,000	47,000	41,880	44,760
	---	---	29,000	36,250	37,560	43,375	44,250	44,250	41,400	44,220	37,110	38,000
	---	---	30,765	40,137	41,737	48,247	53,875	60,415	49,600	58,477	44,190	48,438
	---	---	2,038	5,781	7,719	9,239	22,769	31,650	10,029	22,909	8,968	20,039
	0	0	15	18	27	14	18	26	13	19	4	154
New York	---	---	33,500	35,500	41,250	49,000	48,000	59,500	55,000	63,000	51,500	47,413
	---	---	29,000	29,250	36,000	42,250	40,000	43,368	50,000	50,000	35,280	38,000
	---	---	23,400	25,590	30,000	35,000	38,600	34,000	35,000	40,250	26,200	29,900
	---	---	28,379	30,924	35,752	44,275	43,019	46,570	44,591	51,625	42,053	39,495
	---	---	6,800	8,381	8,691	16,061	10,733	15,136	13,767	11,952	24,953	14,267
	0	0	13	28	33	31	14	19	11	8	9	166
No Jersey	---	---	31,950	38,750	45,000	48,000	64,000	62,000	63,000	60,000	47,000	50,000
	---	31,000	30,500	33,150	39,750	44,000	46,100	46,000	50,000	54,000	39,700	40,000
	---	---	27,700	29,000	34,625	35,000	38,000	40,000	40,500	40,320	31,975	33,000
	---	31,000	31,116	34,324	41,306	42,682	51,618	51,791	54,490	52,054	39,269	43,131
	---	---	5,520	8,036	10,124	10,299	20,333	15,421	18,824	11,393	9,380	14,353
	0	1	25	52	52	41	27	35	19	23	18	293
No Eastern	---	---	32,950	35,000	40,400	45,332	47,025	55,200	46,222	65,225	51,250	45,222
	---	---	29,500	32,000	35,100	41,000	41,250	48,000	43,000	65,000	44,000	38,000
	---	---	25,950	30,000	30,600	32,000	32,450	43,000	38,000	38,000	37,000	31,350
	---	---	28,640	32,834	36,964	40,627	42,064	49,178	50,971	54,290	45,433	39,924
	---	---	5,356	7,814	7,614	14,470	10,739	8,161	27,990	17,122	11,688	13,301
	0	0	12	24	37	24	18	15	9	9	9	153
Philadelphia	---	---	31,031	36,000	42,600	50,000	53,625	54,000	61,475	60,500	57,250	49,000
	---	---	28,500	34,700	35,000	45,000	43,700	47,500	55,000	43,000	44,000	38,500
	---	---	27,500	31,572	32,500	37,000	32,500	40,000	43,700	39,000	36,850	32,500
	---	---	29,173	33,464	37,383	47,013	44,650	46,387	52,328	47,000	48,280	41,776
	---	---	2,688	4,822	7,651	17,511	12,579	10,701	11,484	12,530	14,464	12,718
	0	0	9	31	19	19	21	19	9	9	10	146
Pittsburgh	---	---	32,685	40,150	32,000	63,250	69,000	52,668	54,750	175,000	---	49,500
	---	---	29,700	33,072	30,000	40,800	60,000	46,000	48,750	49,500	46,000	37,000
	---	---	28,400	27,000	24,500	28,190	52,000	43,394	42,000	30,000	---	30,000
	---	---	30,255	33,643	28,978	46,920	60,333	47,088	48,417	84,833	46,000	42,187
	---	---	3,203	8,783	6,124	28,392	8,505	5,707	8,127	78,693	---	23,825
	0	0	8	8	9	6	3	7	6	3	1	51
SE Texas	---	---	36,900	48,500	45,000	71,050	57,500	65,928	---	64,500	84,000	53,000
	---	---	31,850	36,048	41,000	40,050	49,000	52,000	45,500	48,000	70,000	43,000
	---	---	28,725	32,850	36,000	36,210	37,440	43,000	---	47,000	27,000	36,000
	---	---	32,225	41,105	41,489	51,968	48,489	52,358	45,500	53,167	60,333	46,019
	---	---	4,755	10,464	6,948	22,521	10,022	16,524	7,778	9,828	29,704	15,183
	0	0	8	9	15	10	7	13	2	3	3	70
Washington DC	---	---	32,024	36,650	41,914	45,750	50,000	50,075	50,000	50,500	46,000	49,850
	---	---	28,800	32,048	37,836	41,000	45,000	48,484	50,000	50,000	37,000	40,800
	---	---	25,750	28,798	33,212	35,480	38,000	44,336	45,000	42,000	30,000	34,138
	---	---	28,870	33,444	38,439	40,524	44,031	46,580	47,474	44,864	38,200	40,631
	---	---	3,259	6,331	6,825	7,873	6,011	4,686	3,871	11,503	10,157	8,602
	0	0	5	17	36	20	19	16	11	15	15	154
None of Above	---	---	32,000	36,000	41,400	47,500	49,600	50,766	55,000	55,000	42,650	45,000
	---	24,840	30,000	32,700	36,000	41,000	42,250	46,000	46,000	42,720	35,000	37,160
	---	---	28,100	29,000	30,780	35,640	35,000	38,500	39,180	36,534	29,700	31,148
	---	24,840	30,837	33,254	36,748	42,443	44,132	48,788	49,555	48,252	40,286	40,228
	---	---	13,562	6,505	9,838	10,317	15,502	18,628	19,628	23,243	19,958	15,235
	0	1	123	246	279	203	144	166	93	69	49	1,373
No Response	---	---	32,050	39,000	36,500	51,600	58,500	58,750	69,000	---	---	51,500
	---	---	27,420	30,500	31,300	40,000	50,000	51,750	53,000	52,000	35,650	38,600
	---	---	25,625	23,000	27,150	36,024	39,625	43,000	50,000	---	---	30,500
	---	---	28,668	30,436	31,650	43,050	49,375	52,083	57,333	52,000	35,650	39,843
	---	---	5,322	7,690	4,949	11,681	9,776	10,404	10,214	---	---	13,072
	0	0	8	7	4	5	4	6	3	1	1	39
TOTAL	---	---	31,000	32,000	37,000	42,000	48,000	50,425	55,000	55,000	46,348	47,000
	---	---	27,920	30,000	33,000	36,800	41,850	43,640	48,000	47,500	47,534	38,500
	---	---	24,840	28,000	29,500	31,572	35,350	37,000	40,000	39,850	30,000	32,000
	---	---	27,920	30,476	33,703	37,504	42,964	46,017	50,668	49,834	50,519	41,285
	---	---	4,356	9,907	7,278	9,332	12,156	15,976	18,893	17,383	21,181	15,275
	0	2	259	511	587	422	310	367	196	178	141	2,973

TABLE-3.1.0

SALARIES of FULL-TIME EMPLOYED INDUSTRIAL CHEMISTS
by HIGHEST DEGREE and YEARS SINCE BS
1981 Survey of ACS Members

HIGHEST DEGREE	YEARS SINCE BS											TOTAL
	(0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)	No Resp	
Bachelors	24,580	25,050	30,000	39,929	44,950	48,000	50,000	55,600	63,700	60,000	---	46,500
	21,293	22,000	25,850	33,000	36,875	39,600	41,700	45,000	49,625	47,425	32,280	36,000
	18,000	19,855	22,500	28,000	31,380	32,232	35,000	36,300	38,500	38,250	25,000	28,000
	16,000	17,242	19,775	23,630	25,500	28,700	29,000	30,000	29,000	31,825	23,774	22,000
	13,900	15,460	17,000	21,000	22,010	24,000	24,696	25,000	24,060	25,184	---	18,178
	19,250	19,990	23,134	29,033	32,810	34,835	37,122	40,888	42,594	41,097	27,742	31,097
	4,755	4,456	5,662	7,412	10,687	10,499	12,515	22,202	19,902	14,331	6,176	14,810
	38	228	322	205	160	143	135	243	102	82	7	1,665
Masters	---	25,000	29,327	38,900	45,828	50,000	60,000	55,200	61,880	67,000	55,600	50,000
	---	24,500	26,643	33,200	38,625	42,375	45,925	45,000	49,050	53,000	48,375	40,000
	---	23,000	23,500	29,000	33,108	35,000	38,750	38,000	39,000	41,000	35,500	31,770
	---	20,000	21,000	25,000	27,000	30,285	30,000	33,000	31,250	32,000	28,325	25,500
	---	18,550	19,000	21,000	23,000	25,530	27,000	29,900	23,800	28,720	20,730	21,400
	---	22,315	23,944	32,734	35,150	37,121	42,897	40,729	40,762	45,136	37,270	35,079
	---	2,608	4,208	26,861	18,549	11,188	24,064	12,290	13,959	16,920	12,124	18,762
	0	34	182	191	154	92	118	147	57	55	36	1,066
Doctorate	---	---	34,520	42,200	49,940	60,000	65,600	70,000	71,400	75,000	67,100	60,000
	---	---	32,000	37,125	43,000	48,877	53,000	59,500	60,000	60,000	49,125	48,000
	---	27,920	30,000	33,500	38,000	42,450	45,000	48,000	48,000	49,750	37,620	39,000
	---	---	28,500	30,000	33,000	36,875	38,000	40,000	40,000	40,000	30,195	32,188
	---	---	26,090	26,470	29,000	32,000	32,400	35,000	35,000	35,000	26,950	28,730
	---	27,920	30,986	34,361	39,008	44,183	47,870	52,184	51,936	53,366	42,480	42,392
	---	4,356	10,047	7,225	9,176	12,289	17,099	20,465	18,701	23,278	18,639	16,114
	0	2	238	426	452	338	243	291	152	132	108	2,382
No Response	---	---	---	---	---	---	---	---	---	---	68,400	68,400
	---	---	---	---	---	---	---	---	---	---	48,000	48,000
	---	---	---	---	---	---	---	---	---	---	36,000	36,000
	---	---	---	---	---	---	---	---	---	---	31,000	31,000
	---	---	---	---	---	---	---	---	---	---	18,660	18,660
	---	---	---	---	---	---	---	---	---	---	38,852	38,852
	---	---	---	---	---	---	---	---	---	---	17,757	17,757
	0	0	0	0	0	0	0	0	0	0	15	15
TOTAL	24,580	25,000	32,470	41,000	48,000	56,000	60,000	65,000	67,000	70,000	59,300	54,008
	21,293	22,159	29,910	36,000	41,910	46,387	49,000	50,378	55,000	55,000	47,250	43,200
	18,000	20,000	25,400	31,010	35,660	39,500	40,000	42,000	44,000	44,000	36,125	34,200
	16,000	17,700	21,400	27,000	30,000	32,000	33,000	34,175	35,000	35,650	29,365	27,000
	13,900	15,600	18,672	23,008	25,000	27,840	28,000	29,420	28,000	29,200	24,700	21,418
	19,250	20,350	25,851	32,654	36,938	40,716	43,762	45,680	46,824	47,943	40,401	37,194
	4,755	4,371	7,942	14,575	12,204	12,413	18,512	20,447	18,975	20,373	17,222	17,068
	38	264	742	822	766	573	496	681	311	269	166	5,128

TABLE-3.2.1

SALARIES of FULL-TIME EMPLOYED B.S. CHEMISTS IN PRIVATE INDUSTRY
by TOTAL NUMBER OF SUBORDINATES and YEARS SINCE BS
1981 Survey of ACS Members

TOTAL SUBORDINATES	YEARS SINCE BS										No Resp	TOTAL		
	(0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)				
(1-2)	19,875 15,425 13,338 16,213 3,502 4	21,568 20,160 17,400 20,400 4,199 17	26,501 21,750 18,620 22,339 5,176 34	31,800 28,000 23,550 28,257 6,548 17	38,880 30,890 27,000 32,050 6,996 12	37,500 30,050 25,000 30,936 7,475 15	34,750 30,600 25,608 30,486 6,116 12	41,000 34,150 29,150 30,486 47,364 17	40,375 37,120 26,750 35,448 8,680 8	61,875 39,250 32,750 45,298 15,202 10	---	---	34,200 28,000 21,000 30,087 19,177 147	- 75th %-ile - Median - 25th %-ile - Mean - Std. Dev. - Count
(3-7)	---	20,875 19,482 18,450 20,650 4,332 0	27,550 24,000 20,575 24,483 5,495 22	34,050 29,050 24,000 29,512 6,517 54	37,118 32,000 25,250 33,032 10,246 38	42,000 32,500 28,000 35,162 10,058 27	41,875 32,235 27,700 36,013 12,595 24	40,500 35,050 30,000 36,625 8,602 57	47,000 35,000 26,500 35,344 11,405 21	40,500 35,000 31,150 38,475 13,542 13	---	30,570 12,685 2	36,000 30,000 24,000 31,247 10,152 324	
(8-12)	---	30,750 20,000 19,072 25,398 10,156 0	29,625 25,100 22,250 26,287 5,090 9	39,972 33,000 27,000 33,231 7,214 16	38,500 35,000 33,000 37,113 9,079 15	41,300 30,000 27,200 34,908 11,514 13	46,500 41,000 35,250 40,826 8,299 16	44,500 39,500 30,000 39,800 11,254 37	88,750 46,250 35,175 57,700 27,978 6	43,000 34,000 25,600 36,342 10,811 11	---	---	42,625 35,000 27,660 36,358 12,487 142	
(13-17)	---	---	35,100 25,400 20,450 27,519 7,837 0	38,250 32,150 25,200 33,825 7,829 8	39,504 27,600 25,200 30,768 7,660 3	60,000 45,000 33,000 46,000 13,528 3	50,000 39,726 35,385 44,165 18,195 6	51,500 46,250 42,000 46,325 7,230 20	52,500 45,000 36,250 44,500 8,732 5	---	---	---	49,500 40,000 32,125 40,546 11,970 56	
(18-22)	---	23,000 22,500 21,625 22,375 750 0	---	49,000 45,700 26,400 38,057 11,444 2	---	45,000 23,232 36,000 23,232 1,742 2	48,000 38,182 28,180 39,469 5,427 7	60,000 41,000 28,180 39,060 10,783 4	---	---	---	---	45,000 36,000 24,240 34,496 12,069 31	
(23-32)	---	---	33,000 24,150 20,925 22,000 6,611 1	38,000 34,000 34,000 35,000 2,646 3	39,500 35,100 34,000 36,286 3,605 7	65,000 47,000 37,250 49,750 14,841 4	48,000 36,000 35,000 40,286 7,761 7	87,000 42,000 34,800 53,329 26,570 7	58,875 43,500 32,625 45,000 13,802 4	---	---	---	47,400 36,500 34,000 41,482 15,512 39	
(33-47)	---	---	---	41,850 29,750 41,850 33,446 0	41,250 48,400 38,500 34,500 6,557 4	68,950 40,000 36,250 51,950 16,557 4	43,750 40,000 36,250 40,000 4,082 4	---	49,500 42,000 38,300 43,520 5,954 5	77,100 62,200 51,800 63,700 13,216 4	---	---	56,000 44,000 35,000 46,441 14,920 27	
(48-67)	---	---	---	---	38,000 37,000 38,000 37,000 4,243 2	---	---	48,000 46,000 39,600 44,533 1,697 2	62,500 55,000 25,960 47,820 4,388 3	137,500 80,000 54,750 90,750 44,597 4	---	---	61,250 49,600 38,800 57,627 30,422 17	
(68-99)	---	---	---	---	---	---	---	58,000 49,000 50,463 53,488 4,448 4	56,000 50,000 48,000 51,333 4,163 3	---	---	---	60,000 52,000 49,475 54,550 11,147 13	
(>=100)	---	---	---	---	---	60,000 49,000 41,000 49,000 1,414 2	90,000 60,000 47,000 53,667 10,970 3	103,500 90,000 49,750 65,714 21,211 7	100,000 66,000 48,000 71,333 26,407 10	---	---	---	100,000 60,000 47,000 69,826 36,987 27	
TOTAL	28,000 16,500 13,675 19,970 8,933 5	22,000 20,000 18,550 21,532 5,683 53	27,500 23,500 20,350 24,556 6,808 133	35,875 30,000 26,275 31,469 8,103 114	39,340 34,000 27,300 34,931 10,251 85	44,000 36,950 29,425 37,745 12,024 80	46,250 38,500 30,188 40,198 14,333 82	48,000 39,500 32,000 44,456 24,740 163	53,000 43,000 32,700 47,514 23,156 59	53,125 40,000 31,225 42,894 15,390 46	39,540 32,280 21,600 31,140 9,024 3	41,800 32,500 25,100 35,839 17,409 823		

TABLE-3.2.2

SALARIES of FULL-TIME EMPLOYED M.S. CHEMISTS IN PRIVATE INDUSTRY
by TOTAL NUMBER OF SUBORDINATES and YEARS SINCE BS
1981 Survey of ACS Members

TOTAL SUBORDINATES	YEARS SINCE BS										No Resp	TOTAL
	(0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)		
(1-2)	---	25,600	28,630	32,300	35,250	40,450	37,500	45,000	---	38,125	29,750	36,500 - 75th %ile
	---	25,000	24,000	27,750	30,869	35,000	34,000	40,360	43,550	33,460	27,580	30,000 - Median
	---	24,500	22,000	24,000	24,250	24,750	27,500	32,600	---	27,500	26,040	25,000 - 25th %ile
	---	25,033	24,989	28,917	30,218	33,080	33,078	39,635	43,550	32,737	27,790	31,225 - Mean
	---	551	3,376	6,039	7,617	8,072	6,050	8,140	9,122	7,738	2,017	7,864 - Std. Dev.
	0	3	13	18	14	5	9	13	2	6	4	87 - Count
(3-7)	---	24,575	27,750	33,000	41,550	39,063	47,000	50,000	42,000	54,075	50,000	40,800
	---	23,150	25,594	29,250	35,000	34,000	40,000	39,075	38,500	36,500	41,250	35,200
	---	20,075	22,625	25,332	28,625	31,475	30,000	33,900	31,250	30,000	33,000	27,000
	---	22,600	25,411	29,038	34,937	35,101	40,718	41,295	36,424	41,040	40,928	34,541
	---	2,494	3,691	5,939	8,078	6,090	11,873	9,563	7,105	12,983	11,515	9,955
	0	4	28	42	30	20	25	30	17	10	9	215
(8-12)	---	---	34,000	38,000	42,000	47,150	45,000	51,450	---	65,500	55,000	44,000
	---	21,500	31,000	31,650	38,500	42,000	37,500	39,000	36,500	43,762	45,000	37,260
	---	---	25,725	29,458	27,000	36,875	35,000	35,500	---	34,250	35,000	32,000
	---	21,500	30,630	32,880	36,034	45,070	39,184	47,371	36,500	52,003	45,000	39,460
	---	2,121	5,251	6,010	8,025	11,526	6,677	23,957	---	24,681	10,000	14,445
	0	2	10	16	11	10	21	13	1	8	3	95
(13-17)	---	---	---	48,000	50,000	46,750	48,500	48,000	---	---	---	48,900
	---	21,000	27,712	43,800	40,400	35,600	40,000	43,100	45,000	50,400	52,500	40,400
	---	---	---	28,000	38,000	32,550	38,850	36,000	---	---	---	34,350
	---	21,000	27,712	39,471	41,943	38,300	42,940	42,857	45,000	50,400	52,500	40,879
	---	---	2,421	10,204	12,003	8,064	6,864	9,208	---	849	---	9,945
	0	1	2	7	7	4	5	7	1	2	1	37
(18-22)	---	---	---	38,625	54,000	---	69,000	53,000	---	49,000	---	49,250
	---	---	---	36,100	37,000	40,500	42,450	43,000	56,750	41,000	49,500	39,500
	---	---	---	35,000	28,000	---	33,000	35,990	---	33,000	---	35,000
	---	---	---	36,950	39,667	40,500	48,150	44,196	56,750	41,000	49,500	42,925
	---	---	---	2,641	13,204	10,607	18,665	8,678	24,395	8,000	---	11,183
	0	0	0	6	3	2	3	5	2	3	1	25
(23-32)	---	---	---	---	49,500	---	65,250	51,913	---	---	---	51,150
	---	23,700	30,000	31,250	45,000	47,050	51,800	42,000	---	---	54,000	43,800
	---	---	---	---	33,750	---	29,050	34,250	---	---	---	33,250
	---	23,700	30,000	31,250	42,300	47,050	48,700	42,481	---	---	54,000	42,574
	---	---	---	8,132	8,136	4,313	19,051	8,873	---	---	5,657	11,529
	0	1	1	2	5	2	4	9	0	0	2	26
(33-47)	---	---	---	31,200	---	---	---	64,000	69,500	67,500	---	60,200
	---	---	---	31,020	27,000	51,500	60,400	50,000	58,500	57,500	60,000	53,000
	---	---	---	28,560	---	---	---	46,000	53,500	43,750	---	42,000
	---	---	---	30,260	27,000	51,500	60,400	54,000	60,500	56,250	60,000	51,342
	---	---	---	1,475	---	707	---	10,025	8,583	12,500	---	13,503
	0	0	0	3	1	2	1	5	4	4	1	21
(48-67)	---	---	---	---	69,500	---	---	65,000	---	---	---	65,000
	---	---	---	35,000	52,000	50,000	52,250	65,000	---	100,000	---	52,000
	---	---	---	42,750	---	---	---	35,000	---	---	---	41,125
	---	---	---	35,000	54,750	50,000	52,250	55,000	---	100,000	---	56,125
	---	---	---	---	14,660	---	10,960	17,321	---	---	---	18,623
	0	0	0	1	4	1	2	3	0	1	0	12
(68-99)	---	---	---	---	---	---	59,500	72,000	---	---	---	61,963
	---	---	---	28,500	---	65,000	50,000	46,800	61,925	55,000	38,000	52,500
	---	---	---	---	---	---	42,000	38,000	---	---	---	39,000
	---	---	---	28,500	---	65,000	50,500	52,267	61,925	55,000	38,000	51,554
	---	---	---	---	---	---	8,761	17,647	106	---	---	13,157
	0	0	0	1	0	1	3	3	2	1	1	12
(>=100)	---	---	---	---	---	---	180,000	65,000	80,000	---	---	80,000
	---	---	---	33,250	56,500	72,000	100,000	52,500	60,000	65,000	---	60,000
	---	---	---	---	---	---	45,000	31,000	60,000	---	---	40,000
	---	---	---	33,250	56,500	72,000	106,286	49,500	66,667	65,000	---	74,158
	---	---	---	2,475	28,991	---	64,173	17,197	11,547	---	---	46,958
	0	0	0	2	2	1	7	3	3	1	0	19
TOTAL	---	25,000	29,000	35,000	42,000	46,150	49,200	50,000	58,750	55,000	53,125	44,000
	---	23,300	26,000	30,650	36,000	37,000	40,350	40,360	42,000	42,528	42,625	36,000
	---	21,000	23,600	26,270	30,000	33,315	33,250	35,000	36,650	33,250	30,000	29,462
	---	23,018	26,446	31,097	37,021	40,342	46,911	44,105	45,848	46,990	41,932	38,913
	---	2,140	4,359	6,726	11,174	10,900	27,676	13,247	14,476	18,612	11,841	16,410
	0	11	54	98	77	48	80	91	32	36	22	549

TABLE-3.2.3

SALARIES of FULL-TIME EMPLOYED Ph.D. CHEMISTS IN PRIVATE INDUSTRY
by TOTAL NUMBER OF SUBORDINATES and YEARS SINCE BS
1981 Survey of ACS Members

TOTAL SUBORDINATES	YEARS SINCE BS										No Resp	TOTAL
	(0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)		
(1-2)	---	---	32,000	36,385	40,250	44,000	50,400	50,500	49,700	55,000	42,500	43,000 - 75th %-ile
	---	---	30,000	34,000	36,250	41,850	43,000	45,000	47,000	39,500	35,000	36,940 - Median
	---	---	28,600	30,000	31,875	34,750	38,000	38,000	40,000	36,000	28,000	31,650 - 25th %-ile
	---	---	30,303	33,549	37,014	40,322	44,980	45,172	46,062	41,938	36,694	38,152 - Mean
	---	---	2,898	4,952	6,607	8,069	9,657	10,964	6,966	14,275	10,925	9,448 - Std.Dev.
	0	0	42	56	46	46	31	34	13	16	19	313 - Count
(3-7)	---	---	33,250	38,640	42,150	46,588	48,850	54,500	50,375	60,000	50,500	46,000
	---	31,000	30,500	34,000	37,560	40,000	43,250	50,000	44,250	51,000	37,000	38,975
	---	---	28,050	30,000	33,250	35,425	35,050	42,500	37,700	42,500	33,925	33,000
	---	31,000	34,815	34,691	37,983	41,761	44,402	50,971	43,977	52,036	45,207	41,061
	---	---	24,322	7,508	6,999	9,208	14,086	14,369	10,766	11,489	20,544	13,497
	0	1	37	94	101	84	56	51	30	19	25	498
(8-12)	---	---	37,150	45,675	44,532	48,752	55,250	57,000	64,500	70,000	68,250	52,000
	---	---	35,640	38,500	39,000	42,000	48,250	47,000	55,000	54,000	49,500	44,000
	---	---	30,550	36,000	35,750	40,000	45,000	40,000	42,500	45,000	41,900	38,500
	---	---	34,208	41,950	40,010	45,929	48,981	51,819	54,165	57,200	54,956	46,721
	---	---	4,742	9,850	6,418	10,004	7,881	23,656	12,918	14,594	18,882	13,732
	0	0	5	22	49	36	22	23	17	15	9	198
(13-17)	---	---	---	43,008	47,000	54,250	64,000	60,000	54,750	63,000	60,500	52,750
	---	---	---	39,750	44,090	44,000	46,000	53,000	52,500	38,000	45,000	44,625
	---	---	---	34,875	39,850	41,500	40,000	49,250	50,250	27,700	39,000	40,000
	---	---	37,250	40,018	43,850	47,078	51,337	53,343	52,500	42,900	48,800	46,284
	---	---	---	7,466	6,347	8,200	14,040	19,161	2,380	18,153	13,161	11,621
	0	0	1	18	22	18	7	14	4	3	5	92
(18-22)	---	---	---	46,000	51,500	55,000	71,175	60,000	72,250	64,000	59,000	55,750
	---	---	---	45,000	45,900	51,000	59,000	51,360	54,500	51,500	42,450	49,850
	---	---	---	37,000	40,000	45,344	52,750	48,000	45,975	48,775	21,250	44,118
	---	---	---	44,551	46,300	52,172	60,975	53,639	57,575	54,758	40,590	50,321
	---	---	---	12,122	6,150	8,506	9,788	8,277	14,610	8,119	22,043	12,257
	0	0	0	11	6	8	4	11	4	3	5	52
(23-32)	---	---	---	52,610	55,500	53,575	57,500	58,800	74,500	71,685	---	60,000
	---	---	---	39,900	49,800	48,850	55,000	52,678	67,000	62,500	64,000	52,500
	---	---	---	31,100	42,000	45,750	48,000	49,350	47,500	48,500	---	45,000
	---	---	---	41,464	49,873	51,428	53,429	53,618	64,000	59,058	64,000	53,625
	---	---	---	11,458	11,037	7,840	6,058	8,066	14,550	16,313	5,657	11,855
	0	0	0	5	15	18	7	10	8	10	2	75
(33-47)	---	---	---	---	57,750	65,500	63,000	67,500	60,000	---	---	61,475
	---	---	---	---	53,000	50,000	60,000	54,000	59,150	50,650	54,500	55,000
	---	---	---	---	47,500	47,500	52,000	42,000	55,825	---	---	48,270
	---	---	---	---	52,700	54,058	57,873	53,969	58,325	50,650	54,500	55,092
	---	---	---	---	5,762	14,519	8,045	14,664	2,357	919	2,121	10,619
	0	0	0	0	5	11	11	9	4	2	2	44
(48-67)	---	---	---	---	61,610	60,000	68,000	78,000	100,000	---	---	69,850
	---	---	---	---	53,000	51,000	55,400	52,000	67,750	62,300	77,500	57,150
	---	---	---	---	49,750	51,000	50,000	58,250	11,500	---	---	51,750
	---	---	---	---	53,000	54,744	54,889	56,667	71,146	57,933	77,500	60,831
	---	---	---	---	8,647	4,724	9,866	17,917	44,411	3,536	---	16,225
	0	0	0	1	5	11	3	8	3	2	1	34
(68-99)	---	---	---	---	70,000	86,500	68,750	92,000	65,000	69,238	---	69,000
	---	---	---	---	54,000	62,000	64,000	64,210	63,312	67,000	33,000	62,000
	---	---	---	---	41,000	50,500	54,750	60,105	60,650	60,000	---	54,000
	---	---	---	---	56,429	67,200	62,500	72,105	62,987	65,413	33,000	62,504
	---	---	---	---	14,752	21,088	7,506	18,957	2,193	4,819	---	15,218
	0	0	0	0	7	5	4	4	3	3	1	27
(>=100)	---	---	---	---	84,500	107,500	88,500	96,100	90,000	152,500	---	98,500
	---	---	---	---	49,366	65,000	102,000	75,000	65,000	88,000	102,500	75,000
	---	---	---	---	47,750	50,250	67,375	67,175	53,500	72,500	---	63,750
	---	---	---	---	49,366	65,833	83,500	85,500	86,488	70,318	107,822	84,145
	---	---	---	---	7,589	22,040	30,757	31,977	33,959	29,603	49,292	34,891
	0	0	0	2	6	5	16	27	11	9	2	78
TOTAL	---	---	33,000	40,000	45,900	50,000	60,000	62,800	62,650	65,588	53,000	53,000
	---	31,000	30,300	35,200	40,000	44,000	48,000	51,000	51,000	55,000	42,450	42,500
	---	---	28,550	31,500	35,000	39,000	40,000	44,472	43,000	43,250	34,350	35,000
	---	31,000	32,578	36,382	41,285	46,110	51,928	56,956	53,204	58,831	46,672	46,266
	---	---	16,245	8,314	9,970	12,683	18,907	23,102	17,503	27,206	20,621	18,225
	0	1	85	219	262	242	161	191	97	82	71	1,411

TABLE-3.3.1

SALARIES of FULL-TIME EMPLOYED B.S. CHEMISTS IN PRIVATE INDUSTRY
by SUBORDINATES (PROFESSIONALS + TECHNICIANS) and YEARS SINCE BS
1981 Survey of ACS Members

SUBORDINATES (Prof's + Techs)	YEARS SINCE BS										No Resp	TOTAL
	(0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)		
None	---	---	21,000	---	32,500	---	33,750	40,250	---	75,000	---	35,000 - 75th %-ile
	---	32,000	18,500	18,000	24,464	24,000	27,800	34,500	27,000	48,000	---	28,000 - Median
	---	---	18,300	---	22,000	---	25,300	29,400	---	26,000	---	22,000 - 25th %-ile
	---	32,000	19,267	18,000	26,693	24,000	28,950	35,200	27,000	49,667	---	30,587 - Mean
	---	---	1,504	---	5,499	---	4,582	8,546	12,728	24,542	---	12,395 - Std. Dev.
	0	1	3	1	5	1	4	6	2	3	0	26 - Count
(1-2)	19,875	21,602	26,430	34,050	39,180	38,250	35,000	42,000	48,000	48,750	---	36,030
	15,425	20,080	22,000	29,000	35,000	30,125	31,500	33,490	39,000	37,940	32,280	28,400
	13,338	17,025	19,000	25,425	27,000	26,625	25,000	29,955	30,125	31,250	---	21,789
	16,213	19,590	22,327	29,491	34,185	32,458	31,432	44,553	46,673	41,291	32,280	31,416
	3,502	3,116	4,929	6,774	7,871	8,305	7,701	40,622	33,784	14,758	---	19,983
	4	20	39	24	15	18	15	24	12	14	1	186
(3-7)	---	21,625	28,394	34,250	34,650	43,500	47,000	41,790	46,000	43,875	---	38,000
	---	19,775	24,000	29,000	30,500	35,000	41,000	36,120	35,000	34,500	30,570	30,200
	---	18,740	21,000	24,500	29,350	29,625	30,250	30,135	28,000	31,225	---	24,400
	---	21,115	25,454	29,667	32,372	36,078	40,366	38,244	36,248	37,977	30,570	32,346
	---	4,258	7,402	6,805	9,941	9,900	12,080	11,931	10,755	10,887	12,685	10,987
	0	20	65	57	37	28	27	60	19	14	2	329
(8-12)	---	30,750	32,100	40,880	42,500	41,000	48,500	48,000	81,250	42,250	---	44,000
	35,000	20,000	26,220	33,000	37,000	33,000	41,500	43,000	51,500	35,500	---	37,000
	---	19,072	22,650	28,590	34,000	28,000	35,750	32,000	44,500	26,700	---	29,550
	35,000	25,398	27,829	34,717	39,047	34,387	43,230	40,221	59,420	36,158	---	37,989
	---	10,156	6,412	7,960	8,703	10,231	13,068	9,039	21,489	10,348	---	13,132
	1	9	13	17	15	15	14	31	10	8	0	133
(13-17)	---	---	32,700	36,500	---	60,000	39,726	54,000	53,750	---	---	48,750
	---	22,000	23,000	32,100	27,600	40,000	38,000	45,000	45,000	---	---	40,000
	---	---	18,900	29,150	---	37,500	30,770	42,000	34,375	---	---	32,050
	---	22,000	26,086	32,680	27,600	45,833	35,798	49,289	44,375	---	---	40,580
	---	---	7,357	4,483	---	12,332	5,175	15,989	10,078	---	---	14,859
	0	1	7	5	1	3	5	19	4	0	0	45
(18-22)	---	---	---	47,725	---	51,250	41,000	60,000	---	---	---	46,900
	---	22,250	17,192	44,850	39,500	40,300	36,000	51,900	---	70,500	---	39,800
	---	---	---	36,000	---	37,637	29,620	32,500	---	---	---	31,250
	---	22,250	17,192	42,333	39,500	44,964	35,448	48,000	---	70,500	---	41,157
	---	1,061	11,444	7,129	---	12,630	6,888	14,989	---	27,577	---	15,919
	0	2	4	6	1	6	5	4	0	2	0	28
(23-32)	---	---	33,000	---	50,800	55,000	72,000	68,000	55,500	---	---	50,000
	---	---	24,150	33,500	35,100	49,600	47,000	47,000	46,500	56,200	---	40,500
	---	---	20,925	---	34,000	39,500	37,500	35,650	35,250	---	---	34,800
	---	---	26,025	33,500	42,614	47,720	53,200	50,860	45,600	56,200	---	44,820
	---	---	6,611	707	15,621	9,154	21,788	21,146	12,028	12,445	---	16,173
	0	0	4	2	7	5	5	5	5	2	0	35
(33-47)	---	---	---	---	50,000	---	---	52,000	68,400	---	---	60,000
	---	---	---	48,000	40,000	45,000	32,000	45,500	60,000	60,000	---	50,000
	---	---	---	36,000	---	---	---	37,950	50,400	---	---	37,600
	---	---	---	48,000	42,000	45,000	32,000	45,150	59,600	60,000	---	47,893
	---	---	---	22,627	7,211	---	---	7,930	9,007	---	---	11,711
	0	0	0	2	3	1	1	4	3	1	0	15
(48-67)	---	---	---	---	---	---	---	---	---	---	---	82,500
	---	---	---	---	---	67,250	43,800	53,500	100,000	---	---	52,000
	---	---	---	---	---	---	---	---	---	---	---	48,000
	---	---	---	---	---	67,250	43,800	53,500	100,000	---	---	61,300
	---	---	---	---	---	21,567	5,940	2,121	---	---	---	21,632
	0	0	0	0	0	2	2	2	1	0	0	7
(68-99)	---	---	---	---	---	---	100,000	60,000	---	---	---	61,500
	---	---	---	---	---	---	63,000	52,000	56,000	55,850	---	56,000
	---	---	---	---	---	---	49,000	49,950	---	---	---	50,825
	---	---	---	---	---	---	70,667	53,983	56,000	55,850	---	60,183
	---	---	---	---	---	---	26,350	5,310	---	5,869	---	15,731
	0	0	0	0	0	0	3	3	1	2	0	9
(>=100)	---	---	---	---	---	---	---	156,000	---	---	---	100,500
	---	---	---	---	48,000	60,000	60,000	100,000	83,000	---	---	90,000
	---	---	---	---	---	---	---	90,000	---	---	---	60,000
	---	---	---	---	48,000	60,000	60,000	118,400	83,000	---	---	92,600
	---	---	---	---	---	---	---	51,988	24,042	---	---	45,967
	0	0	0	0	1	1	1	5	2	0	0	10
TOTAL	28,000	22,000	27,500	35,875	39,340	44,000	46,250	48,000	53,000	53,125	39,540	41,800
	16,500	20,000	23,500	30,000	34,000	36,950	38,500	39,500	43,000	40,000	32,280	32,500
	13,675	18,550	20,350	26,275	27,300	29,425	30,188	32,000	32,700	31,225	21,600	25,100
	19,970	21,532	24,556	31,469	34,931	37,745	40,198	44,456	47,514	42,894	31,140	35,839
	8,933	5,683	6,808	8,103	10,251	12,024	14,333	24,740	23,156	15,390	9,024	17,409
	5	53	133	114	85	80	82	163	59	46	3	823

TABLE-3.3.3

SALARIES of FULL-TIME EMPLOYED Ph.D. CHEMISTS IN PRIVATE INDUSTRY
by SUBORDINATES (PROFESSIONAL + TECHNICIANS) and YEARS SINCE BS
1981 Survey of ACS Members

SUBORDINATES (Prof's + Techs)	YEARS SINCE BS										TOTAL	
	(0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)		No Resp
None	---	---	---	---	---	46,374	---	---	---	---	---	45,687 - 75th %ile
	---	---	29,750	---	33,000	36,000	40,360	---	45,000	---	47,000	36,000 - Median
	---	---	---	---	30,000	---	---	---	---	---	---	30,500 - 25th %ile
	---	---	29,750	---	33,000	37,458	40,360	---	45,000	---	47,000	37,470 - Mean
	---	---	1,768	---	---	8,284	---	---	---	---	---	7,377 - Std. Dev.
	0	0	2	0	1	3	1	0	1	0	1	9 - Count
(1-2)	---	---	32,000	36,570	40,750	44,000	50,400	51,500	49,550	56,500	40,200	43,000
	---	31,000	30,000	33,509	36,250	41,700	43,000	45,000	46,500	40,000	35,000	36,970
	---	---	28,605	29,700	31,125	34,500	38,000	38,000	39,600	36,000	28,000	31,350
	---	31,000	30,330	33,513	36,774	40,149	44,968	45,051	45,486	43,177	36,246	38,171
	---	---	2,955	6,236	7,315	8,055	9,947	11,007	7,031	14,736	10,650	9,728
	0	1	40	73	52	49	35	36	14	17	19	336
(3-7)	---	---	33,125	39,090	42,400	46,588	50,000	54,000	50,750	58,500	49,250	46,650
	---	---	30,400	34,000	38,000	41,100	43,750	48,500	44,500	51,000	36,500	39,000
	---	---	27,725	30,938	33,750	35,655	35,150	42,000	37,400	40,000	33,063	33,500
	---	---	34,586	35,268	38,497	42,147	44,778	52,119	44,270	49,290	43,845	41,497
	---	---	24,033	7,689	6,831	9,166	14,133	19,453	10,913	12,756	21,558	14,374
	0	0	38	90	101	80	54	55	29	22	26	495
(8-12)	---	---	37,875	45,000	44,532	50,000	53,750	57,000	65,250	72,000	76,125	52,375
	---	---	35,670	39,000	39,500	42,000	48,250	46,000	55,100	55,000	50,750	44,000
	---	---	35,160	36,000	36,000	40,000	45,000	40,020	42,250	45,000	42,000	38,850
	---	---	36,235	41,116	40,199	46,577	48,891	48,017	54,581	58,800	56,475	46,662
	---	---	1,608	7,687	6,308	10,136	7,820	10,457	13,223	15,184	19,588	11,670
	0	0	4	23	45	39	22	20	16	15	8	192
(13-17)	---	---	---	42,675	46,850	54,500	66,000	60,000	55,000	63,000	55,750	53,875
	---	---	37,250	39,500	44,090	45,000	53,200	53,250	54,000	51,500	44,000	45,000
	---	---	34,750	39,850	41,500	42,750	48,225	48,225	50,500	38,000	34,500	40,000
	---	---	37,250	39,562	43,821	47,200	54,722	54,425	53,000	50,833	46,167	47,230
	---	---	---	7,338	6,342	7,907	12,970	18,733	2,345	12,513	13,423	11,900
	0	0	1	17	22	17	9	16	5	3	6	96
(18-22)	---	---	---	50,805	52,500	56,800	71,175	66,000	99,000	64,000	60,500	56,800
	---	---	---	45,300	45,000	54,000	59,000	51,360	54,000	50,000	49,225	50,220
	---	---	---	34,000	42,500	45,000	52,750	49,700	44,150	48,775	38,363	45,000
	---	---	---	44,738	47,000	53,257	60,975	55,132	68,060	54,258	49,363	52,854
	---	---	---	13,192	5,701	8,925	9,788	8,508	32,168	8,459	11,610	14,639
	0	0	0	12	5	7	4	11	5	3	4	51
(23-32)	---	---	---	55,000	57,750	52,250	61,500	57,700	74,000	72,790	68,000	61,500
	---	---	---	53,000	49,800	48,700	55,000	50,355	64,000	65,000	60,000	53,250
	---	---	---	39,900	42,000	45,500	50,500	46,000	54,250	50,650	56,000	48,000
	---	---	---	49,300	49,854	51,112	55,889	51,306	64,500	62,431	61,333	54,945
	---	---	---	8,202	11,745	7,962	7,853	6,985	12,475	12,127	6,110	10,904
	0	0	0	3	13	17	9	9	9	9	3	72
(33-47)	---	---	---	---	56,375	65,500	64,000	74,290	64,156	---	---	65,000
	---	---	---	---	51,500	50,000	60,000	63,500	60,000	80,000	53,000	58,500
	---	---	---	---	43,250	47,500	51,000	55,125	56,650	---	---	50,000
	---	---	---	---	50,250	54,025	59,011	67,778	60,322	80,000	53,000	58,627
	---	---	---	---	7,910	14,504	9,110	19,270	3,979	---	---	13,758
	0	0	0	0	6	11	9	8	5	1	1	41
(48-67)	---	---	---	---	70,000	60,000	---	76,250	97,500	---	---	70,000
	---	---	---	44,000	52,110	55,400	52,000	67,750	76,150	---	69,800	56,500
	---	---	---	---	49,875	51,000	---	55,917	24,200	---	---	51,000
	---	---	---	44,000	57,287	55,980	52,000	66,695	65,950	---	69,800	59,642
	---	---	---	---	9,930	7,299	---	10,479	39,648	---	---	15,904
	0	0	0	1	6	11	1	6	4	0	1	30
(68-99)	---	---	---	---	71,000	90,500	---	78,750	65,000	69,238	---	69,119
	---	---	---	---	54,000	59,500	68,500	65,500	64,000	67,000	---	64,000
	---	---	---	---	45,500	47,625	---	60,105	60,650	60,000	---	58,500
	---	---	---	---	57,400	65,875	68,500	69,490	63,217	65,413	---	65,172
	---	---	---	---	13,939	23,911	707	15,529	2,278	4,819	---	14,031
	0	0	0	0	5	4	2	8	3	3	0	25
(>=100)	---	---	---	---	84,500	108,750	90,000	100,000	86,750	152,500	---	100,375
	---	---	---	---	65,000	103,500	72,000	76,000	65,500	88,000	102,500	76,000
	---	---	---	---	47,750	67,500	66,500	68,094	39,750	72,500	---	66,125
	---	---	---	---	65,833	93,250	86,200	90,576	63,500	107,822	102,500	87,657
	---	---	---	---	22,040	25,052	32,972	36,115	32,488	49,292	38,891	36,505
	0	0	0	0	6	4	15	22	6	9	2	64
TOTAL	---	---	33,000	40,000	45,900	50,000	60,000	62,800	62,650	65,588	53,000	53,000
	---	31,000	30,300	35,200	40,000	44,000	48,000	51,000	51,000	55,000	42,450	42,500
	---	---	28,950	31,500	35,000	39,000	40,000	44,472	43,000	43,250	34,350	35,000
	---	31,000	32,578	36,382	41,285	46,110	51,928	56,956	53,204	58,831	46,672	46,266
	---	---	16,245	8,314	9,970	12,683	18,907	23,102	17,503	27,206	20,621	18,225
	0	1	85	219	262	242	161	191	97	82	71	1,411

TABLE-3.4.1

SALARIES of B.S. CHEMISTS EMPLOYED FULL-TIME in PRIVATE INDUSTRY
by WORK FUNCTION and YEARS SINCE BS
1981 Survey of ACS Members

NON-ACADEMIC WORK FUNCTION	YEARS SINCE BS										No Resp	TOTAL	
	(0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)			
Mgt-R&D	---	30,875	35,300	39,925	39,500	41,800	44,000	50,000	71,300	49,525	---	45,000	- 75th %-ile
	20,800	23,675	26,200	34,200	34,000	38,182	39,780	42,000	52,700	38,690	39,540	38,000	- Median
	---	18,463	22,000	29,073	28,000	30,550	36,000	35,000	41,250	32,500	---	32,000	- 25th %-ile
	20,800	24,338	28,153	34,405	35,591	36,452	41,429	44,799	57,200	41,385	39,540	40,331	- Mean
	4,667	6,558	7,525	6,471	9,953	6,335	6,842	15,969	23,538	12,238	---	14,460	- Std. Dev.
	2	4	9	26	23	17	23	61	14	8	1	188	- Count
Basic research	21,830	21,500	24,000	31,000	34,325	33,000	54,000	47,250	---	48,125	---	30,000	
	17,800	18,000	21,000	28,961	31,140	31,000	40,000	38,850	45,938	43,500	---	22,660	
	15,875	16,400	19,250	24,000	22,905	22,000	30,000	28,750	---	28,250	---	18,450	
	18,657	18,954	21,649	28,305	29,667	28,667	42,986	37,950	45,938	39,917	---	25,964	
	3,190	3,264	4,404	5,755	5,788	5,859	18,405	9,910	2,917	10,022	---	10,746	
	6	35	20	13	6	3	7	6	2	6	0	104	
Applied R&D	20,500	22,000	26,732	29,350	32,000	36,050	37,588	39,750	41,000	40,375	---	32,000	
	18,000	20,052	22,700	25,766	27,440	29,955	31,500	33,587	31,800	33,360	32,280	25,500	
	16,250	17,916	19,500	22,900	22,988	26,475	26,748	29,850	27,000	26,535	---	20,700	
	19,019	20,087	23,168	26,940	28,382	31,179	31,711	34,013	34,863	35,824	32,280	27,120	
	3,876	3,457	5,301	5,800	6,878	6,114	6,628	7,958	11,786	11,900	---	8,297	
	13	75	117	73	48	40	37	52	23	20	1	499	
Mgt Non-R&D	---	22,625	29,100	36,500	42,500	60,000	63,000	52,000	61,500	61,875	---	50,000	
	35,000	20,000	25,165	29,500	35,000	48,000	48,000	45,000	48,000	42,350	---	38,500	
	---	18,125	20,200	24,750	26,300	34,500	32,000	35,000	36,313	29,650	---	27,585	
	35,000	23,125	24,998	31,386	38,235	46,841	51,067	52,639	55,490	47,350	---	43,406	
	---	10,340	5,057	11,025	14,384	15,022	23,005	36,190	31,220	20,493	---	24,843	
	1	8	15	16	19	22	15	31	17	14	0	158	
Marketing	---	27,250	27,303	35,850	45,875	44,000	47,750	41,388	50,570	45,000	---	41,000	
	26,450	21,750	24,900	33,600	35,500	35,832	36,000	37,750	40,000	40,000	---	33,600	
	---	18,849	20,700	27,600	30,500	30,000	33,850	30,750	36,250	34,000	---	26,430	
	26,450	22,567	25,020	32,747	40,827	36,447	39,540	37,935	42,730	40,291	---	34,340	
	3,465	5,971	5,541	7,931	14,782	8,478	7,051	8,883	9,226	8,940	---	11,184	
	2	18	28	17	22	19	10	22	12	17	0	167	
Prod & QC	21,225	21,188	24,250	32,075	34,000	37,125	37,000	34,925	40,250	47,400	27,000	30,630	
	20,500	19,100	22,000	28,150	29,000	30,800	32,000	30,000	28,620	32,000	23,774	24,500	
	18,000	17,700	18,700	24,250	23,800	28,250	26,700	27,500	23,500	24,500	21,600	21,000	
	19,790	19,181	22,490	29,029	29,010	32,940	32,511	32,550	32,039	35,826	24,125	26,799	
	1,668	3,065	6,469	7,736	6,037	9,767	8,173	8,661	9,825	13,330	2,717	8,949	
	5	52	89	32	28	24	31	37	17	7	3	325	
Forensic	18,805	20,225	23,970	25,000	37,738	32,340	32,500	36,180	38,000	60,000	---	30,000	
	14,000	18,350	21,650	23,460	34,500	28,700	28,000	28,662	32,680	36,500	---	24,000	
	12,750	15,300	18,585	21,000	30,650	24,300	27,000	25,100	25,590	32,000	---	19,000	
	15,422	18,905	21,325	23,248	33,806	28,762	29,167	32,375	32,090	42,833	---	25,028	
	3,407	5,860	4,243	3,599	4,955	4,870	2,930	10,846	6,446	15,036	---	8,702	
	5	20	24	15	8	9	3	12	4	3	0	103	
Writing/ editing	---	---	---	---	---	---	27,200	---	32,000	---	---	34,050	
	22,000	---	20,250	32,200	39,600	20,774	26,070	45,650	32,000	---	---	26,850	
	---	---	---	---	---	---	25,200	---	24,000	---	---	23,500	
	22,000	---	20,250	32,200	39,600	20,774	26,157	45,650	29,333	---	---	29,489	
	---	---	8,839	---	---	---	1,003	6,152	4,619	---	---	9,318	
	1	0	2	1	1	1	3	2	3	0	0	14	
Data Proc	---	---	---	---	---	---	---	---	---	---	---	30,000	
	---	25,500	18,500	---	---	---	---	---	---	---	---	25,500	
	---	---	---	---	---	---	---	---	---	---	---	18,500	
	---	25,500	18,500	---	---	---	---	---	---	---	---	24,667	
	0	1	1	0	0	1	0	0	0	0	0	5,795	
	---	---	---	---	---	---	---	---	---	---	---	3	
Consulting	---	---	24,000	---	---	---	---	80,000	---	---	---	42,000	
	---	---	23,800	26,200	---	30,000	42,000	43,693	---	---	---	30,400	
	---	---	---	---	---	---	---	35,446	---	---	---	23,800	
	---	---	23,067	26,200	---	30,000	42,000	53,046	---	---	---	36,890	
	---	---	1,447	5,940	---	---	---	25,515	---	---	---	19,779	
	0	0	3	2	0	1	1	4	0	0	0	11	
Other	---	23,850	29,000	41,300	---	---	---	53,850	48,000	---	---	34,700	
	14,350	19,900	25,200	28,675	37,000	25,924	---	34,800	38,000	61,000	25,000	28,500	
	---	13,075	21,000	20,588	---	---	---	31,470	28,750	---	---	22,511	
	14,350	18,917	24,929	30,188	37,000	25,924	---	41,150	38,250	61,000	25,000	31,662	
	---	5,969	4,780	11,069	11,314	4,350	---	17,058	10,308	41,012	0	15,850	
	1	6	7	4	2	2	0	8	4	2	2	38	
No Response	---	22,000	24,800	32,500	29,600	40,500	50,500	88,000	61,250	53,750	---	41,760	
	15,200	20,000	23,348	28,975	22,000	27,750	43,500	31,500	43,500	44,500	---	29,600	
	---	19,632	19,400	26,700	18,000	24,375	31,380	25,750	34,500	40,880	---	22,000	
	15,200	20,529	22,907	30,125	23,200	30,875	41,452	64,337	46,667	46,752	---	36,092	
	3,960	2,664	4,246	5,096	5,892	9,114	10,158	70,611	13,630	6,645	---	30,400	
	2	9	7	6	3	4	5	8	6	5	0	55	
TOTAL	21,293	22,000	25,850	33,000	36,875	39,600	41,700	45,000	49,625	47,425	32,280	36,000	
	18,000	19,855	22,500	28,000	31,380	32,232	35,000	36,300	38,500	38,250	25,000	28,000	
	16,000	17,242	19,775	23,630	25,500	28,700	29,000	30,000	29,000	31,825	23,774	22,000	
	19,250	19,990	23,134	29,033	32,810	34,835	37,122	40,888	42,594	41,097	27,742	31,097	
	4,755	4,456	5,662	7,412	10,687	10,499	12,515	22,202	19,902	14,331	6,176	14,810	
	38	228	322	205	160	143	135	243	102	82	7	1,665	

TABLE-3.4.2

SALARIES of B.S. CHEMISTS EMPLOYED FULL-TIME in PRIVATE INDUSTRY--MEN Only
by WORK FUNCTION and YEARS SINCE BS
1981 Survey of ACS Members

NON-ACADEMIC WORK FUNCTION	YEARS SINCE BS										No Resp	TOTAL
	(0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)		
Mgt-R&D	---	32,000	36,919	39,925	39,625	41,800	44,250	50,000	71,300	49,525	---	45,000 - 75th %-ile
	24,100	27,500	27,100	34,200	33,450	38,182	39,890	42,030	52,700	38,690	39,540	39,000 - Median
	---	18,000	19,325	29,073	27,750	30,550	36,000	35,000	41,250	32,500	---	32,100 - 25th %-ile
	24,100	25,833	27,863	34,405	35,414	36,452	41,616	45,079	57,200	41,385	39,540	40,854 - Mean
	---	7,147	8,939	6,471	10,150	6,335	6,942	15,952	23,538	12,238	---	14,472 - Std. Dev.
	1	3	6	26	22	17	22	60	14	8	1	180 - Count
Basic research	23,600	22,000	24,000	31,500	35,775	---	54,000	47,500	---	48,750	---	32,775
	18,600	19,200	21,500	29,131	33,300	32,000	40,000	45,000	45,938	45,000	---	25,000
	17,000	16,845	19,250	25,650	30,210	---	30,000	28,850	---	35,500	---	20,000
	19,733	19,356	21,779	28,772	33,095	32,000	42,986	39,540	45,938	42,700	---	28,401
	3,443	3,299	4,661	5,748	2,967	1,414	18,405	10,189	2,917	8,213	---	11,654
	3	18	16	12	4	2	7	5	2	5	0	74
Applied R&D	21,000	22,019	27,240	30,000	33,000	36,400	37,950	40,000	48,000	40,375	---	32,258
	18,400	20,176	23,000	26,150	28,000	30,200	31,750	34,150	35,000	33,360	32,280	27,000
	17,600	17,987	19,650	22,688	23,125	27,000	27,600	29,900	28,440	26,535	---	22,000
	20,062	20,336	23,731	27,210	28,879	31,524	32,350	34,350	36,886	35,824	32,280	28,139
	4,729	3,652	5,575	5,994	7,062	5,860	6,323	7,995	11,674	11,900	---	8,467
	7	52	90	66	41	35	34	49	19	20	1	414
Mgt Non-R&D	---	23,000	29,175	37,250	42,125	58,750	63,000	54,000	62,250	61,875	---	50,000
	35,000	20,000	20,900	31,000	35,000	48,000	48,000	44,000	48,000	42,350	---	40,000
	---	17,500	19,825	26,250	26,280	35,000	32,000	36,128	34,219	29,650	---	28,000
	35,000	23,571	23,650	32,570	36,470	46,481	51,067	53,893	55,833	47,350	---	44,259
	---	11,085	5,573	10,994	12,507	14,410	23,005	36,116	32,211	20,493	---	25,227
	1	7	10	14	18	20	15	30	16	14	0	145
Marketing	---	28,000	27,625	36,000	46,750	44,750	47,750	41,592	50,570	45,000	---	42,000
	24,000	24,000	25,000	33,600	37,000	35,982	36,000	38,000	40,000	40,000	---	34,000
	---	20,000	22,750	27,000	30,900	30,930	33,850	30,750	36,250	34,000	---	28,500
	24,000	24,871	25,474	32,933	41,581	38,141	39,540	38,265	42,730	40,291	---	35,762
	---	5,557	4,876	8,375	14,707	7,344	7,051	8,963	9,226	8,940	---	10,868
	1	12	22	15	21	16	10	21	12	17	0	147
Prod & QC	21,000	21,723	24,500	32,495	34,750	38,750	38,400	34,925	40,500	53,700	---	32,000
	18,000	19,000	22,500	28,000	29,800	32,400	32,000	30,000	28,620	34,000	25,387	26,000
	18,000	17,700	19,400	24,500	23,800	30,000	27,120	27,500	25,000	31,000	---	21,000
	19,000	19,290	22,928	29,510	29,529	34,922	32,884	32,550	32,455	40,680	25,387	27,572
	1,732	3,048	6,766	7,732	6,264	8,722	8,215	8,661	10,078	12,772	2,281	9,155
	3	43	75	29	24	21	29	37	15	5	2	283
Forensic	---	20,190	22,200	25,750	38,875	33,510	32,500	36,240	35,000	60,000	---	30,360
	14,710	18,100	21,000	23,730	35,225	29,350	28,000	30,000	30,360	36,500	---	24,600
	---	15,075	17,900	21,149	32,925	25,425	27,000	25,400	24,000	32,000	---	19,860
	14,710	19,327	20,590	24,021	35,442	29,598	29,167	33,136	29,787	42,833	---	26,370
	3,125	6,854	3,841	3,121	3,616	4,464	2,930	11,034	5,522	15,036	---	9,138
	2	12	15	12	6	8	3	11	3	3	0	75
Writing/ editing	---	---	---	---	---	---	---	---	---	---	---	43,475
	---	---	20,250	---	---	---	27,200	45,650	32,000	---	---	29,600
	---	---	---	---	---	---	---	---	---	---	---	23,375
	---	---	20,250	---	---	---	27,200	45,650	32,000	---	---	31,833
	---	---	8,839	---	---	---	---	6,152	---	---	---	12,551
	0	0	2	0	0	0	1	2	1	0	0	6
Data Proc	---	---	---	---	---	---	---	---	---	---	---	---
	---	25,500	---	---	---	30,000	---	---	---	---	---	27,750
	---	---	---	---	---	---	---	---	---	---	---	---
	---	25,500	---	---	---	30,000	---	---	---	---	---	27,750
	0	1	0	0	0	1	0	0	0	0	0	3,182
	0	0	0	0	0	0	0	0	0	0	0	2
Consulting	---	---	---	---	---	---	---	80,000	---	---	---	46,000
	---	---	21,400	26,200	---	30,000	42,000	43,693	---	---	---	34,800
	---	---	---	---	---	---	---	35,446	---	---	---	26,000
	---	---	21,400	26,200	---	30,000	42,000	53,046	---	---	---	39,776
	0	0	1	2	0	1	1	25,515	---	---	---	20,915
	0	0	1	2	0	1	1	4	0	0	0	9
Other	---	24,700	30,000	41,300	---	---	---	53,850	48,000	---	---	35,000
	---	18,300	25,250	28,675	37,000	25,924	---	34,800	38,000	61,000	25,000	29,000
	---	12,150	20,750	20,588	---	---	---	31,470	28,750	---	---	25,000
	---	18,400	25,583	30,188	37,000	25,924	---	41,150	38,250	61,000	25,000	32,751
	---	6,522	4,880	11,069	11,314	4,350	---	17,058	10,308	41,012	0	16,030
	0	5	6	4	2	2	0	8	4	2	2	35
No Response	---	22,000	28,650	32,500	29,600	40,500	52,750	88,000	60,000	53,750	---	44,250
	---	21,250	23,374	28,975	22,000	27,750	39,110	31,500	49,500	44,500	---	30,000
	---	19,573	22,337	26,700	18,000	24,375	30,960	25,750	35,000	40,880	---	23,700
	---	20,941	24,787	30,125	23,200	30,875	40,940	64,337	48,167	46,752	---	39,353
	---	1,323	3,798	5,096	5,892	9,114	11,655	70,611	12,553	6,645	---	33,762
	0	4	4	6	3	4	4	8	3	5	0	41
TOTAL	23,700	22,000	26,400	33,394	37,100	40,000	42,000	45,000	50,000	47,500	34,095	38,100
	18,500	20,000	23,000	28,000	32,000	33,000	35,660	36,504	40,000	40,000	26,000	30,000
	17,450	17,700	20,000	24,000	26,260	29,500	30,000	30,000	30,000	32,000	24,694	23,000
	20,508	20,442	23,447	29,482	33,263	35,688	37,713	41,371	43,880	41,729	28,766	32,547
	5,347	4,843	5,901	7,456	10,542	9,849	12,591	22,396	20,472	14,219	6,080	15,293
	18	157	247	186	141	127	126	235	89	79	6	1,411

TABLE-3.4.3

SALARIES of B.S. CHEMISTS EMPLOYED FULL-TIME in PRIVATE INDUSTRY--WOMEN Only
by WORK FUNCTION and YEARS SINCE BS
1981 Survey of ACS Members

NON-ACADEMIC WORK FUNCTION	YEARS SINCE BS										No Resp	TOTAL	
	(0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)			
Mgt-R&D	---	---	34,600	---	---	---	---	---	---	---	---	---	36,640 - 75th %ile
	17,500	19,850	26,200	---	39,500	---	37,320	28,000	---	---	---	---	27,100 - Median
	---	---	25,400	---	---	---	---	---	---	---	---	---	21,238 - 25th %ile
	17,500	19,850	28,733	---	39,500	---	37,320	28,000	---	---	---	---	28,546 - Mean
	---	---	5,096	---	---	---	---	---	---	---	---	---	7,991 - Std. Dev.
	1	1	3	0	1	0	1	1	0	0	0	0	8 - Count
Basic research	21,240	20,128	24,750	---	---	---	---	---	---	---	---	---	22,640
	16,000	17,700	20,750	22,700	22,810	22,000	---	30,000	---	26,000	---	---	19,828
	15,500	16,200	17,875	---	---	---	---	---	---	---	---	---	16,850
	17,580	18,528	21,125	22,700	22,810	22,000	---	30,000	---	26,000	---	---	18,660
	3,179	3,272	3,705	---	269	---	---	---	---	---	---	---	3,962
	3	17	4	1	2	1	0	1	0	1	0	0	30
Applied R&D	20,310	21,850	24,000	27,000	29,300	27,750	32,000	---	25,500	---	---	---	24,500
	17,900	20,075	20,400	24,000	25,000	25,500	22,400	31,000	22,500	---	---	---	21,576
	16,150	17,700	18,660	23,000	21,000	22,725	19,000	---	18,000	---	---	---	18,660
	18,164	19,663	21,293	24,394	25,471	25,325	24,467	31,000	22,000	---	---	---	21,761
	2,536	2,961	3,777	2,481	5,155	2,637	6,742	---	3,775	---	---	---	4,218
	5	22	2	7	7	4	3	1	3	0	0	0	79
Mgt Non-R&D	---	---	30,150	---	---	---	---	---	---	---	---	---	31,122
	---	20,000	27,000	23,100	70,000	30,887	---	15,000	50,000	---	---	---	28,050
	---	---	25,583	---	---	---	---	---	---	---	---	---	21,291
	---	20,000	27,693	23,100	70,000	30,887	---	15,000	50,000	---	---	---	30,879
	---	---	2,450	9,758	---	---	---	---	---	---	---	---	15,248
	0	1	5	2	1	1	0	1	1	0	0	0	12
Marketing	---	21,875	26,985	---	---	---	---	---	---	---	---	---	28,375
	28,900	17,750	20,575	28,200	25,000	23,203	---	31,000	---	---	---	---	21,250
	---	14,188	18,750	---	---	---	---	---	---	---	---	---	17,646
	28,900	17,958	23,355	28,200	25,000	23,203	---	31,000	---	---	---	---	22,633
	---	3,881	7,853	---	---	9,359	---	---	---	---	---	---	6,651
	1	6	6	1	1	2	0	1	0	0	0	0	18
Prod & QC	---	21,188	22,830	29,000	28,650	21,000	---	---	---	---	---	---	23,820
	20,975	20,330	20,550	28,300	26,800	20,000	32,220	---	21,840	23,690	21,600	---	21,000
	---	15,575	16,750	15,845	22,250	16,200	---	---	---	---	---	---	18,500
	20,975	18,740	20,144	24,382	25,900	19,067	32,220	---	21,840	23,690	21,600	---	21,305
	672	3,492	3,952	7,401	3,489	2,532	---	---	1,146	---	---	---	4,529
	2	8	14	3	4	3	1	0	1	2	1	1	39
Forensic	20,690	21,517	24,200	25,000	---	---	---	---	---	---	---	---	24,225
	14,000	18,378	22,200	19,000	28,900	22,080	---	24,000	39,000	---	---	---	21,250
	13,000	15,348	20,628	16,470	---	---	---	---	---	---	---	---	16,778
	15,897	18,271	22,551	20,157	28,900	22,080	---	24,000	39,000	---	---	---	21,435
	4,181	4,316	4,821	4,381	6,505	---	---	---	---	---	---	---	6,228
	3	8	9	3	2	1	0	1	1	0	0	0	28
Writing/editing	---	---	---	32,200	39,600	20,774	25,635	---	28,000	---	---	---	32,150
	22,000	---	---	---	---	---	---	---	---	---	---	---	25,635
	---	---	---	---	---	---	---	---	---	---	---	---	22,500
	22,000	---	---	32,200	39,600	20,774	25,635	---	28,000	---	---	---	27,731
	---	---	---	---	---	---	615	---	5,657	---	---	---	6,363
	1	0	0	1	1	1	2	0	2	0	0	0	8
Data Proc	---	---	18,500	---	---	---	---	---	---	---	---	---	18,500
	---	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	18,500	---	---	---	---	---	---	---	---	---	18,500
	0	0	1	0	0	0	0	0	0	0	0	0	1
Consulting	---	---	23,900	---	---	---	---	---	---	---	---	---	23,900
	---	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	23,900	---	---	---	---	---	---	---	---	---	23,900
	0	0	141	0	0	0	0	0	0	0	0	0	141
	---	---	2	---	---	---	---	---	---	---	---	---	2
Other	14,350	21,500	21,000	---	---	---	---	---	---	---	---	---	21,500
	---	---	---	---	---	---	---	---	---	---	---	---	21,000
	---	---	---	---	---	---	---	---	---	---	---	---	14,350
	14,350	21,500	21,000	---	---	---	---	---	---	---	---	---	18,950
	---	---	---	---	---	---	---	---	---	---	---	---	3,992
	1	1	1	0	0	0	0	0	0	0	0	0	3
No Response	---	22,750	24,800	---	---	---	---	---	---	---	---	---	29,250
	15,200	20,000	19,400	---	---	---	43,500	---	35,250	---	---	---	20,000
	---	17,750	17,000	---	---	---	---	---	---	---	---	---	17,500
	15,200	20,200	20,400	---	---	---	43,500	---	35,250	---	---	---	23,585
	3,960	3,546	3,995	---	---	---	---	---	3,182	---	---	---	9,152
	2	5	3	0	0	0	1	0	2	0	0	0	13
TOTAL	21,240	21,500	24,800	28,225	33,500	27,500	36,045	31,000	37,875	26,000	---	---	25,000
	17,900	19,812	21,000	24,500	25,000	22,080	29,035	29,000	28,750	24,500	21,600	---	21,450
	15,500	16,800	19,000	20,200	23,000	20,387	23,100	21,750	22,335	22,880	---	---	18,350
	18,229	19,040	22,103	24,093	29,443	23,127	29,714	26,500	30,334	24,460	21,600	---	22,434
	4,026	3,291	4,681	4,935	11,442	4,639	8,118	6,221	9,844	1,560	---	---	6,614
	19	69	75	18	19	13	8	6	10	3	1	---	241

TABLE-3.4.4

SALARIES of M.S. CHEMISTS EMPLOYED FULL-TIME in PRIVATE INDUSTRY
by WORK FUNCTION and YEARS SINCE BS
1981 Survey of ACS Members

NON-ACADEMIC WORK FUNCTION	YEARS SINCE BS										No Resp	TOTAL		
	(0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)				
Mgt-R&D	---	---	32,100	41,500	49,000	46,650	49,700	51,700	61,388	60,000	52,500	50,000	50,000	- 75th %-ile
	---	20,000	27,000	35,350	41,400	40,000	42,240	41,500	50,500	51,500	49,500	41,400	41,400	- Median
	---	---	25,650	28,125	36,830	33,750	36,000	37,500	41,250	42,500	45,000	35,000	35,000	- 25th %-ile
	---	20,000	28,644	42,916	42,925	40,089	43,997	44,480	51,084	53,654	48,000	43,999	43,999	- Mean
	---	---	5,806	40,009	7,410	7,662	10,110	10,632	11,213	18,148	6,934	17,993	17,993	- Std. Dev.
	0	1	9	24	21	22	25	42	16	14	7	181	181	- Count
Basic research	---	24,000	25,300	30,400	34,000	38,400	39,600	44,750	37,468	---	---	---	33,000	
	---	23,750	23,500	27,000	30,600	30,300	32,800	40,600	31,870	48,000	---	---	27,000	
	---	22,325	20,900	22,900	25,900	30,000	29,250	33,725	26,535	---	---	---	23,500	
	---	23,188	23,276	26,164	38,841	32,900	34,109	40,313	31,958	48,000	---	---	30,954	
	---	1,738	3,389	4,527	42,494	4,766	6,072	8,258	6,224	---	---	---	22,008	
	0	8	25	11	22	3	10	8	4	1	0	92		
Applied R&D	---	24,500	26,000	32,000	35,500	37,960	42,600	40,090	41,500	42,025	40,228	35,000	35,000	
	---	23,000	22,500	27,250	32,000	33,660	34,000	35,500	38,000	38,460	29,500	29,000	29,000	
	---	21,700	21,000	24,086	27,255	27,700	29,000	30,000	30,000	28,300	25,250	24,000	24,000	
	---	22,817	23,506	34,089	31,999	33,455	36,657	36,430	35,555	36,639	32,189	31,470	31,470	
	---	2,393	3,637	36,676	7,032	7,446	10,238	8,388	7,758	12,379	10,256	18,147	18,147	
	0	15	84	70	46	27	41	38	11	16	12	360	360	
Mgt Non-R&D	---	---	35,106	35,000	45,000	72,750	90,000	51,250	42,000	85,000	---	50,000	50,000	
	---	---	28,128	30,750	36,550	51,000	48,000	40,000	36,500	50,000	38,000	37,630	37,630	
	---	---	25,983	26,586	26,500	35,550	37,945	35,500	31,500	44,900	---	32,000	32,000	
	---	---	29,739	30,565	38,664	53,200	70,366	43,688	40,243	61,960	38,000	46,249	46,249	
	---	---	5,085	4,991	14,030	19,428	52,677	11,446	18,969	23,900	---	27,876	27,876	
	0	0	4	14	14	6	16	25	7	5	1	92	92	
Marketing	---	---	30,000	38,500	44,375	43,000	63,775	43,000	52,750	50,750	57,000	41,250	41,250	
	---	18,600	26,000	30,150	37,700	36,000	52,950	33,600	41,500	37,500	36,000	33,700	33,700	
	---	---	22,000	27,000	32,825	30,500	29,750	29,500	30,500	31,500	34,000	28,815	28,815	
	---	18,600	26,435	32,119	39,356	36,800	49,100	37,582	43,250	40,000	42,333	36,281	36,281	
	---	849	4,306	7,473	9,030	7,848	16,753	11,161	16,994	9,571	12,741	11,716	11,716	
	0	2	15	14	16	9	6	11	8	6	3	90	90	
Prod & QC	---	24,563	26,100	33,030	35,500	37,000	44,325	44,600	37,000	51,839	55,000	34,100	34,100	
	---	21,850	23,650	28,000	28,100	33,000	33,900	34,050	28,000	38,500	35,000	28,200	28,200	
	---	19,715	19,177	22,175	25,250	31,620	26,675	31,715	19,449	32,625	29,000	23,700	23,700	
	---	22,043	23,217	27,783	31,140	34,887	34,767	35,765	29,299	42,074	38,714	30,325	30,325	
	---	2,625	3,750	6,358	12,086	5,841	9,053	9,471	11,331	11,974	14,280	10,176	10,176	
	0	4	22	30	21	7	6	8	6	8	7	119	119	
Forensic	---	---	23,625	29,750	26,390	29,150	46,125	48,000	---	---	33,000	30,000	30,000	
	---	16,500	22,000	28,500	20,000	25,000	36,750	41,500	---	31,800	29,260	26,250	26,250	
	---	---	19,100	26,800	16,400	22,500	21,000	32,000	---	---	28,100	21,000	21,000	
	---	16,500	21,047	27,656	21,116	25,660	34,625	40,500	---	31,800	30,120	26,962	26,962	
	---	---	3,517	3,175	5,137	3,978	13,288	8,347	---	---	2,561	8,230	8,230	
	0	1	10	9	5	5	4	4	0	1	3	42	42	
Writing/ editing	---	---	---	37,000	---	---	---	---	70,500	---	---	37,000	37,000	
	---	25,000	20,050	29,410	---	29,550	35,190	28,400	---	39,780	20,100	28,400	28,400	
	---	---	---	25,000	---	---	---	---	---	---	---	23,800	23,800	
	---	25,000	20,050	30,470	---	29,550	35,190	28,400	---	44,693	20,100	31,238	31,238	
	---	---	71	6,070	---	2,475	7,509	---	---	23,735	---	12,723	12,723	
	0	1	2	3	0	2	2	1	0	3	1	15	15	
Data Proc	---	---	---	---	---	---	---	---	---	---	---	49,100	49,100	
	---	---	---	---	---	---	40,000	---	41,338	---	---	40,000	40,000	
	---	---	---	---	---	---	---	---	---	---	---	33,575	33,575	
	---	---	---	---	---	---	40,000	---	41,338	---	---	40,892	40,892	
	---	---	---	---	---	---	---	---	10,978	---	---	7,801	7,801	
	0	0	0	0	0	0	1	0	2	0	0	3	3	
Consulting	---	---	33,625	38,500	30,000	---	---	---	---	---	---	38,500	38,500	
	---	---	24,500	29,000	28,752	33,200	22,000	45,480	---	44,824	52,000	29,000	29,000	
	---	---	19,500	25,000	25,000	---	---	---	---	---	---	25,000	25,000	
	---	---	25,875	30,856	27,917	33,200	22,000	45,480	---	44,824	52,000	31,618	31,618	
	---	---	7,487	8,449	2,602	---	---	---	---	---	---	9,615	9,615	
	0	0	4	7	3	1	1	1	0	1	1	19	19	
Other	---	---	---	37,000	---	50,000	---	33,250	---	---	---	38,000	38,000	
	---	25,000	19,620	32,300	23,000	43,500	45,000	32,000	33,500	---	---	32,150	32,150	
	---	---	---	25,000	---	32,000	---	29,250	---	---	---	28,125	28,125	
	---	25,000	19,620	31,260	23,000	41,833	45,000	31,400	33,500	---	---	33,171	33,171	
	---	---	---	7,130	---	9,115	14,142	2,162	7,778	---	---	9,008	9,008	
	0	1	1	5	1	3	2	5	2	0	0	20	20	
No Response	---	---	25,500	35,275	37,500	50,100	38,750	100,975	---	---	---	36,550	36,550	
	---	19,100	24,210	30,400	28,000	36,000	29,000	42,950	34,000	---	21,000	29,000	29,000	
	---	---	21,975	27,700	22,500	30,000	28,250	26,700	---	---	---	24,210	24,210	
	---	19,100	23,953	31,125	29,600	41,500	32,000	56,875	34,000	---	21,000	34,434	34,434	
	---	---	2,738	4,077	8,849	21,076	6,683	43,277	---	---	---	19,718	19,718	
	0	1	6	4	5	7	4	4	1	0	1	33	33	
TOTAL	---	24,500	26,643	33,200	38,625	42,375	45,925	45,000	49,050	53,000	48,375	40,000	40,000	
	---	23,000	23,500	29,000	33,108	35,000	38,750	38,000	39,000	41,000	35,500	31,770	31,770	
	---	20,000	21,000	25,000	27,000	30,285	30,000	33,000	31,250	32,000	28,325	25,500	25,500	
	---	22,315	23,944	32,734	35,150	37,121	42,897	40,729	40,762	45,136	37,270	35,079	35,079	
	---	2,608	4,208	26,861	18,549	11,188	24,064	12,290	13,959	16,920	12,124	18,762	18,762	
	0	34	182	191	154	92	118	147	57	55	36	1,066	1,066	

TABLE-3.4.5

SALARIES of M.S. CHEMISTS EMPLOYED FULL-TIME in PRIVATE INDUSTRY--MEN Only
by WORK FUNCTION and YEARS SINCE BS
1981 Survey of ACS Members

NON-ACADEMIC WORK FUNCTION	YEARS SINCE BS										No Resp	TOTAL
	(0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)		
Mgt-R&D	---	---	32,200	42,900	49,500	45,650	50,000	51,900	61,388	60,000	52,500	50,000 - 75th %-ile
	---	20,000	26,000	37,500	41,700	39,875	42,450	42,000	50,500	51,500	49,500	42,000 - Median
	---	---	25,500	28,250	37,125	33,250	36,000	38,000	41,250	42,500	45,000	35,500 - 25th %-ile
	---	20,000	27,971	44,618	43,239	39,498	44,721	45,004	51,084	53,654	48,000	44,620 - Mean
	---	---	6,499	42,554	7,459	7,691	10,228	10,588	11,213	18,148	6,934	18,385 - Std. Dev.
	0	1	7	21	20	20	23	40	16	14	7	169 - Count
Basic research	---	24,300	24,000	30,400	33,750	38,400	41,200	44,750	---	---	---	33,225
	---	23,650	23,160	27,000	30,600	30,300	36,000	40,600	31,870	48,000	---	27,000
	---	21,375	20,900	22,900	25,700	30,000	28,250	33,725	---	---	---	23,500
	---	23,000	22,819	26,164	29,850	32,900	35,137	40,313	31,870	48,000	---	28,950
	---	2,009	2,872	4,527	4,787	4,766	6,433	8,258	7,396	---	---	7,599
	0	6	21	11	20	3	8	8	2	1	0	80
Applied R&D	---	25,000	26,790	32,000	35,510	38,168	45,000	40,180	42,125	42,025	37,160	35,510
	---	23,500	22,500	27,000	32,000	34,000	35,000	35,000	38,500	33,460	29,000	29,500
	---	21,925	21,000	24,000	27,830	27,850	29,000	31,000	28,500	28,300	25,000	24,158
	---	23,480	23,647	35,305	32,585	33,887	37,133	36,880	35,910	36,639	31,115	32,282
	---	1,577	3,826	40,557	6,547	7,543	10,544	8,404	8,082	12,379	10,024	19,410
	0	10	65	57	41	25	37	33	10	16	11	305
Mgt Non-R&D	---	---	35,106	35,000	45,000	73,500	100,000	52,500	48,875	85,000	---	50,750
	---	---	28,128	30,000	38,100	65,000	50,000	40,000	35,250	50,000	38,000	38,000
	---	---	25,983	26,172	27,750	35,600	40,000	36,000	28,425	44,900	---	32,000
	---	---	29,739	30,223	39,942	56,640	72,573	44,539	39,950	61,960	38,000	47,320
	---	---	5,085	5,022	14,740	19,572	53,754	11,404	20,762	23,900	---	28,918
	0	0	4	13	12	5	15	23	6	5	1	84
Marketing	---	---	30,000	39,000	45,000	43,000	64,850	43,000	52,750	50,750	---	42,250
	---	18,600	27,000	30,300	38,400	36,000	60,000	33,600	41,500	37,500	45,500	33,800
	---	---	23,500	27,630	32,500	30,500	37,450	29,500	30,500	31,500	---	29,000
	---	18,600	26,837	33,128	39,680	36,800	52,920	37,582	43,250	40,000	45,500	36,764
	---	849	4,166	6,712	9,250	7,848	15,536	11,161	16,994	9,571	16,263	11,760
	0	2	14	13	15	9	5	11	8	6	2	85
Prod & QC	---	24,563	25,122	33,260	38,655	37,000	44,325	44,600	41,000	51,839	55,000	35,300
	---	21,850	23,300	28,000	28,050	33,000	33,900	34,050	31,000	38,500	35,000	28,650
	---	19,715	19,177	21,400	25,375	31,620	26,675	31,715	22,500	32,625	29,000	23,775
	---	22,043	22,758	27,924	31,747	34,887	34,767	35,765	31,600	42,074	38,714	30,867
	---	2,625	3,417	6,661	12,846	5,841	9,053	9,471	10,991	11,974	14,280	10,512
	0	4	18	25	18	7	6	8	5	8	7	106
Forensic	---	---	24,000	29,875	26,390	---	46,125	49,000	---	---	33,000	30,300
	---	---	22,000	28,500	20,000	26,400	36,750	45,000	---	31,800	29,260	28,100
	---	---	19,800	27,750	16,400	---	21,000	30,000	---	---	28,100	21,500
	---	---	21,839	28,613	21,116	26,400	34,625	41,333	---	31,800	30,120	28,025
	---	---	2,877	1,450	5,137	7,637	13,288	10,017	---	---	2,561	8,328
	0	0	7	8	5	2	4	3	0	1	3	33
Writing/editing	---	---	---	---	---	---	---	---	70,500	---	---	39,780
	---	25,000	20,000	---	---	---	29,880	28,400	---	39,780	---	28,400
	---	---	---	---	---	---	---	---	---	23,800	---	23,800
	---	25,000	20,000	---	---	---	29,880	28,400	---	44,693	---	33,909
	0	1	1	0	0	0	1	1	0	23,735	---	17,296
										3	0	7
Data Proc	---	---	---	---	---	---	---	---	---	---	---	49,100
	---	---	---	---	---	---	40,000	---	41,338	---	---	40,000
	---	---	---	---	---	---	---	---	---	---	---	33,575
	---	---	---	---	---	---	40,000	---	41,338	---	---	40,892
	0	0	0	0	0	0	1	0	10,978	---	---	7,801
										2	0	3
Consulting	---	---	35,500	38,500	---	---	---	---	---	---	---	41,550
	---	---	21,000	29,000	26,876	33,200	22,000	45,480	---	44,824	52,000	29,000
	---	---	19,000	25,000	---	---	---	---	---	---	---	23,500
	---	---	25,167	30,856	26,876	33,200	22,000	45,480	---	44,824	52,000	31,926
	0	0	3	7	2	1	1	1	0	1	1	10,145
												17
Other	---	---	---	34,325	---	---	---	33,250	---	---	---	37,000
	---	---	19,620	31,150	23,000	46,750	45,000	32,000	33,500	---	---	32,300
	---	---	---	22,500	---	---	---	29,250	---	---	---	28,250
	---	---	19,620	29,325	23,000	46,750	45,000	31,400	33,500	---	---	33,378
	0	0	1	4	1	2	2	5	2	7,778	---	9,483
											0	17
No Response	---	---	27,300	36,700	40,250	58,825	---	120,000	---	---	---	39,350
	---	19,100	24,510	29,800	29,000	36,200	35,500	42,000	34,000	---	21,000	30,000
	---	---	20,955	27,000	20,750	31,500	---	21,600	---	---	---	24,510
	---	19,100	24,255	31,167	30,000	44,917	35,500	61,200	34,000	---	21,000	36,349
	---	---	3,443	4,992	10,165	20,856	9,192	51,934	---	---	---	22,088
	0	1	4	3	4	6	2	3	1	0	1	25
TOTAL	---	24,675	26,540	33,325	39,140	43,425	46,650	46,470	49,775	53,000	49,750	41,000
	---	23,000	23,500	28,800	33,900	35,550	40,000	38,125	39,750	41,000	35,000	32,500
	---	20,000	21,000	25,000	27,000	31,665	31,343	33,350	31,875	32,000	28,550	26,000
	---	22,491	24,010	33,423	34,392	38,043	44,160	41,192	41,684	45,136	37,625	35,852
	---	2,331	4,246	29,030	10,199	11,315	25,186	12,519	14,037	16,920	12,245	18,676
	0	25	145	162	138	80	105	136	52	55	33	931

TABLE-3.4.6

SALARIES of M.S. CHEMISTS EMPLOYED FULL-TIME In PRIVATE INDUSTRY--WOMEN Only
by WORK FUNCTION and YEARS SINCE BS
1981 Survey of ACS Members

NON-ACADEMIC WORK FUNCTION	YEARS SINCE BS										TOTAL	
	(0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)		No Resp
Mgt-R&D	---	---	---	38,000	---	---	---	---	---	---	---	38,000 - 75th %ile
	---	---	31,000	32,000	36,660	46,000	35,680	34,000	---	---	---	35,680 - Median
	---	---	---	23,000	---	---	---	---	---	---	---	30,500 - 25th %ile
	---	---	31,000	31,000	36,660	46,000	35,680	34,000	---	---	---	35,252 - Mean
	0	0	1,414	7,550	---	5,657	962	5,657	---	---	---	6,795 - Std. Dev.
			2	3	1	2	2	2	0	0	0	12 - Count
Basic Research	---	---	29,422	---	---	---	---	---	---	---	---	30,000
	---	23,750	27,344	---	128,750	---	30,000	---	32,045	---	---	28,594
	---	---	20,250	---	---	---	---	---	---	---	---	24,625
	---	23,750	25,672	---	128,750	---	30,000	---	32,045	---	---	44,315
	0	354	5,273	---	140,361	---	0	7,842	---	0	58,037	
			2	4	0	2	0	2	0	0	12	
Applied R&D	---	23,750	25,000	32,250	34,450	---	40,200	40,500	---	---	---	30,300
	---	23,000	22,500	29,000	29,350	28,050	30,800	37,500	32,000	---	44,000	25,500
	---	18,475	21,700	25,250	18,850	---	26,000	24,400	---	---	---	22,750
	---	21,490	23,023	29,278	27,190	28,050	32,333	33,460	32,000	---	44,000	26,954
	0	3,337	2,936	4,321	9,760	3,606	7,223	8,550	---	---	6,681	
			5	19	12	5	2	3	5	1	0	53
Mgt Non-R&D	---	---	---	35,000	31,000	---	37,260	27,800	42,000	---	---	38,445
	---	---	---	---	---	---	---	---	---	---	---	35,000
	---	---	---	35,000	31,000	---	37,260	27,800	42,000	---	---	27,600
	---	---	---	---	5,657	---	---	---	---	---	---	34,010
	0	0	0	1	2	0	1	1	1	0	0	5,728
												6
Marketing	---	---	---	---	---	---	---	---	---	---	---	35,250
	---	---	20,800	19,000	34,500	---	30,000	---	---	---	36,000	30,000
	---	---	---	---	---	---	---	---	---	---	---	19,900
	---	---	20,800	19,000	34,500	---	30,000	---	---	---	36,000	28,060
	0	0	1	1	1	0	1	0	0	0	1	7,795
												5
Prod & QC	---	---	28,935	32,000	32,500	---	---	---	---	---	---	30,250
	---	---	26,820	25,900	29,000	---	---	---	17,796	---	---	26,400
	---	---	20,100	22,750	21,000	---	---	---	---	---	---	20,500
	---	---	25,285	27,080	27,500	---	---	---	17,796	---	---	25,910
	0	0	5,030	5,110	5,895	---	---	---	---	---	0	5,257
			4	5	3	0	0	0	1	0	0	13
Forensic	---	---	22,000	---	---	26,500	---	---	---	---	---	25,750
	---	16,500	22,000	20,000	---	25,000	---	38,000	---	---	---	22,000
	---	---	13,600	---	---	24,000	---	---	---	---	---	18,250
	---	16,500	19,200	20,000	---	25,167	---	38,000	---	---	---	23,067
	0	1	4,850	---	1,258	---	---	---	---	---	0	6,927
			3	1	0	3	0	1	0	0	0	9
Writing/ editing	---	---	---	37,000	---	---	---	---	---	---	---	35,575
	---	---	20,100	29,410	---	29,550	40,500	---	---	---	20,100	28,605
	---	---	---	25,000	---	---	---	---	---	---	---	21,325
	---	---	20,100	30,470	---	29,550	40,500	---	---	---	20,100	28,901
	0	0	1	6,070	---	2,475	---	---	---	---	0	7,344
				3	0	2	1	0	0	0	1	8
Data Proc	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---
	0	0	0	0	0	0	0	0	0	0	0	0
Consulting	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	28,000	---	30,000	---	---	---	---	---	---	29,000
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	28,000	---	30,000	---	---	---	---	---	---	29,000
	0	0	1	0	1	0	0	0	0	0	0	1,414
												2
Other	---	---	---	---	---	---	---	---	---	---	---	39,000
	---	25,000	---	39,000	---	32,000	---	---	---	---	---	32,000
	---	---	---	---	---	---	---	---	---	---	---	25,000
	---	25,000	---	39,000	---	32,000	---	---	---	---	---	32,000
	0	1	0	1	0	1	0	0	0	0	0	7,000
												3
No Response	---	---	---	---	---	---	---	---	---	---	---	30,500
	---	---	23,350	31,000	28,000	21,000	28,500	43,900	---	---	---	28,000
	---	---	---	---	---	---	---	---	---	---	---	23,025
	---	---	23,350	31,000	28,000	21,000	28,500	43,900	---	---	---	28,450
	0	0	919	---	---	707	---	---	---	---	---	7,114
			2	1	1	1	2	1	0	0	0	8
TOTAL	---	24,250	27,000	33,000	34,875	32,000	37,035	39,250	39,795	---	44,000	32,000
	---	23,000	23,000	29,205	29,750	27,800	30,400	37,750	32,000	---	36,000	27,240
	---	18,750	21,350	25,000	27,250	25,000	29,250	27,050	22,148	---	20,100	23,000
	---	21,828	23,688	29,113	41,694	30,518	32,760	34,500	31,177	---	33,367	29,656
	---	3,374	4,103	5,630	50,085	8,523	4,887	7,271	9,485	---	12,166	18,792
	0	9	37	28	16	11	12	10	5	0	3	131

TABLE-3.4.7

SALARIES of PhD CHEMISTS EMPLOYED FULL-TIME in PRIVATE INDUSTRY
by WORK FUNCTION and YEARS SINCE BS
1981 Survey of ACS Members

NON-ACADEMIC WORK FUNCTION	YEARS SINCE BS										No Resp	TOTAL	
	(0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)			
Mgt+R&D	---	---	34,813	45,000	48,000	55,000	63,500	69,600	64,750	66,750	61,500	60,000	- 75th %-ile
	---	---	33,500	39,500	42,000	46,900	52,000	57,700	54,500	55,200	51,000	47,300	- Median
	---	---	29,375	34,125	38,000	40,625	43,850	47,625	39,700	44,750	42,538	40,000	- 25th %-ile
	---	---	32,625	41,212	44,375	49,069	54,170	61,987	56,508	59,911	51,742	51,434	- Mean
	---	---	3,420	9,571	10,975	14,439	16,563	24,640	23,712	26,043	16,535	19,188	- Std. Dev.
	0	0	6	64	128	116	69	100	56	48	32	619	- Count
Basic research	---	---	33,000	36,150	42,575	45,500	48,500	47,000	58,050	66,500	41,500	43,190	
	---	31,000	30,250	33,550	37,750	42,000	43,000	45,000	48,000	56,000	32,500	36,000	
	---	---	28,700	29,425	32,250	37,575	38,000	38,750	41,125	43,160	29,050	30,600	
	---	31,000	31,150	33,134	38,119	42,887	43,390	43,495	50,606	56,237	37,529	38,107	
	---	---	3,944	5,530	8,168	9,410	10,021	7,840	10,873	14,904	12,390	9,836	
	0	1	68	92	68	54	39	29	16	7	18	392	
Applied R&D	---	---	32,000	36,000	40,000	45,000	47,230	50,000	50,500	47,075	39,800	41,470	
	---	---	30,000	32,000	36,000	39,000	38,813	43,000	45,250	41,660	35,140	35,280	
	---	---	28,100	30,000	31,572	33,800	34,488	38,000	38,700	37,958	30,000	31,000	
	---	---	30,981	32,788	36,012	40,030	40,984	43,901	45,655	43,079	35,849	37,140	
	---	---	12,852	5,041	6,354	8,512	8,981	9,947	10,422	9,610	8,417	9,830	
	0	0	137	214	183	119	92	100	49	40	36	970	
Mgt Non-R&D	---	---	---	46,116	40,500	63,520	71,500	75,000	70,000	70,500	52,500	67,500	
	---	---	25,376	37,500	34,200	44,250	56,000	60,250	57,000	55,000	35,000	53,500	
	---	---	---	30,500	26,000	38,000	44,000	49,875	45,000	48,930	34,000	40,000	
	---	---	25,376	38,146	33,175	50,526	65,451	67,787	61,013	64,980	41,600	57,976	
	---	---	---	10,215	7,972	16,197	35,032	28,214	22,004	33,703	9,990	27,999	
	0	0	1	5	8	10	17	22	15	14	5	97	
Marketing	---	---	---	42,070	48,750	55,000	52,500	52,500	47,000	64,790	38,913	48,250	
	---	---	31,000	35,200	38,680	45,000	45,000	45,360	41,000	48,000	34,375	40,360	
	---	---	---	29,225	32,750	36,000	36,480	37,500	39,800	41,500	19,375	35,000	
	---	---	31,000	36,005	39,585	48,100	44,490	50,195	42,600	52,116	30,888	42,662	
	---	---	1,414	8,109	8,668	13,008	8,365	18,765	3,857	12,601	11,003	12,880	
	0	0	2	12	16	7	9	13	3	5	4	71	
Prod & QC	---	---	34,250	36,000	40,220	44,444	---	52,500	54,078	90,750	31,200	44,700	
	---	---	28,300	32,000	38,200	39,500	60,250	40,080	46,150	48,000	29,000	35,500	
	---	---	26,500	25,600	30,000	31,500	---	34,150	28,375	31,500	27,000	29,568	
	---	---	29,600	32,140	37,049	38,617	60,250	41,951	42,019	58,500	29,067	38,679	
	---	---	3,997	8,382	7,293	13,735	13,789	15,246	17,777	41,563	2,101	16,520	
	0	0	6	13	14	10	2	9	6	5	3	68	
Forensic	---	---	31,000	35,500	37,500	46,300	---	50,300	---	---	---	40,000	
	---	---	29,390	28,800	32,000	40,000	43,600	49,000	63,000	38,000	33,000	32,700	
	---	---	26,825	24,380	27,200	36,000	---	44,250	---	---	---	27,700	
	---	---	29,110	29,579	31,543	40,767	43,600	47,850	63,000	38,000	33,000	35,329	
	---	---	2,870	5,286	5,891	5,193	---	3,400	21,213	---	8,485	10,725	
	0	0	8	9	7	3	1	4	2	1	2	37	
Writing/ editing	---	---	---	---	---	---	---	53,000	---	---	---	51,050	
	---	---	31,000	---	---	30,000	55,200	48,500	42,500	43,000	---	43,000	
	---	---	---	---	---	---	40,000	---	---	---	---	37,750	
	---	---	31,000	---	---	30,000	55,200	47,167	42,500	43,000	---	44,090	
	---	---	---	---	---	---	6,788	6,602	707	---	---	9,340	
	0	0	1	0	0	1	2	3	2	1	0	10	
Data Proc	---	---	---	37,000	---	---	---	---	---	---	---	38,200	
	---	---	34,100	32,460	---	28,500	---	---	---	---	27,300	31,030	
	---	---	---	21,000	---	---	---	---	---	---	---	22,575	
	---	---	34,100	30,153	---	28,500	---	---	---	---	27,300	30,370	
	---	---	6,364	8,246	---	16,263	---	---	---	---	---	8,327	
	0	0	2	3	0	2	0	0	0	0	1	8	
Consulting	---	---	---	---	48,000	---	---	---	---	---	---	47,450	
	---	---	---	70,000	39,050	42,500	43,000	46,080	---	21,250	25,000	37,780	
	---	---	---	---	31,525	---	---	---	---	---	---	29,500	
	---	---	---	70,000	39,525	42,500	43,000	46,080	---	21,250	25,000	38,626	
	---	---	---	---	8,530	5,798	---	12,615	---	19,445	4,243	15,013	
	0	0	0	1	4	2	1	2	0	2	2	14	
Other	---	---	---	45,000	45,125	58,650	107,250	55,200	---	60,000	---	55,000	
	---	24,840	29,300	36,000	30,430	50,000	55,740	38,400	52,500	48,000	---	41,000	
	---	---	---	29,375	26,715	36,000	32,745	32,625	---	41,000	---	31,500	
	---	24,840	29,300	36,792	34,090	47,860	65,245	42,075	52,500	49,667	---	45,313	
	---	---	---	7,843	10,562	11,623	41,044	12,539	3,536	9,609	---	19,554	
	0	1	1	3	4	5	4	4	2	3	0	27	
No Response	---	---	35,780	42,200	49,350	54,000	57,500	52,500	---	61,125	120,000	51,500	
	---	---	30,874	35,100	42,500	44,000	50,000	45,500	72,000	54,000	100,000	44,000	
	---	---	28,325	30,875	33,029	35,076	42,500	35,000	---	43,500	32,000	33,058	
	---	---	31,648	35,742	41,831	44,517	48,614	44,100	72,000	52,750	80,800	45,476	
	---	---	3,615	6,206	8,796	12,112	9,553	8,792	---	9,746	46,187	18,242	
	0	0	6	10	20	9	7	5	1	6	5	69	
TOTAL	---	---	32,000	37,125	43,000	48,877	53,000	59,500	60,000	60,000	49,125	48,000	
	---	27,920	30,000	33,500	38,000	42,450	45,000	48,000	48,000	49,750	37,620	39,000	
	---	---	28,500	30,000	33,000	36,875	38,000	40,000	40,000	40,000	30,195	32,188	
	---	27,920	30,986	34,361	39,008	44,183	47,870	52,184	51,936	53,366	42,480	42,392	
	---	4,356	10,047	7,225	9,176	12,289	17,099	20,465	18,701	23,278	18,639	16,114	
	0	2	238	426	452	338	243	291	152	132	108	2,382	

TABLE-3.4.8

SALARIES of PhD CHEMISTS EMPLOYED FULL-TIME In PRIVATE INDUSTRY--MEN Only
by WORK FUNCTION and YEARS SINCE BS
1981 Survey of ACS Members

NON-ACADEMIC WORK FUNCTION	YEARS SINCE BS										No Resp	TOTAL
	(0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)		
Mgt-R&D	---	---	33,750	45,600	48,250	55,000	63,750	68,400	65,000	66,750	62,000	60,000 - 75th %-ile 48,000 - Median 40,000 - 25th %-ile 51,634 - Mean 19,164 - Std. Dev. 597 - Count
	---	---	31,500	39,900	42,000	46,500	52,000	57,000	55,000	55,200	51,000	
	---	---	28,125	34,500	37,530	40,350	44,075	47,500	39,900	44,750	42,800	
	---	---	31,125	41,756	44,380	48,581	54,416	61,603	57,119	59,911	52,218	
	---	---	2,955	9,701	11,252	13,615	16,559	24,463	23,855	26,043	16,584	
	0	0	4	59	121	113	68	99	54	48	31	
Basic research	---	---	33,385	36,625	42,800	47,000	48,575	47,000	58,050	66,500	42,500	44,000
	---	---	30,450	34,000	38,000	42,000	43,000	45,000	48,000	56,000	33,675	36,800
	---	---	29,000	29,700	32,550	39,000	38,025	38,750	41,125	43,160	29,400	31,000
	---	---	31,295	33,426	38,267	43,500	43,684	43,495	50,606	56,237	38,596	38,614
	---	---	4,057	5,635	8,253	9,308	10,066	7,840	10,873	14,904	12,765	9,948
	0	0	58	85	65	51	36	29	16	7	16	363
Applied R&D	---	---	32,000	36,000	40,200	45,000	46,960	50,000	50,750	47,075	39,700	41,800
	---	---	30,000	32,000	36,000	39,500	38,505	43,000	43,375	41,660	35,280	37,700
	---	---	28,000	30,000	31,990	34,000	34,525	38,000	39,090	37,958	30,000	31,000
	---	---	31,144	32,785	36,037	40,203	41,029	44,071	46,262	43,079	35,881	37,313
	---	---	13,493	5,079	6,093	8,579	8,933	10,120	9,616	9,610	8,403	9,913
	0	0	124	204	171	111	89	95	48	40	33	915
Mgt Non-R&D	---	---	---	50,424	40,500	63,520	75,000	75,000	70,000	70,500	52,500	68,310
	---	---	---	37,500	34,200	44,250	56,000	60,250	57,000	55,000	35,000	54,000
	---	---	---	34,875	26,000	38,000	44,000	49,875	45,000	48,930	34,000	40,000
	---	---	---	40,933	33,175	50,526	68,244	67,787	61,013	64,980	41,600	58,949
	---	---	---	9,346	7,972	16,197	36,489	28,214	22,004	33,703	9,990	28,127
	0	0	0	4	8	10	15	22	15	14	5	93
Marketing	---	---	---	44,070	49,000	55,000	52,500	52,500	47,000	64,790	39,800	49,000
	---	---	---	35,700	39,360	45,000	45,000	49,360	41,000	48,000	36,250	42,000
	---	---	---	33,725	32,500	36,000	36,480	37,500	39,800	41,500	32,500	35,000
	---	---	---	31,000	38,006	39,837	48,100	50,195	42,600	52,116	36,183	43,675
	---	---	---	1,414	7,188	8,911	13,008	8,365	3,857	12,601	3,650	12,406
	0	0	2	10	15	7	9	13	3	5	3	67
Prod & QC	---	---	34,250	36,000	40,740	44,444	---	52,500	54,078	90,750	---	46,374
	---	---	28,300	33,000	38,700	35,500	60,250	40,080	46,150	48,000	29,100	36,000
	---	---	26,500	27,000	30,500	31,500	---	34,150	28,375	31,500	---	30,000
	---	---	29,600	33,938	37,890	38,617	60,250	41,951	42,019	58,500	29,100	39,566
	---	---	---	3,997	7,783	7,135	13,735	13,789	15,246	17,777	41,563	16,769
	0	0	6	11	12	10	2	9	6	5	2	63
Forensic	---	---	30,250	36,000	37,500	46,300	---	50,300	---	---	---	42,250
	---	---	29,000	28,800	32,000	40,000	43,600	49,000	63,000	38,000	33,000	34,350
	---	---	25,050	24,960	27,200	36,000	---	44,250	---	---	---	27,450
	---	---	27,920	29,673	31,543	40,767	43,600	47,850	63,000	38,000	33,000	36,107
	---	---	---	2,821	5,118	5,891	5,193	---	3,400	21,213	---	11,246
	0	0	5	7	7	3	1	4	2	1	2	32
Writing/ editing	---	---	---	---	---	---	---	---	---	---	---	52,350
	---	---	---	---	---	30,000	55,200	50,750	42,500	43,000	---	45,750
	---	---	---	---	---	---	---	---	---	---	---	42,250
	---	---	---	---	---	30,000	55,200	50,750	42,500	43,000	---	46,238
	---	---	---	---	---	---	6,788	3,182	707	---	---	8,946
	0	0	0	0	0	1	2	2	2	1	0	8
Data Proc	---	---	---	37,000	---	---	---	---	---	---	---	38,600
	---	---	34,100	32,460	---	28,500	---	---	---	---	---	32,460
	---	---	---	21,000	---	---	---	---	---	---	---	21,000
	---	---	34,100	30,153	---	28,500	---	---	---	---	---	30,809
	---	---	6,364	8,246	---	16,263	---	---	---	---	---	8,894
	0	0	2	3	0	2	0	0	0	0	0	7
Consulting	---	---	---	70,000	40,000	42,500	43,000	46,080	---	21,250	22,000	50,000
	---	---	---	---	---	---	---	---	---	---	---	38,400
	---	---	---	70,000	40,000	42,500	43,000	46,080	---	21,250	22,000	30,000
	---	---	---	14,142	5,798	---	---	12,615	---	19,445	---	39,515
	---	---	---	---	---	---	---	---	---	---	---	16,706
	0	0	0	1	2	2	1	2	0	2	1	11
Other	---	---	---	45,125	58,650	107,250	55,200	---	60,000	---	---	55,575
	---	24,840	29,300	40,500	50,000	55,740	38,400	52,500	48,000	---	---	43,000
	---	---	---	26,715	36,000	32,745	32,625	---	41,000	---	---	31,875
	---	24,840	29,300	40,500	34,090	47,860	65,245	42,075	52,500	49,667	---	45,926
	---	---	---	6,364	10,562	11,623	41,044	12,539	3,536	9,609	---	19,675
	0	1	1	2	4	5	4	4	2	3	0	26
No Response	---	---	35,780	39,300	49,800	55,500	57,500	52,500	---	61,125	120,000	52,125
	---	---	30,874	34,200	40,000	45,750	50,000	45,500	72,000	54,000	100,000	43,250
	---	---	28,325	30,250	33,000	39,989	42,500	35,000	---	43,500	32,000	33,087
	---	---	31,648	34,702	41,585	46,144	48,614	44,100	72,000	52,750	80,800	45,678
	---	---	3,615	5,583	8,967	11,851	9,553	8,792	---	9,746	46,187	18,575
	0	0	6	9	19	8	7	5	1	6	5	66
TOTAL	---	---	32,046	37,200	43,000	49,000	53,400	59,650	60,000	60,000	51,250	48,000
	---	24,840	30,031	34,000	38,050	42,780	45,000	48,000	48,000	49,750	39,000	39,686
	---	---	28,300	30,100	33,000	37,000	38,000	40,000	40,000	40,000	32,375	33,000
	---	24,840	31,097	34,611	39,068	44,277	48,151	52,261	52,334	53,366	43,746	42,824
	---	---	10,693	7,287	9,240	11,921	17,291	20,441	18,571	23,278	18,962	16,255
	0	1	208	395	424	323	234	284	149	132	98	2,248

TABLE-3.4.9

SALARIES of PhD CHEMISTS EMPLOYED FULL-TIME in PRIVATE INDUSTRY--WOMEN Only
by WORK FUNCTION and YEARS SINCE BS
1981 Survey of ACS Members

NON-ACADEMIC WORK FUNCTION	YEARS SINCE BS										No Resp	TOTAL	
	(0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)			
Mgt-R&D	---	---	---	39,140	44,898	---	---	---	---	---	---	---	44,847 - 75th %-ile 38,640 - Median 35,500 - 25th %-ile 42,536 - Mean 15,769 - Std. Dev. 18 - Count
	---	---	35,625	36,000	43,680	54,000	37,440	100,000	40,000	---	37,000	---	
	---	---	---	29,850	39,250	---	---	---	---	---	---	---	
	---	---	35,625	34,796	42,395	54,000	37,440	100,000	40,000	---	37,000	---	
	---	---	2,298	4,734	2,920	---	---	---	14,142	---	---	---	
	0	0	2	5	5	1	1	1	2	0	1	---	
Basic research	---	---	32,025	30,000	42,000	35,000	---	---	---	---	---	---	32,550
	---	31,000	29,500	29,224	32,700	33,000	36,750	---	---	---	29,000	---	30,000
	---	---	28,425	29,000	30,050	29,400	---	---	---	---	---	---	28,625
	---	31,000	30,310	29,593	34,917	32,467	36,750	---	---	---	29,000	---	31,247
	---	---	3,268	1,868	6,276	2,838	13,081	---	---	---	1,414	---	4,424
	0	1	10	7	3	3	2	0	0	0	2	---	28
Applied R&D	---	---	30,400	37,050	38,000	38,650	---	38,052	---	---	47,000	---	37,100
	---	---	29,940	32,720	34,500	33,258	33,500	38,000	16,500	---	33,000	---	31,700
	---	---	28,800	28,950	29,500	30,825	---	37,316	---	---	26,500	---	28,900
	---	---	29,428	32,892	33,412	34,336	33,500	37,789	16,500	---	35,500	---	32,408
	---	---	1,684	4,417	6,123	5,304	9,192	411	---	---	10,476	---	5,685
	0	0	13	10	11	6	2	3	1	0	3	---	49
Mgt Non-R&D	---	---	---	---	---	---	---	---	---	---	---	---	44,000
	---	---	25,376	27,000	---	---	44,000	---	---	---	---	---	27,000
	---	---	---	---	---	---	---	---	---	---	---	---	25,376
	---	---	25,376	27,000	---	---	44,000	---	---	---	---	---	32,125
	0	0	1	1	0	0	1	0	0	0	0	---	10,316
													3
Marketing	---	---	---	26,000	35,800	---	---	---	---	---	---	---	34,100
	---	---	---	---	---	---	---	---	---	---	15,000	---	26,000
	---	---	---	26,000	35,800	---	---	---	---	---	---	---	17,000
	---	---	---	4,243	---	---	---	---	---	---	15,000	---	25,700
	0	0	0	2	1	0	0	0	0	0	1	---	8,845
													4
Prod & QC	---	---	---	22,250	32,000	---	---	---	---	---	---	---	33,500
	---	---	---	---	---	---	---	---	---	---	29,000	---	26,000
	---	---	---	22,250	32,000	---	---	---	---	---	---	---	22,250
	---	---	---	2,475	8,485	---	---	---	---	---	29,000	---	27,500
	0	0	0	2	2	0	0	0	0	0	1	---	6,633
													5
Forensic	---	---	33,000	---	---	---	---	---	---	---	---	---	34,000
	---	---	31,000	29,250	---	---	---	---	---	---	---	---	31,000
	---	---	29,280	---	---	---	---	---	---	---	---	---	26,390
	---	---	31,093	29,250	---	---	---	---	---	---	---	---	30,356
	0	0	3	2	0	0	0	0	0	0	0	---	4,391
													5
Writing/ editing	---	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	31,000	---	---	---	---	40,000	---	---	---	---	35,500
	---	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	31,000	---	---	---	---	40,000	---	---	---	---	35,500
	0	0	1	0	0	0	0	1	0	0	0	---	6,364
													2
Data Proc	---	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	27,300	---	27,300
	---	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	27,300	---	27,300
	0	0	0	0	0	0	0	0	0	0	1	---	1
Consulting	---	---	---	---	39,050	---	---	---	---	---	---	---	42,000
	---	---	---	---	---	---	---	---	---	---	28,000	---	36,100
	---	---	---	---	---	---	---	---	---	---	---	---	28,000
	---	---	---	---	39,050	---	---	---	---	---	28,000	---	35,367
	0	0	0	0	4,172	2	0	0	0	0	1	---	7,029
													3
Other	---	---	---	29,375	---	---	---	---	---	---	---	---	29,375
	---	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	29,375	---	---	---	---	---	---	---	---	29,375
	0	0	0	1	0	0	0	0	0	0	0	---	1
No Response	---	---	---	45,100	---	---	---	---	---	---	---	---	45,100
	---	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	45,100	---	---	---	---	---	---	---	---	45,100
	0	0	0	1	0	0	0	0	0	0	0	---	1
TOTAL	---	---	31,850	35,000	41,375	38,650	44,500	70,000	50,000	---	34,000	---	37,238
	---	31,000	30,000	29,700	35,950	33,258	38,720	38,052	30,000	---	28,500	---	31,000
	---	---	28,725	27,600	30,013	31,350	27,375	37,658	16,500	---	27,100	---	29,000
	---	31,000	30,219	31,165	35,923	35,742	36,990	50,674	32,167	---	30,080	---	33,299
	---	---	2,849	5,545	6,288	7,704	8,117	27,592	16,855	---	8,168	---	8,935
	0	1	30	31	24	10	6	5	3	0	10	---	120

TABLE-3.5.1

SALARIES of B.S. CHEMISTS EMPLOYED FULL-TIME in PRIVATE INDUSTRY
by WORK SPECIALTY and YEARS SINCE BS
1981 Survey of ACS Members

SPECIALTY	YEARS SINCE BS										No Resp	TOTAL
	(0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)		
Biochemistry	---	20,475	---	31,000	---	47,000	---	---	---	---	---	31,000 - 75th %ile
	---	16,650	20,400	28,000	---	40,000	---	---	---	32,750	---	27,600 - Median
	---	13,938	---	27,600	---	30,000	---	---	---	---	---	16,800 - 25th %ile
	---	17,692	20,400	28,867	---	39,000	---	---	---	32,750	---	26,377 - Mean
	---	4,755	---	1,858	---	8,544	---	---	---	5,303	---	9,857 - Std. Dev.
	0	6	1	3	0	3	0	0	0	2	0	15 - Count
Agricultural/food chemistry	---	21,125	23,200	32,750	38,600	34,165	42,250	50,000	62,500	46,750	---	38,050
	24,100	17,958	21,300	28,327	33,600	29,000	38,950	40,344	43,000	30,650	21,600	29,000
	---	14,670	17,650	21,750	28,500	21,500	30,885	32,000	30,900	25,075	---	21,450
	24,100	18,005	21,469	27,357	33,560	30,013	37,073	45,880	45,960	35,067	21,600	31,445
	---	3,471	6,685	5,883	5,158	9,509	6,087	21,278	20,147	11,981	---	15,289
	1	12	13	8	5	10	6	15	5	6	1	82
Analytical	20,595	22,011	25,263	32,000	35,450	36,400	35,500	42,530	38,750	46,675	39,540	32,190
	17,000	19,700	22,200	26,900	32,000	30,800	30,000	32,880	31,180	34,000	27,000	29,000
	14,900	16,800	19,455	23,000	26,000	27,900	26,700	26,916	24,375	25,545	23,774	21,000
	17,320	19,766	23,008	28,161	31,748	32,902	32,893	36,103	34,468	38,104	30,105	27,941
	3,038	4,620	5,229	7,320	7,062	10,878	12,686	13,951	15,307	14,174	8,329	10,955
	13	85	132	71	47	43	43	57	32	18	3	544
Environmental chemistry	17,625	21,950	26,125	32,700	38,250	49,600	36,375	42,500	40,000	56,100	---	35,200
	19,966	20,000	22,900	26,900	31,200	35,964	27,048	36,050	31,000	41,000	25,000	26,900
	14,621	17,200	18,875	20,625	25,250	30,000	23,900	32,670	28,000	36,000	---	21,000
	16,071	19,884	22,747	27,105	34,408	39,052	29,466	48,547	35,786	45,744	25,000	30,915
	1,557	3,394	4,726	7,245	13,564	11,752	8,259	47,882	10,488	15,766	0	21,336
	4	16	32	9	13	7	6	16	7	9	2	121
Organic chemistry	---	21,888	26,963	29,938	39,590	45,000	45,000	40,000	51,850	44,700	---	40,000
	17,950	20,080	23,348	27,750	31,300	39,500	37,000	35,000	45,938	38,000	---	30,550
	---	18,840	20,000	23,025	24,732	34,000	34,000	28,000	36,060	32,000	---	24,000
	17,950	20,970	25,232	28,110	34,044	40,248	40,250	36,507	44,743	38,966	---	33,133
	636	4,043	9,940	7,239	11,772	9,631	13,075	14,142	8,351	8,539	---	12,439
	2	20	23	32	21	15	15	43	12	17	0	200
Pharmaceutical/ medicinal/ clinical chemistry	---	20,000	24,550	32,763	34,125	36,591	42,750	44,000	49,000	---	---	35,000
	23,600	18,000	22,000	27,000	28,300	30,800	34,500	40,000	42,750	62,500	---	27,000
	---	17,000	17,400	24,145	25,125	26,800	29,723	32,000	31,500	---	---	21,375
	23,600	18,096	21,676	28,507	30,263	34,222	36,879	38,947	40,313	62,500	---	29,656
	---	3,050	5,427	6,194	7,992	12,672	9,603	11,981	9,270	38,891	---	11,968
	1	19	29	21	20	17	14	15	8	2	0	146
Physical chemistry	---	21,250	25,400	35,500	30,425	44,400	---	62,500	63,750	63,750	---	39,000
	17,900	19,750	23,424	30,000	28,600	38,000	38,900	42,650	55,200	51,100	---	28,825
	---	17,471	19,960	22,040	20,250	26,950	---	29,913	33,600	36,050	---	20,350
	17,900	19,383	23,437	30,470	26,425	36,140	38,500	49,158	50,850	50,300	---	32,671
	---	2,102	4,346	8,137	5,836	9,237	707	26,247	16,394	14,623	---	16,082
	1	10	9	7	4	5	2	6	4	4	0	52
Theoretical chemistry	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---
	0	0	0	0	0	0	0	0	0	0	0	0
Polymer/ macromolecular chemistry	22,320	22,000	26,784	33,975	44,900	39,000	46,500	50,000	60,000	53,750	---	41,350
	20,000	20,160	22,990	29,450	32,450	32,232	39,672	41,500	48,000	45,000	32,280	30,000
	16,000	18,500	19,950	27,225	27,955	29,000	30,250	34,328	39,500	31,574	---	23,492
	19,960	20,880	23,208	31,545	35,888	33,406	39,000	46,138	51,197	45,204	32,280	34,395
	5,540	3,612	4,959	6,175	12,018	6,023	10,775	27,861	23,707	18,325	---	18,151
	7	29	42	26	26	15	23	44	15	13	1	241
Other chemistry	26,450	25,500	26,800	37,875	35,075	42,500	47,750	47,000	63,000	48,000	---	39,495
	21,240	20,500	23,500	27,940	32,000	34,495	38,450	36,000	37,500	36,000	---	30,100
	17,800	17,500	20,000	22,763	22,633	28,500	34,375	30,000	32,000	---	---	23,167
	22,316	21,765	24,144	31,118	32,639	36,030	42,455	41,145	48,978	38,200	---	33,778
	6,220	6,102	5,163	9,814	15,025	10,682	14,783	18,237	29,503	8,827	---	16,259
	9	31	41	28	24	28	26	47	19	11	0	264
TOTAL	21,293	22,000	25,850	33,000	36,875	39,600	41,700	45,000	49,625	47,425	32,280	36,000
	18,000	19,855	22,500	28,000	31,380	32,232	35,000	36,300	38,500	38,250	25,000	28,000
	16,000	17,242	19,775	23,630	25,500	28,700	29,000	30,000	29,000	31,825	23,774	22,000
	19,250	19,990	23,134	29,033	32,810	34,835	37,122	40,888	42,594	41,097	27,742	31,097
	4,755	4,456	5,662	7,412	10,687	10,499	12,515	22,202	19,902	14,331	6,176	14,810
	38	228	322	205	160	143	135	243	102	82	7	1,665

TABLE-3.5.2

SALARIES of B.S. CHEMISTS EMPLOYED FULL-TIME in PRIVATE INDUSTRY--MEN Only
by WORK SPECIALTY and YEARS SINCE BS
1981 Survey of ACS Members

SPECIALTY	YEARS SINCE BS										No Resp	TOTAL		
	(0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)				
Biochemistry	---	---	---	31,000	---	47,000	---	---	---	---	---	---	---	39,125 - 75th %ile
	---	---	---	28,000	---	40,000	---	---	---	32,750	---	---	---	30,500 - Median
	---	---	---	27,600	---	30,000	---	---	---	---	---	---	---	28,250 - 25th %ile
	---	---	---	28,867	---	39,000	---	---	---	32,750	---	---	---	33,638 - Mean
	0	0	0	1,858	---	8,544	---	---	---	5,303	---	---	---	6,940 - Std. Dev.
				3	0	3	0	0	0	2	0			8 - Count
Agricultural/food chemistry	---	21,500	23,300	33,000	38,600	44,000	42,250	50,000	62,500	46,750	---	---	---	40,000
	24,100	17,916	21,650	29,000	33,600	30,000	38,950	40,344	43,000	30,650	---	---	---	30,000
	---	14,100	19,775	21,000	28,500	28,000	30,885	32,000	30,900	25,075	---	---	---	22,000
	24,100	17,851	21,942	27,314	33,560	32,463	37,073	45,880	45,960	35,067	---	---	---	32,278
	---	3,597	6,752	6,353	5,158	10,055	6,087	21,278	20,147	11,981	---	---	---	15,668
	1	11	12	7	5	7	6	15	5	6	0			75
Analytical	19,500	22,450	25,242	32,575	36,000	36,775	35,875	43,000	43,875	50,225	39,540	---	---	34,000
	17,000	19,392	22,600	27,125	32,750	31,500	30,600	35,195	31,530	34,220	27,000	---	---	27,125
	14,710	17,100	19,400	23,490	29,150	28,775	27,150	27,081	26,500	32,000	23,774	---	---	22,000
	17,084	20,050	23,119	28,985	32,730	33,887	33,530	36,872	36,463	39,906	30,105	---	---	29,347
	3,050	5,150	5,295	7,291	7,060	10,613	12,842	14,320	16,789	14,015	8,329	---	---	11,510
	5	57	97	62	40	40	40	52	24	16	3			436
Environmental chemistry	---	22,000	26,500	32,700	37,000	49,600	32,616	42,500	40,000	56,100	---	---	---	36,600
	15,432	20,000	22,000	26,900	31,200	35,964	27,048	36,050	31,000	41,000	25,000	---	---	28,992
	---	17,400	20,000	20,625	25,500	30,000	21,408	32,670	28,000	36,000	---	---	---	22,000
	15,432	20,084	23,091	27,105	34,800	39,052	27,024	48,547	35,786	45,744	25,000	---	---	32,773
	---	2,999	4,786	7,245	14,462	11,752	5,832	47,882	10,488	15,766	0	---	---	22,936
	1	10	23	9	11	7	4	16	7	9	2			99
Organic chemistry	---	25,725	28,525	30,000	39,590	47,500	45,000	41,000	52,800	46,050	---	---	---	40,000
	18,400	20,230	22,924	28,000	31,300	39,500	37,000	35,000	48,000	38,250	---	---	---	32,000
	---	18,725	20,000	23,100	24,732	35,000	34,000	28,500	36,240	33,180	---	---	---	24,960
	18,400	21,569	25,398	28,352	34,044	40,877	40,250	36,874	45,629	39,777	---	---	---	33,921
	---	4,616	10,602	7,225	11,772	9,915	13,075	14,387	8,146	8,115	---	---	---	12,555
	1	14	20	31	21	13	15	41	11	16	0			183
Pharmaceutical/medicinal/clinical chemistry	---	21,500	24,400	33,494	37,000	35,796	44,250	44,250	46,000	---	---	---	---	37,000
	23,600	18,720	23,000	25,600	31,000	30,950	34,000	40,650	40,500	62,500	---	---	---	29,560
	---	17,950	17,838	23,481	27,000	29,165	29,168	32,525	30,000	---	---	---	---	23,331
	23,600	18,591	22,181	28,302	31,744	33,479	37,249	40,657	38,929	62,500	---	---	---	31,208
	---	3,316	5,239	6,635	8,265	8,587	10,328	10,360	9,076	38,891	---	---	---	11,772
	1	11	18	18	15	14	12	14	7	2	0			112
Physical chemistry	---	20,000	28,500	35,500	30,425	44,400	---	62,500	60,000	63,750	---	---	---	41,400
	---	18,600	23,612	30,000	28,600	38,000	38,500	42,650	50,400	51,100	---	---	---	30,100
	---	17,000	19,925	22,040	20,250	26,950	---	29,913	28,000	36,050	---	---	---	22,010
	---	18,647	24,487	30,470	26,425	36,140	38,500	49,158	46,133	50,300	---	---	---	33,834
	0	2,068	4,969	8,137	5,836	9,237	707	26,247	16,421	14,623	---	---	---	16,045
		7	6	7	4	5	2	6	3	4	0			44
Theoretical	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	0	0	0	0	0	0	0	0	0	0	0			0
Polymer/macromolecular chemistry	27,750	22,000	26,856	34,125	43,025	39,150	46,875	50,000	60,000	53,750	---	---	---	43,000
	20,500	20,230	23,000	29,750	32,450	32,616	39,836	41,500	48,000	45,000	32,280	---	---	31,900
	18,500	18,870	19,650	28,250	27,865	29,000	32,613	34,328	39,500	31,574	---	---	---	25,000
	22,250	21,078	23,247	32,113	34,741	33,863	39,754	46,138	51,197	45,204	32,280	---	---	35,382
	5,315	3,946	5,208	6,086	10,155	5,974	10,388	27,861	23,707	18,325	---	---	---	18,393
	4	22	37	24	24	14	22	44	15	13	1			220
Other Chemical	29,500	27,250	27,370	38,740	35,050	44,500	48,500	47,000	63,500	48,000	---	---	---	40,000
	18,600	22,000	24,500	27,680	34,000	34,995	38,800	36,000	43,000	36,000	---	---	---	32,000
	17,800	17,600	20,750	23,175	22,705	30,000	35,000	30,000	32,063	32,000	---	---	---	24,930
	22,640	22,748	24,710	31,696	33,320	37,684	43,110	41,145	51,123	38,200	---	---	---	35,126
	7,380	6,192	5,393	9,894	15,636	10,275	14,698	18,237	30,449	8,827	---	---	---	16,629
	5	25	34	25	21	24	25	47	17	11	0			234
TOTAL	23,700	22,000	26,400	33,394	37,100	40,000	42,000	45,000	50,000	47,500	34,095	---	---	38,100
	18,500	20,000	23,000	28,000	32,000	33,000	35,660	36,504	40,000	40,000	26,000	---	---	30,000
	17,450	17,700	20,000	24,000	26,260	29,500	30,000	30,000	30,000	32,000	24,694	---	---	23,000
	20,508	20,442	23,447	29,482	33,263	35,688	37,713	41,371	43,880	41,729	28,766	---	---	32,547
	5,347	4,843	5,901	7,456	10,542	9,849	12,591	22,396	20,472	14,219	6,080	---	---	15,293
	18	157	247	186	141	127	126	235	89	79	6			1,411

TABLE-3.5.3

SALARIES of B.S. CHEMISTS EMPLOYED FULL-TIME in PRIVATE INDUSTRY--WOMEN Only
by WORK SPECIALTY and YEARS SINCE BS
1981 Survey of ACS Members

SPECIALTY	YEARS SINCE BS										No Resp	TOTAL			
	(0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)					
Biochemistry	---	20,475	---	---	---	---	---	---	---	---	---	---	---	20,400	75th %ile
	---	16,650	20,400	---	---	---	---	---	---	---	---	---	---	16,800	Median
	---	13,938	---	---	---	---	---	---	---	---	---	---	---	14,000	25th %ile
	---	17,692	20,400	---	---	---	---	---	---	---	---	---	---	18,079	Mean
	---	4,755	---	---	---	---	---	---	---	---	---	---	---	4,459	Std. Dev.
	0	6	1	0	0	0	0	0	0	0	0	0	0	7	Count
Agricultural/ Food chemistry	---	---	---	---	---	30,887	---	---	---	---	---	---	---	27,654	
	---	19,700	15,800	27,654	---	22,000	---	---	---	---	---	---	---	21,600	
	---	---	---	---	---	20,000	---	---	---	---	---	---	---	19,700	
	---	19,700	15,800	27,654	---	24,296	---	---	---	---	---	---	---	22,520	
	---	---	---	---	---	5,795	---	---	---	---	---	---	---	5,114	
	0	1	1	1	0	3	0	0	0	0	0	0	1	7	
Analytical chemistry	20,690	21,631	25,400	26,650	29,000	22,080	---	31,000	33,000	---	---	---	---	24,550	
	18,300	20,000	21,500	23,000	24,500	21,000	25,610	31,000	25,500	23,690	---	---	---	21,500	
	14,000	16,698	20,000	17,735	23,000	16,200	---	24,000	21,840	---	---	---	---	19,000	
	17,677	19,336	22,702	22,483	26,131	19,760	25,610	28,667	27,406	23,690	---	---	---	22,198	
	3,430	3,371	5,108	4,685	3,888	3,130	9,348	4,041	7,461	1,146	---	---	---	5,308	
	7	26	35	9	7	3	2	3	7	2	0	0	0	101	
Environmental chemistry	18,000	22,725	25,700	---	---	---	---	---	---	---	---	---	---	25,275	
	16,900	20,250	23,800	---	32,250	---	---	34,350	---	---	---	---	---	21,650	
	14,350	14,875	18,050	---	---	---	---	---	---	---	---	---	---	17,325	
	16,283	19,550	21,867	---	32,250	---	---	34,350	---	---	---	---	---	22,552	
	1,835	4,261	4,728	---	10,253	---	---	12,940	---	---	---	---	---	7,533	
	3	6	9	0	2	0	2	0	0	0	0	0	0	22	
Organic chemistry	---	21,138	26,963	---	---	---	---	---	---	---	---	---	---	26,963	
	17,500	19,884	26,000	20,600	---	29,820	---	29,000	---	26,000	---	---	---	21,000	
	---	18,140	19,400	---	---	---	---	---	---	---	---	---	---	19,400	
	17,500	19,573	24,121	20,600	---	29,820	---	29,000	---	26,000	---	---	---	22,781	
	---	1,841	4,117	---	---	---	---	1,414	---	---	---	---	---	4,550	
	1	6	3	1	0	1	0	2	0	1	0	0	0	15	
Pharmaceutical/ medicinal/ clinical chemistry	---	19,500	24,900	32,200	31,050	---	---	---	---	---	---	---	---	27,300	
	---	17,111	18,500	30,000	25,000	21,537	34,660	15,000	50,000	---	---	---	---	21,000	
	---	16,250	16,000	27,000	21,000	---	---	---	---	---	---	---	---	17,000	
	---	17,415	20,850	29,733	25,820	21,537	34,660	15,000	50,000	---	---	---	---	23,163	
	---	2,701	5,882	2,610	5,605	1,079	3,762	---	---	---	---	---	---	8,093	
	0	8	11	3	5	2	2	1	1	0	0	0	0	33	
Physical chemistry	---	22,000	23,592	---	---	---	---	---	---	---	---	---	---	22,000	
	17,900	21,000	20,500	---	---	---	---	---	---	---	---	---	---	20,500	
	---	20,300	19,920	---	---	---	---	---	---	---	---	---	---	19,920	
	17,900	21,100	21,337	---	---	---	---	---	---	---	---	---	---	20,745	
	---	854	1,974	---	---	---	---	---	---	---	---	---	---	1,769	
	1	3	3	0	0	0	0	0	0	0	0	0	0	7	
Theoretical	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
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	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Polymer/ macromolecular chemistry	22,320	23,000	25,500	---	---	---	---	---	---	---	---	---	---	24,738	
	16,000	20,000	22,980	24,738	49,650	27,000	22,400	---	---	---	---	---	---	22,400	
	12,400	18,500	20,325	---	---	---	---	---	---	---	---	---	---	19,250	
	16,907	20,257	22,926	24,738	49,650	27,000	22,400	---	---	---	---	---	---	24,063	
	5,022	2,403	2,799	1,043	28,779	---	---	---	---	---	---	---	---	11,245	
	3	7	5	2	2	1	1	0	0	0	0	0	0	21	
Other Chemical	27,175	20,551	24,000	---	39,600	28,000	---	---	---	---	---	---	---	25,124	
	21,620	18,775	22,000	22,200	25,000	24,000	26,070	---	30,750	---	---	---	---	22,000	
	16,935	13,188	19,000	---	19,000	16,585	---	---	---	---	---	---	---	18,250	
	21,910	17,667	21,395	22,200	27,867	22,862	26,070	---	30,750	---	---	---	---	22,413	
	5,490	3,797	2,668	8,485	10,595	5,792	---	---	9,546	---	---	---	---	6,223	
	4	6	7	2	3	3	1	0	2	0	0	0	0	28	
TOTAL	21,240	21,500	24,800	28,225	33,500	27,500	36,045	31,000	37,875	26,000	---	---	---	25,000	
	17,900	19,812	21,000	24,500	25,000	22,080	29,035	29,000	28,750	24,500	21,600	---	---	21,450	
	15,500	16,800	19,000	20,200	23,000	20,387	23,100	21,750	22,335	22,880	---	---	---	18,350	
	18,229	19,040	22,103	24,093	29,443	23,127	29,714	26,500	30,334	24,460	21,600	---	---	22,434	
	4,026	3,291	4,681	4,935	11,442	4,639	8,118	6,221	9,844	1,560	---	---	---	6,614	
	19	69	75	18	19	13	8	6	10	3	1	---	---	241	

TABLE-3.5.4

SALARIES of M.S. CHEMISTS EMPLOYED FULL-TIME In PRIVATE INDUSTRY
by WORK SPECIALTY and YEARS SINCE BS
1981 Survey of ACS Members

SPECIALTY	YEARS SINCE BS										No Resp	TOTAL	
	(0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)			
Biochemistry	---	---	31,000	---	---	---	---	---	---	---	---	---	32,325 - 75th %-ile 29,250 - Median 23,750 - 25th %-ile 28,636 - Mean 5,257 - Std. Dev. 14 - Count
	---	20,000	28,500	31,500	27,000	32,000	31,800	33,300	26,500	---	---	---	
	---	---	22,500	---	---	---	---	---	---	---	---	---	
	---	20,000	27,100	31,500	27,000	32,000	31,800	33,300	26,500	---	---	---	
	---	---	4,393	10,607	---	---	2,546	---	---	---	---	---	
	0	1	5	2	1	1	2	1	1	0	0	0	
Agricultural/ Food chemistry	---	---	22,150	34,750	60,000	42,975	62,250	36,250	60,000	55,250	60,000	43,800	43,800 34,000 23,750 36,627 15,072 46
	---	23,000	21,750	28,500	41,400	32,600	36,500	46,750	32,000	50,000	37,500	55,000	
	---	---	18,875	20,500	25,500	32,140	30,500	30,000	19,600	31,000	26,000	23,750	
	---	23,000	20,925	28,033	42,480	37,346	46,750	32,750	41,840	41,250	47,000	36,627	
	---	---	1,972	8,159	22,081	6,042	16,715	3,403	20,711	13,301	18,358	15,072	
	0	1	4	9	5	5	6	4	5	4	3	3	
Analytical chemistry	---	23,650	27,000	31,300	40,300	36,000	43,600	46,800	48,000	52,750	40,000	36,270	36,270 29,387 24,000 32,014 16,080 276
	---	21,500	23,130	28,250	28,910	32,600	36,360	39,900	41,000	36,750	33,000	29,387	
	---	19,125	21,000	25,000	25,625	25,600	31,685	34,100	31,500	31,785	30,630	24,000	
	---	21,148	23,400	31,488	33,125	32,929	37,848	39,836	39,975	41,028	34,852	32,014	
	---	2,889	3,585	28,402	11,723	8,058	8,459	7,987	13,272	12,151	5,653	16,080	
	0	16	54	58	40	23	27	31	8	14	5	5	
Environmental chemistry	---	25,000	28,500	33,375	38,425	61,000	75,750	53,100	---	---	51,563	38,450	38,450 28,626 25,000 34,348 20,697 72
	---	24,000	25,000	28,000	33,750	47,000	37,600	41,500	28,000	49,800	34,675	28,626	
	---	19,500	19,000	25,086	29,064	35,750	31,000	30,950	---	---	22,025	25,000	
	---	22,833	24,806	28,595	34,819	48,100	58,700	40,718	28,000	49,800	36,088	34,348	
	---	2,930	6,381	6,724	9,211	14,951	59,813	11,422	---	---	15,351	20,697	
	0	3	18	16	8	5	6	10	1	1	4	4	
Organic Chemistry	---	25,200	27,997	30,900	42,000	39,250	45,900	52,500	53,500	51,500	48,500	42,850	42,850 32,000 26,000 36,948 20,437 181
	---	24,500	22,650	27,000	33,000	33,000	36,000	40,000	41,000	43,000	35,000	32,000	
	---	23,000	21,880	22,963	28,100	27,500	29,880	33,000	35,575	31,660	24,250	26,000	
	---	24,233	24,261	27,916	42,650	36,959	41,669	43,000	45,017	45,216	35,684	36,948	
	---	1,124	4,141	6,715	41,203	15,391	19,409	12,778	14,912	19,022	11,984	20,437	
	0	3	28	25	23	14	27	25	14	13	9	9	
Pharmaceutical/ medicinal/ clinical chemistry	---	---	24,000	37,250	36,915	42,000	46,000	53,000	53,750	62,500	---	40,000	40,000 31,000 25,400 37,458 28,243 125
	---	22,000	22,000	30,500	30,050	33,000	39,264	42,000	40,750	40,000	35,000	31,000	
	---	---	19,800	26,725	25,700	30,000	29,000	35,000	36,586	39,000	---	25,400	
	---	22,000	22,312	46,573	33,019	36,156	39,527	44,419	44,278	47,667	35,000	37,458	
	---	---	3,737	56,646	9,803	8,107	11,289	13,075	10,455	13,880	7,071	28,243	
	0	1	23	26	24	7	13	17	6	6	2	2	
Physical chemistry	---	---	24,450	37,125	49,500	38,250	43,000	43,750	46,000	63,000	---	42,000	42,000 35,520 26,350 35,170 9,664 45
	---	22,925	22,500	31,250	36,500	33,300	42,000	41,500	38,600	49,000	36,000	35,520	
	---	---	21,700	26,175	35,250	28,300	40,000	32,500	30,000	35,600	---	26,350	
	---	22,925	22,933	32,588	40,169	32,800	41,667	39,250	38,200	49,200	36,000	35,170	
	---	2,722	1,769	7,661	7,552	7,291	1,528	6,397	8,007	13,701	---	9,664	
	0	2	6	8	9	6	3	4	3	3	1	4	
Theoretical	---	---	---	---	---	---	---	---	---	---	---	---	---
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	---	---	---	---	---	---	---	---	---	---	---	---	
	0	0	0	0	0	0	0	0	0	0	0	0	
Polymer/ macromolecular chemistry	---	25,600	27,500	37,000	38,200	43,600	54,250	46,000	49,100	58,750	46,125	40,600	40,600 34,000 27,775 37,326 18,859 164
	---	25,000	25,000	32,025	35,000	37,960	40,000	36,000	36,500	48,500	36,000	34,000	
	---	24,000	23,000	29,850	31,633	29,650	30,000	33,550	31,500	24,500	26,550	27,775	
	---	24,867	25,085	32,356	34,237	38,483	50,927	42,902	41,723	44,667	35,783	37,326	
	---	808	3,052	6,096	5,557	10,172	38,739	19,164	16,529	18,651	10,975	18,859	
	0	3	25	25	21	21	21	25	11	6	6	6	
Other Chemical	---	24,750	28,000	33,500	38,500	49,850	46,000	43,000	41,375	66,125	57,250	40,000	40,000 32,500 26,000 34,441 12,178 143
	---	23,500	24,400	29,900	32,000	37,000	40,000	35,500	36,000	44,890	39,500	32,500	
	---	22,025	20,100	26,875	25,000	34,250	31,500	31,750	26,000	30,000	24,645	26,000	
	---	23,425	24,808	30,669	31,143	42,310	39,254	37,367	33,813	50,485	40,043	34,441	
	---	1,410	5,278	6,747	8,500	13,547	9,214	8,665	8,823	26,598	16,861	12,178	
	0	4	19	22	23	10	13	30	8	8	6	6	
TOTAL	---	24,500	26,643	33,300	38,625	42,375	45,925	45,000	49,050	53,000	48,375	40,000	40,000 31,770 25,500 35,079 18,762 1,066
	---	23,000	23,500	29,000	33,108	35,000	38,750	38,000	39,000	41,000	35,500	31,770	
	---	20,000	21,000	25,000	27,000	30,285	30,000	33,000	31,250	32,000	28,325	25,500	
	---	22,315	23,944	32,734	35,150	37,121	42,897	40,729	40,762	45,136	37,270	35,079	
	---	2,608	4,208	26,861	18,549	11,188	24,064	12,290	13,959	16,920	12,124	18,762	
	0	34	182	191	154	92	118	147	57	55	36	36	

TABLE-3.5.5

SALARIES of M.S. CHEMISTS EMPLOYED FULL-TIME in PRIVATE INDUSTRY--MEN Only
by WORK SPECIALTY and YEARS SINCE BS
1981 Survey of ACS Members

SPECIALTY	YEARS SINCE BS										TOTAL	
	(0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)		No Resp
Biochemistry	---	---	28,500	---	---	---	---	---	---	---	---	33,375 - 75th %-ile 27,750 - Median 22,750 - 25th %-ile 28,240 - Mean 6,129 - Std. Dev. 10 - Count
	---	20,000	23,000	31,500	27,000	32,000	33,600	33,300	---	---	---	
	---	---	22,000	---	---	---	---	---	---	---	---	
	---	20,000	24,500	31,500	27,000	32,000	33,600	33,300	---	---	---	
	---	---	3,500	10,607	---	---	---	---	---	---	---	
	0	1	3	2	1	1	1	1	0	0	0	
Agricultural/food chemistry	---	---	---	36,375	60,000	42,975	66,750	36,250	60,000	55,250	60,000	49,050
	---	---	19,750	28,750	41,400	36,500	56,500	32,000	50,000	37,500	55,000	34,500
	---	---	---	21,750	25,500	32,140	37,250	30,000	19,600	31,000	26,000	28,625
	---	---	19,750	29,038	42,480	37,346	53,500	32,750	41,840	41,250	47,000	38,278
	---	---	2,475	8,106	22,081	6,042	15,759	3,403	20,711	13,301	18,358	15,276
	0	0	2	8	5	5	4	4	5	4	3	40
Analytical chemistry	---	23,775	27,000	31,300	40,700	38,400	44,100	49,250	49,000	52,750	33,000	38,000
	---	21,000	23,880	28,500	28,470	34,000	37,500	40,000	44,000	36,750	32,000	30,000
	---	19,175	21,000	25,000	25,250	30,000	31,685	34,775	33,000	31,785	29,260	25,000
	---	21,392	23,659	32,062	33,382	34,783	38,499	40,812	43,143	41,028	31,420	33,123
	---	2,490	3,546	30,256	12,152	7,590	8,955	7,873	10,574	12,151	1,936	17,186
	0	10	39	51	37	19	23	26	7	14	3	229
Environmental chemistry	---	---	29,916	35,000	39,200	65,750	110,500	53,700	---	---	51,563	38,850
	---	21,750	25,000	28,000	35,000	42,650	35,000	45,000	28,000	49,800	34,675	32,000
	---	---	19,000	25,343	28,752	34,475	28,000	32,000	---	---	22,025	25,000
	---	21,750	25,070	29,166	35,507	47,625	62,400	42,153	28,000	49,800	36,088	35,401
	---	3,182	6,607	6,543	9,724	17,220	66,101	11,118	---	---	15,351	21,994
	0	2	13	15	7	4	5	9	1	1	4	61
Organic Chemistry	---	25,200	28,325	31,500	42,000	43,750	47,250	53,750	53,500	51,500	48,500	43,800
	---	24,500	22,650	27,000	33,000	33,000	38,400	39,950	41,000	43,000	35,000	32,748
	---	23,000	21,805	23,144	31,700	28,905	29,440	33,000	35,575	31,660	24,250	26,000
	---	24,233	24,196	28,246	35,260	38,385	42,603	43,125	45,017	45,216	35,684	36,485
	---	1,124	4,233	7,040	8,114	16,214	19,896	13,037	14,912	19,022	11,984	14,992
	0	3	26	22	19	12	25	24	14	13	9	167
Pharmaceutical/medicinal/clinical chemistry	---	---	24,600	38,000	37,200	45,000	46,000	61,000	59,250	62,500	---	40,000
	---	22,000	22,000	30,000	30,050	33,000	40,000	42,000	45,250	40,000	35,000	31,850
	---	---	19,800	27,000	25,450	28,746	30,000	34,000	35,056	39,000	---	25,300
	---	22,000	22,483	48,565	33,014	36,098	41,532	45,309	46,519	47,667	35,000	38,440
	---	---	3,923	60,063	10,200	9,074	11,141	13,717	12,604	13,880	7,071	30,151
	0	1	19	23	22	5	11	15	4	6	2	108
Physical chemistry	---	---	24,450	38,000	50,250	38,250	43,000	43,750	46,000	63,000	---	42,250
	---	22,925	22,500	27,100	36,750	33,300	42,000	41,500	38,600	49,000	36,000	35,260
	---	---	21,700	25,750	35,130	28,300	40,000	32,500	30,000	35,600	---	25,950
	---	22,925	22,933	31,200	40,753	32,800	41,667	39,250	38,200	49,200	36,000	35,087
	---	2,722	1,769	8,526	7,854	7,291	1,528	6,397	8,007	13,701	---	10,003
	0	2	6	6	8	6	3	4	3	3	1	42
Theoretical	---	---	---	---	---	---	---	---	---	---	---	---
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	0	0	0	0	0	0	0	0	0	0	0	0
Polymer/macromolecular chemistry	---	25,600	27,500	37,625	38,300	43,600	54,250	46,000	49,100	58,750	46,125	41,000
	---	25,000	25,000	32,363	35,000	37,960	40,000	36,000	36,500	48,500	36,000	35,000
	---	24,000	22,900	29,925	31,617	29,650	30,000	33,550	31,500	24,500	26,550	28,000
	---	24,867	24,940	32,677	34,224	38,483	50,927	42,902	41,723	44,667	35,783	37,779
	---	808	3,208	6,380	5,701	10,172	38,739	19,164	16,529	18,651	10,975	19,213
	0	3	21	22	20	21	21	25	11	6	6	156
Other Chemical	---	25,000	28,750	32,900	39,120	50,000	46,500	42,750	41,500	66,125	57,500	42,000
	---	23,000	24,410	29,800	34,000	43,500	42,400	35,500	38,000	44,890	50,000	34,000
	---	21,700	20,250	27,750	25,000	37,000	30,750	32,125	24,000	30,000	27,580	27,258
	---	23,233	25,135	30,928	32,431	46,757	39,608	37,611	34,071	50,485	44,032	35,664
	---	1,662	5,601	7,072	7,876	13,885	9,530	8,508	9,497	26,598	15,364	12,659
	0	3	16	13	19	7	12	28	7	8	5	118
TOTAL	---	24,675	26,540	33,325	39,140	43,425	46,650	46,470	49,775	53,000	49,750	41,000
	---	23,000	23,500	28,800	33,900	35,550	40,000	38,125	39,750	41,000	35,000	32,500
	---	20,000	21,000	25,000	27,000	31,665	31,343	33,350	31,875	32,000	28,550	26,000
	---	22,491	24,010	33,423	34,392	38,043	44,160	41,192	41,684	45,136	37,625	35,852
	---	2,331	4,246	29,030	10,199	11,315	25,186	12,519	14,037	16,920	12,245	18,676
	0	25	145	162	138	80	105	136	52	55	33	931

TABLE-3.5.6

SALARIES of M.S. CHEMISTS EMPLOYED FULL-TIME in PRIVATE INDUSTRY--WOMEN Only
by WORK SPECIALTY and YEARS SINCE BS
1981 Survey of ACS Members

SPECIALTY	YEARS SINCE BS										No Resp	TOTAL
	(0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)		
Biochemistry	---	---	---	---	---	---	---	---	---	---	---	31,500 - 75th %-ile 30,000 - Median 27,375 - 25th %-ile 29,625 - Mean 2,287 - Std. Dev. 4 - Count
	---	---	31,000	---	---	---	30,000	---	26,500	---	---	
	---	---	31,000	---	---	---	30,000	---	26,500	---	---	
	---	---	1,414	---	---	---	---	---	---	---	---	
	0	0	2	0	0	0	1	0	1	0	0	
Agricultural/food chemistry	---	---	---	---	---	---	---	---	---	---	---	29,625 22,600 21,500 25,617 7,547 6
	---	23,000	22,100	20,000	---	---	33,250	---	---	---	---	
	---	23,000	22,100	20,000	---	---	33,250	---	---	---	---	
	---	---	141	---	---	---	10,253	---	---	---	---	
	0	1	2	1	0	0	2	0	0	0	0	
Analytical chemistry	---	23,750	27,000	29,600	32,500	26,125	37,260	40,500	---	---	---	29,700 25,000 21,775 26,496 6,813 46
	---	22,000	22,000	26,000	29,350	24,500	36,360	38,000	17,796	---	40,000	
	---	16,363	20,800	23,000	28,000	21,750	30,800	27,400	---	---	---	
	---	20,742	22,725	27,300	29,950	24,125	34,807	34,760	17,796	---	40,000	
	0	3,684	3,721	3,400	2,309	2,323	3,499	7,259	---	---	5,657	
Environmental chemistry	---	---	29,000	---	---	---	---	---	---	---	---	30,000 27,800 23,000 28,509 9,733 11
	---	25,000	26,000	20,000	30,000	50,000	40,200	27,800	---	---	---	
	---	---	18,300	---	---	---	---	---	---	---	---	
	---	25,000	24,120	20,000	30,000	50,000	40,200	27,800	---	---	---	
	0	1	5	1	1	1	1	1	0	0	0	
Organic chemistry	---	---	---	---	179,750	---	---	---	---	---	---	30,975 28,344 25,125 44,332 57,968 12
	---	---	25,094	27,000	31,000	28,400	30,000	---	---	---	---	
	---	---	---	---	22,500	---	---	---	---	---	---	
	---	---	25,094	27,000	77,750	28,400	30,000	---	---	---	---	
	0	0	3,668	2,828	100,331	4,101	0	---	---	0	0	
Pharmaceutical/medicinal/clinical chemistry	---	---	24,000	37,000	---	---	---	---	---	---	---	37,545 30,600 24,950 31,221 7,388 17
	---	---	22,000	31,000	33,080	36,300	28,500	37,750	39,795	---	---	
	---	---	18,500	25,900	---	---	---	---	---	---	---	
	---	---	21,500	31,300	33,080	36,300	28,500	37,750	39,795	---	---	
	0	0	3,000	5,556	5,063	8,061	707	354	3,118	---	0	
Physical chemistry	---	---	---	---	---	---	---	---	---	---	---	37,500 36,000 35,500 36,333 1,041 3
	---	---	---	36,750	35,500	---	---	---	---	---	---	
	---	---	---	36,750	35,500	---	---	---	---	---	---	
	---	---	---	1,061	---	---	---	---	---	---	---	
	0	0	0	2	1	0	0	0	0	0	0	
Theoretical	---	---	---	---	---	---	---	---	---	---	---	---
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	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	---	---	---	---	---	
	0	0	0	0	0	0	0	0	0	0	0	
Polymer/macromolecular chemistry	---	---	28,150	33,000	---	---	---	---	---	---	---	32,250 28,000 25,150 28,488 3,850 8
	---	---	25,300	30,000	34,500	---	---	---	---	---	---	
	---	---	24,100	27,000	---	---	---	---	---	---	---	
	---	---	25,850	30,000	34,500	---	---	---	---	---	---	
	0	0	2,229	3,000	---	---	---	---	---	---	---	
Other Chemical	---	---	26,400	36,500	32,300	---	---	---	---	---	---	33,050 28,400 24,000 28,365 7,362 24
	---	24,000	25,700	31,000	27,950	29,900	35,000	33,950	32,000	---	20,100	
	---	---	20,100	24,620	14,825	---	---	---	---	---	---	
	---	24,000	23,067	30,294	25,025	29,900	35,000	33,950	32,000	---	20,100	
	0	1	3,166	6,650	9,863	2,970	---	14,071	---	---	---	
TOTAL	---	24,250	27,000	33,000	34,875	32,000	37,035	39,250	39,795	---	44,000	32,000 27,240 23,000 29,656 18,792 131
	---	23,000	23,000	29,205	29,750	27,800	30,400	37,750	32,000	---	36,000	
	---	18,750	21,350	25,000	27,250	25,000	29,250	27,050	22,148	---	20,100	
	---	21,828	23,688	29,113	41,694	30,518	32,760	34,500	31,177	---	33,367	
	0	3,374	4,103	5,630	50,085	8,523	4,887	7,271	9,485	---	12,166	

TABLE-3.5.7

SALARIES of PhD CHEMISTS EMPLOYED FULL-TIME in PRIVATE INDUSTRY
by WORK SPECIALTY and YEARS SINCE BS
1981 Survey of ACS Members

SPECIALTY	YEARS SINCE BS										No Resp	TOTAL	
	(0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)			
Biochemistry	---	---	33,000	36,000	41,300	48,000	73,500	55,000	64,000	65,000	47,531	46,375	- 75th %ile
	---	---	28,200	31,000	36,300	44,000	45,900	45,000	49,250	45,000	27,500	40,000	- Median
	---	---	25,000	28,000	26,915	39,000	42,000	43,000	43,875	34,000	25,000	31,300	- 25th %ile
	---	---	29,129	32,134	35,794	45,247	62,322	50,663	52,167	64,857	33,396	43,717	- Mean
	---	---	4,445	5,468	7,765	9,587	32,483	11,928	9,647	59,311	12,107	23,212	- Std. Dev.
	0	0	7	15	13	17	9	7	6	7	6	87	- Count
Agricultural/ food chemistry	---	---	34,400	39,900	45,000	44,000	102,500	69,215	65,825	86,500	---	49,275	
	---	---	29,950	34,000	37,500	41,000	53,000	46,500	59,000	64,000	31,000	40,000	
	---	---	28,250	30,100	29,500	36,950	41,753	40,500	44,125	43,000	---	33,700	
	---	---	31,083	37,560	36,680	40,448	72,299	54,618	53,163	64,500	31,000	46,174	
	---	---	4,311	12,246	8,083	6,047	42,146	30,671	19,212	22,650	1,414	23,575	
	0	0	6	19	15	25	13	12	8	4	2	104	
Analytical	---	---	31,775	36,500	42,500	48,000	52,000	50,389	62,825	60,000	45,000	43,000	
	---	---	30,000	33,000	36,500	40,500	43,600	46,850	51,000	51,500	36,000	35,000	
	---	---	27,765	29,850	32,600	33,000	33,000	40,020	35,500	33,500	28,000	30,000	
	---	---	29,823	33,126	37,749	41,751	44,139	46,997	49,588	47,700	39,759	37,844	
	---	---	2,954	5,479	7,844	11,945	12,925	8,845	18,556	14,237	17,608	10,815	
	0	0	54	77	75	43	19	32	13	5	11	329	
Environmental chemistry	---	---	30,650	39,140	42,750	60,000	53,850	55,875	46,200	68,863	34,900	50,000	
	---	---	30,000	34,500	37,380	46,300	40,580	47,750	40,000	59,500	28,000	38,400	
	---	---	23,188	29,188	29,750	38,000	35,450	36,620	37,700	50,375	15,000	33,000	
	---	---	27,535	35,127	37,053	47,273	43,645	47,966	44,829	58,834	25,967	42,041	
	---	---	4,275	8,591	7,870	13,279	10,429	11,830	13,773	10,655	10,105	12,971	
	0	0	5	17	18	15	8	14	7	8	3	95	
Organic chemistry	---	---	34,000	36,985	46,047	48,125	59,000	60,750	63,078	64,750	59,000	49,000	
	---	---	30,550	32,970	39,580	42,900	48,000	48,500	47,600	48,000	39,800	40,000	
	---	---	29,000	29,850	33,000	38,614	40,000	39,000	39,750	39,000	33,500	33,000	
	---	---	34,350	33,651	40,044	45,336	49,138	54,651	53,931	52,886	46,777	43,787	
	---	---	20,442	6,637	9,331	13,076	12,306	28,083	21,903	18,128	17,765	17,839	
	0	0	52	88	94	74	47	57	30	40	27	509	
Pharmaceutical/ medicinal/ clinical chemistry	---	---	30,000	38,760	43,300	51,500	53,000	61,500	70,000	57,500	58,000	50,000	
	---	---	29,000	34,000	38,400	41,000	45,500	54,500	54,000	49,000	43,000	40,000	
	---	---	26,925	28,500	30,448	35,480	36,000	44,500	43,300	41,625	31,700	32,000	
	---	---	34,327	34,522	39,740	43,989	47,155	56,086	59,600	49,458	49,300	44,076	
	---	---	2,859	9,341	13,063	11,506	13,102	19,240	28,951	14,074	26,623	17,779	
	0	0	13	45	56	30	31	28	19	12	17	251	
Physical chemistry	---	---	32,074	39,875	42,000	55,250	51,500	55,050	57,600	54,000	40,000	48,000	
	---	---	31,000	36,000	36,400	44,000	45,000	47,500	53,500	45,000	37,000	39,900	
	---	---	28,800	31,050	33,000	41,600	35,820	42,250	39,736	40,650	30,780	32,100	
	---	---	30,840	36,369	38,408	50,650	45,288	48,491	51,294	48,321	35,448	41,903	
	---	---	3,349	7,478	7,606	17,369	11,438	11,603	12,839	10,144	5,643	12,416	
	0	0	37	36	47	30	26	38	17	13	11	255	
Theoretical chemistry	---	---	---	---	60,000	47,000	---	---	---	---	---	48,000	
	---	---	---	31,550	51,000	45,000	40,300	38,000	---	---	---	45,000	
	---	---	---	---	48,000	30,000	---	---	---	---	---	33,300	
	---	---	---	31,550	53,000	40,667	40,300	38,000	---	---	---	42,064	
	---	---	---	2,475	6,245	9,292	8,061	---	---	---	---	9,645	
	0	0	0	2	3	3	2	1	0	0	0	11	
Polymer/ macromolecular chemistry	---	---	32,500	37,050	42,400	49,540	50,046	61,400	55,000	58,000	49,500	48,000	
	---	---	30,500	34,000	38,600	42,000	44,300	48,000	45,250	47,100	37,000	40,000	
	---	---	28,560	31,000	34,575	37,000	37,492	40,000	38,850	39,000	33,000	34,000	
	---	---	30,412	35,111	38,941	43,573	44,296	53,721	48,522	49,428	39,737	42,559	
	---	---	2,878	6,385	7,332	9,979	10,147	20,483	15,580	19,598	12,738	13,893	
	0	0	33	74	94	77	61	70	30	31	23	493	
Other Chemistry	---	---	32,100	36,920	42,400	46,600	51,480	56,500	60,000	60,000	65,250	48,000	
	---	---	30,000	32,100	38,000	35,400	42,000	47,500	46,000	56,000	45,000	37,200	
	---	---	28,200	29,300	34,000	31,125	38,000	40,000	42,750	45,250	27,975	31,050	
	---	---	27,920	30,226	34,127	40,641	40,742	44,899	52,292	50,891	62,815	50,663	
	---	---	4,356	2,776	6,719	10,889	14,452	12,640	22,044	13,381	37,036	28,030	
	0	2	31	53	37	24	27	32	22	12	8	248	
TOTAL	---	---	32,000	37,125	43,000	48,877	53,000	59,500	60,000	60,000	49,125	48,000	
	---	---	27,920	30,000	33,500	38,000	42,450	45,000	48,000	49,750	37,620	39,000	
	---	---	28,500	30,000	33,000	36,875	38,000	40,000	40,000	40,000	30,195	32,188	
	---	---	27,920	30,986	34,361	39,008	44,183	47,870	52,184	51,936	53,366	42,480	
	---	---	4,356	10,047	7,225	9,176	12,289	17,099	20,465	18,701	23,278	18,639	
	0	2	238	426	452	338	243	291	152	132	108	2,382	

TABLE-3.5.9

SALARIES of PhD CHEMISTS EMPLOYED FULL-TIME in PRIVATE INDUSTRY--WOMEN Only
by WORK SPECIALTY and YEARS SINCE BS
1981 Survey of ACS Members

SPECIALTY	YEARS SINCE BS										No Resp	TOTAL		
	(0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(≥40)				
Biochemistry	---	---	26,600	28,554	44,796 35,800 27,029	---	---	---	---	---	---	28,000	34,350	- 75th %ile
	---	---	---	---	---	---	---	---	---	---	---	---	28,100	- Median
	---	---	26,600	28,554	35,875	---	---	---	---	---	---	28,000	27,049	- 25th %ile
	---	---	2,263	2,045	8,884	---	---	---	---	---	---	---	30,742	- Mean
	0	0	2	2	3	0	0	0	0	0	0	1	6,520	- Std. Dev.
													8	- Count
Agricultural/food chemistry	---	---	---	---	---	---	---	---	---	---	---	30,000	30,000	
	---	---	---	---	---	---	---	---	---	---	---	30,000	30,000	
	0	0	0	0	0	0	0	0	0	0	0	1	1	
Analytical chemistry	---	---	32,750	29,700	42,000	37,200	---	---	---	---	---	---	34,650	
	---	---	30,500	26,640	34,800	33,000	---	---	23,290	---	---	28,500	29,700	
	---	---	28,170	23,500	29,500	27,300	---	---	---	---	---	---	26,970	
	---	---	30,716	27,063	35,711	32,500	---	---	23,290	---	---	28,500	30,557	
	---	---	3,565	4,262	6,488	4,969	---	---	9,546	---	---	707	5,946	
	0	0	8	7	7	3	0	0	2	0	0	2	29	
Environmental chemistry	---	---	---	33,840	---	---	---	---	---	---	---	---	34,425	
	---	---	25,376	29,375	36,100	---	---	---	---	---	---	15,000	29,188	
	---	---	---	28,000	---	---	---	---	---	---	---	---	25,782	
	---	---	25,376	30,611	36,100	---	---	---	---	---	---	15,000	28,691	
	---	---	---	4,400	---	---	---	---	---	---	---	---	7,063	
	0	0	1	5	1	0	0	0	0	0	0	1	8	
Organic Chemistry	---	---	37,400	39,020	44,175	---	---	---	---	---	---	---	39,500	
	---	---	32,000	32,800	35,850	34,258	43,000	37,316	---	---	---	---	33,516	
	---	---	29,000	29,260	26,400	---	---	---	---	---	---	---	30,760	
	---	---	32,800	33,872	35,475	34,258	43,000	37,316	---	---	---	---	35,382	
	---	---	4,257	6,534	9,196	1,049	4,243	---	---	---	---	---	6,293	
	0	0	3	5	4	2	2	1	0	0	0	0	17	
Pharmaceutical/medical/clinical chemistry	---	---	---	40,600	43,500	---	---	---	---	---	---	---	41,300	
	---	---	34,000	30,000	39,000	---	27,000	40,000	50,000	---	---	26,500	38,000	
	---	---	---	20,500	34,000	---	---	---	---	---	---	---	28,500	
	---	---	34,000	30,367	38,800	---	27,000	40,000	50,000	---	---	26,500	35,585	
	---	---	---	10,055	5,630	---	---	---	---	---	---	---	8,408	
	0	0	1	3	5	0	1	1	1	0	0	1	13	
Physical Chemistry	---	---	30,675	---	---	54,000	---	---	---	---	---	---	34,500	
	---	---	29,370	32,612	30,050	43,000	27,500	---	---	---	---	---	30,050	
	---	---	28,725	---	---	33,000	---	---	---	---	---	---	28,800	
	---	---	29,690	32,612	30,050	43,333	27,500	---	---	---	---	---	33,147	
	---	---	1,256	4,791	---	10,504	---	---	---	---	---	---	7,509	
	0	0	6	2	1	3	1	0	0	0	0	0	13	
Theoretical chemistry	---	---	---	33,300	---	---	---	---	---	---	---	---	35,650	
	---	---	---	---	---	---	---	38,000	---	---	---	---	---	
	---	---	---	33,300	---	---	---	38,000	---	---	---	---	35,650	
	0	0	0	1	0	0	0	1	0	0	0	0	3,323	
													2	
Polymer/macromolecular chemistry	---	---	30,300	40,000	38,000	---	---	---	---	---	---	---	37,100	
	---	---	29,350	37,200	34,500	29,400	---	---	---	---	---	35,000	32,640	
	---	---	28,625	32,640	30,000	---	---	---	---	---	---	---	29,550	
	---	---	29,425	36,613	34,167	29,400	---	---	---	---	---	35,000	33,034	
	---	---	869	3,715	4,010	---	---	---	---	---	---	2,828	3,930	
	0	0	4	3	3	1	0	0	0	0	0	2	13	
Other Chemistry	---	---	31,550	37,000	---	---	---	---	---	---	---	---	37,899	
	---	31,000	30,930	31,700	---	32,000	40,720	69,026	---	---	---	37,150	31,850	
	---	---	30,000	29,000	---	---	---	---	---	---	---	---	30,233	
	---	31,000	30,806	32,567	---	32,000	40,720	69,026	---	---	---	37,150	38,033	
	---	---	870	4,070	---	---	4,639	43,804	---	---	---	13,930	17,406	
	0	1	5	3	0	1	2	2	0	0	0	2	16	
TOTAL	---	---	31,850	35,000	41,375	38,650	44,500	70,000	50,000	---	---	34,000	37,238	
	---	31,000	30,000	29,700	35,950	33,258	38,720	38,052	30,000	---	---	28,500	31,000	
	---	---	28,725	27,600	30,013	31,350	27,375	37,658	16,500	---	---	27,100	29,000	
	---	31,000	30,219	31,165	35,923	35,742	36,990	50,674	32,167	---	---	30,080	33,299	
	---	---	2,849	5,545	6,288	7,704	8,117	27,592	16,855	---	---	8,168	8,935	
	0	1	30	31	24	10	6	5	3	0	0	10	120	

TABLE-3.6.1

SALARIES of B.S. CHEMISTS EMPLOYED FULL-TIME in PRIVATE INDUSTRY
by INDUSTRY and YEARS SINCE BS
1981 Survey of ACS Members

NON-ACAD EMPLOYER	YEARS SINCE BS											TOTAL
	(0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)	No Resp	
Mfg Chem	21,180 20,845 18,925 20,966 3,675 8	22,000 20,000 17,937 20,617 4,333 56	27,150 23,174 20,000 24,164 6,866 66	34,625 28,746 24,000 29,603 6,494 50	41,000 33,000 28,000 36,440 13,574 47	47,000 39,250 30,000 39,733 11,644 40	43,350 35,820 28,233 38,398 15,664 49	44,000 36,400 30,000 44,158 27,180 74	50,200 38,000 30,180 44,720 23,030 41	48,700 40,000 32,860 41,645 10,646 25	32,280 27,000 21,600 26,960 5,340 3	39,600 - 75th %-ile 30,000 - Median 23,820 - 25th %-ile 34,431 - Mean 17,785 - Std. Dev. 459 - Count
Mfg Coat	30,000 20,000 17,000 22,333 6,807 3	21,710 19,300 17,050 19,407 2,877 21	25,500 22,000 19,500 23,094 5,249 23	34,800 33,750 27,400 35,042 7,364 16	32,600 26,000 24,200 27,322 6,150 9	36,800 30,200 26,650 32,209 6,613 17	40,750 39,800 35,500 38,478 5,942 9	44,250 35,500 27,490 43,031 37,531 30	67,200 48,360 40,250 59,196 22,547 9	45,500 32,148 28,500 36,030 10,372 5	--- --- --- --- --- 0	38,125 29,060 22,000 32,690 21,111 142
Mfg Food	24,100 24,000 12,400 20,167 6,726 3	22,625 19,700 16,625 19,250 3,206 12	23,400 20,700 17,100 20,673 6,084 11	31,000 22,500 18,563 24,230 6,499 12	35,625 31,300 22,905 30,087 6,249 6	31,444 30,000 28,000 29,326 4,719 9	43,000 32,000 29,700 34,900 7,108 3	48,000 37,160 26,500 42,538 22,369 12	69,375 34,650 24,450 42,825 25,597 4	28,775 25,050 24,625 26,150 2,580 4	--- --- --- --- --- 0	32,000 24,300 20,550 28,226 13,893 76
Mfg Metals/ minerals	--- 21,450 --- 21,450 --- 1	23,059 20,236 17,375 20,575 4,378 10	24,000 22,000 20,000 22,195 3,517 15	32,168 28,450 22,780 28,854 7,482 8	34,115 30,530 23,150 29,265 5,948 4	74,275 42,800 27,000 48,025 25,251 4	32,000 25,895 22,000 29,162 10,109 7	39,750 32,500 26,625 34,025 8,494 10	67,000 41,500 30,210 48,973 27,715 6	--- 36,000 --- 36,000 --- 1	--- 32,270 --- 32,270 10,281 2	34,500 25,000 21,880 29,983 14,208 68
Mfg Paper	--- 15,500 --- 15,500 --- 1	21,602 19,000 16,050 18,861 2,889 5	24,125 22,000 17,295 20,987 3,763 6	30,888 27,276 26,925 28,363 2,442 4	--- 34,000 --- 34,000 --- 1	--- 38,500 --- 38,500 9,192 2	--- 33,400 --- 33,400 --- 1	42,000 35,700 30,000 35,900 6,002 3	--- 27,000 --- 27,000 --- 1	--- --- --- --- --- 0	--- --- --- --- --- 0	32,000 25,700 19,250 26,178 8,189 24
Mfg Petroleum	18,525 18,100 17,675 18,100 440 4	22,750 20,250 19,248 21,444 3,471 12	31,050 27,450 20,750 26,778 5,657 10	39,986 29,500 25,000 32,482 11,920 13	39,180 34,200 32,000 33,407 8,375 11	36,258 32,266 23,735 30,753 6,761 4	--- 48,500 --- 48,500 2,121 2	47,750 42,410 29,750 39,767 9,706 14	49,000 43,000 40,000 42,554 5,970 7	61,875 44,250 41,500 50,365 12,027 10	--- 24,387 --- 24,387 867 2	42,500 32,000 23,387 33,869 12,372 89
Mfg Pharm	23,600 17,500 16,920 19,340 3,701 3	20,158 18,320 16,850 18,636 3,049 40	25,000 22,000 18,500 22,291 5,000 71	32,500 28,000 24,945 29,650 6,700 39	37,000 31,000 25,000 31,539 8,075 27	37,500 31,000 26,400 32,762 7,917 27	40,000 34,000 30,000 35,538 8,889 23	47,000 42,000 34,000 41,935 9,137 27	48,000 36,000 27,500 37,633 10,311 9	49,875 33,500 28,250 41,417 24,109 6	--- --- --- --- --- 0	34,000 26,235 21,000 28,733 10,567 272
Mfg Rubber	--- 18,000 --- 18,000 0 2	22,000 20,160 18,490 20,228 1,755 5	27,375 24,390 20,050 23,947 3,781 6	--- 29,000 --- 29,000 --- 1	32,700 29,280 25,742 29,724 5,054 9	33,222 30,616 25,700 29,846 3,986 4	48,000 37,275 24,000 35,965 12,224 7	49,500 34,150 29,000 38,345 12,497 13	50,000 37,500 27,375 38,583 12,010 6	50,625 43,380 29,500 41,710 12,432 6	--- --- --- --- --- 0	39,600 29,280 24,000 32,690 11,432 59
Mfg Other	25,490 18,000 15,950 20,853 7,316 6	23,040 20,000 17,500 20,454 4,159 42	27,000 23,750 20,000 24,250 5,778 70	30,000 26,400 22,675 27,383 6,862 50	35,025 29,350 24,450 31,314 10,657 38	37,491 30,400 25,540 31,382 7,248 28	41,250 35,000 32,188 38,603 12,412 26	49,000 36,000 30,000 38,193 14,148 47	36,240 28,000 22,500 31,876 12,952 15	45,000 34,440 32,000 39,889 16,199 19	--- --- --- --- --- 0	35,000 27,000 22,000 29,778 11,558 341
Non-Mfg	16,500 14,350 13,000 15,397 3,215 7	22,000 19,000 14,750 20,063 8,213 25	24,090 21,200 17,675 21,482 4,876 44	30,850 26,600 21,149 27,596 8,793 12	42,100 32,600 26,600 35,363 12,067 8	54,750 33,500 29,250 38,222 14,518 8	43,125 34,000 25,650 33,963 9,948 8	40,000 35,000 25,000 33,545 9,684 13	58,500 42,500 31,000 44,000 14,537 4	54,750 38,500 24,943 41,295 19,059 6	--- --- --- --- --- 0	31,200 23,592 18,900 26,711 11,810 135
TOTAL	21,293 18,000 16,000 19,250 4,755 38	22,000 19,855 17,242 19,990 4,456 228	25,850 22,500 19,775 23,134 5,662 322	33,000 28,000 23,630 29,033 7,412 205	36,875 31,380 25,500 32,810 10,687 160	39,600 32,232 28,700 34,835 10,499 143	41,700 35,000 29,000 37,122 12,515 135	45,000 36,300 30,000 40,888 22,202 243	49,625 38,500 29,000 42,594 19,902 102	47,425 38,250 31,825 41,097 14,331 82	32,280 25,000 23,774 27,742 6,176 7	36,000 28,000 22,000 31,097 14,810 1,665

TABLE-3.6.2

SALARIES of M.S. CHEMISTS EMPLOYED FULL-TIME in PRIVATE INDUSTRY
by INDUSTRY and YEARS SINCE BS
1981 Survey of ACS Members

NON-ACAD EMPLOYER	YEARS SINCE BS											TOTAL	
	(0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)	No Resp		
Mfg Chem	---	24,250	27,430	33,030	43,000	46,050	46,800	48,000	53,000	53,000	45,000	42,391	- 75th %-ile
	---	20,500	24,110	27,890	38,000	36,000	37,500	38,000	41,000	50,000	35,000	34,000	- Median
	---	19,400	21,805	24,750	32,500	30,200	29,000	33,250	32,000	32,500	29,000	26,500	- 25th %-ile
	---	21,510	24,809	33,430	38,856	37,829	45,499	40,817	43,036	46,433	38,227	37,295	- Mean
	---	2,629	4,207	31,709	9,427	10,381	29,014	10,766	13,060	17,273	11,695	19,323	- Std. Dev.
	0	10	42	46	39	30	37	53	19	19	11	306	- Count
Mfg Coat	---	---	25,786	37,500	35,000	37,960	86,250	42,000	52,000	---	29,815	37,125	
	---	---	22,300	32,700	30,738	37,000	39,250	35,500	23,000	55,000	29,130	31,500	
	---	---	21,350	30,000	25,000	29,000	30,625	34,290	18,000	---	21,650	25,429	
	---	---	23,332	33,747	29,927	35,794	64,250	37,215	31,000	55,000	26,865	35,615	
	---	---	3,896	6,658	5,566	7,666	59,591	8,409	18,358	---	5,128	23,896	
	0	0	13	11	7	7	8	12	3	1	4	66	
Mfg Food	---	---	22,600	35,000	---	35,205	69,000	36,250	57,500	49,800	58,750	42,000	
	---	---	21,500	28,500	43,000	30,950	53,000	32,000	35,000	34,000	45,500	31,000	
	---	---	18,900	28,000	---	30,070	51,500	30,000	19,400	28,000	28,500	26,000	
	---	---	20,900	30,664	43,000	32,075	57,833	32,750	37,300	37,267	44,250	34,759	
	---	---	2,005	5,809	---	2,969	9,700	3,403	20,845	11,261	15,966	12,758	
	0	0	5	11	1	4	3	4	4	3	4	39	
Mfg Metals/ minerals	---	---	27,000	31,155	51,000	---	---	38,950	42,000	---	---	38,000	
	---	23,700	22,850	26,545	50,000	36,250	---	38,000	30,000	49,000	55,000	29,130	
	---	---	19,515	18,075	35,000	---	---	31,250	17,796	---	---	21,600	
	---	23,700	24,779	25,126	45,333	36,250	---	35,680	29,932	49,000	55,000	30,324	
	---	---	6,619	6,390	8,963	354	---	6,304	12,102	---	---	10,406	
	0	1	14	8	3	2	0	5	3	1	1	38	
Mfg Paper	---	---	---	---	48,828	---	42,400	---	---	---	---	41,000	
	---	---	21,000	24,240	37,000	25,500	32,000	---	41,000	30,000	---	30,000	
	---	---	---	---	22,250	---	29,440	---	---	---	---	25,000	
	---	---	21,000	24,240	35,831	25,900	35,136	---	41,000	30,000	---	33,105	
	---	---	---	---	13,534	---	6,931	---	---	---	---	9,774	
	0	0	1	1	5	1	5	0	1	1	0	15	
Mfg Petroleum	---	24,750	27,000	34,425	41,500	48,400	48,500	60,750	---	63,500	---	47,000	
	---	23,500	25,000	31,300	36,000	35,100	46,300	52,500	50,000	45,350	38,550	35,750	
	---	20,150	24,420	25,007	26,950	26,000	43,000	35,670	---	38,960	---	25,836	
	---	22,800	26,009	30,370	34,580	36,780	45,498	48,660	50,000	49,748	38,550	37,952	
	---	2,535	2,714	6,030	7,327	12,005	7,656	15,892	16,971	13,669	26,092	13,493	
	0	4	11	10	5	5	11	6	2	10	2	66	
Mfg Pharm	---	24,025	25,650	35,600	36,495	38,800	45,000	45,000	45,000	52,000	40,000	38,000	
	---	22,000	22,500	28,600	29,550	30,950	38,600	38,250	38,000	40,000	30,000	29,255	
	---	18,703	20,469	25,450	26,000	27,119	30,000	33,980	33,000	37,000	21,000	24,050	
	---	21,445	23,007	34,954	37,338	32,792	38,391	41,097	39,924	43,700	30,333	33,921	
	---	3,336	3,791	34,684	32,807	7,748	10,486	12,319	9,988	13,352	9,504	23,077	
	0	6	42	41	40	14	16	23	11	8	3	204	
Mfg Rubber	---	---	29,550	---	35,000	---	44,200	53,000	70,000	---	---	42,000	
	---	---	26,100	30,300	35,000	44,000	34,000	41,000	35,750	34,000	38,000	34,000	
	---	---	23,850	---	27,340	---	28,843	32,250	28,875	---	---	30,150	
	---	---	26,500	30,300	32,447	44,000	36,017	49,875	44,875	34,000	38,000	39,387	
	---	---	3,092	---	4,423	---	8,820	29,493	23,953	1,414	---	19,106	
	0	0	4	1	3	1	5	8	4	2	1	29	
Mfg Other	---	24,888	26,750	34,500	36,010	42,600	42,398	44,450	46,775	78,750	49,500	38,840	
	---	24,000	24,400	30,000	32,000	34,000	36,000	40,000	39,000	39,400	36,000	31,000	
	---	23,000	20,825	26,700	26,400	30,500	31,000	32,300	33,750	31,105	26,160	26,000	
	---	23,805	23,980	34,687	32,441	37,547	37,685	40,114	41,410	52,457	36,331	34,248	
	---	1,100	3,763	30,758	8,710	11,974	9,242	8,756	13,040	29,984	10,392	17,379	
	0	10	37	43	29	17	28	29	10	6	7	216	
Non-Mfg	---	24,500	25,350	29,500	35,000	43,500	44,000	50,000	---	41,118	52,000	35,800	
	---	21,000	21,000	26,000	28,775	37,000	37,260	33,000	---	28,000	41,250	29,000	
	---	16,500	18,908	21,000	23,750	33,200	20,000	31,000	---	24,350	28,100	22,000	
	---	20,667	22,655	27,473	28,434	43,467	33,052	38,329	---	31,156	40,430	30,595	
	---	4,010	4,815	7,537	7,903	17,923	12,330	9,862	---	9,467	11,970	11,600	
	0	3	13	19	22	11	5	7	0	4	3	87	
TOTAL	---	24,500	26,643	33,200	38,625	42,375	45,925	45,000	49,050	53,000	48,375	40,000	
	---	23,000	23,500	29,000	33,108	39,000	38,750	38,000	39,000	41,000	35,500	31,770	
	---	20,000	21,000	25,000	27,000	30,285	30,000	33,000	31,250	32,000	28,325	25,500	
	---	22,315	23,944	32,734	35,150	37,121	42,897	40,729	40,762	45,136	37,270	35,079	
	---	2,608	4,208	26,861	18,549	11,188	24,064	12,290	13,959	16,920	12,124	18,762	
	0	34	182	191	154	92	118	147	57	55	36	1,066	

TABLE-3.6.3

SALARIES of PhD CHEMISTS EMPLOYED FULL-TIME In PRIVATE INDUSTRY
by INDUSTRY and YEARS SINCE BS
1981 Survey of ACS Members

NON-ACAD EMPLOYER	YEARS SINCE BS											TOTAL
	(0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)	No Resp	
Mfg Chem	---	---	31,800	36,000	43,882	48,000	53,500	60,000	62,650	69,810	51,000	48,000 - 75th %ile 39,500 - Median 33,000 - 25th %ile 43,343 - Mean 17,491 - Std. Dev. 846 - Count
	---	24,840	30,000	33,000	39,200	42,250	43,850	49,850	48,000	50,000	39,400	
	---	---	28,500	29,700	34,700	36,000	38,000	40,000	41,000	40,250	33,000	
	---	24,840	31,725	33,693	39,497	44,689	47,807	54,095	53,968	55,948	45,014	
	---	---	15,491	6,657	7,617	12,978	17,989	23,844	18,546	19,661	19,264	
	0	1	91	147	145	107	94	112	57	48	44	
Mfg Coat	---	---	33,024	36,000	41,800	47,000	62,250	65,625	57,000	52,000	53,000	45,000
	---	---	30,000	31,900	39,000	41,000	45,500	57,150	55,000	46,000	29,400	35,000
	---	---	29,850	30,000	35,025	31,350	34,950	46,750	31,500	34,206	5,500	31,000
	---	---	31,290	32,782	39,964	41,514	49,250	57,133	47,833	43,682	29,300	39,447
	---	---	2,133	5,414	8,842	10,954	15,554	11,259	14,180	9,712	23,750	12,017
	0	0	13	23	20	14	10	6	3	5	3	97
Mfg Food	---	---	33,000	37,250	39,000	44,000	88,000	55,250	66,000	52,000	---	44,750
	---	---	31,500	30,550	33,116	40,000	45,000	46,250	53,500	40,000	32,000	35,000
	---	---	29,500	25,150	28,525	32,000	35,650	42,500	24,050	34,000	---	30,300
	---	---	31,314	33,283	34,374	37,720	58,460	49,917	46,720	42,000	32,000	38,613
	---	---	3,171	10,329	7,591	8,634	36,890	15,416	23,475	9,165	---	15,206
	0	0	7	14	17	15	5	6	5	3	1	73
Mfg Metals/ minerals	---	---	32,000	36,795	36,750	50,000	---	54,500	54,500	---	---	49,050
	---	---	29,750	34,000	33,250	41,600	38,200	46,000	53,500	36,000	---	38,000
	---	---	28,025	31,725	29,750	36,500	---	45,000	49,600	---	---	32,000
	---	---	29,833	34,493	33,750	46,527	38,200	48,135	52,340	36,000	---	41,166
	---	---	1,964	3,430	4,623	16,287	11,031	6,203	3,511	---	---	11,745
	0	0	6	6	6	11	2	7	5	1	0	44
Mfg Paper	---	---	30,810	34,600	41,000	41,400	42,500	---	48,750	60,000	52,500	40,500
	---	---	29,000	31,315	36,500	40,100	36,250	40,800	38,350	57,000	28,000	37,000
	---	---	24,100	29,875	30,500	38,574	34,000	---	34,695	55,000	28,000	30,960
	---	---	27,764	32,053	35,661	40,132	38,417	40,800	43,480	57,333	36,167	37,981
	---	---	4,773	2,513	6,451	1,566	6,135	---	15,618	2,517	14,145	10,031
	0	0	5	5	10	6	6	1	6	3	3	45
Mfg Petroleum	---	---	34,700	41,450	49,000	55,250	54,000	62,100	72,000	65,000	70,000	52,380
	---	31,000	33,000	35,500	42,500	47,650	50,000	49,500	60,000	55,000	43,000	43,000
	---	---	31,250	32,000	37,000	42,750	42,000	46,250	49,400	48,000	40,000	34,800
	---	31,000	33,958	36,956	42,717	50,877	49,652	52,023	59,557	59,773	52,929	45,246
	---	---	4,771	6,981	7,786	14,168	10,114	9,386	13,461	16,325	18,615	12,933
	0	1	25	40	31	26	19	24	7	11	7	191
Mfg Pharm	---	---	30,000	38,000	44,898	50,000	55,150	60,000	67,975	58,000	51,000	49,850
	---	---	28,600	34,400	39,000	44,000	47,000	50,000	52,500	51,000	40,200	40,000
	---	---	26,400	29,800	32,300	39,000	42,000	40,000	43,225	38,184	34,000	32,300
	---	---	28,522	34,559	40,643	45,185	48,854	54,692	58,008	48,323	45,218	43,341
	---	---	2,965	7,838	11,908	10,738	11,710	22,462	25,996	15,131	21,413	16,526
	0	0	31	75	89	55	37	47	26	19	23	402
Mfg Rubber	---	---	---	35,500	42,925	45,600	46,685	48,900	55,650	51,250	---	45,720
	---	---	27,510	31,000	40,000	41,600	45,000	40,080	48,000	46,350	29,200	41,137
	---	---	---	30,000	37,875	40,000	37,542	39,000	41,500	40,478	---	37,500
	---	---	27,510	32,167	40,485	42,831	43,470	42,933	48,460	45,890	29,200	41,731
	---	---	1,570	2,930	4,149	7,520	6,467	5,280	7,730	5,333	8,061	7,397
	0	0	2	3	12	11	9	9	5	6	2	59
Mfg Other	---	---	33,950	37,350	42,250	50,000	51,625	53,000	55,000	56,700	42,450	46,000
	---	---	30,050	33,000	35,000	42,000	44,500	44,000	45,000	43,500	33,000	37,600
	---	---	28,525	29,112	32,000	35,550	35,397	38,000	37,525	38,700	28,000	32,000
	---	---	30,724	33,847	37,992	43,897	46,790	48,582	47,569	51,837	36,958	41,002
	---	---	3,692	6,331	9,653	12,593	20,100	18,977	15,369	28,096	14,033	15,484
	0	0	40	89	89	69	48	59	30	25	19	468
Non-Mfg	---	---	31,750	44,300	41,000	44,000	63,500	63,000	50,000	65,000	41,500	46,050
	---	---	30,300	36,500	34,300	38,750	51,000	45,380	40,000	48,000	32,890	37,000
	---	---	27,750	31,250	29,400	32,250	34,500	37,345	30,300	40,000	26,500	30,965
	---	---	29,267	38,271	34,948	39,355	50,662	51,748	40,500	59,955	34,630	40,942
	---	---	3,020	10,967	7,943	10,338	20,192	19,583	10,035	48,016	11,305	18,884
	0	0	18	24	33	24	13	20	8	11	6	157
TOTAL	---	---	32,000	37,125	43,000	48,877	53,000	59,500	60,000	60,000	49,125	48,000
	---	27,920	30,000	33,500	38,000	42,450	45,000	48,000	48,000	49,750	37,620	39,000
	---	---	28,500	30,000	33,000	36,875	38,000	40,000	40,000	40,000	30,195	32,188
	---	27,920	30,986	34,361	39,008	44,183	47,870	52,184	51,936	53,366	42,480	42,392
	---	4,356	10,047	7,225	9,176	12,289	17,099	20,465	18,701	23,278	18,639	16,114
	0	2	238	426	452	338	243	291	152	132	108	2,382

TABLE-4.7.1

SALARIES of PhD CHEMISTS EMPLOYED FULL-TIME in COLLEGE/UNIVERSITY
by TYPE OF INSTITUTION and ACADEMIC RANK
1981 Survey of ACS Members

ACADEMIC RANK	ACADEMIC EMPLOYER								TOTAL
	Private Doct.	Private Masters	Private Bachelors	Private Assoc.	Public Doct.	Public Masters	Public Bachelors	Public Assoc.	
Professor	48,000	33,000	27,961	---	45,000	34,238	33,625	31,250	40,000 - 75th %-ile
	40,000	30,000	24,000	31,200	36,600	29,500	29,505	27,555	32,500 - Median
	31,900	26,000	21,000	---	30,925	26,198	25,000	25,145	27,025 - 25th %-ile
	41,908	29,663	25,102	31,200	38,418	30,078	29,532	29,214	34,864 - Mean
	20,267	5,340	5,060	---	9,570	4,760	5,307	7,492	12,325 - Std. Dev.
	118	31	97	1	305	73	66	18	709 - Count
Associate professor	33,500	24,750	22,050	---	30,000	24,607	23,789	27,962	28,000
	26,200	23,605	20,250	24,030	26,000	22,750	22,000	23,750	24,000
	23,502	18,075	17,965	---	23,200	21,000	20,000	20,000	21,500
	32,302	22,521	20,436	24,030	26,727	23,127	22,318	23,948	25,578
	29,362	4,273	3,846	---	4,434	2,886	3,500	4,628	13,053
	55	10	46	1	125	32	44	14	327
Assistant professor	26,000	18,475	17,500	---	24,500	19,575	18,975	19,000	22,700
	21,950	17,150	16,800	---	20,300	18,000	18,000	16,450	19,100
	19,475	14,725	15,600	---	18,500	17,000	15,969	15,750	17,100
	22,998	16,890	16,928	---	21,408	18,227	17,917	17,190	20,368
	4,951	1,985	2,012	---	4,304	2,568	2,386	1,828	4,494
	62	10	41	0	111	20	18	5	267
Instructor or lecturer	29,250	---	---	---	20,000	---	---	31,000	25,000
	21,000	---	12,850	25,000	16,450	17,500	16,400	23,000	18,800
	18,875	---	---	---	14,650	---	---	15,900	15,600
	23,450	---	12,850	25,000	19,710	17,500	16,400	24,170	21,195
	5,740	---	1,202	---	11,740	---	3,394	7,841	8,733
	5	0	2	1	10	1	2	10	31
Non-Faculty	27,950	---	---	---	27,000	---	---	---	27,000
	21,000	---	---	---	21,000	15,000	---	---	21,000
	15,850	---	---	---	16,800	---	---	---	16,400
	22,978	---	---	---	21,982	15,000	---	---	22,391
	9,376	---	---	---	6,626	---	---	---	8,106
	37	0	0	0	35	1	0	0	73
Unranked	28,000	---	18,270	---	27,000	---	---	28,000	27,200
	20,000	21,840	18,000	---	21,000	---	26,000	22,425	20,325
	13,240	---	17,935	---	17,040	---	---	18,900	17,711
	20,413	21,840	18,068	---	21,741	---	26,000	22,605	21,685
	7,389	9,673	178	---	6,440	---	---	5,433	5,826
	3	2	3	0	15	0	1	10	34
No Response	---	---	36,500	---	42,250	---	---	---	27,200
	27,400	---	25,950	---	25,000	23,950	22,833	---	25,000
	---	---	18,925	---	22,000	---	---	---	21,250
	27,400	---	27,125	---	29,750	23,950	22,833	---	26,805
	---	---	9,649	---	12,312	4,313	1,884	---	8,364
	1	0	4	0	4	2	2	0	13
TOTAL	38,000	30,500	24,900	31,200	38,000	30,025	29,905	29,452	33,972
	29,000	26,000	21,000	25,000	29,300	25,600	24,000	24,500	26,200
	22,150	18,650	17,898	24,030	23,000	21,400	20,985	20,000	21,000
	32,753	25,610	22,059	26,743	31,151	26,207	25,249	24,821	28,816
	20,682	6,992	5,583	3,890	10,824	6,197	6,273	7,030	12,649
	281	53	193	3	605	129	133	57	1,454

SALARIES of PhD CHEMISTS EMPLOYED FULL-TIME in COLLEGE/UNIVERSITY
by RANK and YEARS SINCE BS
1981 Survey of ACS Members

YEARS SINCE BS	ACADEMIC RANK							TOTAL	
	Professor	Assoc. Prof.	Assist. Prof.	Inst./ Lecturer	Non-Faculty	Un-ranked	No Resp		
(5-9)	---	---	20,875	16,000	18,500	---	---	20,488	- 75th %ile
	29,000	24,000	18,375	15,200	16,700	12,620	---	18,000	- Median
	---	---	16,575	13,000	14,050	---	---	16,000	- 25th %ile
	29,000	24,000	19,228	14,733	16,720	12,620	---	18,801	- Mean
	---	2,828	3,456	1,553	3,770	877	---	3,933	- Std. Dev.
	1	2	58	3	10	2	0	76	- Count
(10-14)	---	24,975	22,775	19,813	23,750	25,750	---	24,000	
	27,000	23,100	19,022	17,250	18,000	19,000	---	20,000	
	---	19,400	17,213	15,200	15,000	15,320	---	17,375	
	27,000	22,621	20,470	17,835	18,956	20,438	---	20,740	
	4,243	4,127	4,682	3,698	5,245	6,007	---	4,792	
	2	52	132	10	24	9	0	229	
(15-19)	32,000	26,500	25,000	27,500	27,493	22,810	26,650	28,000	
	27,400	23,000	19,600	18,800	22,500	19,850	24,165	23,750	
	23,900	21,000	18,000	15,600	19,370	17,201	21,250	20,805	
	29,504	24,193	21,395	21,000	24,411	19,953	23,993	25,169	
	8,753	5,301	4,737	7,736	7,239	3,425	2,759	7,160	
	85	123	47	5	17	6	5	288	
(20-24)	35,900	28,400	22,525	---	31,750	28,020	26,000	33,073	
	30,000	24,700	19,900	34,000	24,200	20,975	25,000	28,000	
	26,000	22,000	17,175	---	18,125	19,793	20,900	23,825	
	31,772	25,458	20,797	34,000	24,650	22,833	23,967	29,111	
	7,906	5,080	4,874	2,828	7,204	4,331	2,702	7,867	
	171	69	16	2	6	6	3	273	
(25-29)	39,375	30,650	23,275	28,500	31,000	---	---	37,250	
	32,500	26,000	22,000	22,000	28,500	25,000	26,000	30,000	
	26,510	22,950	18,150	14,000	23,000	---	---	25,000	
	34,968	27,611	20,970	21,500	27,500	25,000	26,000	32,698	
	17,896	6,304	3,067	7,550	4,093	1,414	1,414	16,118	
	148	37	5	4	3	2	2	201	
(30-34)	45,000	30,375	20,500	---	---	33,300	---	42,500	
	34,476	26,620	20,000	40,552	36,500	30,000	---	33,000	
	29,350	22,400	12,544	---	---	28,600	---	28,000	
	37,323	26,289	17,681	40,552	36,500	30,633	---	35,746	
	11,871	4,768	4,456	16,190	7,778	2,413	---	11,855	
	121	14	3	2	2	3	0	145	
(35-39)	46,235	32,450	---	---	---	---	---	43,000	
	36,200	25,000	20,000	25,000	27,500	---	40,000	35,500	
	31,300	21,522	---	---	---	---	---	30,000	
	38,507	26,758	20,000	25,000	27,500	---	40,000	36,786	
	10,543	6,597	---	---	17,678	---	---	10,974	
	78	9	1	1	2	0	1	92	
(>=40)	46,500	32,000	---	---	29,544	---	---	45,000	
	38,500	27,000	---	22,000	22,500	21,000	48,000	36,500	
	32,225	22,100	---	---	20,784	---	---	29,544	
	39,695	27,514	---	22,000	24,276	21,000	48,000	37,772	
	10,057	5,765	---	---	4,642	---	---	10,705	
	70	7	0	1	3	1	1	83	
No Response	45,000	32,850	27,250	21,000	37,250	29,000	---	39,000	
	36,000	26,123	18,700	16,400	25,000	20,000	16,600	29,000	
	30,184	22,425	15,750	10,000	16,800	15,250	---	21,000	
	37,012	41,741	20,940	15,800	27,700	21,700	16,600	33,570	
	9,940	57,285	7,051	5,524	14,209	7,032	---	27,950	
	33	14	5	3	6	5	1	67	
TOTAL	40,000	28,000	22,700	25,000	27,000	27,200	27,200	33,972	
	32,500	24,000	19,100	18,800	21,000	20,325	25,000	26,200	
	27,025	21,500	17,100	15,600	16,400	17,711	21,250	21,000	
	34,864	25,578	20,368	21,195	22,391	21,685	26,805	28,816	
	12,325	13,053	4,494	8,733	8,106	5,826	8,364	12,649	
	709	327	267	31	73	34	13	1,454	

TABLE-4.7.3

SALARIES of PhD CHEMISTS EMPLOYED FULL-TIME in COLLEGE/UNIVERSITY
by SPECIALTY and YEARS SINCE BS
1981 Survey of ACS Members

YEARS SINCE BS	Chem Eng.	Biochem	Agr./ Food	SPECIALTY					Physical	Theora.	Polymer/ Macromo.	Other Chemical	Non-chem	No Response	TOTAL	
				Analytical	Environ- ment	Organic	Pharm/ macro.									
(5-9)	---	20,225	---	18,325	27,000	19,700	25,000	23,975	---	---	20,375	---	---	20,488	- 75th %ile	
	---	18,500	22,800	17,000	25,000	17,800	19,700	17,050	18,225	21,600	18,000	---	---	18,000	- Median	
	---	15,950	---	16,000	22,000	16,550	13,530	15,875	---	---	15,500	---	---	16,000	- 25th %ile	
	---	18,903	22,800	17,056	24,667	18,331	19,410	19,150	18,225	21,600	18,396	---	---	18,801	- Mean	
	---	3,954	---	1,477	2,517	3,076	6,472	5,016	3,147	6,223	4,194	---	---	3,933	- Std. Dev.	
	0	12	1	9	3	17	4	6	2	2	20	0	0	76	- Count	
(10-14)	---	25,300	---	25,700	26,500	22,000	29,400	23,500	26,200	21,000	20,700	---	---	24,000		
	---	21,500	24,900	20,000	22,850	19,000	25,000	18,900	20,000	19,000	18,500	---	---	20,000		
	---	18,000	---	17,134	21,050	17,000	21,000	16,125	16,000	18,000	16,900	---	---	17,375		
	---	21,945	24,900	21,479	23,800	19,078	25,187	19,537	20,800	19,333	18,923	---	---	20,740		
	---	5,215	2,970	5,600	3,327	3,636	5,316	4,299	5,530	1,528	3,287	---	---	4,792		
	0	55	2	25	8	50	15	31	7	3	33	0	0	229		
(15-19)	---	32,745	30,450	25,750	29,100	25,775	36,375	28,000	25,000	23,125	27,255	---	---	28,000		
	---	26,222	23,500	22,600	27,000	22,150	29,500	23,400	24,225	21,300	23,000	---	---	23,750		
	---	21,810	18,500	21,000	23,500	19,553	24,500	20,000	22,363	19,800	20,000	---	---	20,805		
	---	28,450	24,150	23,663	27,586	23,089	30,910	25,086	23,863	21,430	24,584	---	---	25,169		
	---	10,438	6,289	4,866	5,516	4,806	9,633	7,145	1,441	1,719	6,377	---	---	7,160		
	0	50	4	44	17	68	10	47	4	5	39	0	0	288		
(20-24)	---	40,436	47,000	35,750	33,800	33,225	34,000	30,000	44,516	41,250	30,150	---	---	33,073		
	---	32,250	34,000	30,000	26,500	27,600	32,500	26,000	29,500	30,500	25,550	---	---	28,000		
	---	27,275	19,000	23,769	21,375	22,670	29,000	23,126	24,860	25,000	22,443	---	---	23,825		
	---	33,880	33,333	30,170	27,225	28,009	32,105	26,946	32,887	32,250	27,743	---	---	29,111		
	---	8,796	14,012	8,266	6,471	6,686	5,074	6,186	9,986	8,846	8,632	---	---	7,867		
	0	32	3	34	4	68	11	57	8	4	52	0	0	273		
(25-29)	---	44,303	39,000	32,375	41,000	33,375	46,450	33,325	---	41,375	38,750	---	---	37,250		
	---	36,500	30,300	25,350	35,250	29,370	44,250	26,520	21,000	32,000	26,500	---	---	30,000		
	---	28,100	30,000	23,750	26,500	25,000	39,625	24,000	---	25,584	24,000	---	---	25,000		
	---	37,005	33,671	28,639	34,800	30,212	43,294	28,510	21,000	33,183	38,189	---	---	32,698		
	---	10,447	4,997	9,227	8,213	6,705	4,634	6,470	---	8,189	39,080	---	---	16,118		
	0	32	18	18	8	56	8	40	1	5	26	0	0	201		
(30-34)	---	46,925	41,475	34,476	46,050	35,500	---	42,000	---	50,000	38,400	---	---	42,500		
	---	42,010	34,500	30,000	38,000	31,000	34,000	30,000	---	36,000	30,000	---	---	33,000		
	---	33,250	32,500	26,000	32,400	28,400	---	27,275	---	29,275	23,400	---	---	28,000		
	---	40,501	36,383	31,065	38,980	32,906	34,000	34,431	---	38,910	36,195	---	---	35,746		
	---	10,320	5,246	9,679	7,716	8,842	---	11,248	---	12,652	20,002	---	---	11,855		
	0	32	6	11	5	37	1	29	0	5	19	0	0	145		
(35-39)	---	50,975	52,500	34,800	---	38,734	57,375	46,938	---	43,000	36,800	---	---	43,000		
	---	43,100	40,000	27,800	44,050	32,250	32,290	37,600	62,000	38,000	35,000	---	---	35,500		
	---	35,625	20,750	25,555	---	30,000	20,810	27,850	---	34,800	28,500	---	---	30,000		
	---	43,639	37,750	30,426	44,050	33,831	36,860	36,748	62,000	38,600	32,733	---	---	36,786		
	---	11,787	17,017	6,416	9,829	8,334	17,708	10,144	---	4,133	6,231	---	---	10,974		
	0	16	4	9	2	26	6	19	1	3	6	0	0	92		
(>=40)	---	45,000	49,500	33,800	---	40,000	---	43,375	---	63,625	45,000	---	---	45,000		
	---	33,375	36,850	29,706	37,200	38,500	54,796	38,000	50,000	57,250	33,000	---	---	36,500		
	---	27,725	28,750	26,450	---	34,000	---	29,375	---	41,132	23,625	---	---	29,544		
	---	36,614	38,783	30,126	37,200	37,818	54,796	37,381	50,000	54,002	34,113	---	---	37,772		
	---	12,857	10,509	4,303	---	7,656	6,783	8,656	---	12,358	10,902	---	---	10,705		
	0	18	6	8	1	19	2	16	1	4	8	0	0	83		
No Response	---	44,250	---	36,450	50,000	39,750	42,075	33,525	---	---	31,300	---	---	39,000		
	---	37,000	---	28,500	49,408	23,100	30,553	26,623	33,500	23,450	24,915	---	---	29,000		
	---	25,250	---	22,250	24,000	16,875	23,377	17,650	---	---	15,450	---	---	21,000		
	---	45,287	---	30,100	41,136	27,410	32,002	26,545	33,500	23,450	23,629	---	---	33,570		
	---	45,974	---	9,846	14,843	13,231	9,837	10,052	2,121	778	7,723	---	---	27,950		
	0	21	0	6	3	10	4	10	2	2	9	0	0	67		
TOTAL	---	40,000	39,600	30,000	37,000	32,352	39,617	32,000	32,750	40,000	30,000	---	---	33,972		
	---	30,000	33,000	25,000	27,986	26,000	31,000	26,000	25,000	29,000	24,000	---	---	26,200		
	---	22,150	27,500	21,000	24,000	20,350	24,790	21,110	20,563	22,725	19,455	---	---	21,000		
	---	32,571	33,542	26,281	30,672	27,128	32,079	27,985	28,484	32,622	27,153	---	---	28,816		
	---	17,404	9,891	7,927	8,782	8,589	10,967	9,196	11,763	12,983	17,192	---	---	12,649		
	0	268	33	164	51	351	61	255	26	33	212	0	0	1,454		

TABLE-5.8.1

SALARIES of POST-DOCTORAL CHEMISTS
by TYPE OF SCHOOL and YEARS SINCE BS
1981 Survey of ACS Members

SCHOOL TYPE	YEARS SINCE BS											TOTAL	75th %-ile	Median	25th %-ile	Mean	Stds. Dev.	Count				
	(0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)	No Resp											
Doctorate	---	---	14,400	16,000	15,000	20,000	18,000	---	---	---	---	---	---	---	18,200	15,000	14,000	12,125	14,260	3,872	124	
	---	11,000	13,300	14,808	13,750	15,000	18,000	---	---	---	---	---	---	---	16,900	14,000	14,000	12,125	14,260	3,872	124	
	---	---	12,000	14,000	12,000	14,500	17,000	---	---	---	---	---	---	---	13,200	14,000	14,000	12,125	14,260	3,872	124	
	---	11,000	12,974	15,617	14,850	16,500	17,667	---	---	---	---	---	---	---	16,100	14,000	14,000	12,125	14,260	3,872	124	
	---	0	2,272	3,026	4,486	3,041	5,577	---	---	---	---	---	---	---	2,850	14,000	14,000	12,125	14,260	3,872	124	
	0	2	75	28	7	3	3	0	1	3	3	3	0	1	4	15,000	14,000	12,125	14,260	3,872	124	
Non-Doctorate	---	---	---	---	18,000	---	---	---	---	---	---	---	---	---	---	17,750	17,400	14,000	16,180	2,124	5	
	---	---	13,000	---	17,500	17,400	---	---	---	---	---	---	---	---	---	17,400	17,400	14,000	16,180	2,124	5	
	---	---	13,000	---	15,000	---	---	---	---	---	---	---	---	---	---	14,000	14,000	14,000	16,180	2,124	5	
	---	---	---	---	16,833	17,400	---	---	---	---	---	---	---	---	---	14,000	14,000	14,000	16,180	2,124	5	
	0	0	1	0	3	1	0	0	0	1	0	0	0	0	0	17,750	17,400	14,000	16,180	2,124	5	
	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Non-academic	---	---	20,775	22,750	21,250	---	---	---	---	---	---	---	---	---	---	21,600	19,200	15,000	18,962	5,153	39	
	---	---	20,200	19,850	17,000	28,000	---	---	---	---	---	---	---	---	---	12,000	19,200	15,000	18,962	5,153	39	
	---	---	15,221	15,125	13,800	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	18,701	19,892	18,367	28,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	4,404	5,236	6,469	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	0	0	18	12	6	1	0	1	1	0	0	0	0	0	1	21,600	19,200	15,000	18,962	5,153	39	
TOTAL	---	---	15,000	18,666	17,875	24,000	18,000	---	---	---	---	---	---	---	---	17,000	14,400	13,000	15,409	4,597	168	
	---	11,000	13,470	15,000	15,000	17,400	18,000	---	---	---	---	---	---	---	---	17,800	14,400	13,000	15,409	4,597	168	
	---	---	12,000	14,105	13,338	14,750	17,000	---	---	---	---	---	---	---	---	12,000	14,400	13,000	15,409	4,597	168	
	---	11,000	14,071	16,900	16,541	18,980	17,667	---	---	---	---	---	---	---	---	12,000	14,400	13,000	15,409	4,597	168	
	---	0	3,575	4,243	5,003	5,496	5,577	---	---	---	---	---	---	---	---	15,280	14,400	13,000	15,409	4,597	168	
	0	2	94	40	16	5	3	1	1	0	0	0	0	0	3,074	17,000	14,400	13,000	15,409	4,597	168	

TABLE-6.9.1

SALARIES of FULL-TIME EMPLOYED CHEMICAL ENGINEERS
by HIGHEST DEGREE and YEARS SINCE BS
1981 Survey of ACS Members

HIGHEST DEGREE	YEARS SINCE BS										TOTAL	
	(0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)		No Resp
Bachelors	23,550	27,500	29,600	37,400	44,000	45,150	47,250	50,000	51,750	54,180	---	45,336
	22,350	24,200	27,000	30,800	37,000	39,965	39,120	40,800	41,000	40,000	16,000	36,000
	19,375	21,810	23,600	25,071	30,000	31,250	34,516	35,000	34,065	32,470	---	28,013
	21,600	30,191	26,953	33,664	38,863	38,480	42,937	46,080	48,779	52,702	16,000	40,847
	2,475	31,684	6,944	12,428	11,150	8,394	13,800	22,256	30,627	43,437	---	24,881
	6	28	53	32	19	28	49	91	56	41	1	404
Masters	---	26,700	31,500	37,150	44,500	48,650	50,084	55,500	50,000	56,450	53,500	48,700
	---	25,800	28,060	34,580	37,450	38,500	45,000	44,000	47,400	42,100	46,000	40,000
	---	23,000	24,700	26,750	30,375	32,170	41,250	34,101	42,000	36,150	32,000	31,700
	---	25,167	28,147	33,079	36,895	40,611	47,356	47,125	50,521	53,099	46,355	42,822
	---	1,930	4,847	6,411	9,243	14,091	12,199	15,699	16,210	38,912	17,534	18,803
	0	3	31	28	20	22	24	62	35	25	13	263
Doctorate	---	---	35,250	40,000	45,000	61,000	58,225	55,700	62,125	60,000	60,500	50,259
	---	---	32,250	35,125	36,500	49,200	48,000	45,000	49,050	44,066	40,000	42,000
	---	---	27,750	31,545	33,000	36,000	41,250	40,000	41,493	35,750	33,000	34,754
	---	---	31,096	35,187	39,671	52,058	53,446	52,939	54,904	53,168	51,723	46,756
	---	---	5,375	8,556	11,446	19,730	26,902	28,201	25,909	39,943	29,391	23,899
	0	0	14	66	62	49	44	54	34	30	13	366
No Response	---	---	---	---	---	---	---	---	---	---	60,000	60,000
	---	---	---	---	---	---	---	---	---	---	41,000	41,000
	---	---	---	---	---	---	---	---	---	---	27,150	27,150
	---	---	---	---	---	---	---	---	---	---	42,367	42,367
	---	---	---	---	---	---	---	---	---	---	16,514	16,514
	0	0	0	0	0	0	0	0	0	0	6	6
TOTAL	23,550	26,700	31,575	39,285	44,900	50,800	50,112	53,300	53,000	55,590	55,000	49,200
	22,350	24,400	27,750	34,350	37,000	42,000	44,000	43,000	45,000	42,550	44,000	39,180
	19,375	21,900	24,000	26,875	32,200	35,252	37,000	35,500	37,500	34,625	31,000	31,564
	21,600	29,705	27,923	34,332	38,969	45,674	47,795	48,182	50,932	52,951	46,825	43,437
	2,475	30,100	6,243	9,279	10,941	17,133	19,968	22,410	25,946	40,793	22,915	23,202
	6	31	98	126	101	99	117	207	125	96	33	1,039

TABLE-7.1.0

EMPLOYMENT STATUS OF RESPONDENTS
by MAJOR FIELDS
1981 Survey of ACS Members

EMPLOYMENT STATUS	MAJOR FIELD				TOTAL	
	Chemists	Chemical Engineers	Non-Chemical	No Response		
Postdoctorate or Other Fellowship	191 94.6% 2.2%	3 1.5% 0.3%	6 3.0% 0.6%	2 1.0% 0.9%	202 100.0% 1.8%	-Count -% of Row -% of Col
Employed Full-time	8,270 79.3% 93.3%	1,067 10.2% 92.6%	976 9.4% 93.3%	122 1.2% 59.5%	10,435 100.0% 92.6%	
Unemployed Seeking	93 75.0% 1.0%	12 9.7% 1.0%	15 12.1% 1.4%	4 3.2% 2.0%	124 100.0% 1.1%	
Unemployed Not seeking	74 67.3% 0.8%	18 16.4% 1.6%	11 10.0% 1.1%	7 6.4% 3.4%	110 100.0% 1.0%	
Employed Part-time	93 66.4% 1.0%	22 15.7% 1.9%	21 15.0% 2.0%	4 2.9% 2.0%	140 100.0% 1.2%	
No Response	142 55.7% 1.6%	30 11.8% 2.6%	17 6.7% 1.6%	66 25.9% 32.2%	255 100.0% 2.3%	
TOTAL	8,863 78.7% 100.0%	1,152 10.2% 100.0%	1,046 9.3% 100.0%	205 1.8% 100.0%	11,266 100.0% 100.0%	

TABLE-7.2.0

EMPLOYMENT STATUS OF CHEMISTS
by HIGHEST DEGREE EARNED
1981 Survey of ACS Members

EMPLOYMENT STATUS	HIGHEST DEGREE			No	TOTAL	
	Bachelors	Masters	Doctorate	Response		
Postdoctorate or Other Fellowship	8 4.2% 0.4%	11 5.8% 0.7%	172 90.1% 3.5%	0 0.0% 0.0%	191	-Count 100.0% 2.2%
Employed Full-time	2,103 25.4% 93.4%	1,590 19.2% 94.6%	4,558 55.1% 92.8%	19 0.2% 90.5%	8,270	100.0% 93.3%
Unemployed Seeking	36 38.7% 1.6%	20 21.5% 1.2%	37 39.8% 0.8%	0 0.0% 0.0%	93	100.0% 1.0%
Unemployed Not Seeking	36 48.6% 1.6%	13 17.6% 0.8%	25 33.8% 0.5%	0 0.0% 0.0%	74	100.0% 0.8%
Employed Part-time	32 34.4% 1.4%	17 18.3% 1.0%	44 47.3% 0.9%	0 0.0% 0.0%	93	100.0% 1.0%
No Response	37 26.1% 1.6%	30 21.1% 1.8%	73 51.4% 1.5%	2 1.4% 9.5%	142	100.0% 1.6%
TOTAL	2,252 25.4% 100.0%	1,681 19.0% 100.0%	4,909 55.4% 100.0%	21 0.2% 100.0%	8,863	100.0% 100.0%

TABLE-7.2.1

EMPLOYMENT STATUS OF CHEMISTS
by HIGHEST DEGREE EARNED - MEN Only
1981 Survey of ACS Members

EMPLOYMENT STATUS	HIGHEST DEGREE				TOTAL	
	Bachelors	Masters	Doctorate	No Response		
Postdoctorate or Other Fellowship	4 2.7% 0.2%	8 5.3% 0.6%	138 92.0% 3.1%	0 0.0% 0.0%	150	-Count 100.0% -% of Row 1.9% -% of Col
Employed Full-time	1,745 23.8% 94.7%	1,340 18.3% 95.4%	4,219 57.6% 93.6%	18 0.2% 90.0%	7,322	100.0% 94.2%
Unemployed Seeking	26 37.7% 1.4%	12 17.4% 0.9%	31 44.9% 0.7%	0 0.0% 0.0%	69	100.0% 0.9%
Unemployed Not Seeking	19 42.2% 1.0%	5 11.1% 0.4%	21 46.7% 0.5%	0 0.0% 0.0%	45	100.0% 0.6%
Employed Part-time	19 30.6% 1.0%	10 16.1% 0.7%	33 53.2% 0.7%	0 0.0% 0.0%	62	100.0% 0.8%
No Response	29 22.8% 1.6%	29 22.8% 2.1%	67 52.8% 1.5%	2 1.6% 10.0%	127	100.0% 1.6%
TOTAL	1,842 23.7% 100.0%	1,404 18.1% 100.0%	4,509 58.0% 100.0%	20 0.3% 100.0%	7,775	100.0% 100.0%

TABLE-7.2.2

EMPLOYMENT STATUS OF CHEMISTS
by HIGHEST DEGREE EARNED - WOMEN Only
1981 Survey of ACS Members

EMPLOYMENT STATUS	HIGHEST DEGREE				TOTAL	
	Bachelors	Masters	Doctorate	No Response		
Postdoctorate or Other Fellowship	4 10.3% 1.0%	2 5.1% 0.8%	33 84.6% 9.1%	0 0.0% 0.0%	39 100.0% 3.8%	-Count -% of Row -% of Col
Employed Full-time	340 38.5% 87.0%	240 27.2% 90.2%	301 34.1% 83.4%	1 0.1% 100.0%	882 100.0% 86.6%	
Unemployed Seeking	10 41.7% 2.6%	8 33.3% 3.0%	6 25.0% 1.7%	0 0.0% 0.0%	24 100.0% 2.4%	
Unemployed Not seeking	17 58.6% 4.3%	8 27.6% 3.0%	4 13.8% 1.1%	0 0.0% 0.0%	29 100.0% 2.8%	
Employed Part-time	12 40.0% 3.1%	7 23.3% 2.6%	11 36.7% 3.0%	0 0.0% 0.0%	30 100.0% 2.9%	
No Response	8 53.3% 2.0%	1 6.7% 0.4%	6 40.0% 1.7%	0 0.0% 0.0%	15 100.0% 1.5%	
TOTAL	391 38.4% 100.0%	266 26.1% 100.0%	361 35.4% 100.0%	1 0.1% 100.0%	1,019 100.0% 100.0%	

TABLE-7.3.0

 EMPLOYMENT STATUS OF CHEMISTS
 by AGE
 1981 Survey of ACS Members

EMPLOYMENT STATUS	AGE LEVEL										TOTAL			
	(20-24)	(25-29)	(30-34)	(35-39)	(40-44)	(45-49)	(50-54)	(55-59)	(60-64)	(65-69)		(>=70)	No Respo	TOTAL
Postdoctorate or Other fellowship	3 1.6% 1.8%	79 41.4% 8.4%	65 34.0% 4.7%	20 10.5% 1.4%	8 4.2% 0.7%	5 2.6% 0.5%	3 1.6% 0.3%	3 1.6% 0.3%	2 1.0% 0.3%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	3 1.6% 7.7%	191 100.0% 2.2%
Employed Full-time	157 1.9% 91.8%	828 10.0% 88.5%	1,264 15.3% 91.1%	1,386 16.8% 95.5%	1,117 13.5% 95.9%	930 11.2% 96.4%	986 11.9% 96.4%	851 10.3% 93.1%	607 7.3% 92.7%	103 1.2% 71.0%	7 0.1% 63.6%	34 0.4% 87.2%	8,270 100.0% 93.3%	
Unemployed Seeking	4 4.3% 2.3%	8 8.6% 0.9%	21 22.6% 1.5%	12 12.9% 0.8%	9 9.7% 0.8%	10 10.8% 1.0%	11 11.8% 1.1%	14 15.1% 1.5%	2 2.2% 0.3%	2 2.2% 1.4%	0 0.0% 0.0%	0 0.0% 0.0%	93 100.0% 1.0%	
Unemployed Not seeking	3 4.1% 1.8%	6 8.1% 0.6%	13 17.6% 0.9%	2 2.7% 0.1%	5 6.8% 0.4%	5 6.8% 0.5%	2 2.7% 0.2%	12 16.2% 1.3%	13 17.6% 2.0%	9 12.2% 6.2%	3 4.1% 27.3%	1 1.4% 2.6%	74 100.0% 0.8%	
Employed Part-time	1 1.1% 0.6%	8 8.6% 0.9%	4 4.3% 0.3%	7 7.5% 0.5%	11 11.8% 0.9%	2 2.2% 0.2%	8 8.6% 0.8%	12 12.9% 1.3%	18 19.4% 2.7%	21 22.6% 14.5%	1 1.1% 9.1%	0 0.0% 0.0%	93 100.0% 1.0%	
No Response	3 2.1% 1.8%	7 4.9% 0.7%	20 14.1% 1.4%	25 17.6% 1.7%	15 10.6% 1.3%	13 9.2% 1.3%	13 9.2% 1.3%	22 15.5% 2.4%	13 9.2% 2.0%	10 7.0% 6.9%	0 0.0% 0.0%	1 0.7% 2.6%	142 100.0% 1.6%	
TOTAL	171 1.9% 100.0%	936 10.6% 100.0%	1,387 15.6% 100.0%	1,452 16.4% 100.0%	1,165 13.1% 100.0%	965 10.9% 100.0%	1,023 11.5% 100.0%	914 10.3% 100.0%	655 7.4% 100.0%	145 1.6% 100.0%	11 0.1% 100.0%	39 0.4% 100.0%	8,863 100.0% 100.0%	

TABLE-7.4.0

EMPLOYMENT STATUS OF CHEMISTS *only*
 by MINORITY GROUP CLASSIFICATION
 1981 Survey of ACS Members

EMPLOYMENT STATUS	RACE							TOTAL	-Count -% of Row -% of Col
	White	Black	American Indian	Asian/ Pacific	Hispanic	None of Above	No Response		
Postdoctorate or Other fellowship	154 80.6% 1.9%	2 1.0% 1.8%	0 0.0% 0.0%	30 15.7% 5.9%	2 1.0% 3.4%	1 0.5% 3.2%	2 1.0% 3.3%	191 100.0% 2.2%	
Employed Full-time	7,552 91.3% 93.5%	109 1.3% 96.5%	12 0.1% 92.3%	458 5.5% 90.3%	54 0.7% 91.5%	29 0.4% 93.5%	56 0.7% 93.3%	8,270 100.0% 93.3%	
Unemployed Seeking	89 95.7% 1.1%	0 0.0% 0.0%	0 0.0% 0.0%	4 4.3% 0.8%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	93 100.0% 1.0%	
Unemployed Not Seeking	70 94.6% 0.9%	0 0.0% 0.0%	0 0.0% 0.0%	4 5.4% 0.8%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	74 100.0% 0.8%	
Employed Part-time	88 94.6% 1.1%	1 1.1% 0.9%	1 1.1% 7.7%	0 0.0% 0.0%	2 2.2% 3.4%	0 0.0% 0.0%	1 1.1% 1.7%	93 100.0% 1.0%	
No Response	127 89.4% 1.6%	1 0.7% 0.9%	0 0.0% 0.0%	11 7.7% 2.2%	1 0.7% 1.7%	1 0.7% 3.2%	1 0.7% 1.7%	142 100.0% 1.6%	
TOTAL	8,080 91.2% 100.0%	113 1.3% 100.0%	13 0.1% 100.0%	507 5.7% 100.0%	59 0.7% 100.0%	31 0.3% 100.0%	60 0.7% 100.0%	8,863 100.0% 100.0%	

TABLE-7.5.0

EMPLOYMENT STATUS OF CHEMISTS
by CITIZENSHIP
1981 Survey of ACS Members

EMPLOYMENT STATUS	CITIZENSHIP				TOTAL	
	US Citizen	Permanent Resident	Other	No Response		
Postdoctorate or Other fellowship	154 80.6% 1.8%	18 9.4% 5.2%	18 9.4% 35.3%	1 0.5% 4.2%	191	-Count 100.0% -% of Row 2.2% -% of Col
Employed	7,902	314	32	22	8,270	
Full-time	95.6% 93.6%	3.8% 91.5%	0.4% 62.7%	0.3% 91.7%	100.0% 93.3%	
Unemployed	88	5	0	0	93	
Seeking	94.6% 1.0%	5.4% 1.5%	0.0% 0.0%	0.0% 0.0%	100.0% 1.0%	
Unemployed	72	1	0	1	74	
Not seeking	97.3% 0.9%	1.4% 0.3%	0.0% 0.0%	1.4% 4.2%	100.0% 0.8%	
Employed	93	0	0	0	93	
Part-time	100.0% 1.1%	0.0% 0.0%	0.0% 0.0%	0.0% 0.0%	100.0% 1.0%	
No Response	136 95.8% 1.6%	5 3.5% 1.5%	1 0.7% 2.0%	0 0.0% 0.0%	142 100.0% 1.6%	
TOTAL	8,445 95.3% 100.0%	343 3.9% 100.0%	51 0.6% 100.0%	24 0.3% 100.0%	8,863 100.0% 100.0%	

TABLE-7.6.0

EMPLOYMENT STATUS OF CHEMISTS
by EMPLOYER TYPE
1981 Survey of ACS Members

EMPLOYMENT STATUS	EMPLOYER TYPE						TOTAL	
	Industry	Government	Other Non-acad.	College & Univer.	High School	No Response		
Postdoctorate or Other Fellowship	11 5.8% 0.2%	24 12.6% 2.7%	11 5.8% 2.4%	139 72.8% 7.3%	0 0.0% 0.0%	6 3.1% 4.9%	191	-Count
							100.0%	-% of Row
							2.2%	-% of Col
Employed	5,197	804	396	1,687	81	105	8,270	
Full-time	62.8% 96.2%	9.7% 91.6%	4.8% 86.7%	20.4% 88.1%	1.0% 91.0%	1.3% 86.1%	100.0% 93.3%	
Unemployed	58	7	14	13	1	0	93	
Seeking	62.4% 1.1%	7.5% 0.8%	15.1% 3.1%	14.0% 0.7%	1.1% 1.1%	0.0% 0.0%	100.0% 1.0%	
Unemployed	39	14	3	11	1	6	74	
Not Seeking	52.7% 0.7%	18.9% 1.6%	4.1% 0.7%	14.9% 0.6%	1.4% 1.1%	8.1% 4.9%	100.0% 0.8%	
Employed	30	10	20	29	4	0	93	
Part-time	32.3% 0.6%	10.8% 1.1%	21.5% 4.4%	31.2% 1.5%	4.3% 4.5%	0.0% 0.0%	100.0% 1.0%	
No Response	67	19	13	36	2	5	142	
	47.2% 1.2%	13.4% 2.2%	9.2% 2.8%	25.4% 1.9%	1.4% 2.2%	3.5% 4.1%	100.0% 1.6%	
TOTAL	5,402 61.0% 100.0%	878 9.9% 100.0%	457 5.2% 100.0%	1,915 21.6% 100.0%	89 1.0% 100.0%	122 1.4% 100.0%	8,863 100.0% 100.0%	

TABLE-7.6.1

 EMPLOYMENT STATUS OF CHEMISTS
 by NON-ACADEMIC EMPLOYER
 1981 Survey of ACS Members

NON-ACADEMIC EMPLOYER

EMPLOYMENT STATUS	NON-ACADEMIC EMPLOYER													TOTAL				
	Mfg Chem	Mfg Coat	Mfg Food	Mfg Metals	Mfg Paper	Mfg Petro.	Mfg Pharm	Mfg Rubber	Mfg Other	Non-Mfg	Federal Govt	State Govt	Hospitals		Non-Prof	Self-empl.	Other Empl.	TOTAL
Postdoctorate or other fellowship	1 2.2% 0.1%	1 2.2% 0.3%	1 2.2% 0.5%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	2 4.3% 0.2%	0 0.0% 0.0%	5 10.9% 2.3%	0 0.0% 0.0%	19 41.3% 2.9%	5 10.9% 2.3%	3 6.5% 2.1%	8 17.4% 3.6%	0 0.0% 0.0%	0 0.0% 0.0%	46 100.0% 0.7%	-Count -% of Row -% of Col
Employed Full-time	1,635 25.6% 96.8%	314 4.9% 96.0%	193 3.0% 91.0%	155 2.4% 95.7%	88 1.4% 98.9%	356 5.6% 97.5%	889 13.9% 96.9%	150 2.3% 93.2%	1,034 16.2% 95.9%	383 6.0% 95.3%	601 9.4% 91.5%	203 3.2% 91.9%	125 2.0% 86.8%	202 3.2% 91.8%	33 0.5% 63.5%	36 0.6% 87.8%	6,397 100.0% 95.0%	
Unemployed Seeking	14 17.7% 0.8%	1 1.3% 0.3%	6 7.6% 2.8%	3 3.8% 1.9%	0 0.0% 0.0%	3 3.8% 0.8%	8 10.1% 0.9%	2 2.5% 1.2%	17 21.5% 1.6%	4 5.1% 1.0%	5 6.3% 0.8%	2 2.5% 0.9%	7 8.9% 4.9%	4 5.1% 1.8%	0 0.0% 0.0%	3 3.8% 7.5%	79 100.0% 1.2%	
Unemployed Not seeking	8 14.3% 0.5%	4 7.1% 1.2%	3 5.4% 1.4%	2 3.5% 1.2%	0 0.0% 0.0%	2 3.6% 0.5%	5 8.9% 0.5%	1 1.8% 0.6%	11 19.6% 1.0%	3 5.4% 0.7%	8 14.3% 1.2%	6 10.7% 2.7%	2 3.6% 1.4%	0 0.0% 0.0%	1 1.8% 1.9%	0 0.0% 0.0%	56 100.0% 0.8%	
Employed Part-time	6 10.0% 0.4%	3 5.0% 0.9%	3 5.0% 1.4%	0 0.0% 0.0%	0 0.0% 0.0%	1 1.7% 0.3%	4 6.7% 0.4%	3 5.0% 1.9%	3 5.0% 0.3%	7 11.7% 1.7%	10 16.7% 1.5%	0 0.0% 0.0%	4 6.7% 2.8%	1 1.7% 0.5%	13 21.7% 25.0%	2 3.3% 4.9%	60 100.0% 0.9%	
No Response	25 25.5% 1.5%	4 4.0% 1.2%	6 6.1% 2.8%	2 2.9% 1.2%	1 1.0% 1.1%	2 2.0% 0.5%	9 9.1% 1.0%	5 5.1% 3.1%	8 8.1% 0.7%	5 5.1% 1.2%	14 14.1% 2.1%	5 5.1% 2.3%	3 3.0% 2.1%	5 5.1% 2.3%	5 5.1% 9.6%	0 0.0% 0.0%	99 100.0% 1.5%	
TOTAL	1,689 25.1% 100.0%	327 4.9% 100.0%	212 3.1% 100.0%	162 2.4% 100.0%	89 1.3% 100.0%	365 5.4% 100.0%	917 13.6% 100.0%	161 2.4% 100.0%	1,078 16.0% 100.0%	402 6.0% 100.0%	657 9.8% 100.0%	221 3.3% 100.0%	144 2.1% 100.0%	220 3.3% 100.0%	52 0.8% 100.0%	41 0.6% 100.0%	6,737 100.0% 100.0%	

TABLE-7.6.2

EMPLOYMENT STATUS OF CHEMISTS
by ACADEMIC EMPLOYER
1981 Survey of ACS Members

EMPLOYMENT STATUS	ACADEMIC EMPLOYER										TOTAL	-Count -% of Row	-Count -% of Col
	Private Doctorate	Private Master	Private Bachelor	Private Assoc.	Public Doctor.	Public Master	Public Bachelors	Public Assoc.	High School	TOTAL			
Postdoctorate or other fellowship	59 42.4% 15.0%	3 2.2% 4.5%	1 0.7% 0.4%	0 0.0% 0.0%	75 54.0% 9.5%	1 0.7% 0.7%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	139 100.0% 6.9%	139 100.0% 6.9%	139 100.0% 6.9%	139 100.0% 6.9%
Employed Full-time	317 17.9% 80.5%	59 3.3% 88.1%	221 12.5% 95.3%	4 0.2% 80.0%	677 38.3% 85.5%	141 8.0% 95.9%	149 8.4% 96.8%	119 6.7% 96.0%	81 4.6% 91.0%	1,768 100.0% 88.2%	1,768 100.0% 88.2%	1,768 100.0% 88.2%	1,768 100.0% 88.2%
Unemployed Seeking	3 21.4% 0.8%	0 0.0% 0.0%	2 14.3% 0.9%	0 0.0% 0.0%	7 50.0% 0.9%	1 7.1% 0.7%	0 0.0% 0.0%	0 0.0% 0.0%	1 7.1% 1.1%	14 100.0% 0.7%	14 100.0% 0.7%	14 100.0% 0.7%	14 100.0% 0.7%
Unemployed Not seeking	1 8.3% 0.3%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	7 58.3% 0.9%	0 0.0% 0.0%	2 16.7% 1.3%	1 8.3% 0.8%	1 8.3% 1.1%	12 100.0% 0.6%	12 100.0% 0.6%	12 100.0% 0.6%	12 100.0% 0.6%
Employed Part-time	4 12.1% 1.0%	4 12.1% 6.0%	3 9.1% 1.3%	0 0.0% 0.0%	11 33.3% 1.4%	3 9.1% 2.0%	1 3.0% 0.6%	3 9.1% 2.4%	4 12.1% 4.5%	33 100.0% 1.6%	33 100.0% 1.6%	33 100.0% 1.6%	33 100.0% 1.6%
No Response	10 26.3% 2.5%	1 2.6% 1.5%	5 13.2% 2.2%	1 2.6% 20.0%	15 39.5% 1.9%	1 2.6% 0.7%	2 5.3% 1.3%	1 2.6% 0.8%	2 5.3% 2.2%	38 100.0% 1.9%	38 100.0% 1.9%	38 100.0% 1.9%	38 100.0% 1.9%
TOTAL	394 19.7% 100.0%	67 3.3% 100.0%	232 11.6% 100.0%	5 0.2% 100.0%	792 39.5% 100.0%	147 7.3% 100.0%	154 7.7% 100.0%	124 6.2% 100.0%	89 4.4% 100.0%	2,004 100.0% 100.0%	2,004 100.0% 100.0%	2,004 100.0% 100.0%	2,004 100.0% 100.0%

TABLE-7.7.0

 EMPLOYMENT STATUS OF CHEMISTS
 by NON-ACADEMIC WORK FUNCTION
 1981 Survey of ACS Members

EMPLOYMENT STATUS	NON-ACADEMIC WORK FUNCTION											TOTAL	
	R&D Mgmt	Basic Research	Applied R&D	Gen. Mgmt	Marketing	Prod. QC	Forensic	Writing/Editing	Data Pro.	Consulting	Other		No Respo
Postdoctorate or other fellowship	1 2.2% 0.1%	27 58.7% 2.9%	10 21.7% 0.5%	0 0.0% 0.0%	1 2.2% 0.3%	2 4.3% 0.3%	1 2.2% 0.3%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	1 2.2% 0.6%	3 6.5% 1.1%	46 100.0% 0.7%
Employed Full-time	1,137 17.8% 96.7%	875 13.7% 94.1%	2,073 32.4% 96.1%	459 7.2% 96.0%	352 5.5% 94.9%	569 8.9% 95.3%	360 5.6% 93.0%	67 1.0% 90.5%	20 0.3% 100.0%	83 1.3% 74.8%	151 2.4% 91.5%	251 3.9% 92.6%	6,397 100.0% 95.0%
Unemployed Seeking	9 11.4% 0.8%	4 5.1% 0.4%	22 27.8% 1.0%	8 10.1% 1.7%	4 5.1% 1.1%	12 15.2% 2.0%	8 10.1% 2.1%	1 1.3% 1.4%	0 0.0% 0.0%	2 2.5% 1.8%	3 3.8% 1.8%	6 7.6% 2.2%	79 100.0% 1.2%
Unemployed Not seeking	5 8.9% 0.4%	7 12.5% 0.8%	16 28.6% 0.7%	4 7.1% 0.8%	2 3.6% 0.5%	6 10.7% 1.0%	8 14.3% 2.1%	2 3.6% 2.7%	0 0.0% 0.0%	1 1.8% 0.9%	1 1.8% 0.6%	4 7.1% 1.5%	56 100.0% 0.8%
Employed Part-time	5 8.3% 0.4%	5 8.3% 0.5%	13 21.7% 0.6%	2 3.3% 0.4%	2 3.3% 0.5%	2 3.3% 0.3%	3 5.0% 0.8%	4 6.7% 5.4%	0 0.0% 0.0%	19 31.7% 17.1%	3 5.0% 1.8%	2 3.3% 0.7%	60 100.0% 0.9%
No Response	19 19.2% 1.6%	12 12.1% 1.3%	23 23.2% 1.1%	5 5.1% 1.0%	10 10.1% 2.7%	6 6.1% 1.0%	7 7.1% 1.8%	0 0.0% 0.0%	0 0.0% 0.0%	6 6.1% 5.4%	6 6.1% 3.6%	5 5.1% 1.8%	99 100.0% 1.5%
TOTAL	1,176 17.5% 100.0%	930 13.8% 100.0%	2,157 32.0% 100.0%	478 7.1% 100.0%	371 5.5% 100.0%	597 8.9% 100.0%	387 5.7% 100.0%	74 1.1% 100.0%	20 0.3% 100.0%	111 1.6% 100.0%	165 2.4% 100.0%	271 4.0% 100.0%	6,737 100.0% 100.0%

TABLE-7.8.0

EMPLOYMENT STATUS OF CHEMISTS
by WORK SPECIALTY
1981 Survey of ACS Members

EMPLOYMENT STATUS	SPECIALTY										TOTAL	-Count -% of Row -% of Col
	Biochem	Agr-Food Analytic	Enviro.	Organic	Phar-Med	Physical	Theore.	Poly-Mac	Chemical	Other		
Postdoctorate or Other fellowship	62 32.5% 9.4%	4 2.1% 1.0%	10 5.2% 0.6%	6 3.1% 1.0%	42 22.0% 2.8%	15 7.9% 1.9%	26 13.6% 3.2%	4 2.1% 6.9%	6 3.1% 0.6%	16 8.4% 1.3%	191 100.0% 2.2%	
Employed Full-time	561 6.8% 84.6%	349 4.2% 91.1%	1,691 20.4% 95.1%	571 6.9% 94.2%	1,405 17.0% 93.8%	732 8.9% 93.7%	763 9.2% 92.6%	50 0.6% 86.2%	1,005 12.2% 95.1%	1,143 13.8% 94.1%	8,270 100.0% 93.3%	
Unemployed Seeking	7 7.5% 1.1%	4 4.3% 1.0%	22 23.7% 1.2%	5 5.4% 0.8%	9 9.7% 0.6%	12 12.9% 1.5%	6 6.5% 0.7%	1 1.1% 1.7%	13 14.0% 1.2%	14 15.1% 1.2%	93 100.0% 1.0%	
Unemployed Not seeking	6 8.1% 0.9%	7 9.5% 1.8%	16 21.6% 0.9%	6 8.1% 1.0%	7 9.5% 0.5%	7 9.5% 0.9%	9 12.2% 1.1%	0 0.0% 0.0%	8 10.8% 0.8%	8 10.8% 0.7%	74 100.0% 0.8%	
Employed Part-time	10 10.8% 1.5%	8 8.6% 2.1%	11 11.8% 0.6%	7 7.5% 1.2%	12 12.9% 0.8%	9 9.7% 1.2%	11 11.8% 1.3%	1 1.1% 1.7%	8 8.6% 0.8%	16 17.2% 1.3%	93 100.0% 1.0%	
No Response	17 12.0% 2.6%	11 7.7% 2.9%	28 19.7% 1.6%	11 7.7% 1.8%	23 16.2% 1.5%	6 4.2% 0.8%	9 6.3% 1.1%	2 1.4% 3.4%	17 12.0% 1.6%	18 12.7% 1.5%	142 100.0% 1.6%	
TOTAL	663 7.5% 100.0%	383 4.3% 100.0%	1,778 20.1% 100.0%	606 6.8% 100.0%	1,498 16.9% 100.0%	781 8.8% 100.0%	824 9.3% 100.0%	58 0.7% 100.0%	1,057 11.9% 100.0%	1,215 13.7% 100.0%	8,863 100.0% 100.0%	

TABLE-7.9.0

 EMPLOYMENT STATUS OF CHEMISTS
 by GEOGRAPHIC REGION
 1981 Survey of ACS Members

EMPLOYMENT STATUS	REGION										TOTAL	-Count -% of ROW -% of Col
	Pacific	Mountain	W.N. Central	W.S. Central	E.N. Central	E.S. Central	Mid Atlantic	So. Atlantic	New England	No Response		
Postdoctorate or Other fellowship	28 14.7% 2.8%	17 8.9% 5.5%	8 4.2% 1.6%	5 2.6% 0.8%	32 16.8% 1.7%	5 2.6% 1.7%	35 18.3% 1.6%	32 16.8% 2.4%	24 12.6% 3.8%	5 2.6% 3.7%	191 100.0% 2.2%	5 2.6% 3.7%
Employed Full-time	906 11.0% 90.5%	269 3.3% 87.6%	459 5.6% 94.3%	631 7.6% 95.8%	1,781 21.5% 94.1%	276 3.3% 96.2%	2,028 24.5% 94.6%	1,206 14.6% 92.0%	593 7.2% 92.7%	121 1.5% 89.0%	8,270 100.0% 93.3%	121 1.5% 89.0%
Unemployed Seeking	17 18.3% 1.7%	4 4.3% 1.3%	2 2.2% 0.4%	6 6.5% 0.9%	18 19.4% 1.0%	0 0.0% 0.0%	22 23.7% 1.0%	18 19.4% 1.4%	5 5.4% 0.8%	1 1.1% 0.7%	93 100.0% 1.0%	1 1.1% 0.7%
Unemployed Not seeking	13 17.6% 1.3%	4 5.4% 1.3%	3 4.1% 0.6%	3 4.1% 0.5%	12 16.2% 0.6%	3 4.1% 1.0%	14 18.9% 0.7%	15 20.3% 1.1%	3 4.1% 0.5%	4 5.4% 2.9%	74 100.0% 0.8%	4 5.4% 2.9%
Employed Part-time	20 21.5% 2.0%	7 7.5% 2.3%	3 3.2% 0.6%	6 6.5% 0.9%	15 16.1% 0.8%	0 0.0% 0.0%	16 17.2% 0.7%	19 20.4% 1.4%	6 6.5% 0.9%	1 1.1% 0.7%	93 100.0% 1.0%	1 1.1% 0.7%
No Response	17 12.0% 1.7%	6 4.2% 2.0%	12 8.5% 2.5%	8 5.6% 1.2%	34 23.9% 1.8%	3 2.1% 1.0%	28 19.7% 1.3%	21 14.8% 1.6%	9 6.3% 1.4%	4 2.8% 2.9%	142 100.0% 1.6%	4 2.8% 2.9%
TOTAL	1,001 11.3% 100.0%	307 3.5% 100.0%	487 5.5% 100.0%	659 7.4% 100.0%	1,892 21.3% 100.0%	287 3.2% 100.0%	2,143 24.2% 100.0%	1,311 14.8% 100.0%	640 7.2% 100.0%	136 1.5% 100.0%	8,863 100.0% 100.0%	136 1.5% 100.0%

TABLE-8.1.0

LENGTH OF UNEMPLOYMENT OF UNEMPLOYED CHEMISTS UNEMPLOYED ON MARCH 1, 1981
by HIGHEST DEGREE EARNED
1981 Survey of ACS Members

MONTHS UNEMPLOYED	HIGHEST DEGREE			No Response	TOTAL	
	Bachelors	Masters	Doctorate			
(0-1)	9 47.4% 25.0%	3 15.8% 15.0%	7 36.8% 18.9%	0 0.0% ***.0%	19	-Count 100.0% -% of Row 20.4% -% of Col
(2-4)	6 22.2% 16.7%	5 18.5% 25.0%	16 59.3% 43.2%	0 0.0% ***.0%	27	100.0% 29.0%
(5-7)	5 38.5% 13.9%	4 30.8% 20.0%	4 30.8% 10.8%	0 0.0% ***.0%	13	100.0% 14.0%
(8-10)	9 64.3% 25.0%	3 21.4% 15.0%	2 14.3% 5.4%	0 0.0% ***.0%	14	100.0% 15.1%
(11-13)	1 25.0% 2.8%	2 50.0% 10.0%	1 25.0% 2.7%	0 0.0% ***.0%	4	100.0% 4.3%
(14-18)	2 50.0% 5.6%	1 25.0% 5.0%	1 25.0% 2.7%	0 0.0% ***.0%	4	100.0% 4.3%
(19-24)	1 50.0% 2.8%	1 50.0% 5.0%	0 0.0% 0.0%	0 0.0% ***.0%	2	100.0% 2.2%
(25-36)	2 66.7% 5.6%	0 0.0% 0.0%	1 33.3% 2.7%	0 0.0% ***.0%	3	100.0% 3.2%
(>=37)	1 14.3% 2.8%	1 14.3% 5.0%	5 71.4% 13.5%	0 0.0% ***.0%	7	100.0% 7.5%
TOTAL	36 38.7% 100.0%	20 21.5% 100.0%	37 39.8% 100.0%	0 0.0% ***.0%	93	100.0% 100.0%

TABLE-8.1.1

LENGTH OF UNEMPLOYMENT OF UNEMPLOYED CHEMISTS UNEMPLOYED ON MARCH 1, 1981
by HIGHEST DEGREE EARNED - MEN Only
1981 Survey of ACS Members

MONTHS UNEMPLOYED	HIGHEST DEGREE			No Response	TOTAL	
	Bachelors	Masters	Doctorate			
(0-1)	6 40.0% 23.1%	3 20.0% 25.0%	6 40.0% 19.4%	0 0.0% ***. *%	15	-Count 100.0% 21.7%
(2-4)	6 28.6% 23.1%	3 14.3% 25.0%	12 57.1% 38.7%	0 0.0% ***. *%	21	100.0% 30.4%
(5-7)	3 33.3% 11.5%	2 22.2% 16.7%	4 44.4% 12.9%	0 0.0% ***. *%	9	100.0% 13.0%
(8-10)	5 55.6% 19.2%	2 22.2% 16.7%	2 22.2% 6.5%	0 0.0% ***. *%	9	100.0% 13.0%
(11-13)	1 33.3% 3.8%	1 33.3% 8.3%	1 33.3% 3.2%	0 0.0% ***. *%	3	100.0% 4.3%
(14-18)	2 100.0% 7.7%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% ***. *%	2	100.0% 2.9%
(19-24)	0 ***. *% 0.0%	0 ***. *% 0.0%	0 ***. *% 0.0%	0 ***. *% ***. *%	0	***. *% 0.0%
(25-36)	2 66.7% 7.7%	0 0.0% 0.0%	1 33.3% 3.2%	0 0.0% ***. *%	3	100.0% 4.3%
(>=37)	1 14.3% 3.8%	1 14.3% 8.3%	5 71.4% 16.1%	0 0.0% ***. *%	7	100.0% 10.1%
TOTAL	26 37.7% 100.0%	12 17.4% 100.0%	31 44.9% 100.0%	0 0.0% ***. *%	69	100.0% 100.0%

TABLE-8.1.2

LENGTH OF UNEMPLOYMENT OF UNEMPLOYED CHEMISTS UNEMPLOYED ON MARCH 1, 1981
 by HIGHEST DEGREE EARNED - WOMEN Only
 1981 Survey of ACS Members

MONTHS UNEMPLOYED	HIGHEST DEGREE			No Response	TOTAL	
	Bachelors	Masters	Doctorate			
(0-1)	3 75.0% 30.0%	0 0.0% 0.0%	1 25.0% 16.7%	0 0.0% ***.0%	4 100.0% 16.7%	-Count -% of Row -% of Col
(2-4)	0 0.0% 0.0%	2 33.3% 25.0%	4 66.7% 66.7%	0 0.0% ***.0%	6 100.0% 25.0%	
(5-7)	2 50.0% 20.0%	2 50.0% 25.0%	0 0.0% 0.0%	0 0.0% ***.0%	4 100.0% 16.7%	
(8-10)	4 80.0% 40.0%	1 20.0% 12.5%	0 0.0% 0.0%	0 0.0% ***.0%	5 100.0% 20.8%	
(11-13)	0 0.0% 0.0%	1 100.0% 12.5%	0 0.0% 0.0%	0 0.0% ***.0%	1 100.0% 4.2%	
(14-18)	0 0.0% 0.0%	1 50.0% 12.5%	1 50.0% 16.7%	0 0.0% ***.0%	2 100.0% 8.3%	
(19-24)	1 50.0% 10.0%	1 50.0% 12.5%	0 0.0% 0.0%	0 0.0% ***.0%	2 100.0% 8.3%	
(25-36)	0 ***.0% 0.0%	0 ***.0% 0.0%	0 ***.0% 0.0%	0 ***.0% ***.0%	0 ***.0% 0.0%	
(>=37)	0 ***.0% 0.0%	0 ***.0% 0.0%	0 ***.0% 0.0%	0 ***.0% ***.0%	0 ***.0% 0.0%	
TOTAL	10 41.7% 100.0%	8 33.3% 100.0%	6 25.0% 100.0%	0 0.0% ***.0%	24 100.0% 100.0%	

TABLE-8.2.0

LENGTH OF UNEMPLOYMENT OF UNEMPLOYED CHEMISTS UNEMPLOYED ON MARCH 1, 1981
by GEOGRAPHIC REGION
1981 Survey of ACS Members

MONTHS UNEMPLOYED	REGION										TOTAL	-Count -% of Row -% of Col
	Pacific	Mountain	W.N. Central	W.S. Central	E.N. Central	E.S. Central	Mid Atlantic	So. Atlantic	New England	No Response		
(0-1)	6 31.6% 35.3%	1 5.3% 25.0%	0 0.0% 0.0%	1 5.3% 16.7%	3 15.8% 16.7%	0 0.0% ***.0%	5 26.3% 22.7%	3 15.8% 16.7%	0 0.0% 0.0%	0 0.0% 0.0%	19 100.0% 20.4%	
(2-4)	2 7.4% 11.8%	1 3.7% 25.0%	0 0.0% 0.0%	3 11.1% 50.0%	5 18.5% 27.8%	0 0.0% ***.0%	7 25.9% 31.8%	6 22.2% 33.3%	3 11.1% 60.0%	0 0.0% 0.0%	27 100.0% 29.0%	
(5-7)	1 7.7% 5.9%	1 7.7% 25.0%	0 0.0% 0.0%	1 7.7% 16.7%	2 15.4% 11.1%	0 0.0% ***.0%	3 23.1% 13.6%	4 30.8% 22.2%	1 7.7% 20.0%	0 0.0% 0.0%	13 100.0% 14.0%	
(8-10)	4 28.6% 23.5%	1 7.1% 25.0%	1 7.1% 50.0%	0 0.0% 0.0%	3 21.4% 16.7%	0 0.0% ***.0%	2 14.3% 9.1%	2 14.3% 11.1%	1 7.1% 20.0%	0 0.0% 0.0%	14 100.0% 15.1%	
(11-13)	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% ***.0%	4 100.0% 18.2%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	4 100.0% 4.3%	
(14-18)	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	2 50.0% 11.1%	0 0.0% ***.0%	1 25.0% 4.5%	1 25.0% 5.6%	0 0.0% 0.0%	0 0.0% 0.0%	4 100.0% 4.3%	
(19-24)	1 50.0% 5.9%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	1 50.0% 5.6%	0 0.0% ***.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	2 100.0% 2.2%	
(25-36)	1 33.3% 5.9%	0 0.0% 0.0%	0 0.0% 0.0%	1 33.3% 16.7%	0 0.0% 0.0%	0 0.0% ***.0%	0 0.0% 0.0%	1 33.3% 5.6%	0 0.0% 0.0%	0 0.0% 0.0%	3 100.0% 3.2%	
(>=37)	2 28.6% 11.8%	0 0.0% 0.0%	1 14.3% 50.0%	0 0.0% 0.0%	2 28.6% 11.1%	0 0.0% ***.0%	0 0.0% 0.0%	1 14.3% 5.6%	0 0.0% 0.0%	1 14.3% 100.0%	7 100.0% 7.5%	
TOTAL	17 18.3% 100.0%	4 4.3% 100.0%	2 2.2% 100.0%	6 6.5% 100.0%	18 19.4% 100.0%	0 0.0% ***.0%	22 23.7% 100.0%	18 19.4% 100.0%	5 5.4% 100.0%	1 1.1% 100.0%	93 100.0% 100.0%	

TABLE-8.3.0

LENGTH OF UNEMPLOYMENT OF UNEMPLOYED CHEMISTS UNEMPLOYED ON MARCH 1, 1981
by AGE
1981 Survey of ACS Members

MONTHS UNEMPLOYED	AGE LEVEL										TOTAL		
	(20-24)	(25-29)	(30-34)	(35-39)	(40-44)	(45-49)	(50-54)	(55-59)	(60-64)	(65-69)		(>=70)	No Respo
(0-1)	3 15.8% 75.0%	3 15.8% 37.5%	5 26.3% 23.8%	0 0.0%	3 15.8% 33.3%	1 5.3% 10.0%	2 10.5% 18.2%	1 5.3% 7.1%	1 5.3% 50.0%	0 0.0%	0 0.0%	0 0.0%	0 100.0% 20.4%
(2-4)	0 0.0%	2 7.4% 25.0%	3 11.1% 14.3%	8 29.6% 66.7%	3 11.1% 33.3%	3 11.1% 30.0%	2 7.4% 18.2%	6 22.2% 42.9%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 100.0% 29.0%
(5-7)	0 0.0%	1 7.7% 12.5%	4 30.8% 19.0%	2 15.4% 16.7%	0 0.0%	0 0.0%	3 23.1% 27.3%	3 23.1% 21.4%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 100.0% 14.0%
(8-10)	1 7.1% 25.0%	1 7.1% 12.5%	6 42.9% 28.6%	1 7.1% 8.3%	4 28.6% 40.0%	0 0.0%	0 0.0%	1 7.1% 7.1%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 100.0% 15.1%
(11-13)	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	1 25.0% 9.1%	2 50.0% 14.3%	0 0.0%	1 25.0% 50.0%	0 0.0%	0 0.0%	0 100.0% 4.3%
(14-18)	0 0.0%	0 0.0%	2 50.0% 9.5%	0 0.0%	1 25.0% 11.1%	1 25.0% 10.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 100.0% 4.3%
(19-24)	0 0.0%	1 50.0% 12.5%	1 50.0% 4.8%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 100.0% 2.2%
(25-36)	0 0.0%	0 0.0%	0 0.0%	1 33.3% 8.3%	0 0.0%	1 33.3% 10.0%	0 0.0%	0 0.0%	0 0.0%	1 33.3% 50.0%	0 0.0%	0 0.0%	0 100.0% 3.2%
(>=37)	0 0.0%	0 0.0%	0 0.0%	0 0.0%	2 28.6% 22.2%	0 0.0%	3 42.9% 27.3%	1 14.3% 7.1%	1 14.3% 50.0%	0 0.0%	0 0.0%	0 0.0%	0 100.0% 7.5%
TOTAL	4 4.3% 100.0%	8 8.6% 100.0%	21 22.6% 100.0%	12 12.9% 100.0%	9 9.7% 100.0%	10 10.8% 100.0%	11 11.8% 100.0%	14 15.1% 100.0%	2 2.2% 100.0%	2 2.2% 100.0%	0 0.0%	0 0.0%	93 100.0% 100.0%

TABLE-8.4.0

LENGTH OF UNEMPLOYMENT OF UNEMPLOYED CHEMISTS UNEMPLOYED ON MARCH 1, 1981
by NON-ACADEMIC WORK FUNCTION
1981 Survey of ACS Members

NON-ACADEMIC WORK FUNCTION

MONTHS UNEMPLOYED	NON-ACADEMIC WORK FUNCTION											TOTAL	
	Mgt R&D	Basic Research	Applied R&D	Mgt Non R&D	Market-Ing	Prod. & QC	Forensic	Writing/Editing	Data Proc.	Consulting	Other		No Response
(0-1)	1 5.3% 11.1%	1 5.3% 25.0%	5 26.3% 22.7%	3 15.8% 37.5%	1 5.3% 25.0%	3 15.8% 25.0%	0 0.0% 0.0%	1 5.3% 100.0%	0 0.0% ***.0%	0 0.0% 0.0%	0 0.0% 0.0%	4 21.1% 20.0%	19 100.0% 20.4%
(2-4)	3 11.1% 33.3%	1 3.7% 25.0%	6 22.2% 27.5%	3 11.1% 37.5%	0 0.0% 0.0%	3 11.1% 25.0%	3 11.1% 37.5%	0 0.0% 0.0%	0 0.0% ***.0%	0 0.0% 0.0%	2 7.4% 66.7%	6 22.2% 30.0%	27 100.0% 29.0%
(5-7)	0 0.0% 0.0%	1 7.7% 25.0%	5 38.5% 22.7%	1 7.7% 12.5%	0 0.0% 0.0%	0 0.0% 0.0%	1 7.7% 12.5%	0 0.0% 0.0%	0 0.0% ***.0%	1 7.7% 50.0%	0 0.0% 0.0%	4 30.8% 20.0%	13 100.0% 14.0%
(8-10)	2 14.3% 22.2%	0 0.0% 0.0%	4 28.6% 18.2%	1 7.1% 12.5%	0 0.0% 0.0%	4 28.6% 33.3%	2 14.3% 25.0%	0 0.0% 0.0%	0 0.0% ***.0%	0 0.0% 0.0%	0 0.0% 0.0%	1 7.1% 5.0%	14 100.0% 15.1%
(11-13)	2 50.0% 22.2%	1 25.0% 25.0%	0 0.0% 0.0%	0 0.0% 0.0%	1 25.0% 25.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% ***.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	4 100.0% 4.3%
(14-18)	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	1 25.0% 8.3%	1 25.0% 12.5%	0 0.0% 0.0%	0 0.0% ***.0%	0 0.0% 0.0%	0 0.0% 0.0%	2 50.0% 10.0%	4 100.0% 4.3%
(19-24)	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	1 50.0% 12.5%	0 0.0% 0.0%	0 0.0% ***.0%	1 50.0% 50.0%	0 0.0% 0.0%	0 0.0% 0.0%	2 100.0% 2.2%
(25-36)	1 33.3% 11.1%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	1 33.3% 25.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% ***.0%	0 0.0% 0.0%	0 0.0% 0.0%	1 33.3% 5.0%	3 100.0% 3.2%
(>=37)	0 0.0% 0.0%	0 0.0% 0.0%	2 28.6% 9.1%	0 0.0% 0.0%	1 14.3% 25.0%	1 14.3% 8.3%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% ***.0%	0 0.0% 0.0%	1 14.3% 33.3%	2 28.6% 10.0%	7 100.0% 7.5%
TOTAL	9 9.7% 100.0%	4 4.3% 100.0%	22 23.7% 100.0%	8 8.6% 100.0%	4 4.3% 100.0%	12 12.9% 100.0%	8 8.6% 100.0%	1 1.1% 100.0%	0 0.0% ***.0%	2 2.2% 100.0%	3 3.2% 100.0%	20 21.5% 100.0%	93 100.0% 100.0%

TABLE-8.5.0

LENGTH OF UNEMPLOYMENT OF UNEMPLOYED CHEMISTS UNEMPLOYED ON MARCH 1, 1981
by WORK SPECIALTY
1981 Survey of ACS Members

MONTHS UNEMPLOYED	SPECIALTY											No Response	TOTAL		
	Biochem	Agr-Food	Analytic	Environ.	Organic	Pharm.	Physical	Theore.	Poly-Mac	Other	Non-chem				
(0-1)	1 5.3% 14.3%	1 5.3% 25.0%	6 31.6% 27.3%	1 5.3% 20.0%	1 5.3% 11.1%	0 0.0% 0.0%	2 10.5% 33.3%	1 5.3% 100.0%	5 26.3% 38.5%	1 5.3% 7.1%	0 0.0% ***. **%	0 0.0% ***. **%	0 0.0% ***. **%	19 100.0% 20.4%	-Count -% of Row -% of Col
(2-4)	2 7.4% 28.6%	0 0.0% 0.0%	5 18.5% 22.7%	2 7.4% 40.0%	3 11.1% 33.3%	5 18.5% 41.7%	1 3.7% 16.7%	0 0.0% 0.0%	3 11.1% 23.1%	6 22.2% 42.9%	0 0.0% ***. **%	0 0.0% ***. **%	0 0.0% ***. **%	27 100.0% 29.0%	
(5-7)	1 7.7% 14.3%	0 0.0% 0.0%	2 15.4% 9.1%	0 0.0% 0.0%	1 7.7% 11.1%	3 23.1% 25.0%	1 7.7% 16.7%	0 0.0% 0.0%	2 15.4% 15.4%	3 23.1% 21.4%	0 0.0% ***. **%	0 0.0% ***. **%	0 0.0% ***. **%	13 100.0% 14.0%	
(8-10)	0 0.0% 0.0%	2 14.3% 50.0%	6 42.9% 27.3%	1 7.1% 20.0%	3 21.4% 33.3%	1 7.1% 8.3%	1 7.1% 16.7%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% ***. **%	0 0.0% ***. **%	0 0.0% ***. **%	14 100.0% 15.1%	
(11-13)	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	1 25.0% 8.3%	0 0.0% 0.0%	0 0.0% 0.0%	2 50.0% 15.4%	1 25.0% 7.1%	0 0.0% ***. **%	0 0.0% ***. **%	0 0.0% ***. **%	4 100.0% 4.3%	
(14-18)	1 25.0% 14.3%	0 0.0% 0.0%	3 75.0% 13.6%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% ***. **%	0 0.0% ***. **%	0 0.0% ***. **%	4 100.0% 4.3%	
(19-24)	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	2 100.0% 16.7%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% ***. **%	0 0.0% ***. **%	0 0.0% ***. **%	2 100.0% 2.2%	
(25-36)	1 33.3% 14.3%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	1 33.3% 11.1%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	1 33.3% 7.7%	0 0.0% 0.0%	0 0.0% ***. **%	0 0.0% ***. **%	0 0.0% ***. **%	3 100.0% 3.2%	
(>=37)	1 14.3% 14.3%	1 14.3% 25.0%	0 0.0% 0.0%	1 14.3% 20.0%	0 0.0% 0.0%	0 0.0% 0.0%	1 14.3% 16.7%	0 0.0% 0.0%	0 0.0% 0.0%	3 42.9% 21.4%	0 0.0% ***. **%	0 0.0% ***. **%	0 0.0% ***. **%	7 100.0% 7.5%	
TOTAL	7 100.0%	4 4.3% 100.0%	22 23.7% 100.0%	5 5.4% 100.0%	9 9.7% 100.0%	12 12.9% 100.0%	6 6.5% 100.0%	1 1.1% 100.0%	13 14.0% 100.0%	14 15.1% 100.0%	0 0.0% ***. **%	0 0.0% ***. **%	0 0.0% ***. **%	93 100.0% 100.0%	

TABLE-9.1.0

RESPONDENTS by SEX and DEGREE
1981 Survey of ACS Members

SEX	HIGHEST DEGREE				TOTAL	
	Bachelor's	Master's	Doctorate	No Response		
Men	2,573	1,968	5,294	61	9,896	-Count
	26.0%	19.9%	53.5%	0.6%	100.0%	-% of Row
	83.6%	84.8%	92.2%	48.0%	87.8%	-% of Col
Women	473	335	400	3	1,211	
	39.1%	27.7%	33.0%	0.2%	100.0%	
	15.4%	14.4%	7.0%	2.4%	10.7%	
No Response	30	17	49	63	159	
	18.9%	10.7%	30.8%	39.6%	100.0%	
	1.0%	0.7%	0.9%	49.6%	1.4%	
TOTAL	3,076	2,320	5,743	127	11,266	
	27.3%	20.6%	51.0%	1.1%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	

TABLE-9.2.0

RESPONDENTS by AGE and DEGREE
1981 Survey of ACS Members

AGE LEVEL	HIGHEST DEGREE				TOTAL	
	Bachelor's	Master's	Doctorate	No Response		
(20-24)	184 86.8% 6.0%	22 10.4% 0.9%	6 2.8% 0.1%	0 0.0% 0.0%	212	-Count 100.0% 1.9%
(25-29)	509 44.9% 16.5%	289 25.5% 12.5%	334 29.5% 5.8%	1 0.1% 0.8%	1,133	100.0% 10.1%
(30-34)	395 24.5% 12.8%	367 22.7% 15.8%	850 52.7% 14.8%	2 0.1% 1.6%	1,614	100.0% 14.3%
(35-39)	304 17.7% 9.9%	302 17.6% 13.0%	1,111 64.6% 19.3%	3 0.2% 2.4%	1,720	100.0% 15.3%
(40-44)	244 17.1% 7.9%	251 17.6% 10.8%	928 65.1% 16.2%	3 0.2% 2.4%	1,426	100.0% 12.7%
(45-49)	264 21.6% 8.6%	239 19.6% 10.3%	711 58.3% 12.4%	6 0.5% 4.7%	1,220	100.0% 10.8%
(50-54)	382 28.2% 12.4%	302 22.3% 13.0%	670 49.4% 11.7%	2 0.1% 1.6%	1,356	100.0% 12.0%
(55-59)	416 32.1% 13.5%	301 23.2% 13.0%	576 44.4% 10.0%	4 0.3% 3.1%	1,297	100.0% 11.5%
(60-64)	298 32.9% 9.7%	184 20.3% 7.9%	419 46.3% 7.3%	4 0.4% 3.1%	905	100.0% 8.0%
(65-69)	57 27.0% 1.9%	43 20.4% 1.9%	109 51.7% 1.9%	2 0.9% 1.6%	211	100.0% 1.9%
(>=70)	6 35.3% 0.2%	4 23.5% 0.2%	6 35.3% 0.1%	1 5.9% 0.8%	17	100.0% 0.2%
No Response	17 11.0% 0.6%	16 10.3% 0.7%	23 14.8% 0.4%	99 63.9% 78.0%	155	100.0% 1.4%
TOTAL	3,076 27.3% 100.0%	2,320 20.6% 100.0%	5,743 51.0% 100.0%	127 1.1% 100.0%	11,266	100.0% 100.0%

TABLE-9.2.1

RESPONDENTS by AGE and DEGREE - MEN Only
1981 Survey of ACS Members

AGE LEVEL	HIGHEST DEGREE				TOTAL	
	Bachelor's	Master's	Doctorate	No Response		
(20-24)	98 84.5% 3.8%	15 12.9% 0.8%	3 2.6% 0.1%	0 0.0% 0.0%	116	-Count 100.0% 1.2%
(25-29)	354 41.5% 13.8%	213 25.0% 10.8%	285 33.4% 5.4%	1 0.1% 1.6%	853	-% of Row 100.0% 8.6%
(30-34)	327 23.7% 12.7%	303 22.0% 15.4%	748 54.2% 14.1%	2 0.1% 3.3%	1,380	100.0% 13.9%
(35-39)	258 17.0% 10.0%	243 16.0% 12.3%	1,017 66.9% 19.2%	3 0.2% 4.9%	1,521	100.0% 15.4%
(40-44)	213 16.5% 8.3%	220 17.0% 11.2%	857 66.3% 16.2%	2 0.2% 3.3%	1,292	100.0% 13.1%
(45-49)	235 20.9% 9.1%	207 18.4% 10.5%	676 60.1% 12.8%	6 0.5% 9.8%	1,124	100.0% 11.4%
(50-54)	349 28.1% 13.6%	261 21.0% 13.3%	630 50.8% 11.9%	1 0.1% 1.6%	1,241	100.0% 12.5%
(55-59)	388 31.9% 15.1%	277 22.7% 14.1%	550 45.2% 10.4%	3 0.2% 4.9%	1,218	100.0% 12.3%
(60-64)	285 32.7% 11.1%	175 20.1% 8.9%	407 46.7% 7.7%	4 0.5% 6.6%	871	100.0% 8.8%
(65-69)	54 27.3% 2.1%	41 20.7% 2.1%	101 51.0% 1.9%	2 1.0% 3.3%	198	100.0% 2.0%
(>=70)	4 44.4% 0.2%	3 33.3% 0.2%	2 22.2% 0.0%	0 0.0% 0.0%	9	100.0% 0.1%
No Response	8 11.0% 0.3%	10 13.7% 0.5%	18 24.7% 0.3%	37 50.7% 60.7%	73	100.0% 0.7%
TOTAL	2,573 26.0% 100.0%	1,968 19.9% 100.0%	5,294 53.5% 100.0%	61 0.6% 100.0%	9,896	100.0% 100.0%

TABLE-9.2.2

RESPONDENTS by AGE and DEGREE - WOMEN Only
1981 Survey of ACS Members

AGE LEVEL	HIGHEST DEGREE				TOTAL	
	Bachelor's	Master's	Doctorate	No Response		
(20-24)	85 89.5% 18.0%	7 7.4% 2.1%	3 3.2% 0.8%	0 0.0% 0.0%	95	-Count 100.0% 7.8%
(25-29)	155 55.4% 32.8%	76 27.1% 22.7%	49 17.5% 12.3%	0 0.0% 0.0%	280	100.0% 23.1%
(30-34)	64 28.7% 13.5%	63 28.3% 18.8%	96 43.0% 24.0%	0 0.0% 0.0%	223	100.0% 18.4%
(35-39)	45 23.6% 9.5%	56 29.3% 16.7%	90 47.1% 22.5%	0 0.0% 0.0%	191	100.0% 15.8%
(40-44)	30 24.4% 6.3%	31 25.2% 9.3%	62 50.4% 15.5%	0 0.0% 0.0%	123	100.0% 10.2%
(45-49)	26 29.9% 5.5%	31 35.6% 9.3%	30 34.5% 7.5%	0 0.0% 0.0%	87	100.0% 7.2%
(50-54)	28 30.4% 5.9%	36 39.1% 10.7%	27 29.3% 6.8%	1 1.1% 33.3%	92	100.0% 7.6%
(55-59)	23 34.8% 4.9%	22 33.3% 6.6%	20 30.3% 5.0%	1 1.5% 33.3%	66	100.0% 5.5%
(60-64)	10 32.3% 2.1%	9 29.0% 2.7%	12 38.7% 3.0%	0 0.0% 0.0%	31	100.0% 2.6%
(65-69)	3 27.3% 0.6%	2 18.2% 0.6%	6 54.5% 1.5%	0 0.0% 0.0%	11	100.0% 0.9%
(>=70)	2 66.7% 0.4%	0 0.0% 0.0%	1 33.3% 0.3%	0 0.0% 0.0%	3	100.0% 0.2%
No Response	2 22.2% 0.4%	2 22.2% 0.6%	4 44.4% 1.0%	1 11.1% 33.3%	9	100.0% 0.7%
TOTAL	473 39.1% 100.0%	335 27.7% 100.0%	400 33.0% 100.0%	3 0.2% 100.0%	1,211	100.0% 100.0%

TABLE-9.3.0

 RESPONDENTS by WORK SPECIALTY and DEGREE
 1981 Survey of ACS Members

SPECIALTY	HIGHEST DEGREE				TOTAL	
	Bachelor's	Master's	Doctorate	No Response		
Chemical Engineering	451 38.9% 14.7%	296 25.5% 12.8%	401 34.6% 7.0%	11 0.9% 8.7%	1,159	-Count
Biochemistry	44 6.6% 1.4%	57 8.5% 2.5%	561 48.1% 9.8%	5 0.7% 3.9%	667	-% of Row
Agricultural, Food Chemistry	127 33.2% 4.1%	69 18.0% 3.0%	186 48.6% 3.2%	1 0.3% 0.8%	383	-% of Col
Analytical Chemistry	743 41.6% 24.2%	412 23.1% 17.8%	619 34.7% 10.8%	11 0.6% 8.7%	1,785	
Environmental Chemistry	206 33.9% 6.7%	146 24.1% 6.3%	253 41.7% 4.4%	2 0.3% 1.6%	607	
Organic Chemistry	237 15.8% 7.7%	251 16.7% 10.8%	1,006 66.9% 17.5%	10 0.7% 7.9%	1,504	
Pharmaceutical, Medicinal Chemistry	189 24.1% 6.1%	180 22.9% 7.8%	411 52.4% 7.2%	5 0.6% 3.9%	785	
Physical Chemistry	79 9.6% 2.6%	70 8.5% 3.0%	673 81.6% 11.7%	3 0.4% 2.4%	825	
Theoretical Chemistry	7 11.9% 0.2%	5 8.5% 0.2%	46 78.0% 0.8%	1 1.7% 0.8%	59	
Polymer, Macromolecular Chemistry	276 26.1% 9.0%	186 17.6% 8.0%	594 56.1% 10.3%	3 0.3% 2.4%	1,059	
Other Chemical	344 28.2% 11.2%	306 25.1% 13.2%	563 46.2% 9.8%	5 0.4% 3.9%	1,218	
Non-Chemical	346 32.8% 11.2%	308 29.2% 13.3%	391 37.1% 6.8%	9 0.9% 7.1%	1,054	
No Response	27 16.8% 0.9%	34 21.1% 1.5%	39 24.2% 0.7%	61 37.9% 48.0%	161	
TOTAL	3,076 27.3% 100.0%	2,320 20.6% 100.0%	5,743 51.0% 100.0%	127 1.1% 100.0%	11,266	

TABLE-9.4.0

RESPONDENTS by MINORITY CLASSIFICATION and DEGREE
1981 Survey of ACS Members

RACE	HIGHEST DEGREE				TOTAL	
	Bachelors	Masters	Doctorate	No Response		
White	2,893	2,132	5,187	63	10,275	-Count
	28.2%	20.7%	50.5%	0.6%	100.0%	-% of Row
	94.1%	91.9%	90.3%	49.6%	91.2%	-% of Col
Black	44	40	51	0	135	
	32.6%	29.6%	37.8%	0.0%	100.0%	
	1.4%	1.7%	0.9%	0.0%	1.2%	
American Indian	5	4	5	0	14	
	35.7%	28.6%	35.7%	0.0%	100.0%	
	0.2%	0.2%	0.1%	0.0%	0.1%	
Asian/Pacific	73	101	421	3	598	
	12.2%	16.9%	70.4%	0.5%	100.0%	
	2.4%	4.4%	7.3%	2.4%	5.3%	
Hispanic	22	16	31	0	69	
	31.9%	23.2%	44.9%	0.0%	100.0%	
	0.7%	0.7%	0.5%	0.0%	0.6%	
None of Above	14	10	18	0	42	
	33.3%	23.8%	42.9%	0.0%	100.0%	
	0.5%	0.4%	0.3%	0.0%	0.4%	
No Response	25	17	30	61	133	
	18.8%	12.8%	22.6%	45.9%	100.0%	
	0.8%	0.7%	0.5%	48.0%	1.2%	
TOTAL	3,076	2,320	5,743	127	11,266	
	27.3%	20.6%	51.0%	1.1%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	

TABLE-9.5.0

RESPONDENTS by MINORITY CLASSIFICATION and SEX
1981 Survey of ACS Members

RACE	SEX			TOTAL	
	Men	Women	No Response		
White	9,142	1,063	70	10,275	-Count
	89.0%	10.3%	0.7%	100.0%	-% of Row
	92.4%	87.8%	44.0%	91.2%	-% of Col
Black	90	43	2	135	
	66.7%	31.9%	1.5%	100.0%	
	0.9%	3.6%	1.3%	1.2%	
American Indian	11	3	0	14	
	78.6%	21.4%	0.0%	100.0%	
	0.1%	0.2%	0.0%	0.1%	
Asian/Pacific	512	81	5	598	
	85.6%	13.5%	0.8%	100.0%	
	5.2%	6.7%	3.1%	5.3%	
Hispanic	57	11	1	69	
	82.6%	15.9%	1.4%	100.0%	
	0.6%	0.9%	0.6%	0.6%	
None of Above	35	6	1	42	
	83.3%	14.3%	2.4%	100.0%	
	0.4%	0.5%	0.6%	0.4%	
No Response	49	4	80	133	
	36.8%	3.0%	60.2%	100.0%	
	0.5%	0.3%	50.3%	1.2%	
TOTAL	9,896	1,211	159	11,266	
	87.8%	10.7%	1.4%	100.0%	
	100.0%	100.0%	100.0%	100.0%	

TABLE-9.6.0

RESPONDENTS by MINORITY CLASSIFICATION and CITIZENSHIP
1981 Survey of ACS Members

RACE	CITIZENSHIP				TOTAL	
	US Citizen	Perm Resident	Other	No Response		
White	10,026	195	23	31	10,275	-Count
	97.6%	1.9%	0.2%	0.3%	100.0%	-% of Row
	93.7%	48.0%	40.4%	31.6%	91.2%	-% of Col
Black	124	8	1	2	135	
	91.9%	5.9%	0.7%	1.5%	100.0%	
	1.2%	2.0%	1.8%	2.0%	1.2%	
American Indian	13	1	0	0	14	
	92.9%	7.1%	0.0%	0.0%	100.0%	
	0.1%	0.2%	0.0%	0.0%	0.1%	
Asian/Pacific	378	191	29	0	598	
	63.2%	31.9%	4.8%	0.0%	100.0%	
	3.5%	47.0%	50.9%	0.0%	5.3%	
Hispanic	63	3	2	1	69	
	91.3%	4.3%	2.9%	1.4%	100.0%	
	0.6%	0.7%	3.5%	1.0%	0.6%	
None of Above	31	8	2	1	42	
	73.8%	19.0%	4.8%	2.4%	100.0%	
	0.3%	2.0%	3.5%	1.0%	0.4%	
No Response	70	0	0	63	133	
	52.6%	0.0%	0.0%	47.4%	100.0%	
	0.7%	0.0%	0.0%	64.3%	1.2%	
TOTAL	10,705	406	57	98	11,266	
	95.0%	3.6%	0.5%	0.9%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	

RESPONDENTS by LOCAL SECTION and WORK SPECIALTY
 1981 Survey of ACS Members

SPECIALTY

ACS LOCAL SECTION	Chemical Eng.	Biochem	Agr./Food Chemistry	Analytic Chem.	Enviro Chem.	Organic	Pharm Medical	Physical Chem.	Theor Chem.	Polymer Macro	Other Chem.	Other Non-Chem	No Response	TOTAL	-Count	-% of Row	-% of Col.
Southern California	55 11.7% 4.7%	28 6.0% 4.2%	15 3.2% 3.9%	63 13.4% 3.5%	31 6.6% 5.1%	59 12.6% 3.9%	36 7.7% 4.6%	43 9.2% 5.2%	4 0.9% 6.8%	38 8.1% 3.6%	59 12.6% 4.8%	38 8.1% 3.6%	0 0.0% 0.0%	469 100.0% 4.2%	0	0.0%	0.0%
California	43 10.0% 3.7%	31 7.2% 4.6%	32 7.4% 8.4%	72 16.7% 4.0%	26 6.0% 4.3%	48 11.2% 3.2%	21 4.9% 2.7%	40 9.3% 4.8%	4 0.9% 6.8%	33 7.7% 3.1%	35 8.1% 2.9%	45 10.5% 4.3%	0 0.0% 0.0%	430 100.0% 3.8%	0	0.0%	0.0%
Chicago	61 10.3% 5.3%	32 5.4% 4.8%	35 5.9% 9.1%	109 18.4% 6.1%	29 4.9% 4.8%	71 12.0% 4.7%	61 10.3% 7.8%	37 6.2% 4.5%	2 0.3% 3.4%	38 6.4% 3.6%	63 10.6% 5.2%	48 8.1% 4.6%	7 1.2% 4.3%	593 100.0% 5.3%	7	1.2%	4.3%
Delaware	27 9.5% 2.3%	3 1.0% 0.4%	3 1.0% 0.8%	40 13.8% 2.2%	10 3.4% 1.6%	50 17.2% 3.3%	11 3.8% 1.4%	17 5.9% 2.1%	1 0.3% 1.7%	68 23.4% 6.0%	30 10.3% 2.5%	28 9.7% 2.7%	2 0.7% 1.2%	290 100.0% 2.6%	2	0.7%	1.2%
New York	51 7.6% 4.4%	59 8.7% 8.8%	27 4.0% 7.0%	104 15.4% 5.8%	35 5.2% 5.8%	86 12.7% 5.7%	68 10.1% 8.7%	48 7.1% 5.8%	6 0.9% 10.2%	43 6.4% 4.1%	68 10.1% 5.6%	75 11.1% 7.1%	5 0.7% 3.1%	675 100.0% 6.0%	5	0.7%	3.1%
North Jersey	95 11.6% 8.2%	29 3.6% 4.3%	26 3.2% 6.8%	99 12.1% 5.5%	19 2.3% 3.1%	123 15.1% 8.2%	114 14.0% 14.5%	44 5.4% 5.3%	5 0.6% 8.5%	92 11.3% 8.7%	89 10.9% 7.3%	76 9.3% 7.2%	5 0.6% 3.1%	816 100.0% 7.2%	5	0.6%	3.1%
North Eastern	62 9.7% 5.3%	48 7.5% 7.2%	7 1.1% 1.8%	86 13.5% 4.8%	29 4.6% 4.8%	77 12.1% 5.1%	48 7.5% 6.1%	50 7.9% 6.1%	4 0.6% 6.8%	80 12.6% 7.6%	93 14.6% 7.6%	47 7.4% 4.5%	5 0.8% 3.1%	636 100.0% 5.6%	5	0.8%	3.1%
Philadelphia	42 9.5% 3.6%	19 4.3% 2.8%	9 2.0% 2.3%	64 14.5% 3.6%	14 3.2% 2.3%	55 12.4% 3.7%	53 12.0% 6.8%	28 6.3% 3.4%	2 0.5% 3.4%	64 14.5% 6.0%	44 10.0% 3.6%	45 10.2% 4.3%	3 0.7% 1.9%	442 100.0% 3.9%	3	0.7%	1.9%
Pittsburgh	46 17.9% 4.0%	5 1.9% 0.7%	1 0.4% 0.3%	54 21.0% 3.0%	15 5.8% 2.5%	27 10.5% 1.8%	4 1.6% 0.5%	20 7.8% 2.4%	2 0.8% 3.4%	36 14.0% 3.4%	23 8.9% 1.9%	22 8.6% 2.1%	2 0.8% 1.2%	257 100.0% 2.3%	2	0.8%	1.2%
Southeast Texas	63 19.1% 5.4%	15 4.6% 2.2%	9 2.7% 2.3%	69 21.0% 3.9%	14 4.3% 2.3%	37 11.2% 2.5%	9 2.7% 1.1%	23 7.0% 2.8%	2 0.6% 3.4%	21 6.4% 2.0%	26 7.9% 2.1%	37 11.2% 3.5%	4 1.2% 2.5%	329 100.0% 2.9%	4	1.2%	2.5%
Washington, DC	37 7.9% 3.2%	55 11.8% 8.2%	18 3.9% 4.7%	56 12.0% 3.1%	43 9.2% 7.1%	32 6.9% 2.1%	42 9.0% 5.4%	42 9.5% 5.1%	1 0.2% 1.7%	23 4.9% 2.2%	42 9.0% 3.4%	68 14.6% 6.5%	7 1.5% 4.3%	466 100.0% 4.1%	7	1.5%	4.3%
None of Above	543 9.8% 46.9%	316 5.7% 47.4%	194 3.5% 50.7%	937 16.8% 52.5%	329 5.9% 54.2%	818 14.7% 54.4%	311 5.6% 39.6%	419 7.5% 50.8%	26 0.5% 44.1%	505 9.1% 47.7%	622 11.2% 51.1%	495 8.9% 47.0%	54 1.0% 33.5%	5,569 100.0% 49.4%	54	1.0%	33.5%
No Response	34 11.6% 2.9%	27 9.2% 4.0%	7 2.4% 1.8%	32 10.9% 1.8%	13 4.4% 2.1%	21 7.1% 1.4%	7 2.4% 0.9%	14 4.8% 1.7%	0 0.0% 0.0%	18 6.1% 1.7%	24 8.2% 2.0%	30 10.2% 2.8%	67 22.8% 41.6%	294 100.0% 2.6%	67	22.8%	41.6%
TOTAL	1,159 100.0%	667 100.0%	383 100.0%	1,785 100.0%	607 100.0%	1,504 100.0%	785 100.0%	825 100.0%	59 100.0%	1,059 100.0%	1,218 100.0%	1,054 100.0%	161 100.0%	11,266 100.0%	161	1.4%	100.0%

TABLE-9.8.0

 RESPONDENTS by ACS LOCAL SECTION and EMPLOYMENT STATUS
 1981 Survey of ACS Members

ACS LOCAL SECTION	EMPLOYMENT STATUS						TOTAL	
	Post- Doctorate	Employed Full-time	Unempl. Seeking	Unempl. Not Seek	Employed Part-time	No Response		
Southern California	12 2.6% 5.9%	422 90.0% 4.0%	6 1.3% 4.8%	9 1.9% 8.2%	12 2.6% 8.6%	8 1.7% 3.1%	469	-Count -% of Row -% of Col
California	9 2.1% 4.5%	398 92.6% 3.8%	5 1.2% 4.0%	4 0.9% 3.6%	9 2.1% 6.4%	5 1.2% 2.0%	430	
Chicago	9 1.5% 4.5%	564 95.1% 5.4%	8 1.3% 6.5%	1 0.2% 0.9%	6 1.0% 4.3%	5 0.8% 2.0%	593	
Delaware	1 0.3% 0.5%	278 95.9% 2.7%	2 0.7% 1.6%	3 1.0% 2.7%	2 0.7% 1.4%	4 1.4% 1.6%	290	
New York	19 2.8% 9.4%	615 91.1% 5.9%	10 1.5% 8.1%	5 0.7% 4.5%	8 1.2% 5.7%	18 2.7% 7.0%	675	
North Jersey	3 0.4% 1.5%	776 95.1% 7.4%	6 0.7% 4.8%	4 0.5% 3.6%	13 1.6% 9.3%	14 1.7% 5.5%	816	
North Eastern	28 4.4% 13.9%	578 90.9% 5.5%	7 1.1% 5.6%	5 0.8% 4.5%	6 0.9% 4.3%	12 1.9% 4.7%	636	
Philadelphia	5 1.1% 2.5%	418 94.6% 4.0%	7 1.6% 5.6%	1 0.2% 0.9%	4 0.9% 2.9%	7 1.6% 2.7%	442	
Pittsburgh	4 1.6% 2.0%	244 94.9% 2.3%	4 1.6% 3.2%	2 0.8% 1.8%	0 0.0% 0.0%	3 1.2% 1.2%	257	
Southeast Texas	4 1.2% 2.0%	309 93.9% 3.0%	3 0.9% 2.4%	5 1.5% 4.5%	6 1.8% 4.3%	2 0.6% 0.8%	329	
Washington, DC	11 2.4% 5.4%	413 88.6% 4.0%	7 1.5% 5.6%	10 2.1% 9.1%	11 2.4% 7.9%	14 3.0% 5.5%	466	
None of Above	90 1.6% 44.6%	5,215 93.6% 50.0%	55 1.0% 44.4%	59 1.1% 53.6%	59 1.1% 42.1%	91 1.6% 35.5%	5,569	
No Response	7 2.4% 3.5%	204 69.4% 2.0%	4 1.4% 3.2%	2 0.7% 1.8%	4 1.4% 2.9%	73 24.8% 28.5%	294	
TOTAL	202 1.8% 100.0%	10,434 92.6% 100.0%	124 1.1% 100.0%	110 1.0% 100.0%	140 1.2% 100.0%	256 2.3% 100.0%	11,266	

TABLE-9.9.0

 RESPONDENTS by ACS LOCAL SECTION and SEX
 1981 Survey of ACS Members

ACS LOCAL SECTION	SEX			TOTAL	
	Men	Women	No Response		
Southern	406	57	6	469	-Count
California	86.6% 4.1%	12.2% 4.7%	1.3% 3.8%	100.0% 4.2%	-% of Row -% of Col
California	375	53	2	430	
	87.2% 3.8%	12.3% 4.4%	0.5% 1.3%	100.0% 3.8%	
Chicago	515	72	6	593	
	86.8% 5.2%	12.1% 5.9%	1.0% 3.8%	100.0% 5.3%	
Delaware	265	23	2	290	
	91.4% 2.7%	7.9% 1.9%	0.7% 1.3%	100.0% 2.6%	
New York	585	85	5	675	
	86.7% 5.9%	12.6% 7.0%	0.7% 3.1%	100.0% 6.0%	
North Jersey	714	95	7	816	
	87.5% 7.2%	11.6% 7.8%	0.9% 4.4%	100.0% 7.2%	
North Eastern	548	84	4	636	
	86.2% 5.5%	13.2% 6.9%	0.6% 2.5%	100.0% 5.6%	
Philadelphia	388	53	1	442	
	87.8% 3.9%	12.0% 4.4%	0.2% 0.6%	100.0% 3.9%	
Pittsburgh	224	30	3	257	
	87.2% 2.3%	11.7% 2.5%	1.2% 1.9%	100.0% 2.3%	
Southeast Texas	287	37	5	329	
	87.2% 2.9%	11.2% 3.1%	1.5% 3.1%	100.0% 2.9%	
Washington, DC	384	77	5	466	
	82.4% 3.9%	16.5% 6.4%	1.1% 3.1%	100.0% 4.1%	
None of Above	5,015	514	40	5,569	
	90.1% 50.7%	9.2% 42.4%	0.7% 25.2%	100.0% 49.4%	
No Response	190	31	73	294	
	64.6% 1.9%	10.5% 2.6%	24.8% 45.9%	100.0% 2.6%	
TOTAL	9,896	1,211	159	11,266	
	87.8% 100.0%	10.7% 100.0%	1.4% 100.0%	100.0% 100.0%	

TABLE-9.10.0

RESPONDENTS by ACS LOCAL SECTION and AGE
1981 Survey of ACS Members

AGE LEVEL

ACS LOCAL SECTION	AGE LEVEL										No Response	TOTAL	-Count -% of Row -% of Col
	(20-24)	(25-29)	(30-34)	(35-39)	(40-44)	(45-49)	(50-54)	(55-59)	(60-64)	(65-69)			
Southern California	9 1.9% 4.2%	42 9.0% 3.7%	74 15.8% 4.6%	64 13.5% 3.7%	58 12.4% 4.1%	50 10.7% 4.1%	45 9.6% 3.3%	60 12.8% 4.6%	45 9.6% 3.3%	16 3.4% 7.6%	2 0.4% 11.8%	4 0.9% 2.6%	469 100.0% 4.2%
California	7 1.6% 3.3%	40 9.3% 3.5%	73 17.0% 4.5%	66 15.2% 3.8%	58 13.5% 4.1%	40 9.3% 3.3%	53 12.3% 3.9%	43 10.0% 3.3%	42 9.8% 4.6%	6 1.4% 2.8%	0 0.0% 0.0%	2 0.5% 1.3%	430 100.0% 3.8%
Chicago	14 2.4% 6.6%	76 12.8% 6.7%	91 15.3% 5.6%	99 16.7% 5.8%	60 10.1% 4.2%	54 9.1% 4.2%	65 11.0% 4.8%	54 9.1% 4.2%	60 10.1% 6.6%	16 2.7% 7.6%	1 0.2% 5.9%	3 0.5% 1.9%	593 100.0% 5.3%
Delaware	1 0.3% 0.5%	25 8.6% 2.2%	24 8.2% 1.5%	36 12.4% 2.1%	39 13.4% 2.7%	23 7.9% 1.9%	49 16.9% 3.6%	50 17.2% 3.9%	34 11.7% 3.8%	5 1.7% 2.4%	0 0.0% 0.0%	4 1.4% 2.6%	290 100.0% 2.6%
New York	23 3.4% 10.8%	75 11.1% 6.6%	104 15.4% 6.4%	97 14.4% 5.6%	73 10.8% 5.1%	66 9.8% 5.4%	91 13.5% 6.7%	78 11.6% 6.0%	47 7.0% 5.2%	12 1.8% 5.7%	1 0.1% 5.9%	8 1.2% 5.2%	675 100.0% 6.0%
North Jersey	12 1.5% 5.7%	69 8.5% 6.1%	107 13.1% 6.6%	120 14.7% 7.0%	94 11.5% 6.6%	99 12.1% 8.1%	113 13.8% 8.3%	103 12.6% 7.9%	78 9.6% 8.6%	18 2.2% 8.5%	0 0.0% 0.0%	3 0.4% 1.9%	816 100.0% 7.2%
North Eastern	19 3.0% 9.0%	81 12.7% 7.1%	95 14.9% 5.9%	115 18.1% 6.7%	73 11.5% 5.1%	57 9.0% 4.7%	67 10.5% 4.9%	75 11.8% 5.8%	43 6.8% 4.8%	7 1.1% 3.3%	0 0.0% 0.0%	4 0.6% 2.6%	636 100.0% 5.6%
Philadelphia	10 2.3% 4.7%	42 9.5% 3.7%	59 13.3% 3.7%	52 11.8% 3.0%	58 13.1% 4.1%	52 11.8% 4.3%	56 12.7% 4.1%	66 14.9% 5.1%	36 8.1% 4.0%	8 1.8% 3.8%	1 0.2% 5.9%	2 0.5% 1.3%	442 100.0% 3.9%
Pittsburgh	9 3.5% 4.2%	34 13.2% 3.0%	34 13.2% 2.1%	31 12.1% 1.8%	24 9.3% 1.7%	27 10.5% 2.2%	38 14.8% 2.8%	33 12.8% 2.5%	18 7.0% 2.0%	5 2.4% 11.8%	2 0.8% 1.3%	2 0.8% 1.3%	257 100.0% 2.3%
Southeast Texas	9 2.7% 4.2%	40 12.2% 3.5%	56 17.0% 3.5%	49 14.9% 2.8%	41 12.5% 2.9%	37 11.2% 3.0%	38 11.6% 2.8%	31 9.4% 2.4%	19 5.8% 2.1%	4 1.2% 1.9%	1 0.3% 5.9%	4 1.2% 2.6%	329 100.0% 2.9%
Washington, DC	6 1.3% 2.8%	37 7.9% 3.5%	50 10.7% 3.1%	76 16.3% 4.4%	73 15.7% 5.1%	47 10.1% 3.9%	56 12.0% 4.1%	53 11.4% 4.1%	46 9.9% 5.1%	14 3.6% 6.6%	1 0.2% 5.9%	7 1.5% 4.5%	466 100.0% 4.1%
None of Above	87 1.6% 41.0%	544 9.8% 48.0%	811 14.6% 50.2%	888 15.9% 51.6%	743 13.3% 52.1%	647 11.6% 53.0%	655 11.8% 48.3%	629 11.3% 48.5%	424 7.6% 46.9%	98 46.4% 29.4%	5 24.5%	38 0.7% 24.5%	5,569 100.0% 49.4%
No Response	6 2.0% 2.8%	28 9.5% 2.5%	36 12.2% 2.2%	27 9.2% 1.6%	32 10.9% 2.2%	21 7.1% 1.7%	30 10.2% 2.2%	22 7.5% 1.7%	13 4.4% 1.4%	2 0.9% 0.9%	3 1.6% 17.6%	74 25.2% 47.7%	294 100.0% 2.6%
TOTAL	212 1.9% 100.0%	1,133 10.1% 100.0%	1,614 14.3% 100.0%	1,720 15.3% 100.0%	1,426 12.7% 100.0%	1,220 10.8% 100.0%	1,356 12.0% 100.0%	1,297 11.5% 100.0%	905 8.0% 100.0%	211 1.9% 100.0%	17 0.2% 100.0%	155 1.4% 100.0%	11,266 100.0% 100.0%

TABLE-9.11.0

RESPONDENTS by ACS LOCAL SECTION and HIGHEST DEGREE
1981 Survey of ACS Members

ACS LOCAL SECTION	HIGHEST DEGREE				TOTAL	
	Bachelor's	Master's	Doctorate	No Response		
Southern California	131 27.9% 4.3%	102 21.7% 4.4%	233 49.7% 4.1%	3 0.6% 2.4%	469	-Count 100.0% 4.2%
California	136 31.6% 4.4%	76 17.7% 3.3%	216 50.2% 3.8%	2 0.5% 1.6%	430	-% of Row 100.0% 3.8%
Chicago	193 32.5% 6.3%	149 25.1% 6.4%	247 41.7% 4.3%	4 0.7% 3.1%	593	100.0% 5.3%
Delaware	44 15.2% 1.4%	43 14.8% 1.9%	201 69.3% 3.5%	2 0.7% 1.6%	290	100.0% 2.6%
New York	184 27.3% 6.0%	165 24.4% 7.1%	325 48.1% 5.7%	1 0.1% 0.8%	675	100.0% 6.0%
North Jersey	219 26.8% 7.1%	191 23.4% 8.2%	403 49.4% 7.0%	3 0.4% 2.4%	816	100.0% 7.2%
North Eastern	182 28.6% 5.9%	141 22.2% 6.1%	309 48.6% 5.4%	4 0.6% 3.1%	636	100.0% 5.6%
Philadelphia	133 30.1% 4.3%	95 21.5% 4.1%	212 48.0% 3.7%	2 0.5% 1.6%	442	100.0% 3.9%
Pittsburgh	92 35.8% 3.0%	54 21.0% 2.3%	109 42.4% 1.9%	2 0.8% 1.6%	257	100.0% 2.3%
Southeast Texas	86 26.1% 2.8%	89 27.1% 3.8%	152 46.2% 2.6%	2 0.6% 1.6%	329	100.0% 2.9%
Washington, DC	104 22.3% 3.4%	95 20.4% 4.1%	263 56.4% 4.6%	4 0.9% 3.1%	466	100.0% 4.1%
None of Above	1,508 27.1% 49.0%	1,073 19.3% 46.3%	2,955 53.1% 51.5%	33 0.6% 26.0%	5,569	100.0% 49.4%
No Response	64 21.8% 2.1%	47 16.0% 2.0%	118 40.1% 2.1%	65 22.1% 51.2%	294	100.0% 2.6%
TOTAL	3,076 27.3% 100.0%	2,320 20.6% 100.0%	5,743 51.0% 100.0%	127 1.1% 100.0%	11,266	100.0% 100.0%

TABLE-10.1.0

POSTDOCTORAL RESPONDENTS by AGE and YEARS SINCE BS
1981 Survey of ACS Members

AGE LEVEL	YEARS SINCE BS										TOTAL	
	(0-1)	(2-4)	(5-9)	(10-14)	(15-19)	(20-24)	(25-29)	(30-34)	(35-39)	(>=40)		No Response
(20-24)	0 0.0% ***.%	3 100.0% 42.9%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	3 100.0% 1.5%
(25-29)	0 0.0% ***.%	3 3.6% 42.9%	80 95.2% 75.5%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	1 1.2% 12.5%	84 100.0% 41.6%
(30-34)	0 0.0% ***.%	1 1.5% 14.3%	24 36.5% 22.6%	36 55.4% 80.0%	1 1.5% 6.3%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	3 4.6% 37.5%	65 100.0% 32.2%
(35-39)	0 0.0% ***.%	0 0.0% 0.0%	0 0.0% 0.0%	9 42.9% 20.0%	9 42.9% 56.3%	2 9.5% 33.3%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	1 4.8% 12.5%	21 100.0% 10.4%
(40-44)	0 0.0% ***.%	0 0.0% 0.0%	1 11.1% 0.9%	0 0.0% 0.0%	5 55.6% 31.3%	3 33.3% 50.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	9 100.0% 4.5%
(45-49)	0 0.0% ***.%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	1 16.7% 6.3%	0 0.0% 0.0%	4 66.7% 100.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	1 16.7% 12.5%	6 100.0% 3.0%
(50-54)	0 0.0% ***.%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	1 33.3% 16.7%	0 0.0% 0.0%	2 66.7% 100.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	3 100.0% 1.5%
(55-59)	0 0.0% ***.%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	3 75.0% 75.0%	1 25.0% 25.0%	0 0.0% 0.0%	4 100.0% 2.0%
(60-64)	0 0.0% ***.%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	2 100.0% 50.0%	0 0.0% 0.0%	2 100.0% 1.0%
(65-69)	0 0.0% ***.%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%
(>=70)	0 0.0% ***.%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%
No Response	0 0.0% ***.%	0 0.0% 0.0%	1 20.0% 0.9%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	1 20.0% 25.0%	1 20.0% 25.0%	2 40.0% 25.0%	5 100.0% 2.5%
TOTAL	0 0.0% ***.%	7 3.5% 100.0%	106 52.5% 100.0%	45 22.3% 100.0%	16 7.9% 100.0%	6 3.0% 100.0%	4 2.0% 100.0%	2 1.0% 100.0%	4 2.0% 100.0%	4 2.0% 100.0%	8 4.0% 100.0%	202 100.0% 100.0%

TABLE-10-2.0

POSTDOCTORAL RESPONDENTS by MINORITY CLASSIFICATION and CITIZENSHIP

CITIZENSHIP	RACE							No Response	TOTAL
	White	Black	American Indian	Asian	Hispanic	Other	No Response		
US Citizen	148 90.2% 91.4%	1 0.6% 33.3%	0 0.0% ***. **%	9 5.5% 30.0%	3 1.8% 100.0%	1 0.6% 50.0%	2 1.2% 100.0%	164 100.0% 81.2%	-Count -% of Row -% of Col
Permanent resident	5 26.3% 3.1%	1 5.3% 33.3%	0 0.0% ***. **%	12 63.2% 40.0%	0 0.0% 0.0%	1 5.3% 50.0%	0 0.0% 0.0%	19 100.0% 9.4%	
Other	8 44.4% 4.9%	1 5.6% 33.3%	0 0.0% ***. **%	9 50.0% 30.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	18 100.0% 8.9%	
No Response	1 100.0% 0.6%	0 0.0% 0.0%	0 0.0% ***. **%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	1 100.0% 0.5%	
TOTAL	162 80.2% 100.0%	3 1.5% 100.0%	0 0.0% ***. **%	30 14.9% 100.0%	3 1.5% 100.0%	2 1.0% 100.0%	2 1.0% 100.0%	202 100.0% 100.0%	

TABLE-10.3.0

POSTDOCTORAL RESPONDENTS by ACADEMIC EMPLOYER and MINORITY CLASSIFICATION
1981 Survey of ACS Members

ACADEMIC EMPLOYER	RACE							TOTAL	
	White	Black	American Indian	Asian/Pacific	Hispanic	Other	No Response		
Private Doctorate	56 86.2% 34.6%	0 0.0% 0.0%	0 0.0% ***.0%	6 9.2% 20.0%	1 1.5% 33.3%	2 3.1% 100.0%	0 0.0% 0.0%	65	-Count 100.0% 32.2%
Private Masters	1 33.3% 0.6%	0 0.0% 0.0%	0 0.0% ***.0%	2 66.7% 6.7%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	3	-Count 100.0% 1.5%
Private Bachelors	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% ***.0%	1 100.0% 3.3%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	1	-Count 100.0% 0.5%
Private Associate	0 ***.0% 0.0%	0 ***.0% 0.0%	0 ***.0% ***.0%	0 ***.0% 0.0%	0 ***.0% 0.0%	0 ***.0% 0.0%	0 ***.0% 0.0%	0	-Count ***.0% 0.0%
Public Doctorate	62 80.5% 38.3%	1 1.3% 33.3%	0 0.0% ***.0%	14 18.2% 46.7%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	77	-Count 100.0% 38.1%
Public Masters	1 100.0% 0.6%	0 0.0% 0.0%	0 0.0% ***.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	1	-Count 100.0% 0.5%
Public Bachelors	0 ***.0% 0.0%	0 ***.0% 0.0%	0 ***.0% ***.0%	0 ***.0% 0.0%	0 ***.0% 0.0%	0 ***.0% 0.0%	0 ***.0% 0.0%	0	-Count ***.0% 0.0%
Public Associate	0 ***.0% 0.0%	0 ***.0% 0.0%	0 ***.0% ***.0%	0 ***.0% 0.0%	0 ***.0% 0.0%	0 ***.0% 0.0%	0 ***.0% 0.0%	0	-Count ***.0% 0.0%
High School or Other	0 ***.0% 0.0%	0 ***.0% 0.0%	0 ***.0% ***.0%	0 ***.0% 0.0%	0 ***.0% 0.0%	0 ***.0% 0.0%	0 ***.0% 0.0%	0	-Count ***.0% 0.0%
No Response	42 76.4% 25.9%	2 3.6% 66.7%	0 0.0% ***.0%	7 12.7% 23.3%	2 3.6% 66.7%	0 0.0% 0.0%	2 3.6% 100.0%	55	-Count 100.0% 27.2%
TOTAL	162 80.2% 100.0%	3 1.5% 100.0%	0 0.0% ***.0%	30 14.9% 100.0%	3 1.5% 100.0%	2 1.0% 100.0%	2 1.0% 100.0%	202	-Count 100.0% 100.0%





American Chemical Society

OFFICE OF THE
EXECUTIVE DIRECTOR

1155 SIXTEENTH STREET, N.W.
WASHINGTON, D.C. 20036
Phone (202) 872-4455

Raymond P. Mariella, *Executive Director*

February 25, 1981

Dear Member:

The American Chemical Society annually reports on the economic status of the chemical profession as reflected in a sample survey of its U.S. membership. You are one of about 21,000 randomly selected members being asked to participate in this survey, which is conducted under the aegis of the Council Committee on Economic Status.

Because a high response rate is needed to assure accurate results, your participation will be an important service to your colleagues. Please take a few minutes now, while the survey form is before you, to fill out the questionnaire and return it promptly in the enclosed business reply envelope. The procedure is confidential, and the information you provide will be combined with returns from other members so that only aggregated data will be available. A summary of the findings will appear in CHEMICAL AND ENGINEERING NEWS later this spring.

Please feel free to use the back of the questionnaire for whatever comments or suggestions you might care to make.

Thank you for your assistance.

Sincerely yours,

Raymond P. Mariella
Raymond P. Mariella

AMERICAN CHEMICAL SOCIETY

1981 COMPREHENSIVE SALARY AND EMPLOYMENT STATUS SURVEY

- A. For EACH degree you have earned, please indicate the FIELD and LEVEL of the degree by writing the YEAR you received it in the appropriate row and column below.

FIELD	LEVEL		
	Bachelors	Masters	Doctorate
Chemistry	19 ___	19 ___	19 ___
Biochemistry	19 ___	19 ___	19 ___
Chemical Engineering	19 ___	19 ___	19 ___
Business	19 ___	19 ___	19 ___
Other	19 ___	19 ___	19 ___

- B. Employment status (Please check the one response that most aptly describes your status on March 1, 1981.):

Employment status:

- Postdoctoral or other fellowship 1[]
- Employed full-time 2[]
- Not employed
and seeking employment 3[]
- and not seeking employment 4[]
- Employed part-time 5[]
- Principal ANNUAL SALARY on March 1, 1981.
(Do not include payments for second job,
overtime work, summer teaching, or other
supplemental employment.)
- \$ _____ per year

- C. If you were unemployed on March 1, how long had you been unemployed? _____ months

- D. Check the one specialty most closely related to your present (or most recent) principal employment:

- | | |
|---------------------------------------|---------------------------------------------------------------|
| Chemical engineering 1[] | Pharmaceutical/medicinal/
clinical chemistry 7[] |
| Biochemistry 2[] | Physical chemistry 8[] |
| Agricultural/food chemistry . . . 3[] | Theoretical chemistry 9[] |
| Analytical chemistry 4[] | Polymer/macromolecular chemistry . . 10[] |
| Environmental chemistry 5[] | Other chemical specialty 11[] |
| Organic chemistry 6[] | Non-chemical specialty 12[] |

- E. Citizenship or visa status:

- U. S. citizen 1[]
- U. S. permanent resident visa . . 2[]
- Other 3[]

- F. Racial or ethnic group:

- White 1[]
- Black (not of Hispanic origin) . . . 2[]
- American Indian or Alaskan Native . . 3[]
- Asian or Pacific Islander (Chinese, Japanese,
Korean, Filipino, Subcontinental Indian) 4[]
- Hispanic (Mexican, Puerto Rican, Cuban, Spanish) 5[]
- None of the above 6[]

- G. Sex: Male 1[] Female 2[]

- H. Age at last birthday before March 1, 1981: _____

- I. State of residence: _____

- J. Please indicate your ACS local section:

- | | | |
|-----------------------------------|----------------------------|-----------------------------------|
| Southern California 1[] | New York 5[] | Pittsburgh 9[] |
| California 2[] | North Jersey 6[] | Southeastern Texas 10[] |
| Chicago 3[] | Northeastern 7[] | Washington (DC) 11[] |
| Delaware 4[] | Philadelphia 8[] | None of the above 12[] |

If your current (or most recent) principal employment is for an academic institution, please skip to Question N.

K. Current (or most recent) principal employer:

Private Industry	
Manufacturing	
Chemicals	1[]
Coatings	2[]
Food	3[]
Metals, minerals	4[]
Paper	5[]
Petroleum	6[]
Pharmaceuticals, personal care	7[]
Rubber	8[]
Other manufactures	9[]
Non-manufacturing	10[]
Government	
Federal (including military)	11[]
State or local	12[]
Hospital, independent laboratory	13[]
Other non-profit organization	
Other research institution	14[]
Self-employed	15[]
Other employment	16[]

L. Work function (Please check only one):

Research and Development	
Management or administration of R&D	1[]
Basic research	2[]
Applied research, Development, Design	3[]
General management, administration (other than research and development)	4[]
Marketing, Sales, Purchasing, Technical Service, Economic evaluation	5[]
Production, Quality control	6[]
Forensic analysis, Other laboratory analysis	7[]
Writing, Editing, Abstracting, Library services	8[]
Data processing	9[]
Consulting	10[]
Other	11[]

M. Number of subordinates reporting to you directly or through others (if none, please write "0"):

Professionals _____ Technicians _____ Other _____

STOP. Please return this form in the envelope provided.

N. Current or most recent principal employer:

Private college or university where the highest degree offered in chemical science is:	
Doctorate	1[]
Masters	2[]
Bachelors	3[]
Associate	4[]

Public college or university where the highest degree offered in chemical science is:	
Doctorate	5[]
Masters	6[]
Bachelors	7[]
Associate	8[]
High school or other school	9[]

O. Rank:

Professor	1[]
Associate professor	2[]
Assistant professor	3[]
Instructor or lecturer	4[]
Non-faculty research associate	5[]
Unranked faculty member	6[]

P. Have you been granted tenure?

Yes	1[]	
No	2[]	→ Do you hold a tenure-track position?
		Yes 1[]
		No 2[]

Q. My basic annual salary covers service for: 9-10 months . . . 1[]
 11-12 months . . . 2[]

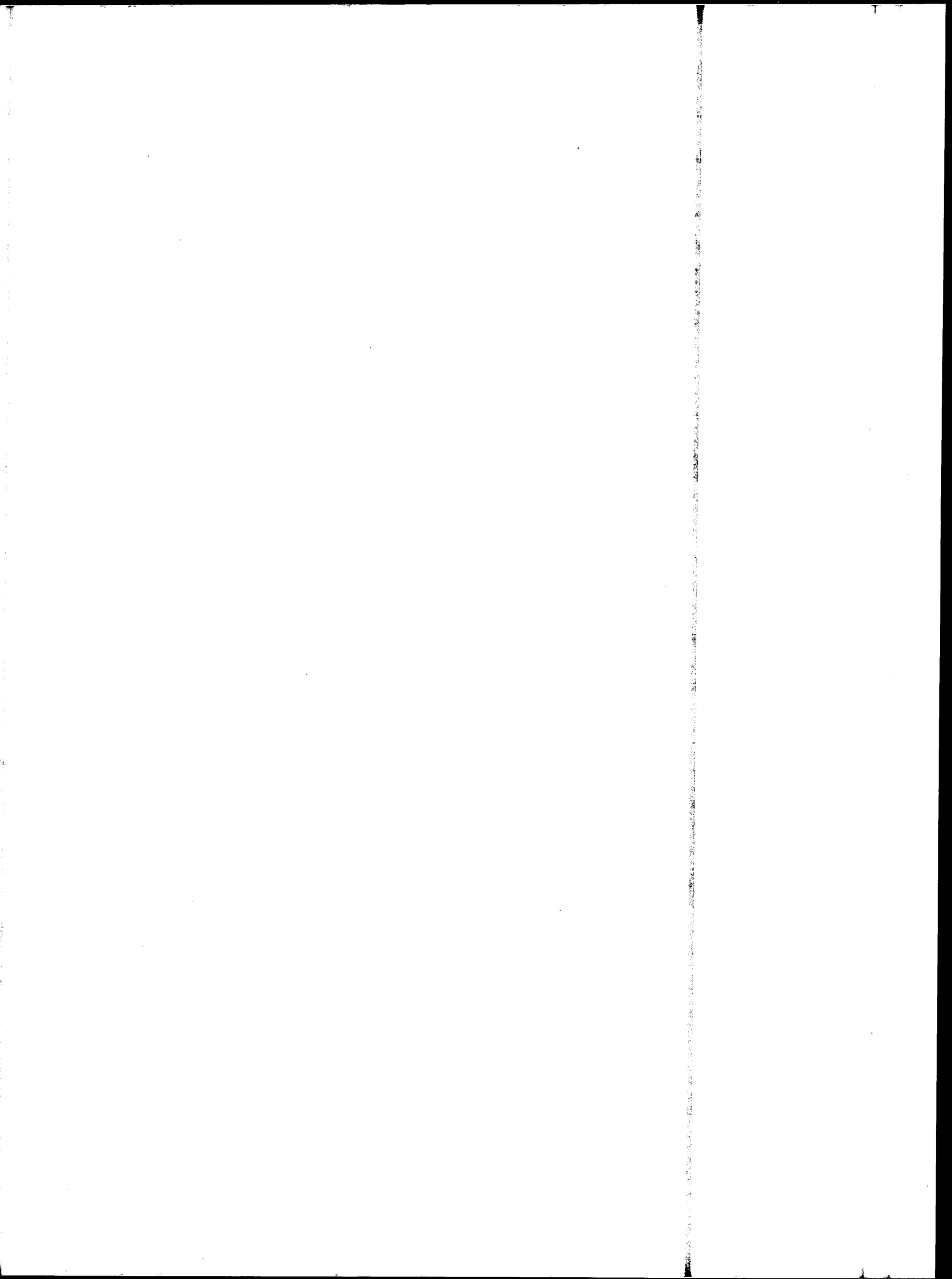
R. What percent of this basic annual salary
comes from

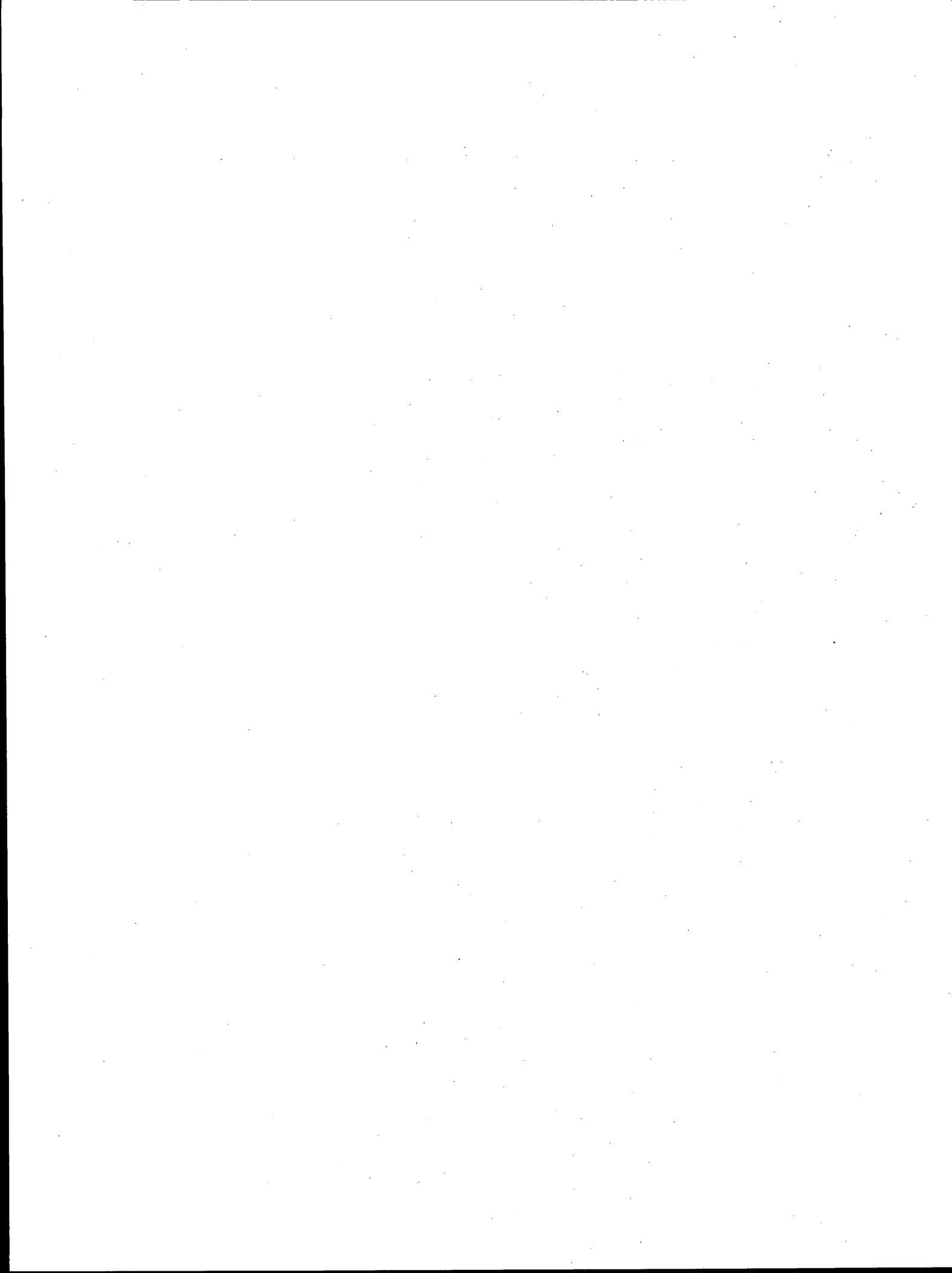
Institutional funds	_____ %
Individual grants and contracts	_____ %
Total = 100 %	

S. What percent of the work you perform for your
principal employer is devoted to:

Teaching	_____ %
Research	_____ %
Service	_____ %
Total = 100 %	

Please return within 10 days to the American Chemical Society
Room 202, 1155 Sixteenth Street, N.W., Washington, D.C. 20036
Thank you.







ACS OFFICE OF MANPOWER STUDIES PUBLICATIONS

Salaries: The Office of Manpower Studies annually surveys the ACS membership, gathering detailed information on member chemists and chemical engineers. The reports based on this survey contain statistical tables describing the respondent's employment status, employers, work function and specialty, salaries, and geographic and other demographic characteristics.

Reports are available for each year from 1973 through 1981.

Starting Salaries: The Office of Manpower Studies also surveys new graduates in chemistry and chemical engineering each year, and publishes reports detailing the graduates' employment status, post-graduation plans, starting salaries, and other employment and demographic characteristics.

Reports are available for each year from 1975 through 1980.

Professionals in Chemistry: The Professionals in Chemistry series compiles information concerning chemists and chemical engineers from ACS, government, and private industry sources. It details information on demography, employment, salaries, education, and supply and demand, for the entire chemical profession.

Reports for each year from 1975 through 1978, and a combined report for 1979-1980, are available.

Special Reports:

1975 Report of Chemists' Salaries and Employment Status Supplement: Economic Status of Women in the ACS.

Women Chemists 1980: A supplemental report on the ACS's 1980 Survey of Salaries and Employment.

Computers in Chemical Research: A Survey of the Use of Computers by Chemists at U.S. Universities.(1980)

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