

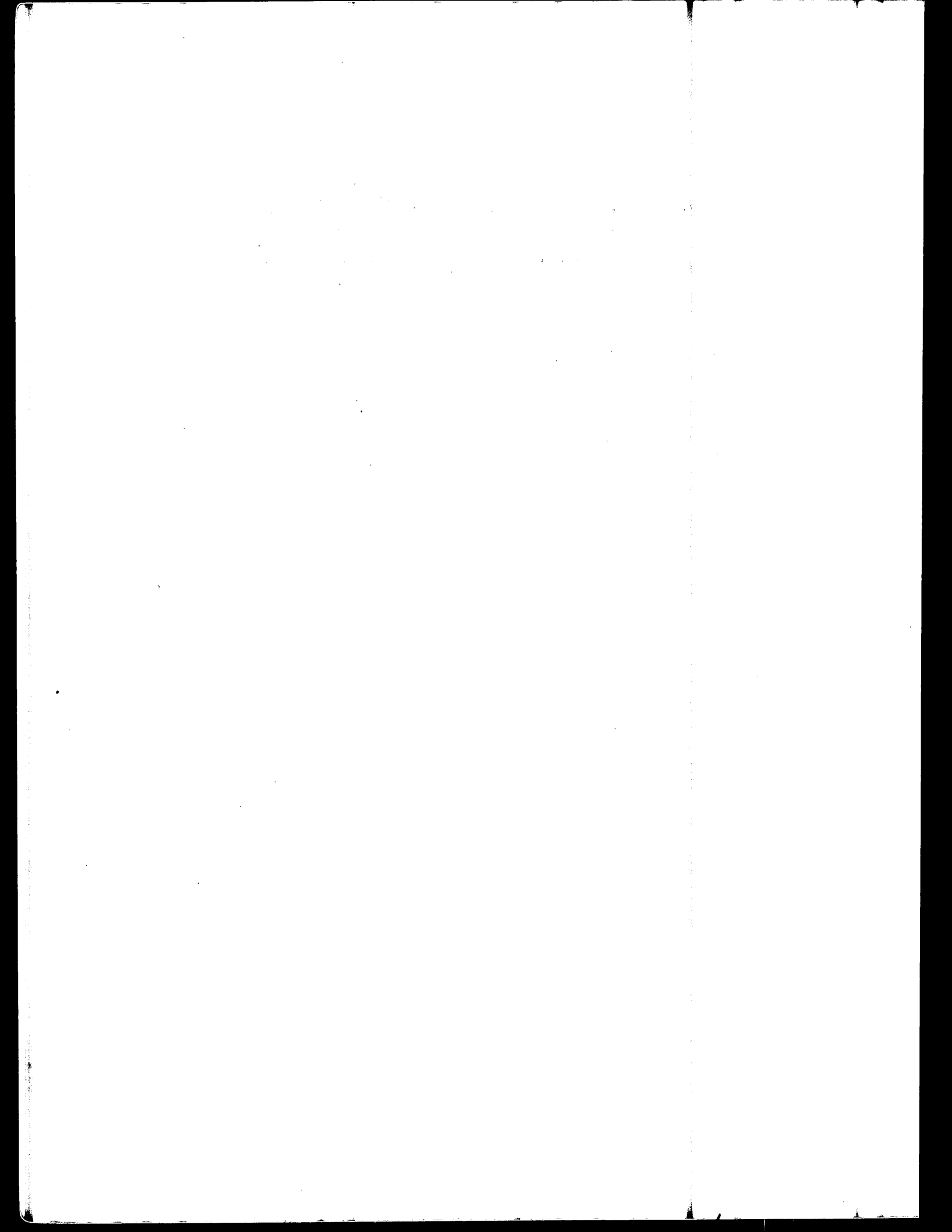
# SALARIES

# 1982

Analysis of the  
American Chemical Society's  
1982 Survey of Salaries and Employment



Manpower Studies  
American Chemical Society  
Washington, D.C.



SALARIES 1982

ANALYSIS OF THE AMERICAN CHEMICAL SOCIETY'S  
1982 SURVEY OF SALARIES AND EMPLOYMENT

This report was prepared by the  
ACS Office of Manpower Studies

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## INTRODUCTION AND ACKNOWLEDGMENT

This report presents detailed results of the 1982 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 1982 findings was published in the July 5, 1982 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 12,000 ACS members who completed and returned survey questionnaires. Dr. Gerhard Meisels is 1982 Chairman of the Committee.

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

## SUMMARY OF FINDINGS

### Employment Status

Unemployment among ACS members is now worse than at any time since the recession year of 1976. After holding steady at about 1% from 1979 through 1981, this year the unemployment rate for ACS members rose to 1.7%.

Women members were generally twice as likely to be unemployed as men. There was no indication from the data that any other classification, such as age, most recent employer, or specialty, had significant effect on the unemployment rate.

### Salaries

As of March 1, 1982 median salaries for ACS member chemists working in private industry were:

\$29,000 for the BS, up 3.6% from 1981, down 3.0% in constant dollars,  
\$33,000 for the MS, up 3.9% from 1981, down 2.7% in constant dollars,  
\$42,000 for the PhD, up 7.7% from 1981, up 0.9% in constant dollars.

(Prices as measured by the official Consumer Price Index for Urban Workers increased 6.8% between March, 1981 and March, 1982.)

Salaries of women ACS members were lower than those of ACS men, even after adjustments were made for differences in experience (years since BS).

### Comparison with Battelle Survey

Can we trust these data? To get an indication of how much to rely on this survey, the ACS Office of Manpower Studies compared these results with those of a survey conducted by Battelle Columbus Laboratories.

The Battelle study collects salary data from companies that employ chemists, whereas the ACS collects salary data from individual employees. Because the two surveys classify their results differently, salaries that Battelle reports generally do not have exact counterparts in the ACS report. The OMS, however, was able to generate a table for one group of ACS members that does have a close counterpart in the Battelle report: non-supervisory R&D chemists who do not hold advanced degrees. The

chart at the right shows the comparison. The lowest and highest of the three curves represent results of the ACS surveys conducted in March of 1981 and 1982. The middle curve represents the results of the Battelle survey conducted in August of 1981. Thus, the only available comparison indicates that the two surveys are consistent.

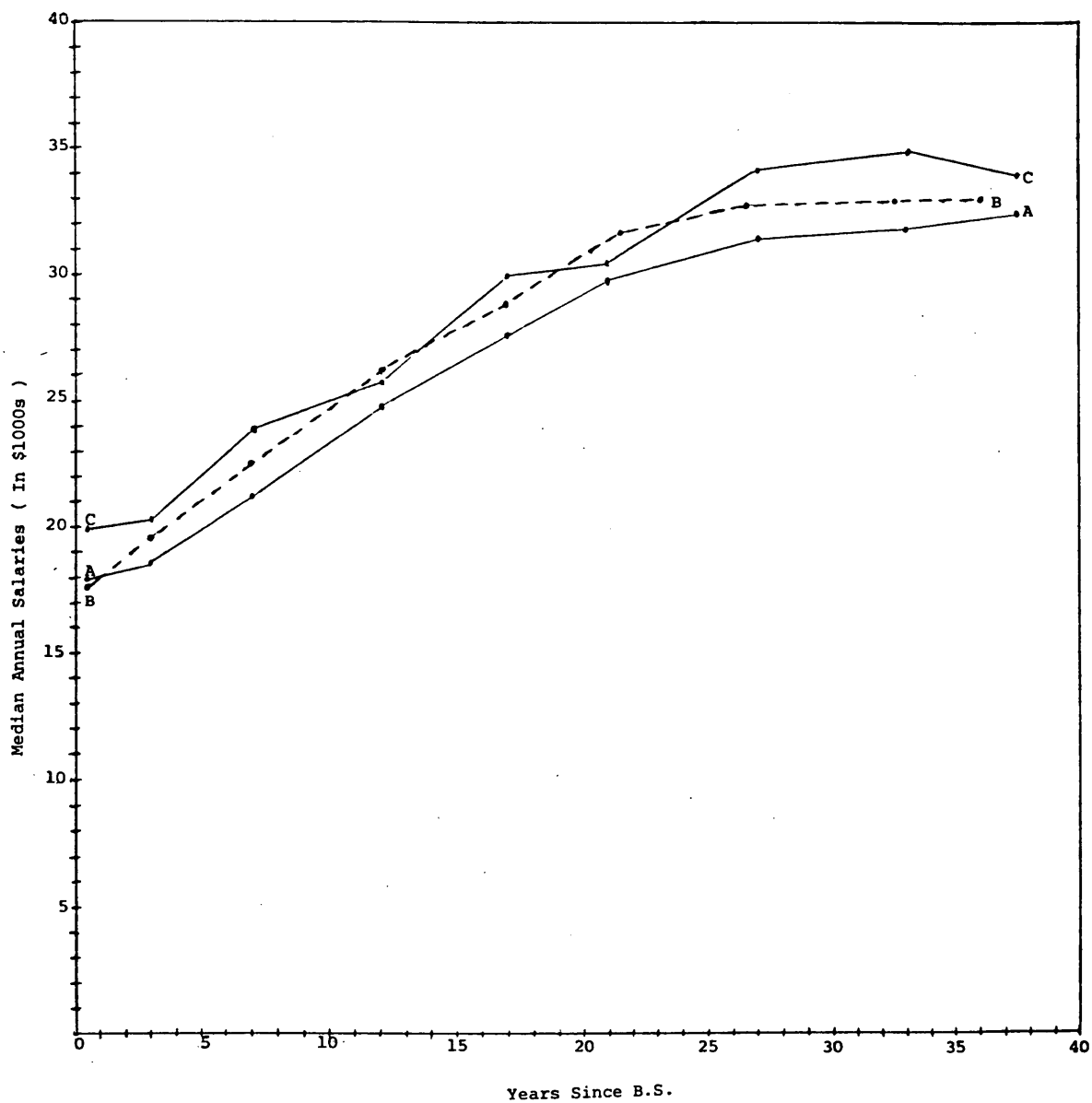
#### Special Research Questions on the 1982 Survey Questionnaire

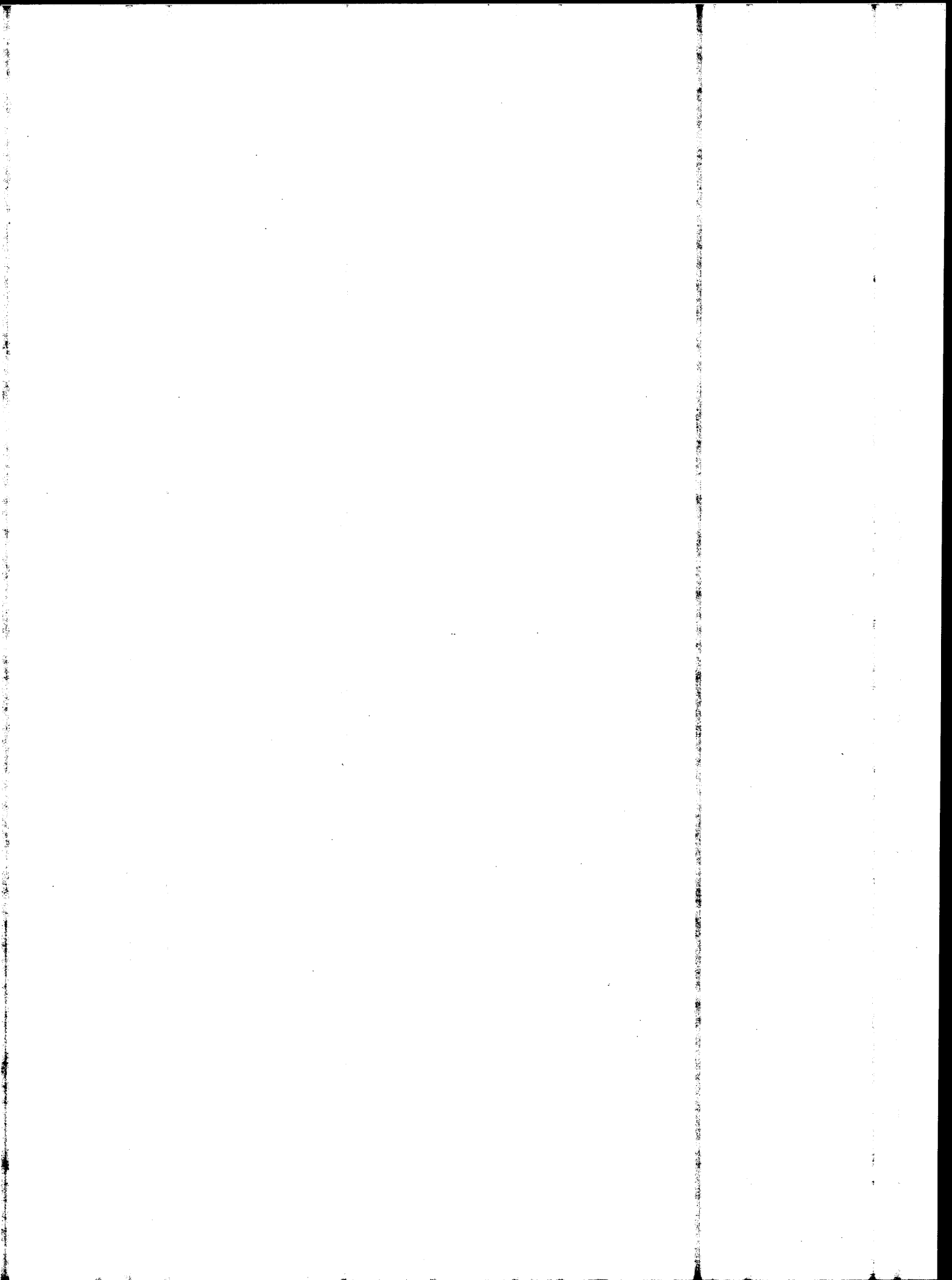
Later reports from the Office of Manpower Studies will present results of further research into the data from this survey. One of these reports will investigate chemical specialties and will emphasize analytical chemistry.

Also in 1982 the ACS Education Division will issue its report examining responses to the special questions about continuing education.

Median Annual Salaries of BS, Non-Supervisory, R&D Chemists:

- (A) ACS, March 1981
- (B) Battelle, August 1981
- (C) ACS, March 1982





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## TECHNICAL NOTES

The target population of the 1982 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, 1982 the ACS membership totalled 118,204, of which approximately 89,000 were eligible for inclusion in the sample. A systematic sample of 22,000 was selected from the target population.

The survey questionnaires were mailed to this sample of 22,000 members by bulk mail during the week of February 15-19. By the April 30 cut-off date, 12,040 (54.7%) 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 Sandy Schowgurow.

### 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 E on the questionnaire).

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

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

This report presents the respondents' principal annual salaries as of March 1, 1982. The respondent's age is given as of March 1, 1982. A respondent's state and geographic region refer to place of residence, rather than place of employment.

### 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

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

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

where  $P_{(\text{lower})}$  = lower boundary of the interval  
 $P_{(\text{upper})}$  = upper boundary of the interval  
 $\hat{p}$  = 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 as 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 characteristic, 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

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

$$= 0.05 - 2[0.05((0.95)/1900)]^{1/2}$$

$$= 0.05 - 0.01$$

$$= 0.04$$

$$\text{and similarly, } P_{(\text{upper})} = 0.05 + 0.01$$

$$= 0.06$$

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 can 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.

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

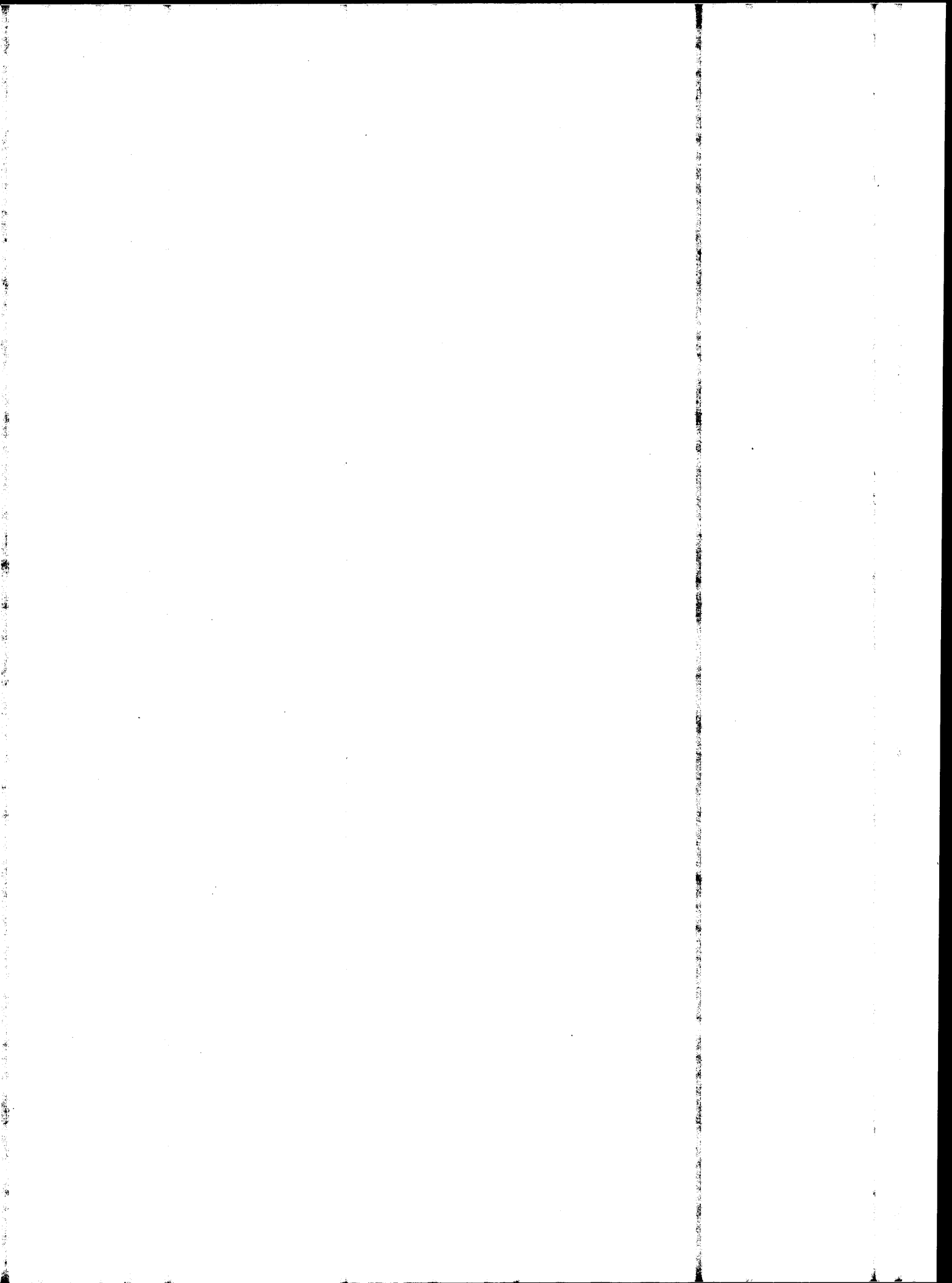


TABLE-1.1.0

SALARIES of FULL-TIME EMPLOYED CHEMISTS  
by HIGHEST DEGREE and YEARS SINCE B.S.  
1982 Survey of ACS Members

HIGHEST DEGREE	YEARS SINCE BS											TOTAL	- 90th %-ile	- 75th %-ile	- Median	- 25th %-ile	- 10th %-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											
Bachelors	25,020	25,900	32,000	39,000	45,540	50,000	52,000	56,200	71,500	60,000	---	---	---	48,000	37,000	28,500	22,111	18,500	31,254	12,674	2,117	
	22,000	23,520	28,300	33,000	39,000	41,000	43,000	47,600	53,410	50,000	---	---	---	37,000	28,500	20,850	18,000	15,320	20,233	5,729	67	
	20,000	20,850	25,000	28,000	33,699	39,000	36,700	38,000	42,000	34,000	---	---	---	28,500	20,850	18,000	15,320	20,233	5,729	4,302	378	
	18,000	18,000	21,000	24,000	27,625	29,600	30,000	32,000	33,000	34,000	---	---	---	30,000	24,000	20,060	18,000	15,320	20,233	4,302	378	
	15,320	15,500	18,000	20,060	24,320	24,000	25,839	25,000	24,400	30,000	---	---	---	30,000	24,000	20,060	18,000	15,320	20,233	4,302	378	
	20,233	20,927	25,114	29,312	33,818	35,842	38,851	40,133	45,110	43,393	---	---	---	31,254	22,688	18,500	15,320	20,233	5,729	4,302	378	
	5,729	4,302	5,747	8,994	9,154	10,440	12,408	13,385	17,983	13,424	724	---	---	12,674	22,688	18,500	15,320	20,233	5,729	4,302	378	
	67	378	403	265	180	183	147	287	113	92	2	---	---	2,117	22,688	18,500	15,320	20,233	5,729	4,302	378	
Masters	---	28,320	32,360	40,536	46,300	51,610	53,500	61,600	53,800	72,480	48,000	---	---	49,224	40,000	26,000	20,000	22,955	11,857	5,004	37	
	---	26,000	29,080	34,450	39,462	42,000	46,000	47,000	45,293	54,500	38,400	---	---	40,000	31,000	24,000	20,000	22,955	11,857	5,004	37	
	---	24,000	25,000	29,200	32,600	35,000	39,830	39,000	36,000	42,000	31,000	---	---	31,000	24,000	20,000	18,000	22,955	11,857	5,004	37	
	---	20,000	21,000	25,000	28,000	28,000	32,000	31,150	27,750	32,600	24,500	---	---	25,000	20,970	18,000	15,320	20,233	5,729	4,302	378	
	---	18,000	17,500	20,760	22,000	23,580	24,176	25,000	21,100	27,800	20,970	---	---	20,970	15,320	12,674	10,262	12,020	5,004	37	37	
	---	22,955	25,114	29,940	34,507	35,860	39,498	40,550	37,132	44,628	32,367	---	---	33,702	25,114	20,760	18,000	15,320	20,233	5,729	4,302	378
	---	5,004	5,687	7,866	11,595	11,857	11,783	13,417	12,634	15,115	10,262	---	---	12,020	11,857	11,857	11,783	11,857	11,857	11,857	11,857	11,857
	0	37	233	248	156	152	134	207	81	57	163	---	---	1,468	11,857	11,857	11,783	11,857	11,857	11,857	11,857	11,857
Doctorate	---	---	37,510	44,000	50,000	56,000	62,500	65,000	67,945	73,000	56,000	---	---	57,500	47,200	31,000	20,000	20,367	9,220	6,664	3	
	---	60,000	34,437	38,709	42,829	48,000	52,000	56,000	54,000	57,750	47,000	---	---	47,200	37,530	20,000	15,320	15,320	9,220	6,664	3	
	---	31,000	31,650	33,593	35,700	40,000	42,150	46,500	44,770	46,500	36,000	---	---	37,530	30,000	20,000	15,320	15,320	9,220	6,664	3	
	---	20,000	28,000	28,000	28,000	30,000	34,000	36,000	36,000	38,000	30,000	---	---	30,000	24,000	20,000	15,320	15,320	9,220	6,664	3	
	---	---	20,000	21,000	22,000	25,200	27,000	28,500	29,000	30,500	25,000	---	---	24,000	20,000	15,320	15,320	15,320	9,220	6,664	3	
	---	37,000	30,367	33,353	36,005	40,647	43,779	46,920	46,439	49,542	39,185	---	---	39,750	30,000	20,000	15,320	15,320	9,220	6,664	3	
	---	20,664	6,381	9,220	10,820	13,254	14,144	15,158	14,911	16,535	13,192	---	---	13,786	10,262	7,866	5,687	5,004	5,687	6,381	3	
	0	3	358	700	861	752	522	543	280	289	510	---	---	4,798	3,558	2,000	1,532	1,532	922	664	3	
No Response	---	---	---	---	---	---	---	---	---	---	---	---	---	56,490	44,300	34,050	27,075	22,000	36,768	13,612	80	
	---	---	---	---	---	---	---	---	---	---	---	---	---	44,300	34,050	27,075	22,000	13,612	36,768	13,612	80	
	---	---	---	---	---	---	---	---	---	---	---	---	---	56,490	44,300	34,050	27,075	22,000	36,768	13,612	80	
	---	---	---	---	---	---	---	---	---	---	---	---	---	44,300	34,050	27,075	22,000	13,612	36,768	13,612	80	
	---	---	---	---	---	---	---	---	---	---	---	---	---	56,490	44,300	34,050	27,075	22,000	36,768	13,612	80	
	0	0	0	0	0	0	0	0	0	0	0	---	---	80	55,000	44,000	34,000	21,000	15,320	9,220	67	
TOTAL	25,020	26,026	35,000	42,300	49,000	55,000	60,000	63,000	65,000	70,060	55,000	---	---	54,560	44,000	34,000	26,800	21,000	36,547	13,744	8,463	
	22,000	24,000	31,925	37,000	41,723	46,000	50,000	52,000	52,000	56,000	45,000	---	---	44,000	34,000	26,800	21,000	36,547	13,744	8,463	8,463	
	20,000	21,000	27,000	31,000	35,000	42,000	42,000	42,000	42,547	44,925	35,000	---	---	34,700	28,500	20,000	15,320	15,320	9,220	6,664	3	
	18,000	18,500	22,000	25,200	28,000	30,000	33,000	33,100	34,000	36,000	28,565	---	---	26,800	21,000	15,320	15,320	15,320	9,220	6,664	3	
	15,320	15,500	18,400	20,940	22,000	25,000	26,000	26,580	26,000	30,000	22,280	---	---	21,000	15,320	12,674	10,262	12,020	5,004	378	378	
	20,233	21,222	27,006	31,773	35,481	39,141	42,163	44,770	44,532	47,611	37,413	---	---	36,547	28,500	20,060	18,000	15,320	20,233	5,729	67	
	3,729	4,804	6,475	9,095	10,718	12,804	13,635	14,710	15,695	15,949	12,953	---	---	13,744	10,262	7,866	5,687	5,004	5,687	6,381	3	
	67	418	994	1,213	1,197	1,067	803	1,037	474	438	755	---	---	8,463	6,664	3,558	2,000	1,532	1,532	922	664	

TABLE-1.1.1

SALARIES of FULL-TIME EMPLOYED CHEMISTS  
by HIGHEST DEGREE and YEARS SINCE BS - Men Only  
1982 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	22,900	24,000	29,000	34,000	39,000	41,570	45,250	48,000	55,000	50,000	---	39,000	- 75th \$-ile
	20,000	21,325	25,100	28,530	33,000	36,000	37,000	39,000	43,000	40,000	22,688	30,000	- Median
	18,000	16,798	21,500	21,716	24,563	26,522	28,700	28,173	34,839	34,000	---	20,906	- 25th \$-ile
	20,282	21,325	25,560	29,900	33,766	36,400	40,007	40,910	46,515	42,696	22,688	32,730	- Mean
	4,098	4,620	5,692	9,382	9,684	9,756	12,480	13,233	17,920	13,070	724	12,958	- Std Dev
	35	240	307	228	149	158	130	265	99	83	2	1,696	- Count
Masters	---	26,400	29,280	35,000	40,000	43,000	46,641	49,000	48,000	54,250	40,000	41,334	
	---	24,500	25,600	30,000	33,000	36,000	40,000	40,000	38,000	42,000	32,000	33,000	
	---	20,200	19,400	23,261	26,185	29,500	29,281	33,000	26,556	31,994	23,650	21,898	
	---	24,204	25,475	30,653	35,851	37,723	40,512	42,137	39,552	44,955	33,641	35,263	
	---	3,885	5,503	8,004	11,555	11,851	11,620	12,888	12,480	14,920	10,205	12,134	
	0	25	165	206	133	123	117	187	65	54	134	1,209	
Doctorate	---	60,000	34,500	39,000	43,200	48,600	52,000	56,000	55,000	57,500	48,000	48,000	
	---	31,000	31,600	33,900	36,480	40,000	43,000	46,633	45,000	47,000	37,000	38,200	
	---	20,000	22,863	24,400	29,000	30,000	34,000	31,080	36,000	38,080	27,742	30,500	
	---	37,000	30,292	33,487	36,768	40,979	44,201	47,366	47,103	49,669	39,969	40,315	
	---	20,664	6,504	9,182	10,775	13,241	14,130	14,899	15,119	16,297	13,342	13,820	
	0	3	305	622	767	683	495	514	255	263	460	4,367	
No Response	---	---	---	---	---	---	---	---	---	---	---	44,875	
	---	---	---	---	---	---	---	---	---	---	---	35,700	
	---	---	---	---	---	---	---	---	---	---	---	25,077	
	---	---	---	---	---	---	---	---	---	---	---	37,416	
	---	---	---	---	---	---	---	---	---	---	---	13,473	
	0	0	0	0	0	0	0	0	0	0	66	66	
TOTAL	22,900	24,225	32,000	37,748	42,000	46,405	50,000	53,000	53,000	55,750	46,000	45,000	
	20,000	21,650	27,500	31,586	35,100	38,990	41,000	42,500	44,000	44,925	36,000	35,500	
	18,000	17,291	19,000	22,450	24,210	25,641	29,505	29,564	35,000	32,063	26,061	23,734	
	20,282	21,769	27,399	32,160	36,226	39,813	42,853	44,583	45,793	47,986	38,382	37,704	
	4,098	5,196	6,416	9,144	10,771	12,685	13,602	14,385	15,661	15,743	13,022	13,750	
	35	268	777	1,056	1,049	964	742	966	419	400	662	7,338	





TABLE-1.2.1

SALARIES of B.S. CHEMISTS EMPLOYED FULL-TIME in PRIVATE INDUSTRY  
by SEX and YEARS SINCE BS  
1982 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	22,950	24,000	29,000	35,000	40,000	43,000	47,000	49,000	55,125	48,000	---	---	40,000	30,600	24,554	33,538	13,113	1,361
	21,000	22,000	26,000	30,000	34,560	36,850	37,500	40,000	45,400	40,000	---	---	40,000	34,000	22,688	---	---	---
	18,000	19,200	22,850	25,000	28,800	30,250	32,500	33,000	36,000	34,000	---	---	34,000	34,000	---	---	---	---
	21,142	21,954	26,034	30,745	34,993	38,059	40,863	41,925	48,084	42,155	---	---	42,155	42,155	---	---	---	---
	3,735	4,373	5,221	9,046	9,795	9,720	12,972	13,669	17,425	13,086	---	---	13,086	13,086	---	---	---	---
	29	199	248	181	115	116	103	219	82	67	2	2	67	67	---	---	---	---
Women	22,000	23,126	27,375	28,000	39,700	35,500	40,000	50,750	62,400	45,000	---	---	45,000	37,236	20,000	24,581	7,665	294
	20,500	20,460	25,000	25,000	35,086	32,660	32,000	29,500	41,600	37,236	---	---	37,236	37,236	---	---	---	---
	18,700	18,800	21,000	22,750	28,250	21,000	25,500	21,289	31,250	29,500	---	---	29,500	29,500	---	---	---	---
	20,603	20,820	24,323	25,607	34,277	29,787	32,713	33,942	45,780	37,245	---	---	37,245	37,245	---	---	---	---
	3,230	3,437	4,778	4,410	6,483	9,467	7,386	15,419	19,241	7,750	---	---	7,750	7,750	---	---	---	---
	27	113	72	27	18	14	7	8	5	3	0	0	3	3	---	---	---	---
No Response	---	---	---	---	---	---	---	44,500	---	68,500	---	---	68,500	58,000	---	---	---	---
	---	---	20,000	31,825	40,000	35,500	24,500	40,000	42,000	58,000	---	---	42,000	37,000	---	---	---	---
	---	---	---	---	---	---	---	27,750	---	37,000	---	---	37,000	37,000	---	---	---	---
	---	---	20,000	31,825	40,000	35,500	24,500	36,900	42,000	54,500	---	---	42,000	42,000	---	---	---	---
	---	---	---	460	---	27,577	---	9,620	---	16,763	---	---	16,763	16,763	---	---	---	---
	0	0	1	2	1	2	1	5	1	4	0	0	4	4	---	---	---	---
TOTAL	22,675	24,000	28,800	34,000	40,000	42,620	46,000	48,875	55,000	48,075	---	---	55,000	40,000	22,688	38,000	12,827	1,672
	20,750	21,500	25,450	29,000	34,856	36,000	37,000	40,000	44,500	40,000	---	---	44,500	40,000	---	---	---	---
	18,300	19,000	22,000	24,825	28,725	30,000	31,000	33,000	36,075	33,950	---	---	36,075	33,950	---	---	---	---
	20,882	21,543	25,631	30,095	34,934	37,143	40,201	41,542	47,884	42,623	---	---	47,884	42,623	---	---	---	---
	3,479	4,089	5,169	8,712	9,373	10,208	12,854	13,690	17,332	13,309	---	---	17,332	13,309	---	---	---	---
	56	312	321	210	134	132	111	252	88	74	2	2	88	74	---	---	---	---

TABLE-1.2.2

SALARIES of M.S. CHEMISTS EMPLOYED FULL-TIME in PRIVATE INDUSTRY  
by SEX and YEARS SINCE BS  
1982 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	---	26,000	30,000	36,000	40,000	43,900	49,750	50,000	48,000	55,000	40,600	42,525	- 75th %-ile
	---	24,250	26,600	30,850	35,000	40,000	42,300	42,000	38,500	43,000	33,000	35,000	- Median
	---	21,200	23,250	26,835	30,525	32,000	38,625	35,690	33,000	38,000	27,950	28,000	- 25th %-ile
	---	24,087	26,827	32,177	37,290	40,218	43,608	44,068	40,782	47,200	35,113	36,886	- Mean
	---	3,924	5,048	7,574	11,678	12,971	10,761	12,499	12,369	14,027	9,999	12,201	- Std Dev
	0	24	126	150	104	72	76	145	45	43	97	882	- Count
Women	---	25,750	30,000	32,238	38,232	36,750	40,075	38,875	36,730	---	34,000	34,000	
	---	24,288	24,800	27,640	30,500	32,000	37,462	30,500	28,936	47,600	27,200	27,350	
	---	20,600	21,960	25,800	28,875	26,410	32,650	20,000	22,843	---	22,500	23,000	
	---	23,455	25,555	28,166	31,071	31,848	36,004	30,083	29,503	47,600	28,900	28,347	
	---	2,718	5,429	5,382	8,171	8,436	5,340	9,563	7,618	20,365	8,089	7,474	
	0	8	51	26	10	14	6	6	4	2	19	146	
No Response	---	---	---	---	---	---	---	---	---	---	---	35,050	
	---	---	32,400	23,500	---	25,000	34,000	38,200	---	---	16,000	28,700	
	---	---	---	---	---	---	---	---	---	---	---	21,625	
	---	---	32,400	23,500	---	25,000	34,000	38,200	---	---	16,000	28,183	
	---	---	---	---	---	---	---	---	---	---	---	8,154	
	0	0	1	1	0	1	1	1	0	0	1	6	
TOTAL	---	26,000	30,000	36,000	40,000	43,000	49,000	49,380	46,793	55,000	40,000	41,072	
	---	24,250	26,200	30,000	34,500	36,000	41,808	41,000	37,440	43,000	32,000	33,000	
	---	21,200	23,000	26,500	30,000	30,046	37,810	35,125	32,000	37,825	26,000	27,150	
	---	23,929	26,493	31,539	36,745	38,696	42,943	43,478	39,861	47,218	33,941	35,630	
	---	3,629	5,182	7,421	11,521	12,705	10,610	12,636	12,394	14,044	10,049	12,012	
	0	32	178	177	114	87	83	152	49	45	117	1,034	

TABLE-1.2.3

SALARIES of Ph.D. CHEMISTS EMPLOYED FULL-TIME in PRIVATE INDUSTRY  
by SEX and YEARS SINCE BS  
1982 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	---	60,000	35,000	41,400	47,475	55,000	60,000	62,000	60,000	65,000	52,000	52,000	42,840	35,400	45,335	13,347	2,229	
	---	31,000	33,000	36,696	41,500	46,850	50,000	52,500	50,000	54,288	41,000	41,000	34,860	44,489	13,115	265	39,000	
	---	20,000	30,625	33,000	36,850	41,000	42,000	44,000	43,000	45,000	34,860	34,860	30,934	36,680	9,714	136	34,435	
	---	37,000	33,096	37,677	42,457	49,212	52,125	53,523	52,876	56,562	44,489	44,489	36,144	48,657	15,190	103	35,400	
	---	20,664	3,635	7,647	9,154	12,508	13,384	13,899	15,190	15,825	13,115	13,115	9,714	15,059	2,229	265	42,840	
	0	3	212	359	396	310	223	249	109	103	265	265	9,714	15,059	2,229	265	42,840	
Women	---	---	35,550	38,800	42,000	52,494	64,250	---	---	44,825	---	---	40,025	39,000	40,025	136	34,435	
	---	---	33,500	33,800	38,000	35,640	43,000	48,000	42,825	98,000	33,100	33,100	31,150	30,934	31,150	136	34,435	
	---	---	30,435	30,500	35,000	29,760	32,213	---	38,726	---	31,150	31,150	36,680	9,714	136	136	34,435	
	---	---	33,025	35,288	38,150	40,510	46,488	48,000	42,125	98,000	36,144	36,144	36,680	9,714	136	136	34,435	
	---	---	3,924	7,180	8,614	13,397	17,153	0	3,287	---	9,714	9,714	9,714	9,714	136	136	34,435	
	0	0	38	43	19	9	4	2	4	1	16	16	16	136	136	136	34,435	
No Response	---	---	---	---	46,500	79,125	---	---	---	60,000	74,275	49,500	54,750	44,500	44,500	28	42,840	
	---	---	---	33,600	42,000	50,500	52,000	---	---	51,000	58,250	36,000	44,500	35,700	35,700	28	42,840	
	---	---	---	---	40,000	40,775	---	---	---	34,600	36,700	35,100	35,700	35,700	35,700	28	42,840	
	---	---	---	33,600	43,000	56,800	52,000	---	---	48,533	56,275	41,040	48,657	48,657	48,657	28	42,840	
	---	---	---	1,980	3,536	21,401	---	---	---	12,878	18,590	8,655	15,059	15,059	15,059	28	42,840	
	0	0	0	2	5	4	1	0	3	8	5	5	5	5	5	28	42,840	
TOTAL	---	60,000	35,010	41,000	47,150	55,000	60,000	62,000	60,000	67,000	51,593	51,593	42,000	35,000	44,882	13,343	2,393	
	---	31,000	33,000	36,300	41,050	46,800	50,000	52,000	50,000	54,644	40,450	40,450	34,500	44,882	13,343	2,393	39,000	
	---	20,000	30,580	32,525	36,613	41,000	42,000	44,000	43,400	44,475	34,150	34,150	30,900	36,680	9,714	136	34,435	
	---	37,000	33,085	37,403	42,269	49,064	53,479	52,393	52,393	56,911	43,961	43,961	44,882	44,882	44,882	2,393	42,840	
	---	20,664	3,673	7,612	9,117	12,715	13,402	13,852	14,971	16,348	12,969	12,969	13,343	13,343	13,343	2,393	42,840	
	0	3	250	404	420	323	228	251	116	112	286	286	286	286	286	2,393	42,840	



TABLE-1.3.2

SALARIES of M.S. CHEMISTS EMPLOYED FULL-TIME in GOVERNMENT  
by SEX and YEARS SINCE BS  
1982 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	---	---	24,088	32,518	41,307	42,833	39,000	46,500	54,000	44,048	41,000	40,440	33,000	33,000	25,088	33,536	9,792	128
	---	---	21,050	28,650	31,500	37,256	36,000	36,700	50,000	27,000	33,350	41,000	33,000	33,350	29,187	35,710	7,840	11
	---	---	18,500	24,250	24,000	33,149	31,000	33,750	41,000	21,644	29,187	35,710	33,350	33,350	31,677	35,710	7,840	11
	---	---	21,968	29,204	32,781	37,808	34,608	39,822	46,629	31,677	35,710	41,000	50,000	50,000	46,629	46,629	9,792	128
	---	---	4,650	6,678	10,078	8,494	6,831	8,417	9,621	12,901	7,840	9,792	12,901	12,901	12,901	12,901	128	128
	0	0	14	28	14	21	15	13	7	5	11	11	11	11	11	11	11	11
Women	---	---	29,000	29,600	35,692	35,781	---	---	38,100	---	---	34,423	25,500	25,500	20,390	26,519	7,416	30
	---	19,250	20,520	28,245	27,200	28,245	22,676	25,000	36,000	21,000	38,000	34,423	25,500	25,500	20,390	26,519	7,416	30
	---	---	17,500	18,200	27,000	24,020	---	---	20,750	---	---	34,423	25,500	25,500	20,390	26,519	7,416	30
	---	19,250	22,704	26,078	29,964	29,349	22,676	25,000	30,740	21,000	38,000	34,423	25,500	25,500	20,390	26,519	7,416	30
	---	1,061	6,860	7,811	4,962	5,958	2,370	---	9,888	---	---	34,423	25,500	25,500	20,390	26,519	7,416	30
	0	2	5	7	3	3	2	1	5	1	1	34,423	25,500	25,500	20,390	26,519	7,416	30
No Response	---	---	---	---	---	---	---	---	---	---	---	31,617	29,300	27,025	29,314	2,394	4	4
	---	---	---	---	---	26,700	---	---	---	---	30,600	31,617	29,300	27,025	29,314	2,394	4	4
	---	---	---	---	---	26,700	---	---	---	---	30,600	31,617	29,300	27,025	29,314	2,394	4	4
	---	---	---	---	---	---	---	2,797	---	---	---	31,617	29,300	27,025	29,314	2,394	4	4
	0	0	0	0	0	1	0	2	0	0	1	31,617	29,300	27,025	29,314	2,394	4	4
TOTAL	---	---	24,000	31,071	41,038	41,400	38,350	43,637	50,205	40,274	40,500	38,125	31,000	31,000	24,352	32,132	9,659	162
	---	19,250	21,000	28,300	30,000	37,000	35,800	35,400	39,750	26,000	33,350	38,125	31,000	31,000	24,352	32,132	9,659	162
	---	---	17,500	23,000	25,176	28,657	25,176	30,969	50,474	20,322	29,894	38,125	31,000	31,000	24,352	32,132	9,659	162
	---	19,250	22,161	28,579	32,284	36,348	33,205	37,665	40,009	29,897	35,493	38,125	31,000	31,000	24,352	32,132	9,659	162
	---	1,061	5,117	6,913	9,318	8,657	7,542	8,933	12,369	12,335	7,334	38,125	31,000	31,000	24,352	32,132	9,659	162
	0	2	19	35	17	25	17	16	12	6	13	38,125	31,000	31,000	24,352	32,132	9,659	162



TABLE-1.4.1

SALARIES of M.S. CHEMISTS EMPLOYED FULL-TIME in COLLEGE/UNIVERSITY  
by SEX and YEARS SINCE BS  
1982 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	---	---	20,250	24,850	30,000	28,000	35,250	31,150	47,000	42,000	29,000	28,000	24,000	20,000	22,500	25,073	7,413	99
	---	27,000	17,600	21,400	23,500	25,975	26,850	26,000	25,000	28,600	22,500	24,000	20,029	19,958	19,567	25,073	7,413	99
	---	---	15,375	17,250	20,397	24,000	24,000	21,800	21,000	28,000	19,958	20,029	19,958	17,514	17,514	25,073	7,413	99
	---	27,000	18,129	21,569	24,754	26,649	28,970	27,300	31,362	32,867	24,574	25,073	25,073	24,574	24,574	25,073	7,413	99
	---	---	3,014	4,490	5,434	4,393	6,445	6,986	11,948	7,915	8,438	7,413	7,413	8,438	8,438	7,413	99	99
	0	1	14	13	8	15	10	11	7	3	17	99	99	17	17	99	99	99
Women	---	---	19,000	---	26,670	29,975	---	26,875	20,800	---	20,000	22,242	19,455	17,528	15,291	19,567	6,336	36
	---	9,050	16,000	18,000	19,000	22,068	---	22,400	20,000	---	20,000	17,528	15,291	15,014	17,514	6,336	36	36
	---	---	13,300	---	17,500	19,410	---	11,625	19,762	---	15,014	17,528	15,291	15,014	17,514	6,336	36	36
	---	9,050	16,365	18,000	21,816	24,350	---	20,300	20,187	---	2,871	6,336	6,336	2,871	2,871	6,336	36	36
	---	5,586	3,403	---	6,970	6,379	---	7,550	544	---	2,871	6,336	6,336	2,871	2,871	6,336	36	36
	0	2	7	1	6	7	0	6	3	0	4	36	36	4	4	36	36	36
No Response	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	21,000	14,500	---	---	---	31,000	---	---	31,000	21,000	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	21,000	14,500	---	---	---	31,000	---	---	31,000	21,000	---	---	---	---	---
	---	0	0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0
TOTAL	---	27,000	19,850	24,700	27,000	29,000	35,250	29,000	34,000	42,000	26,700	27,898	22,000	21,000	22,000	23,574	7,514	138
	---	13,000	17,064	21,000	21,500	25,488	26,850	25,000	25,000	28,600	21,000	22,000	18,989	17,370	18,989	23,574	7,514	138
	---	5,100	15,000	17,500	18,000	22,051	24,000	20,400	20,000	28,000	17,370	18,989	18,989	17,370	18,989	23,574	7,514	138
	---	15,033	17,541	21,120	22,895	25,918	28,970	24,830	28,281	32,867	23,230	23,574	23,574	23,230	23,230	23,574	7,514	138
	---	11,091	3,179	4,247	6,295	5,069	6,445	7,759	10,618	7,915	8,140	7,514	7,514	8,140	8,140	7,514	138	138
	0	3	21	15	15	22	10	17	11	3	21	138	138	21	21	138	138	138



TABLE-1.4.2

SALARIES of Ph.D. CHEMISTS EMPLOYED FULL-TIME in COLLEGE/UNIVERSITY  
by SEX and YEARS SINCE BS  
1982 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	---	---	23,375	28,000	31,734	36,000	40,000	45,000	49,450	51,000	37,000	37,800	30,000	24,200	32,485	11,592	1,462	30,800
Women	---	---	21,000	23,250	28,583	33,418	28,000	33,488	37,925	40,125	27,950	30,800	25,350	21,000	26,316	7,098	140	30,800
No Response	---	---	---	---	29,075	45,000	46,500	54,000	62,000	66,000	---	47,000	35,500	30,000	38,431	12,083	26	47,000
TOTAL	---	---	23,375	28,000	31,000	36,000	40,000	43,500	47,800	50,000	36,000	37,000	30,000	24,000	32,000	11,281	1,462	37,800
	---	---	20,000	22,750	26,444	30,000	34,250	36,000	37,820	42,000	30,000	30,000	25,350	21,000	25,750	4,739	16	30,800
	---	---	18,000	20,000	22,000	26,000	28,400	29,000	29,925	32,100	24,000	24,000	21,000	22,000	25,064	---	---	30,000
	---	---	21,178	24,574	27,629	31,851	35,544	37,725	40,532	43,411	32,041	32,485	24,200	22,000	25,064	---	---	30,000
	---	---	5,670	6,702	7,289	8,613	9,996	11,821	13,694	15,046	11,281	11,592	7,098	4,739	8,120	---	---	30,800
	0	0	64	167	250	274	199	171	96	111	130	1,462	30,800	24,200	32,485	11,592	1,462	30,800
	---	---	21,000	23,250	28,583	33,418	28,000	33,488	37,925	40,125	27,950	30,800	25,350	21,000	26,316	7,098	140	30,800
	---	---	20,000	20,000	25,000	30,000	24,000	26,000	31,000	36,320	24,770	30,800	25,350	21,000	25,750	4,739	16	30,800
	---	---	17,500	18,150	20,900	24,500	17,316	21,000	27,575	25,750	22,000	21,000	21,000	22,000	25,064	---	---	30,000
	---	---	19,951	20,777	25,029	29,821	25,188	26,844	32,164	33,702	25,064	26,316	21,000	22,000	25,064	---	---	30,000
	---	---	2,881	4,577	5,742	6,139	10,773	6,626	7,765	8,120	4,739	7,098	4,739	8,120	---	---	---	30,800
	0	0	7	14	43	21	7	13	10	9	16	140	21,000	22,000	25,064	---	---	30,000
	---	---	---	---	29,075	45,000	46,500	54,000	62,000	66,000	---	47,000	35,500	30,000	38,431	12,083	26	47,000
	---	---	28,000	30,050	24,900	40,000	35,200	50,000	42,511	46,000	50,000	37,000	30,000	24,000	25,064	---	---	30,000
	---	---	---	---	17,800	32,250	33,350	35,000	30,000	32,000	---	30,000	25,350	21,000	25,064	---	---	30,000
	---	---	28,000	30,050	23,925	38,900	38,350	46,333	44,837	48,000	50,000	37,000	30,000	24,000	25,064	---	---	30,000
	---	---	---	71	5,976	7,774	7,863	10,017	16,126	17,088	---	12,083	7,098	4,739	8,120	---	---	30,800
	0	0	1	2	4	5	4	3	3	3	1	26	21,000	22,000	25,064	---	---	30,000
	---	---	23,375	28,000	31,000	36,000	40,000	43,500	47,800	50,000	36,000	37,000	30,000	24,000	32,000	11,281	1,462	37,800
	---	---	20,000	22,500	26,100	30,000	34,000	35,520	36,464	41,000	29,000	30,000	25,350	21,000	25,750	4,739	16	30,800
	---	---	18,000	20,000	22,000	26,025	28,000	28,600	29,950	32,000	24,000	24,000	21,000	22,000	25,064	---	---	30,000
	---	---	21,154	24,344	27,203	31,826	35,253	37,107	39,883	42,812	31,404	32,485	24,200	22,000	25,064	---	---	30,000
	---	---	5,480	6,622	7,121	8,496	10,126	11,862	13,467	14,843	11,041	11,592	7,098	4,739	8,120	---	---	30,800
	0	0	72	183	297	300	210	187	109	123	147	1,462	30,800	24,200	32,485	11,592	1,462	30,800

TABLE-1.5.1

SALARIES of FULL-TIME EMPLOYED B.S. CHEMISTS  
by REGION and YEARS SINCE BS  
1982 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	19,992	23,000	27,250	30,750	36,990	50,500	40,000	50,000	53,500	63,000	---	37,000	- 75th %-ile
	15,484	20,460	24,250	27,750	30,310	37,000	36,350	39,500	44,000	52,576	---	28,276	- Median
	13,149	18,000	21,813	25,000	26,100	30,825	28,150	32,250	29,000	41,250	---	23,000	- 25th %-ile
	16,208	21,347	25,250	28,428	32,473	39,982	35,785	41,215	42,100	51,494	---	31,747	- Mean
	3,633	4,684	5,917	7,628	7,995	12,124	9,162	13,259	13,505	11,594	---	12,310	- Std Dev
	4	35	46	32	20	26	12	32	9	8	0	224	- Count
Mountain	---	24,000	30,000	31,750	48,500	40,000	47,945	44,750	---	---	---	34,000	
	20,000	21,000	25,100	25,290	35,000	37,000	35,291	40,516	25,000	33,520	---	26,000	
	---	17,000	21,150	21,510	30,150	29,187	34,200	28,758	---	---	---	21,600	
	20,000	20,985	25,258	26,834	39,421	34,170	39,145	38,008	25,000	33,520	---	28,359	
	2,828	4,197	5,754	5,625	11,085	6,819	8,601	9,058	---	4,073	---	9,262	
	2	19	24	13	11	7	4	4	1	2	0	87	
WN Central	23,000	22,257	27,750	34,500	34,150	32,650	50,000	43,000	58,750	54,000	---	32,459	
	22,900	20,275	25,000	29,000	28,000	29,250	39,000	35,340	52,250	31,000	---	25,380	
	21,980	17,875	20,000	23,708	25,500	24,000	27,700	30,000	49,125	23,000	---	21,540	
	22,627	20,031	24,818	29,718	30,778	28,536	38,900	36,314	53,375	36,000	---	28,090	
	562	2,841	5,658	6,251	7,356	6,418	11,709	9,634	5,186	16,093	---	9,500	
	3	26	28	17	9	16	4	11	4	3	0	121	
WS Central	28,350	24,900	28,950	35,500	44,800	46,000	45,540	57,000	53,205	42,624	---	40,110	
	22,200	22,500	26,690	27,150	37,200	33,000	42,000	40,000	42,300	40,000	---	30,000	
	21,000	19,300	22,346	22,799	31,949	24,000	38,000	29,600	37,750	33,250	---	23,750	
	23,850	22,238	26,943	29,165	37,786	34,067	44,662	42,387	48,901	39,117	---	35,566	
	4,253	4,250	6,459	7,346	7,375	11,369	15,308	18,910	20,390	5,674	---	14,494	
	4	29	36	26	9	11	17	19	18	8	0	177	
EN Central	21,000	24,000	27,500	33,450	37,350	42,000	43,000	43,000	53,675	52,000	---	35,400	
	20,000	21,600	25,000	28,050	34,500	34,450	35,000	37,000	40,580	41,000	---	27,500	
	18,000	19,300	20,000	23,100	28,400	30,276	29,000	30,000	24,880	32,300	---	22,000	
	19,884	21,540	24,590	29,250	33,346	35,263	36,928	38,961	40,585	42,988	---	29,977	
	3,037	3,755	5,654	10,079	7,009	10,507	11,308	12,993	17,209	11,855	---	11,397	
	19	103	94	64	49	46	27	64	16	21	0	503	
ES Central	---	24,000	30,000	29,000	---	57,800	49,675	42,500	36,750	48,250	---	33,000	
	---	21,000	26,700	24,600	23,850	30,000	39,500	30,000	35,000	35,000	23,200	28,150	
	---	16,500	21,500	22,500	---	28,427	31,225	22,000	30,860	30,375	---	23,150	
	---	20,539	26,155	25,228	23,850	40,491	40,200	32,309	34,044	37,875	23,200	29,595	
	---	3,813	5,038	4,415	495	21,813	9,044	10,684	3,055	9,903	---	10,609	
	0	10	13	9	2	5	6	7	5	4	1	62	
Mid Atlantic	21,700	24,000	30,000	35,800	40,000	41,570	43,250	50,000	52,150	48,500	---	40,000	
	19,975	21,000	25,450	30,000	33,900	36,000	36,000	40,000	41,950	43,900	22,176	30,648	
	18,300	19,000	21,300	24,800	28,000	33,000	29,952	35,000	35,710	33,950	---	23,300	
	20,422	21,621	25,569	30,698	34,142	37,221	39,393	43,636	46,421	42,365	22,176	32,956	
	3,023	4,593	5,206	8,722	9,571	7,230	14,867	13,903	17,248	9,175	---	13,149	
	18	72	79	49	37	34	41	69	26	22	1	448	
So Atlantic	21,500	20,800	27,325	30,540	39,700	37,900	41,713	45,000	55,750	54,000	---	37,000	
	18,786	18,250	22,750	25,766	32,107	32,900	35,781	36,000	44,000	42,000	---	28,734	
	15,743	14,250	19,975	25,000	26,541	28,375	30,302	30,000	26,750	37,000	---	20,490	
	19,056	18,049	23,800	27,292	34,550	33,097	36,636	36,599	43,109	45,037	---	30,381	
	4,855	3,944	6,326	6,025	13,832	7,044	9,264	11,392	17,990	16,920	---	12,705	
	10	40	42	31	22	24	21	47	14	15	0	266	
New England	25,925	24,400	27,250	35,000	40,000	57,500	42,000	53,250	55,000	80,800	---	38,500	
	22,450	20,500	24,550	31,500	35,000	40,000	35,500	42,750	40,000	40,000	---	30,000	
	17,475	17,150	21,750	27,000	29,048	35,000	25,500	35,345	31,000	36,375	---	22,880	
	22,283	20,750	24,173	36,200	33,786	44,800	37,857	44,016	45,740	53,817	---	33,168	
	4,453	4,685	5,688	17,281	7,505	13,705	15,472	13,772	19,200	27,350	---	16,152	
	6	29	22	15	10	7	7	18	11	6	0	131	
No Response	---	22,500	29,000	37,100	39,000	41,443	48,000	48,900	72,500	40,500	---	39,000	
	17,800	19,200	27,000	26,000	32,040	36,700	40,000	34,050	50,000	34,000	---	29,270	
	---	16,000	20,000	23,428	26,600	30,000	31,250	28,087	27,600	33,000	---	22,800	
	17,800	19,631	25,550	28,140	31,286	35,878	40,313	37,468	51,852	35,833	---	32,065	
	---	5,409	5,899	8,040	7,774	11,715	8,506	11,167	25,805	4,072	---	13,948	
	1	15	19	9	11	7	8	16	9	3	0	98	
TOTAL	22,000	23,520	28,300	33,000	39,000	41,000	43,000	47,600	53,410	50,000	---	37,000	
	20,000	20,850	25,000	28,000	33,699	35,000	36,700	38,000	42,000	40,650	22,688	28,500	
	18,000	18,000	21,000	24,000	27,625	29,600	30,000	32,000	33,000	34,000	---	22,111	
	20,233	20,927	25,114	29,312	33,818	35,842	38,851	40,133	45,110	43,393	22,688	31,254	
	3,729	4,302	5,747	8,994	9,154	10,440	12,408	13,385	17,983	13,424	724	12,674	
	67	378	403	265	190	183	147	287	113	92	2	2,117	

TABLE-1.5.2

SALARIES of FULL-TIME EMPLOYED M.S. CHEMISTS  
by REGION and YEARS SINCE BS  
1982 Survey of ACS Members

REGION	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		
Pacific	---	---	30,000	34,150	41,789	39,400	41,225	44,000	42,043	74,400	32,250	40,075	- 75th %ile
	---	---	24,000	29,187	35,346	32,000	36,500	36,000	36,000	60,000	28,600	32,000	- Median
	---	---	21,000	26,000	29,780	27,931	32,000	28,000	26,566	44,000	23,000	26,465	- 25th %ile
	---	---	25,943	29,911	36,489	33,719	36,703	37,144	34,643	59,857	31,150	34,223	- Mean
	---	---	5,688	7,254	8,689	8,894	9,278	11,849	8,298	14,299	12,266	11,399	- Std Dev
	0	0	23	21	16	21	22	15	5	7	8	138	- Count
Mountain	---	---	29,900	35,250	33,000	38,000	39,625	58,000	---	---	36,500	37,805	
	---	18,550	25,250	26,150	31,000	38,000	37,000	45,000	38,000	27,000	27,000	28,900	
	---	---	23,250	20,300	21,500	35,781	25,922	40,000	---	---	26,000	24,000	
	---	18,550	25,940	27,154	30,286	37,260	33,844	47,667	38,000	27,000	30,400	30,500	
	---	3,606	5,113	7,383	7,505	1,281	7,894	9,292	---	---	8,204	8,822	
	0	2	8	10	7	3	6	3	1	1	5	46	
WN Central	---	28,000	29,700	31,850	41,000	34,800	33,165	52,500	50,500	---	40,150	38,000	
	---	25,000	21,650	29,300	38,000	33,500	25,000	42,250	45,000	30,000	27,450	29,000	
	---	24,792	17,273	22,450	28,800	27,500	20,000	27,750	33,600	---	22,875	22,500	
	---	25,931	23,749	27,908	35,953	31,620	26,777	39,917	42,640	30,000	30,990	30,244	
	---	1,795	8,289	5,976	6,357	4,275	7,510	16,390	11,776	---	11,687	10,557	
	0	3	14	12	3	5	6	6	5	1	12	67	
WS Central	---	---	30,000	34,510	54,025	43,290	52,330	47,500	54,625	60,250	42,175	41,500	
	---	25,500	24,100	27,000	40,300	40,000	40,000	38,600	41,220	50,500	32,500	32,500	
	---	---	18,900	21,654	26,750	32,000	31,875	33,500	34,500	38,500	22,838	25,000	
	---	25,500	23,991	28,362	40,288	38,156	42,802	40,294	45,743	49,750	33,298	34,461	
	---	6,364	6,026	8,879	13,772	5,852	12,393	11,250	18,563	11,266	11,167	12,871	
	0	2	19	28	8	7	9	17	8	4	9	111	
EN Central	---	25,450	29,450	36,500	38,000	42,000	46,861	45,250	45,500	44,000	36,950	38,700	
	---	21,800	25,000	29,600	33,800	32,000	38,405	37,240	35,000	39,000	29,594	31,000	
	---	19,050	20,500	26,690	29,200	27,000	31,700	30,863	29,500	29,450	23,250	25,900	
	---	22,183	24,904	31,480	33,440	34,964	39,269	40,925	37,998	38,788	30,634	33,123	
	---	3,273	5,569	8,247	7,738	13,057	11,549	15,720	12,600	10,152	8,830	11,636	
	0	8	57	53	35	39	26	46	13	12	36	325	
ES Central	---	---	25,875	32,479	---	28,200	45,175	48,250	43,500	---	41,000	38,000	
	---	20,000	23,000	25,500	25,265	26,700	30,000	40,250	23,500	18,288	33,000	26,500	
	---	---	19,000	20,125	---	17,205	21,275	30,885	17,580	---	21,000	21,000	
	---	20,000	22,625	26,468	25,265	23,502	32,500	38,280	29,132	18,288	33,526	29,317	
	---	---	3,591	7,543	7,404	6,008	13,215	15,001	15,128	---	11,923	11,541	
	0	1	4	6	2	5	6	6	5	1	7	43	
Mid Atlantic	---	24,932	29,800	33,000	38,000	43,500	50,000	49,100	48,000	49,000	39,750	40,000	
	---	23,750	25,600	30,000	32,000	36,000	41,084	40,000	37,450	40,520	32,000	32,000	
	---	21,125	21,980	25,800	28,125	29,250	33,000	31,200	30,500	32,000	25,925	26,000	
	---	22,313	25,603	29,531	33,322	38,819	42,267	41,792	38,823	43,652	33,400	34,304	
	---	6,585	5,145	7,105	9,407	13,612	11,885	12,797	11,043	15,317	10,386	12,014	
	0	14	65	59	40	29	26	65	24	18	52	392	
So Atlantic	---	---	28,210	38,600	43,000	44,244	44,000	45,775	39,625	60,000	40,000	41,000	
	---	26,000	26,000	29,500	33,000	40,000	41,000	36,700	31,180	46,800	33,765	33,500	
	---	---	20,175	25,750	27,000	26,000	35,173	30,500	21,500	36,250	25,800	26,000	
	---	26,000	25,185	32,111	35,606	37,522	40,240	38,804	32,010	47,860	34,080	34,554	
	---	---	7,136	8,300	14,295	10,590	9,198	12,669	10,621	12,406	11,131	11,546	
	0	1	21	33	25	23	15	21	16	5	19	179	
New England	---	27,650	26,563	32,400	40,563	40,250	53,500	49,860	---	43,000	38,000	40,000	
	---	25,500	24,676	27,000	33,750	32,650	49,500	39,500	33,881	38,000	27,500	31,000	
	---	20,750	21,750	23,500	27,750	24,000	40,000	33,625	---	28,000	18,900	25,000	
	---	24,600	24,588	28,495	39,375	35,310	50,978	42,380	33,881	36,333	28,900	34,482	
	---	3,992	3,690	7,719	22,282	17,535	16,094	12,137	19,967	7,638	11,811	14,842	
	0	6	12	19	10	10	9	16	2	3	8	95	
No Response	---	---	31,350	42,300	37,000	41,625	49,500	41,875	---	67,000	43,000	42,000	
	---	---	24,750	31,000	27,100	38,128	40,000	33,500	33,000	52,000	35,000	34,000	
	---	---	20,750	25,000	24,750	34,425	33,000	25,500	---	32,500	28,000	25,088	
	---	---	26,090	32,271	31,955	38,276	39,889	37,288	33,000	50,200	35,714	35,591	
	---	---	5,746	9,598	14,854	10,090	9,466	15,725	12,728	19,652	8,976	12,916	
	0	0	10	7	10	10	9	12	2	5	7	72	
TOTAL	---	26,000	29,080	34,450	39,462	42,000	46,000	47,000	45,293	54,500	38,400	40,000	
	---	24,000	25,000	29,200	32,600	35,000	39,830	39,000	36,000	42,000	31,000	31,625	
	---	20,000	21,000	25,000	28,000	28,000	32,000	31,150	27,750	32,600	24,500	25,000	
	---	22,955	25,114	29,940	34,507	35,860	39,498	40,550	37,132	44,628	32,367	33,702	
	---	5,004	5,687	7,866	11,595	11,857	11,783	13,417	12,634	15,115	10,262	12,020	
	0	37	233	248	156	152	134	207	81	57	163	1,468	

TABLE-1.5.3

SALARIES of FULL-TIME EMPLOYED Ph.D. CHEMISTS  
by REGION and YEARS SINCE BS  
1982 Survey of ACS Members

REGION	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		
Pacific	---	---	34,440	38,575	41,625	46,900	50,000	55,000	52,000	58,000	51,250	48,000	- 75th %ile
	---	---	31,000	30,260	33,000	34,250	38,000	44,550	49,000	49,000	46,000	37,000	38,000 - Median
	---	---	---	26,000	25,050	29,000	30,000	36,000	40,000	41,000	36,000	32,750	30,420 - 25th %ile
	---	---	31,000	30,557	32,871	36,362	39,718	44,519	47,670	47,280	48,489	41,426	40,050 - Mean
	---	---	---	5,860	10,552	10,804	11,157	12,869	12,580	13,215	16,134	14,853	13,316 - Std Dev
	---	---	0	1	34	96	86	73	54	64	39	33	53
Mountain	---	---	29,250	36,674	41,125	45,500	49,000	49,100	53,500	52,525	35,250	42,000	
	---	---	25,750	33,030	30,500	36,000	34,400	40,000	45,000	48,563	31,650	33,900	
	---	---	20,875	24,725	24,276	30,000	28,300	33,500	33,900	33,572	25,250	27,000	
	---	---	25,181	31,977	31,197	37,745	37,523	41,736	43,867	44,669	31,700	35,271	
	---	---	4,250	8,343	8,929	9,794	11,795	11,484	11,062	10,916	7,955	10,578	
	---	---	0	0	8	33	34	33	15	17	9	8	14
WN Central	---	---	33,700	39,620	40,000	45,775	47,450	57,450	68,818	46,594	45,375	46,000	
	---	---	30,000	33,900	33,400	34,203	38,500	50,000	45,000	41,500	35,110	36,000	
	---	---	20,625	25,600	27,878	25,877	28,723	34,150	38,650	34,950	29,250	28,200	
	---	---	27,980	33,503	34,531	37,455	40,513	46,712	49,804	40,838	38,503	38,248	
	---	---	7,513	10,180	8,909	13,655	14,727	13,013	17,040	11,097	14,252	13,506	
	---	---	0	0	22	33	47	56	45	28	18	18	32
WS Central	---	---	35,280	40,000	44,750	51,768	50,000	58,500	58,000	70,450	45,500	48,000	
	---	---	32,500	36,000	39,500	40,440	40,539	46,000	39,200	50,250	35,037	38,650	
	---	---	28,850	25,675	29,750	28,681	35,000	36,000	32,000	42,245	29,100	30,000	
	---	---	30,796	34,170	38,194	42,017	42,647	47,716	46,162	55,433	38,499	40,007	
	---	---	6,384	9,206	12,567	14,489	12,461	14,809	21,488	16,884	12,931	13,979	
	---	---	0	0	38	67	73	69	39	41	9	20	32
EN Central	---	---	34,000	37,410	42,000	48,000	53,000	55,000	52,000	58,500	44,400	46,650	
	---	---	60,000	31,127	33,000	35,500	39,484	43,000	44,400	41,650	49,700	36,000	37,000
	---	---	29,000	27,250	26,100	30,000	35,500	33,000	36,000	37,750	28,750	30,000	
	---	---	60,000	30,540	32,781	35,239	40,165	45,467	45,167	44,578	49,743	37,462	39,338
	---	---	6,396	8,968	10,749	12,967	13,688	14,134	14,178	16,009	13,425	13,475	
	---	---	0	1	56	125	171	127	107	107	49	50	90
ES Central	---	---	35,650	41,625	40,000	41,593	41,625	51,250	47,600	49,750	36,250	41,000	
	---	---	31,000	32,238	34,706	29,000	34,000	39,900	38,000	42,425	32,500	33,000	
	---	---	23,500	29,075	26,000	24,000	24,830	30,500	26,000	31,750	27,276	26,000	
	---	---	29,895	33,892	32,831	33,501	34,280	42,414	37,682	41,546	33,441	34,415	
	---	---	7,960	8,158	8,939	13,538	10,998	14,246	14,780	11,229	9,942	11,126	
	---	---	0	0	21	26	47	33	21	14	11	12	18
Mid Atlantic	---	---	35,030	39,125	46,850	50,000	57,000	58,000	55,500	62,500	52,000	50,000	
	---	---	20,000	33,000	35,500	39,000	42,000	43,400	47,000	44,000	47,000	40,000	40,000
	---	---	30,000	30,000	32,250	33,000	33,625	37,000	32,897	40,000	32,000	32,246	
	---	---	20,000	32,081	35,076	39,259	43,250	45,478	48,684	46,002	51,622	42,313	41,998
	---	---	5,764	8,334	11,632	13,124	15,458	17,351	15,665	16,512	13,055	14,170	
	---	---	0	1	76	162	177	151	112	115	69	74	145
So Atlantic	---	---	34,000	38,000	42,125	47,900	52,250	56,000	57,250	60,827	44,164	48,000	
	---	---	31,000	32,640	34,853	42,000	42,800	48,450	50,000	48,700	36,000	38,317	
	---	---	27,163	26,000	28,000	31,108	34,685	34,500	40,000	40,750	30,025	30,075	
	---	---	29,585	32,255	35,451	40,862	43,208	46,991	50,486	52,613	37,645	40,065	
	---	---	6,472	8,614	9,754	10,476	11,302	15,639	15,741	18,310	11,983	13,716	
	---	---	0	0	60	79	130	104	78	92	41	50	72
New England	---	---	34,250	38,500	42,500	48,000	52,000	60,000	51,250	54,000	36,000	45,063	
	---	---	32,400	32,500	35,100	40,000	43,500	43,000	40,000	45,000	31,900	36,000	
	---	---	27,500	23,000	26,000	32,073	35,000	36,000	33,913	32,000	29,625	29,925	
	---	---	31,240	31,688	34,110	43,257	45,486	45,269	44,177	45,494	36,358	39,057	
	---	---	5,718	9,533	10,835	17,441	17,276	16,059	12,631	15,539	13,219	14,796	
	---	---	0	0	21	43	63	60	31	35	13	15	24
No Response	---	---	32,850	37,375	40,175	49,000	54,250	56,375	56,500	57,000	47,950	49,000	
	---	---	31,050	32,700	34,000	38,000	49,500	50,000	45,500	35,000	38,750	36,000	
	---	---	24,998	22,750	28,750	29,220	36,019	40,875	40,150	28,825	28,900	30,000	
	---	---	28,992	32,490	34,115	39,610	47,041	50,659	47,891	44,183	39,641	39,573	
	---	---	6,081	11,190	8,559	14,831	18,461	16,552	12,557	22,538	12,591	15,012	
	---	---	0	0	22	36	33	26	20	30	17	9	30
TOTAL	---	---	60,000	34,437	38,709	42,829	48,000	52,000	56,000	54,000	57,750	47,000	47,200
	---	---	31,000	31,650	33,593	35,700	40,000	42,150	46,500	44,770	46,500	36,000	37,530
	---	---	20,000	28,000	28,000	28,000	30,000	34,000	36,000	36,000	38,000	30,000	30,000
	---	---	37,000	30,367	33,353	36,005	40,647	43,779	46,920	46,439	49,542	39,185	39,750
	---	---	20,664	6,381	9,220	10,820	13,254	14,144	15,158	14,911	16,535	13,192	13,786
	---	---	0	3	358	700	861	732	522	543	280	289	510

TABLE-2.1.1

SALARIES of FULL-TIME EMPLOYED NON-ACADEMIC CHEMISTS - MEN Only  
by DEGREE and YEARS SINCE BS  
1982 Survey of ACS Members

HIGHEST DEGREE	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				
Bachelors	22,900	24,000	29,000	34,000	39,000	41,713	46,040	48,000	48,000	55,000	50,000	50,000	43,333	40,500	22,688	39,047	30,000	24,000	32,975	12,988	1,626	2
	20,052	21,500	25,450	28,764	33,250	36,000	37,000	39,000	39,000	43,333	40,500	40,500	43,333	34,000	---	39,047	30,000	24,000	32,975	12,988	1,626	2
	18,000	18,402	22,000	24,550	28,000	29,927	31,000	33,000	33,000	35,250	34,000	34,000	35,250	34,000	---	39,047	30,000	24,000	32,975	12,988	1,626	2
	20,638	21,409	25,697	30,114	34,209	36,524	40,240	41,003	41,003	47,119	43,010	43,010	47,119	43,010	22,688	39,047	30,000	24,000	32,975	12,988	1,626	2
	3,851	4,547	5,502	9,393	9,560	9,752	12,564	13,231	13,231	17,839	12,938	12,938	17,839	12,938	724	39,047	30,000	24,000	32,975	12,988	1,626	2
	33	229	295	218	140	149	125	260	260	96	79	79	96	79	2	39,047	30,000	24,000	32,975	12,988	1,626	2
Masters	---	26,000	29,600	36,000	40,000	44,000	48,200	50,000	50,000	48,000	55,000	55,000	48,000	43,000	40,200	42,128	34,500	28,000	36,373	12,065	1,070	
	---	24,250	26,000	30,080	35,000	38,000	41,000	41,000	41,000	40,000	43,000	43,000	40,000	36,000	33,000	42,128	34,500	28,000	36,373	12,065	1,070	
	---	21,200	23,000	26,050	30,000	32,000	35,000	35,000	35,000	32,000	36,000	36,000	32,000	28,000	28,000	42,128	34,500	28,000	36,373	12,065	1,070	
	---	24,087	26,156	31,624	36,716	39,691	41,502	43,720	43,720	40,978	45,979	45,979	40,978	34,910	34,910	42,128	34,500	28,000	36,373	12,065	1,070	
	---	3,924	5,179	7,646	11,492	11,876	11,024	12,374	12,374	12,426	14,934	14,934	12,426	9,789	9,789	42,128	34,500	28,000	36,373	12,065	1,070	
	0	24	151	184	123	102	101	169	169	55	50	50	55	50	111	42,128	34,500	28,000	36,373	12,065	1,070	
Doctorate	---	60,000	35,000	40,000	46,000	52,400	58,000	60,000	60,000	58,150	63,000	63,000	58,150	50,246	50,246	51,000	42,000	35,000	44,416	13,109	2,832	
	---	31,000	32,520	36,000	41,000	45,600	49,000	51,000	51,000	50,000	51,000	51,000	50,000	42,188	42,188	51,000	42,000	35,000	44,416	13,109	2,832	
	---	20,000	30,000	32,013	35,000	40,000	41,653	44,000	44,000	41,850	42,188	42,188	41,850	34,150	34,150	44,416	35,000	30,000	44,416	13,109	2,832	
	---	37,000	32,766	36,816	41,379	47,341	50,540	52,385	52,385	51,181	54,124	54,124	51,181	43,340	43,340	54,416	44,416	35,000	44,416	13,109	2,832	
	---	20,664	4,014	7,704	9,187	12,163	13,306	13,860	13,860	14,470	15,700	15,700	14,470	12,752	12,752	13,109	13,109	10,000	13,109	2,832	2,832	
	0	3	237	445	506	399	285	332	332	153	150	150	153	322	322	2,832	2,832	2,832	2,832	2,832	2,832	
No Response	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	43,500	35,700	27,200	37,059	13,724	52	
	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	43,500	35,700	27,200	37,059	13,724	52	
	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	43,500	35,700	27,200	37,059	13,724	52	
	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	43,500	35,700	27,200	37,059	13,724	52	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43,500	35,700	27,200	37,059	13,724	52	
TOTAL	22,900	24,225	32,400	39,000	44,400	50,000	52,700	55,000	55,000	55,000	57,500	57,500	55,000	48,000	48,000	47,000	37,500	30,000	39,472	13,877	5,580	
	20,052	21,790	28,300	33,200	38,800	42,281	45,000	44,512	44,512	45,900	46,000	46,000	45,900	38,000	38,000	47,000	37,500	30,000	39,472	13,877	5,580	
	18,000	18,725	24,100	28,250	32,950	35,820	37,000	36,000	36,000	38,000	39,000	39,000	38,000	32,000	32,000	47,000	37,500	30,000	39,472	13,877	5,580	
	20,638	21,843	28,232	33,963	39,328	43,661	46,234	46,572	46,572	48,052	49,518	49,518	48,052	40,663	40,663	47,000	37,500	30,000	39,472	13,877	5,580	
	3,851	5,154	5,950	8,701	10,083	12,524	13,579	14,295	14,295	15,704	15,628	15,628	15,704	12,802	12,802	13,877	13,877	10,000	13,877	2,832	2,832	
	33	256	683	847	769	650	511	761	761	304	279	279	304	487	487	5,580	5,580	5,580	5,580	2,832	2,832	

TABLE-2.1.2

SALARIES of FULL-TIME EMPLOYED NON-ACADEMIC CHEMISTS - WOMEN Only  
by DEGREE and YEARS SINCE BS  
1982 Survey of ACS Members

HIGHEST DEGREE	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							
Bachelors	22,000	23,000	27,000	29,300	39,150	35,000	36,611	35,000	46,575	59,326	---	27,500	23,000	19,700	24,670	8,216	369	
	20,000	20,080	24,500	25,000	35,000	32,000	29,000	24,000	35,570	45,000	---	35,000	23,000	19,700	24,670	8,216	369	
	17,900	18,167	20,000	22,575	28,250	22,500	24,300	20,701	22,750	33,368	---	20,701	22,750	33,368	46,078	15,635	5	
	20,199	20,419	23,945	25,949	33,983	29,907	29,664	28,943	37,446	46,078	---	28,943	37,446	46,078	15,635	5	0	
	3,475	3,522	5,785	4,622	6,063	8,297	8,211	12,940	16,864	15,635	---	12,940	16,864	15,635	8,216	369	29	
		130	87	33	26	22	12	15	10	5	0	15	10	5	0	369	29	
Masters	---	25,250	30,000	31,463	36,234	35,836	38,000	37,500	37,570	62,000	34,250	37,500	37,500	34,250	33,200	21,000	33,200	
	---	23,500	24,500	27,690	29,900	30,300	30,000	25,500	34,600	33,200	26,500	34,600	34,600	26,500	22,175	22,500	22,500	
	---	19,600	21,330	25,150	28,175	24,755	22,000	21,250	22,986	21,000	22,175	22,986	22,986	22,175	30,190	38,733	28,559	
	---	22,614	25,167	27,720	30,814	30,762	30,307	28,938	30,190	38,733	28,559	30,190	28,938	28,559	8,430	21,053	8,186	
	---	3,002	5,545	5,811	7,087	8,185	7,967	8,360	8,430	21,053	8,186	8,360	8,360	8,186	7,400	187	0	
	0	10	58	34	14	18	11	8	9	3	22	8	8	22	187	187	0	
Doctorate	---	---	35,000	38,250	39,000	49,000	46,650	63,510	44,900	88,000	39,425	63,510	44,900	40,000	40,000	40,000	40,000	
	---	---	33,000	33,700	35,800	35,640	39,000	53,250	41,050	49,623	32,880	53,250	41,050	34,200	34,200	34,200	34,200	
	---	---	30,000	30,000	28,072	32,000	31,725	31,000	38,066	40,312	29,625	31,000	38,066	30,000	30,000	30,000	30,000	
	---	---	32,564	35,272	34,536	40,013	39,700	49,158	42,088	59,312	34,821	49,158	42,088	36,505	36,505	36,505	36,505	
	---	---	3,924	8,495	9,031	11,368	12,006	17,152	3,698	27,067	7,923	17,152	3,698	10,431	10,431	10,431	10,431	
	0	0	43	57	36	15	13	10	7	4	24	10	7	24	209	209	0	
No Response	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
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	0	0	0	0	0	0	0	0	0	0	7	0	0	7	7	7	7	
TOTAL	22,000	23,000	30,435	34,000	38,875	37,000	39,831	48,000	42,350	61,000	36,000	48,000	42,350	34,000	34,000	34,000	34,000	
	20,000	20,163	25,500	30,000	34,900	32,640	33,814	29,848	37,826	43,123	32,000	29,848	37,826	26,940	26,940	26,940	26,940	
	17,900	18,425	21,915	26,000	28,341	25,000	25,000	21,030	24,568	34,209	24,630	21,030	24,568	21,525	21,525	21,525	21,525	
	20,199	20,576	26,294	30,614	33,661	32,943	33,485	35,068	36,184	48,653	31,831	35,068	36,184	28,692	28,692	28,692	28,692	
	3,475	3,524	6,342	8,169	7,806	10,029	10,548	16,134	12,318	20,987	9,344	16,134	12,318	10,049	10,049	10,049	10,049	
	29	140	188	124	76	55	36	33	26	12	53	33	26	772	772	772	772	

TABLE-2.2.1

SALARIES of FULL-TIME EMPLOYED NON-ACADEMIC B.S. CHEMISTS  
by SELECTED STATES and YEARS SINCE BS  
1982 Survey of ACS Members

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	19,992	23,000	27,500	30,300	40,000	54,250	40,000	50,000	56,750	64,000	---	37,260	- 75th %-ile
	15,484	21,600	25,000	27,750	28,620	38,000	36,550	39,000	46,309	57,500	---	28,620	- Median
	13,149	18,500	22,650	24,750	25,000	33,000	28,150	32,000	35,000	41,000	---	23,250	- 25th %-ile
	16,208	21,810	25,661	28,515	32,870	42,278	35,785	41,554	46,270	52,850	---	32,350	- Mean
	3,633	4,971	5,857	8,013	9,020	12,410	9,162	13,805	11,344	11,818	---	12,737	- Std Dev
	4	27	41	26	15	20	12	27	6	7	0	185	- Count
Texas	---	25,510	29,100	35,500	46,025	43,520	49,020	59,000	79,500	40,000	---	40,625	
	21,000	21,100	26,000	27,550	38,949	26,212	43,428	40,000	50,000	38,500	---	29,350	
	---	17,625	22,000	22,624	28,750	22,988	35,500	28,450	42,300	32,605	---	22,799	
	21,000	21,746	26,689	29,495	37,633	30,956	46,245	43,746	59,656	37,035	---	33,929	
	0	4,956	6,682	7,398	9,266	10,973	18,092	20,936	22,474	4,177	---	16,346	
	2	20	23	22	6	6	12	14	9	4	0	118	
Illinois	20,250	22,375	28,525	30,310	35,150	46,750	55,000	43,500	53,675	55,000	---	37,375	
	18,000	19,666	25,000	28,000	33,500	38,000	33,000	36,600	45,250	52,000	---	28,600	
	14,450	18,353	21,481	21,250	27,900	29,625	27,650	31,150	29,140	38,150	---	22,150	
	17,480	20,421	25,654	26,766	32,456	37,850	37,607	38,905	42,640	48,383	---	31,011	
	2,996	3,045	5,721	6,362	6,829	11,304	13,652	11,824	14,341	8,988	---	11,480	
	5	16	26	17	16	10	7	21	8	3	0	129	
Michigan	24,000	25,000	30,000	38,800	36,175	41,500	37,050	41,950	---	50,000	---	36,530	
	22,000	22,061	26,000	33,000	35,086	34,450	31,000	37,000	60,000	41,000	---	28,000	
	18,750	20,192	22,000	26,850	32,165	32,500	27,250	26,750	---	34,600	---	23,700	
	21,500	22,040	26,425	32,720	34,059	38,100	31,920	35,341	60,000	41,857	---	30,342	
	2,872	3,801	6,434	6,961	3,667	9,398	5,353	8,511	---	12,837	---	9,739	
	5	26	17	10	10	10	5	14	1	7	0	105	
Ohio	20,200	23,950	27,500	38,750	39,500	39,550	46,000	44,650	57,500	56,000	---	37,500	
	20,000	21,696	25,100	30,100	34,000	31,300	38,500	37,000	24,000	48,000	---	27,500	
	19,000	19,725	22,500	26,520	25,505	25,250	29,500	33,058	17,540	34,450	---	21,946	
	19,680	21,850	24,851	33,430	32,781	31,180	39,944	40,607	34,816	44,989	---	30,779	
	955	4,067	3,952	15,551	9,130	10,914	14,279	15,107	24,329	12,160	---	13,034	
	5	36	25	18	17	16	9	21	5	9	0	161	
New Jersey	23,675	25,000	30,472	35,000	36,700	43,473	47,750	59,000	54,050	49,250	---	40,400	
	18,650	21,525	25,550	30,750	31,536	39,000	38,200	40,200	42,500	46,000	22,176	31,250	
	17,250	18,900	23,000	26,150	28,025	36,000	34,375	31,550	40,250	36,600	---	25,000	
	20,167	21,918	26,449	31,023	34,056	39,895	42,980	46,868	45,592	43,950	22,176	34,301	
	4,742	3,637	5,216	7,249	7,723	7,803	14,387	19,548	8,368	7,072	---	13,828	
	6	26	27	19	12	12	22	21	12	4	1	162	
New York	22,475	24,625	31,555	39,251	50,000	41,426	57,750	50,750	83,250	49,900	---	41,320	
	20,776	21,950	27,750	31,150	39,564	35,000	39,500	42,500	41,000	42,800	---	31,000	
	19,675	17,992	21,960	25,675	19,598	27,000	27,575	40,000	28,500	34,500	---	24,000	
	21,159	20,981	26,610	32,782	35,752	35,139	44,183	45,755	51,500	43,360	---	33,931	
	2,212	3,984	5,100	8,307	15,317	8,737	21,481	9,832	27,157	9,347	---	14,058	
	6	18	26	14	8	11	6	20	6	9	0	124	
Pennsylvania	21,600	24,000	26,475	33,000	40,000	40,075	35,750	49,500	48,000	45,000	---	38,000	
	19,800	20,333	24,313	26,600	35,450	36,000	31,800	39,000	40,000	34,000	---	30,000	
	18,300	19,275	20,250	23,000	29,750	33,000	25,550	33,000	34,839	32,000	---	23,000	
	19,900	22,200	24,054	29,582	35,071	36,639	30,634	39,699	46,548	36,857	---	31,554	
	1,652	5,685	5,096	9,932	5,946	4,279	8,171	10,402	19,822	7,581	---	11,276	
	3	26	20	15	14	9	8	28	7	7	0	137	
No Response	23,100	23,000	28,300	31,725	39,800	39,186	44,000	46,000	52,455	48,075	---	36,000	
	21,490	20,500	24,920	27,000	33,000	33,500	36,888	36,600	40,580	40,000	23,200	28,000	
	18,000	17,075	20,000	24,000	28,400	28,500	31,202	30,000	31,575	33,000	---	22,000	
	21,502	20,257	24,682	28,619	34,655	34,005	38,387	38,172	44,522	43,710	23,200	30,494	
	4,015	3,964	5,671	8,724	10,112	9,059	9,579	11,940	17,134	16,271	---	12,200	
	26	164	178	112	69	79	57	116	54	38	1	894	
TOTAL	22,000	23,850	28,500	33,000	39,000	41,000	44,892	47,700	54,705	50,000	---	37,200	
	20,026	21,000	25,000	28,000	33,950	35,000	36,960	38,000	43,000	40,900	22,688	28,968	
	18,000	18,252	21,200	24,000	28,000	29,550	30,000	32,225	34,879	34,150	---	22,500	
	20,433	21,050	25,284	29,532	34,209	35,671	39,207	40,205	46,073	43,706	22,688	31,503	
	3,657	4,226	5,608	9,006	9,071	9,977	12,603	13,390	17,762	13,309	---	12,690	
	62	359	383	253	167	173	138	282	108	88	2	2,015	

TABLE-2.2.2

SALARIES of FULL-TIME EMPLOYED NON-ACADEMIC M.S. CHEMISTS  
by SELECTED STATES and YEARS SINCE BS  
1982 Survey of ACS Members

STATES	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		
California	---	---	30,750	36,000	42,000	45,500	44,000	43,875	45,585	74,700	60,000	42,500	- 75th %ile
	---	---	24,500	32,000	35,692	36,500	37,700	41,500	38,500	72,000	27,200	34,000	- Median
	---	---	21,925	29,000	29,340	31,023	32,000	35,100	28,632	55,798	23,000	27,999	- 25th %ile
	---	---	26,585	33,072	35,621	38,839	36,998	40,463	37,572	66,599	36,733	35,997	- Mean
	---	---	5,380	5,308	6,513	9,151	10,065	11,810	8,514	10,399	20,259	11,998	- Std Dev
	0	0	20	15	11	9	15	8	3	5	3	89	- Count
Texas	---	---	31,000	35,750	56,700	43,645	43,330	53,000	75,250	60,250	49,000	43,000	
	---	30,000	25,500	30,030	40,000	40,000	32,000	41,500	45,500	50,500	32,760	33,000	
	---	---	21,020	22,935	25,000	30,400	30,875	36,500	38,250	38,500	25,000	27,000	
	---	30,000	25,751	30,507	39,471	37,618	36,082	43,665	53,000	49,750	35,287	35,819	
	---	---	5,735	8,876	14,665	6,854	7,654	10,427	21,802	11,266	11,612	12,549	
	0	1	13	20	7	5	5	11	4	4	7	77	
Illinois	---	---	30,300	40,800	35,000	49,225	48,200	46,250	46,250	53,100	36,000	42,350	
	---	19,500	25,250	30,000	35,000	38,249	42,100	36,750	34,800	42,000	34,000	34,000	
	---	---	19,662	28,000	30,000	27,005	36,400	28,125	26,104	28,500	21,600	26,750	
	---	19,500	26,046	33,731	33,333	39,042	42,422	42,875	35,718	41,040	31,376	35,392	
	---	424	6,840	8,828	2,887	20,221	7,454	24,470	10,964	14,111	8,980	14,068	
	0	2	10	13	3	10	9	8	4	5	9	73	
Michigan	---	26,260	29,000	39,000	39,000	50,250	---	48,000	---	---	34,500	40,000	
	---	23,800	25,000	36,000	35,250	35,000	50,000	42,100	65,000	45,000	27,000	32,500	
	---	19,000	22,000	27,890	32,000	31,450	---	32,000	---	---	19,500	27,000	
	---	23,020	25,253	34,354	35,477	39,680	50,000	42,178	65,000	45,000	27,000	34,598	
	---	3,692	4,458	6,719	6,697	11,954	---	12,580	---	---	8,803	10,984	
	0	3	9	11	11	5	1	9	1	1	5	56	
Ohio	---	25,600	29,875	31,800	39,625	40,400	51,741	44,750	---	42,000	38,000	38,300	
	---	25,000	27,700	28,900	33,850	34,500	41,008	38,240	46,650	38,000	29,000	31,250	
	---	18,800	25,100	27,120	29,060	29,750	26,800	34,475	---	32,325	24,625	26,910	
	---	23,133	27,033	30,163	33,704	35,453	40,988	42,636	46,650	37,330	31,367	34,016	
	---	3,765	4,438	5,324	5,741	9,072	15,025	12,727	16,476	6,302	8,532	10,415	
	0	3	20	14	10	13	9	16	2	5	12	104	
New Jersey	---	24,500	30,500	33,338	36,430	48,825	45,920	58,525	46,050	55,000	41,000	41,000	
	---	23,000	24,950	30,200	31,500	39,000	40,000	44,000	40,000	43,000	31,500	32,000	
	---	21,500	22,000	27,700	28,500	28,700	33,462	34,500	33,000	32,000	27,500	27,900	
	---	23,000	25,920	31,165	31,796	40,250	39,963	46,418	39,525	47,143	34,263	35,522	
	---	1,500	5,654	7,196	5,110	13,179	8,699	12,767	8,736	16,708	10,150	11,686	
	0	3	23	16	21	10	9	22	8	7	27	146	
New York	---	31,550	29,700	32,850	47,000	40,778	60,000	51,000	37,700	41,040	48,200	40,520	
	---	25,288	25,750	30,000	38,000	34,486	50,000	40,000	34,000	33,200	36,000	32,700	
	---	24,144	21,000	26,000	29,300	22,950	40,000	30,400	28,000	30,500	33,000	26,800	
	---	26,994	25,626	30,300	40,024	35,493	48,986	41,551	34,569	38,963	39,864	35,075	
	---	4,353	4,803	7,063	12,137	14,341	9,352	12,114	9,423	17,224	8,966	11,711	
	0	4	18	21	11	8	7	11	7	7	11	105	
Pennsylvania	---	25,400	30,000	33,000	43,100	52,000	49,500	47,750	60,000	55,750	33,500	42,242	
	---	23,500	26,000	30,000	32,800	43,000	41,884	40,000	48,000	41,500	31,500	33,000	
	---	21,500	24,500	25,288	22,650	35,000	31,750	34,600	38,588	40,000	26,475	26,038	
	---	23,460	26,442	29,777	32,850	45,214	40,461	41,902	49,035	45,750	30,050	35,426	
	---	2,431	4,665	5,749	10,685	15,193	9,694	11,999	11,332	9,605	4,957	11,910	
	0	5	19	16	4	7	6	24	5	4	6	96	
No Response	---	26,000	29,000	35,250	42,000	42,000	45,750	50,000	44,625	54,000	40,000	41,000	
	---	24,792	24,950	28,650	33,600	37,000	40,000	40,000	37,120	43,000	32,000	32,750	
	---	20,500	21,575	25,000	28,800	30,000	34,625	33,000	27,500	35,000	26,000	26,000	
	---	23,269	25,475	30,369	37,503	37,520	39,955	42,615	36,541	44,039	33,729	34,743	
	---	3,926	5,597	8,060	14,084	10,396	12,241	11,781	11,119	15,616	9,751	11,903	
	0	13	78	94	59	55	52	71	30	15	55	522	
TOTAL	---	26,000	30,000	35,000	40,000	43,073	46,641	49,150	47,500	55,000	40,000	41,000	
	---	24,000	25,550	30,000	33,600	36,250	40,000	40,400	37,850	43,000	32,000	33,000	
	---	20,750	22,000	26,000	29,100	30,000	34,000	34,575	32,000	35,500	26,000	26,600	
	---	23,654	25,913	30,959	36,113	38,147	40,345	42,880	39,461	45,569	33,703	35,036	
	---	3,695	5,295	7,503	11,247	11,823	11,209	12,563	12,476	15,186	9,855	11,866	
	0	34	210	220	137	122	113	180	64	53	135	1,268	



TABLE-2.2.3

SALARIES of FULL-TIME EMPLOYED NON-ACADEMIC Ph.D. CHEMISTS  
by SELECTED STATES and YEARS SINCE BS  
1982 Survey of ACS Members

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	---	---	35,000	40,000	50,000	52,000	53,750	56,000	50,413	63,750	56,625	50,320	- 75th %-ile
	---	31,000	33,000	36,400	39,798	45,000	50,000	50,000	49,150	56,200	44,750	41,500	- Median
	---	---	30,000	31,000	34,000	40,000	44,550	45,000	43,150	41,813	35,150	35,000	- 25th %-ile
	---	31,000	32,506	36,612	42,230	47,615	51,062	51,792	46,937	54,146	47,260	43,891	- Mean
	---	---	4,135	10,474	10,496	10,372	13,403	11,433	8,653	13,265	15,252	12,783	- Std Dev
	0	1	23	63	46	27	25	31	65	12	30	278	- Count
Texas	---	---	36,000	39,700	49,350	63,750	52,000	60,250	85,094	75,450	43,625	51,190	
	---	---	32,000	38,000	43,900	47,500	48,000	52,500	56,500	57,850	39,350	42,000	
	---	---	30,000	31,150	38,625	41,080	40,000	41,857	27,000	49,500	31,200	35,500	
	---	---	32,643	37,105	44,315	51,357	46,949	49,896	56,198	62,383	40,340	44,782	
	---	---	4,675	7,415	8,279	14,483	10,249	14,702	30,121	16,368	13,102	13,518	
	0	0	15	21	36	24	11	14	4	6	10	141	
Illinois	---	---	33,400	41,300	45,650	47,000	60,900	61,000	60,000	72,250	48,000	50,000	
	---	60,000	32,000	35,000	40,000	39,484	49,240	54,800	43,945	49,950	36,000	40,000	
	---	---	30,500	33,000	33,975	31,500	41,235	40,000	36,250	40,350	28,000	33,850	
	---	60,000	31,900	38,276	40,207	41,799	50,886	51,104	50,736	56,162	38,333	44,079	
	---	---	1,719	9,096	11,111	14,212	11,648	14,065	22,201	21,442	9,183	14,383	
	0	1	9	27	30	19	20	23	8	12	15	164	
Michigan	---	---	34,625	39,425	47,000	53,500	61,875	60,500	60,450	68,950	56,250	53,500	
	---	---	31,000	35,000	43,000	47,400	53,000	49,000	51,000	58,000	45,000	45,000	
	---	---	30,525	30,875	37,440	40,750	44,400	46,638	39,350	47,712	40,820	35,900	
	---	---	32,412	35,575	42,995	49,070	53,975	53,460	50,267	58,369	50,518	45,725	
	---	---	2,992	5,310	8,001	14,465	11,913	11,195	10,068	12,344	14,046	12,988	
	0	0	18	24	23	22	12	22	6	9	13	149	
Ohio	---	---	37,500	37,075	42,000	54,000	58,000	49,405	52,500	60,000	42,000	45,000	
	---	---	33,150	35,000	38,500	46,248	48,785	43,920	43,830	47,500	35,000	38,850	
	---	---	29,550	32,150	31,200	40,500	38,250	32,500	39,417	37,750	31,000	33,000	
	---	---	33,615	35,666	36,945	47,913	48,425	44,103	45,875	49,610	36,440	40,889	
	---	---	4,471	6,761	7,594	13,006	11,961	13,920	8,097	12,399	6,028	10,957	
	0	0	13	24	39	13	24	17	8	10	18	166	
New Jersey	---	---	37,795	42,000	52,000	50,800	63,000	65,000	67,500	69,912	52,750	53,340	
	---	20,000	33,500	37,700	44,000	46,000	54,000	54,000	50,000	53,000	43,100	43,500	
	---	---	30,625	33,000	38,000	39,500	41,363	45,000	43,600	40,200	35,000	36,600	
	---	20,000	33,726	38,193	44,989	46,697	53,706	55,888	55,959	55,961	44,799	46,162	
	---	---	3,963	7,453	9,518	10,391	15,376	18,203	16,607	16,508	12,153	13,917	
	0	1	28	51	59	41	28	35	21	15	56	335	
New York	---	---	35,000	40,000	47,350	58,900	57,000	68,300	55,050	65,000	52,150	51,200	
	---	---	32,850	36,300	41,250	46,850	48,000	55,000	44,900	53,000	44,000	42,000	
	---	---	29,325	31,625	37,250	40,250	40,500	44,000	38,000	40,000	35,750	35,000	
	---	---	32,807	36,860	41,918	49,308	48,617	56,119	45,094	51,624	44,668	44,555	
	---	---	4,687	7,649	8,117	12,306	11,231	15,954	11,819	15,059	12,954	12,892	
	0	0	24	44	40	36	29	23	9	23	33	261	
Pennsylvania	---	---	36,000	38,775	44,250	59,000	69,250	55,096	58,000	88,750	51,425	50,000	
	---	---	33,700	35,500	40,044	51,000	47,500	47,000	47,600	54,573	35,500	40,044	
	---	---	32,500	31,050	36,500	37,850	39,813	40,300	42,213	43,500	32,850	35,000	
	---	---	34,420	35,617	42,555	50,074	52,372	47,833	49,500	63,024	40,825	44,038	
	---	---	2,753	6,088	10,785	12,905	16,330	11,439	12,992	24,813	10,812	13,282	
	0	0	14	36	33	25	20	21	12	6	28	195	
No Response	---	---	34,750	40,850	44,000	50,300	56,033	59,910	58,225	60,000	49,500	50,000	
	---	---	32,400	35,100	39,750	45,000	47,080	52,000	50,000	50,000	37,500	41,000	
	---	---	30,000	31,016	34,000	40,000	40,000	44,000	40,819	42,000	33,000	34,000	
	---	---	32,405	36,355	39,314	46,257	49,156	52,735	51,261	53,546	41,524	43,271	
	---	---	4,044	7,437	8,654	12,011	13,826	13,323	13,866	15,777	12,636	12,972	
	0	0	137	216	244	211	130	156	76	71	149	1,390	
TOTAL	---	60,000	35,000	40,000	45,050	52,100	57,500	60,000	57,500	63,827	50,000	50,000	
	---	31,000	32,520	36,000	40,000	45,550	48,000	51,000	49,150	51,000	40,000	41,250	
	---	20,000	30,000	32,000	35,000	40,000	40,539	43,980	41,000	42,000	33,624	34,800	
	---	37,000	32,733	36,627	40,912	47,168	50,073	52,290	50,664	54,428	42,675	43,901	
	---	20,664	3,987	7,777	9,276	12,312	13,396	13,948	14,222	16,003	12,617	13,118	
	0	3	281	506	550	418	299	342	164	164	352	3,079	

















TABLE-3.3.1

SALARIES of FULL-TIME EMPLOYED B.S. CHEMISTS IN PRIVATE INDUSTRY  
by SUBORDINATES (PROFESSIONALS + TECHNICIANS) and YEARS SINCE BS  
1982 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			
0	22,000	23,520	28,000	31,400	37,000	36,840	40,000	43,000	49,475	47,000	---	32,000	- 75th %ile
	20,500	21,000	24,650	27,000	32,000	33,250	35,050	36,500	41,500	38,500	22,176	25,000	- Median
	18,300	18,775	21,000	23,000	26,100	26,943	28,500	28,840	30,030	31,140	---	21,000	- 25th %ile
	20,758	21,192	24,366	27,258	31,777	31,998	34,636	36,541	42,649	38,436	22,176	27,333	- Mean
	3,534	3,982	4,978	5,709	8,508	8,565	7,713	9,750	17,949	9,027	---	9,554	- Std Dev
	43	198	141	79	41	44	30	74	28	19	1	698	- Count
1-2	22,300	25,000	28,150	31,980	37,095	41,680	40,000	43,875	52,952	45,630	---	37,000	
	21,000	22,100	25,000	29,000	34,100	36,000	35,300	37,800	40,500	39,500	23,200	29,000	
	19,050	19,975	22,250	24,600	28,625	29,800	30,000	32,925	37,100	34,250	---	24,000	
	21,267	22,411	25,514	29,662	32,907	36,458	35,570	40,456	44,271	40,112	23,200	31,016	
	3,196	4,053	4,767	6,599	6,502	8,414	6,515	12,796	10,715	7,512	---	10,198	
	9	74	93	51	40	25	28	60	17	20	1	418	
3-7	27,600	23,500	30,000	35,000	41,500	43,355	49,725	49,500	53,500	44,500	---	40,000	
	20,700	21,000	27,000	30,000	36,000	37,000	39,250	38,000	41,800	40,000	---	32,000	
	15,750	18,502	24,375	25,000	30,250	31,900	29,928	32,308	35,000	32,000	---	26,000	
	21,350	21,202	27,065	31,085	37,099	37,070	42,125	41,027	44,935	40,381	---	34,179	
	6,172	4,337	5,172	9,027	8,965	8,355	14,800	14,208	12,419	13,539	---	12,300	
	4	33	62	53	32	36	24	49	22	20	0	335	
8-12	---	29,160	35,375	36,375	44,864	57,000	50,500	51,900	75,000	51,500	---	49,500	
	---	24,320	30,520	29,550	35,200	47,000	45,000	48,000	55,000	48,150	---	39,000	
	---	21,850	25,275	27,000	30,950	37,850	38,510	35,363	49,500	38,000	---	32,000	
	---	25,110	30,474	34,793	37,385	47,669	44,348	44,945	58,974	45,413	---	41,426	
	---	3,953	5,704	16,605	7,599	12,094	7,231	13,172	13,792	7,942	---	13,509	
	0	4	14	14	9	13	13	21	7	8	0	103	
13-17	---	---	33,000	40,200	---	49,000	56,500	67,375	---	---	---	57,000	
	---	17,000	30,000	30,000	46,520	44,500	43,000	55,500	53,000	74,400	---	43,000	
	---	---	26,000	29,000	---	42,250	35,750	48,800	---	---	---	33,000	
	---	17,000	28,986	33,067	46,520	45,250	45,500	58,029	53,000	74,400	---	46,498	
	---	---	4,228	6,198	4,978	3,594	14,300	13,305	16,971	---	---	16,180	
	0	1	7	3	2	4	5	14	2	1	0	39	
18-22	---	---	28,000	48,000	72,625	57,000	70,000	---	48,618	100,000	---	50,714	
	---	25,000	27,000	39,000	38,250	45,000	59,000	33,500	36,000	70,000	---	36,960	
	---	---	23,700	32,000	33,500	33,000	36,920	---	28,000	37,236	---	30,000	
	---	25,000	26,233	39,667	48,125	45,000	55,307	33,500	37,539	69,079	---	43,384	
	---	7,071	2,250	8,021	23,531	12,000	16,846	4,950	10,395	31,392	---	19,308	
	0	2	3	3	4	3	3	2	3	3	0	26	
23-32	---	---	---	38,000	48,875	58,625	86,000	52,500	90,000	---	---	50,000	
	---	---	33,000	34,000	44,700	47,750	44,856	42,120	50,000	45,000	---	42,240	
	---	---	---	30,000	35,500	36,500	37,500	39,250	50,000	---	---	37,500	
	---	---	33,000	34,000	42,150	47,625	56,119	45,207	63,333	45,000	---	46,407	
	---	---	4,000	9,521	12,311	26,138	8,430	23,094	---	---	---	14,725	
	0	0	1	3	6	4	3	6	3	1	0	27	
33-47	---	---	---	---	---	---	---	---	---	---	---	68,310	
	---	---	---	50,500	---	28,800	42,500	56,810	82,500	---	---	52,000	
	---	---	---	---	---	---	---	---	---	---	---	39,500	
	---	---	---	50,500	---	28,800	42,500	56,810	82,500	---	---	54,824	
	---	---	---	9,192	---	---	10,607	6,802	10,607	---	---	19,085	
	0	0	0	2	0	1	2	2	2	0	0	9	
48-67	---	---	---	---	---	---	---	---	---	---	---	66,250	
	---	---	---	49,000	---	52,000	---	70,400	---	60,000	---	55,900	
	---	---	---	---	---	---	---	---	---	---	---	49,500	
	---	---	---	49,000	---	52,000	---	70,400	---	60,000	---	58,467	
	---	---	---	9,899	---	---	---	20,648	---	---	---	14,370	
	0	0	0	2	0	1	0	2	0	1	0	6	
68-99	---	---	---	---	---	---	---	---	---	---	---	58,000	
	---	---	---	---	---	---	48,500	---	58,000	---	---	55,000	
	---	---	---	---	---	---	---	---	---	---	---	42,000	
	---	---	---	---	---	---	48,500	---	58,000	---	---	51,667	
	---	---	---	---	---	---	9,192	---	---	---	---	8,505	
	0	0	0	0	0	0	2	0	1	0	0	3	
>=100	---	---	---	---	---	---	---	---	94,000	---	---	93,000	
	---	---	---	---	---	42,000	96,000	73,500	90,000	64,000	---	73,500	
	---	---	---	---	---	---	---	---	50,000	---	---	53,500	
	---	---	---	---	---	42,000	96,000	73,500	78,000	64,000	---	72,875	
	---	---	---	---	---	---	---	3,536	24,331	---	---	20,153	
	0	0	0	0	0	1	1	2	3	1	0	8	
TOTAL	22,675	24,000	28,800	34,000	40,000	42,620	46,000	48,875	55,000	48,075	---	38,000	
	20,750	21,500	25,450	29,000	34,856	36,000	37,000	40,000	44,500	40,000	22,688	29,000	
	18,300	19,000	22,000	24,825	28,725	30,000	31,000	33,000	36,075	33,950	---	23,000	
	20,882	21,543	25,631	30,095	34,934	37,143	40,201	41,542	47,884	42,623	22,688	32,019	
	3,479	4,089	5,169	8,712	9,373	10,208	12,854	13,690	17,332	13,309	724	12,827	
	56	312	321	210	134	132	111	232	88	74	2	1,672	

TABLE-3.3.2

SALARIES of FULL-TIME EMPLOYED M.S. CHEMISTS IN PRIVATE INDUSTRY by SUBORDINATES (PROFESSIONALS + TECHNICIANS) and YEARS SINCE BS 1982 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		
0	---	19,975	20,366	21,800	27,223	28,000	34,000	29,203	24,614	31,503	21,738	21,675	- 25th %-ile
	---	24,000	24,500	27,600	32,000	33,600	40,000	38,240	33,500	41,520	28,610	30,000	- Median
	---	25,000	28,243	32,250	38,000	41,000	42,000	42,750	40,150	46,950	34,250	36,000	- 75th %-ile
	---	23,035	25,086	28,750	34,652	34,407	37,477	38,482	34,151	41,785	30,322	31,292	- Mean
	---	2,898	5,011	7,026	8,830	9,329	7,678	10,158	9,399	9,416	9,530	9,473	- Std Dev
	0	21	86	75	45	31	19	44	16	20	46	401	- Count
1-2	---	22,666	22,523	24,953	26,352	28,593	34,784	30,906	30,664	36,750	26,513	24,781	
	---	26,000	26,250	30,000	35,000	32,000	40,500	37,560	40,488	43,000	32,760	32,600	
	---	29,500	30,000	34,500	40,000	40,750	43,550	43,025	50,445	53,000	35,175	40,000	
	---	26,175	26,668	31,300	34,681	34,837	40,431	37,946	40,520	46,556	33,785	34,109	
	---	4,385	4,673	6,626	8,750	6,841	7,294	7,800	10,028	14,510	8,720	9,028	
	0	8	46	45	32	21	26	44	10	9	33	274	
3-7	---	---	23,978	30,000	31,000	31,425	36,444	37,191	32,856	37,445	32,000	27,788	
	---	26,300	29,580	33,000	32,000	36,000	45,840	42,500	37,600	43,000	37,000	36,000	
	---	---	32,000	37,000	38,000	42,985	53,000	49,150	49,500	44,750	48,000	43,000	
	---	26,300	28,269	33,584	34,711	39,504	47,330	45,128	40,857	43,213	38,257	37,752	
	---	4,667	4,470	6,070	6,197	11,932	12,663	9,761	11,634	8,972	9,671	10,711	
	0	2	34	39	19	17	21	32	14	8	23	209	
8-12	---	---	25,161	27,898	31,650	34,500	24,613	38,625	34,478	---	28,577	28,819	
	---	20,000	27,000	32,500	40,600	52,000	34,900	48,850	42,500	36,000	36,540	37,500	
	---	---	32,025	37,300	44,750	56,000	48,750	66,600	57,250	---	47,100	46,500	
	---	20,000	28,138	32,817	41,294	47,500	35,950	51,808	47,767	36,000	37,270	40,617	
	---	---	3,610	5,072	11,577	11,435	12,754	13,354	19,064	---	9,951	13,915	
	0	1	8	6	9	3	4	12	6	1	4	54	
13-17	---	---	---	---	---	33,094	40,000	38,047	---	60,000	26,563	30,459	
	---	---	37,750	35,600	34,050	43,300	41,808	60,000	39,000	62,000	39,000	42,300	
	---	---	---	---	---	51,659	46,000	72,250	---	74,400	44,500	49,053	
	---	---	37,750	35,600	34,050	41,135	42,603	56,500	39,000	65,467	36,500	44,136	
	---	---	11,667	6,505	1,909	19,968	3,078	18,699	4,243	7,801	9,983	15,440	
	0	0	2	2	2	6	3	9	2	3	4	28	
18-22	---	---	---	31,125	---	---	40,000	44,000	---	---	---	36,825	
	---	---	40,000	36,000	44,000	45,745	48,000	53,000	---	---	48,900	44,000	
	---	---	---	48,500	---	---	60,000	58,200	---	---	---	51,500	
	---	---	40,000	39,000	44,000	45,745	49,333	51,733	---	---	48,900	45,382	
	---	---	---	9,000	---	3,472	10,066	7,184	---	---	17,112	9,227	
	0	0	1	5	1	2	3	3	0	0	2	17	
23-32	---	---	---	---	---	---	---	43,000	---	---	39,550	40,073	
	---	---	---	30,000	---	50,000	58,830	48,000	65,000	76,000	42,000	48,330	
	---	---	---	---	---	---	---	61,000	---	---	48,000	66,000	
	---	---	---	30,000	---	50,000	58,830	50,667	65,000	76,000	43,183	53,301	
	---	---	---	---	---	14,142	14,383	9,292	---	5,657	4,348	14,598	
	0	0	0	1	0	2	2	3	1	2	3	14	
33-47	---	---	---	---	---	42,000	50,000	48,594	---	---	---	46,086	
	---	---	---	47,400	43,250	52,000	50,250	59,150	---	65,000	---	51,250	
	---	---	---	---	---	65,000	53,875	63,500	---	---	---	60,750	
	---	---	---	47,400	43,250	53,000	51,375	57,050	---	65,000	---	52,950	
	---	---	---	3,677	16,617	11,533	2,428	7,412	---	---	---	8,924	
	0	0	0	2	2	3	4	6	0	1	0	18	
48-67	---	---	---	39,891	56,000	---	---	---	---	---	---	43,828	
	---	---	---	43,500	57,000	---	---	67,000	---	75,000	---	56,500	
	---	---	---	49,770	100,000	---	---	---	---	---	---	69,750	
	---	---	---	44,340	71,000	---	---	67,000	---	75,000	---	59,936	
	---	---	---	5,282	25,120	---	---	1,414	---	---	---	18,302	
	0	0	0	4	3	0	0	2	0	1	0	10	
68-99	---	---	---	---	---	---	---	---	---	---	---	40,359	
	---	---	30,000	---	77,000	78,500	64,272	---	---	---	43,000	69,636	
	---	---	---	---	---	---	---	---	---	---	---	78,250	
	---	---	30,000	---	77,000	78,500	64,272	---	---	---	43,000	61,879	
	---	---	---	---	---	4,950	---	---	---	---	---	20,900	
	0	0	1	0	1	2	1	0	0	0	1	6	
>=100	---	---	---	---	---	---	---	---	---	---	---	16,000	
	---	---	---	---	---	---	---	85,250	---	---	16,000	70,500	
	---	---	---	---	---	---	---	---	---	---	---	100,000	
	---	---	---	---	---	---	---	85,250	---	---	16,000	62,167	
	---	---	---	---	---	---	---	20,860	---	---	---	42,616	
	0	0	0	0	0	0	0	2	0	0	1	3	
TOTAL	---	20,375	21,509	23,425	27,094	30,046	37,810	32,313	29,450	35,350	23,625	23,494	
---	24,250	26,200	30,000	34,500	36,000	41,808	41,000	37,440	43,000	32,000	33,000		
---	26,000	30,000	36,000	40,000	43,000	49,000	49,380	46,793	55,000	40,000	41,072		
---	23,929	26,493	31,539	36,745	38,696	42,943	43,478	39,861	47,218	33,941	35,630		
---	3,629	5,182	7,421	11,521	12,705	10,610	12,636	12,394	14,044	10,049	12,012		
0	32	178	177	114	87	83	152	49	45	117	1,034		

TABLE-3.3.3

SALARIES of FULL-TIME EMPLOYED Ph.D. CHEMISTS IN PRIVATE INDUSTRY  
by SUBORDINATES (PROFESSIONALS + TECHNICIANS) and YEARS SINCE BS  
1982 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		
0	---	---	34,725	36,000	44,000	48,600	50,250	53,000	56,000	60,000	44,000	46,150	- 75th %ile
	---	---	31,900	33,600	37,700	40,000	45,000	48,000	49,300	47,000	36,200	37,900	- Median
	---	---	29,550	30,000	33,800	35,825	39,750	40,800	39,600	40,375	32,500	32,668	- 25th %ile
	---	---	31,880	33,565	38,360	43,517	45,857	48,104	49,308	51,562	39,454	40,374	- Mean
	---	---	3,337	7,677	8,445	12,259	9,211	10,273	13,593	15,748	10,555	11,531	- Std Dev
	0	0	72	79	79	53	46	51	27	29	76	512	- Count
1-2	---	---	35,400	39,490	43,000	48,300	52,500	56,875	51,000	50,962	44,025	45,000	
	---	20,000	33,000	36,000	39,500	44,500	45,000	48,500	45,000	48,000	36,000	38,100	
	---	---	31,000	32,138	35,000	40,000	39,725	42,375	40,000	41,100	32,790	33,200	
	---	20,000	33,256	36,159	39,523	45,040	46,395	49,029	46,899	49,748	38,857	40,162	
	---	---	3,316	5,710	7,452	9,216	9,614	11,667	12,220	13,424	8,774	9,678	
	0	1	145	185	151	93	61	72	40	25	94	967	
3-7	---	---	39,875	41,400	47,625	53,775	52,500	55,900	52,600	72,100	51,500	50,000	
	---	31,000	34,500	36,500	41,425	48,650	49,000	49,000	50,000	58,300	43,500	43,000	
	---	---	30,705	33,500	38,000	41,746	44,100	40,000	43,650	40,150	36,000	37,000	
	---	31,000	34,812	37,655	42,463	49,451	50,617	48,706	51,960	56,907	44,189	45,043	
	---	---	5,099	6,164	7,436	11,506	11,769	11,666	14,091	17,047	9,188	11,456	
	0	1	28	79	90	78	47	49	20	20	52	464	
8-12	---	---	---	49,000	51,000	54,000	55,000	61,000	84,000	65,000	57,125	54,000	
	---	---	35,000	41,875	46,000	49,492	50,000	52,000	49,500	56,000	49,900	48,000	
	---	---	---	37,497	41,350	43,080	43,000	48,875	48,000	54,000	41,000	42,000	
	---	---	35,000	43,246	46,451	48,555	49,842	55,335	60,500	61,035	49,458	48,846	
	---	---	4,243	7,495	6,443	9,077	7,508	9,244	23,043	10,945	11,874	10,076	
	0	0	2	30	49	40	19	17	4	11	24	196	
13-17	---	---	---	55,000	51,075	58,000	67,500	62,250	52,000	86,500	70,000	58,410	
	---	---	34,000	46,500	47,500	52,000	57,750	55,000	51,000	56,000	55,000	53,170	
	---	---	---	40,000	42,375	46,000	56,750	51,670	44,000	55,000	53,000	46,375	
	---	---	34,000	47,927	48,272	51,913	60,750	57,178	49,000	65,833	59,555	53,234	
	---	---	---	8,694	7,150	8,181	5,690	7,987	4,761	17,905	11,243	10,025	
	0	0	1	11	18	15	6	13	4	3	11	82	
18-22	---	---	---	46,975	54,200	57,500	76,500	59,500	48,000	65,425	66,000	60,000	
	---	---	34,000	44,850	50,000	50,250	69,000	52,500	45,000	58,000	55,000	51,125	
	---	---	---	40,050	44,520	47,000	61,000	45,500	42,120	53,716	32,000	45,000	
	---	---	34,000	43,288	49,604	52,840	68,000	52,500	45,040	59,698	48,000	52,466	
	---	---	---	4,830	5,752	8,843	11,212	8,382	2,940	7,609	19,313	12,357	
	0	0	1	8	9	9	8	5	3	6	7	56	
23-32	---	---	---	54,500	55,750	69,000	62,000	84,000	---	75,000	72,450	65,000	
	---	---	41,000	48,000	51,000	62,500	60,000	64,200	71,000	64,000	57,000	56,750	
	---	---	---	45,500	42,500	55,000	52,000	54,250	---	56,400	47,200	50,000	
	---	---	41,000	49,875	49,167	62,045	58,218	66,243	71,000	65,133	58,367	58,757	
	---	---	---	6,221	9,341	10,001	7,403	15,541	26,870	9,352	14,220	12,973	
	0	0	1	8	9	11	11	14	2	3	9	68	
33-47	---	---	---	65,250	61,750	76,250	72,000	69,725	78,000	---	68,925	70,000	
	---	---	---	58,000	59,000	60,000	69,500	63,750	70,000	65,000	64,850	63,500	
	---	---	---	45,500	49,500	48,090	61,125	61,900	60,750	---	57,250	59,750	
	---	---	---	56,250	56,833	62,480	68,120	65,900	69,500	65,000	63,675	64,014	
	---	---	---	10,532	7,731	19,307	7,140	5,537	10,320	2,828	6,311	10,908	
	0	0	0	4	6	9	10	10	5	2	4	50	
48-67	---	---	---	---	---	70,250	77,500	72,000	66,450	98,000	76,500	72,000	
	---	60,000	---	---	50,725	59,000	69,500	70,000	59,000	70,000	69,000	65,000	
	---	---	---	---	---	46,250	60,000	62,000	52,000	59,000	62,500	60,000	
	---	60,000	---	---	50,725	58,500	70,056	69,429	59,150	75,667	69,400	66,359	
	---	---	---	---	13,117	12,450	9,942	9,199	7,639	20,108	7,301	11,646	
	0	1	0	0	2	4	9	7	4	3	5	35	
68-99	---	---	---	---	---	78,750	85,250	89,000	80,000	---	---	80,000	
	---	---	---	---	68,800	71,000	62,500	78,000	75,000	69,000	76,000	72,000	
	---	---	---	---	---	57,500	54,225	70,000	70,000	---	---	65,000	
	---	---	---	---	68,800	68,833	67,325	79,200	75,000	69,000	76,000	72,257	
	---	---	---	---	12,445	12,172	17,259	9,960	5,000	---	---	11,285	
	0	0	0	0	2	6	4	5	3	1	2	23	
>=100	---	---	---	---	81,500	97,500	93,000	92,500	83,750	94,250	---	87,625	
	---	---	---	---	66,000	81,000	64,000	77,500	75,925	65,000	83,500	75,000	
	---	---	---	---	45,000	65,500	60,000	68,100	70,463	60,500	---	63,481	
	---	---	---	---	63,800	81,400	66,643	79,800	76,713	72,045	83,500	73,829	
	---	---	---	---	20,327	19,087	30,431	12,254	7,028	21,142	2,121	19,697	
	0	0	0	0	5	5	7	8	4	9	2	40	
TOTAL	---	60,000	35,010	41,000	47,150	55,000	60,000	62,000	60,000	67,000	51,593	51,350	
---	31,000	33,000	36,300	41,050	46,800	50,000	52,000	50,000	54,644	40,450	42,000	42,000	
---	20,000	30,580	32,525	36,613	41,000	42,000	44,000	42,340	44,475	34,150	35,000	35,000	
---	37,000	33,085	37,403	42,269	49,064	52,026	53,479	52,393	56,911	43,961	44,882	44,882	
---	20,664	3,673	7,612	9,117	12,715	13,402	13,852	14,971	16,348	12,969	13,343	13,343	
0	3	250	404	420	323	228	251	116	112	286	2,393	2,393	

TABLE-3.4.1

SALARIES of B.S. CHEMISTS EMPLOYED FULL-TIME in PRIVATE INDUSTRY  
by WORK FUNCTION and YEARS SINCE BS  
1982 Survey of ACS Members

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	---	24,800	32,900	39,000	45,600	49,000	55,000	55,000	70,000	57,500	---	50,000	- 75th %ile
	18,500	24,500	25,500	32,500	38,000	43,000	43,000	45,000	53,820	50,000	---	40,000	- Median
	---	21,000	23,300	27,270	34,000	36,525	38,500	36,750	37,000	42,500	---	31,000	- 25th %ile
	18,500	23,433	27,419	33,473	39,173	43,828	48,567	47,185	56,355	50,492	---	41,921	- Mean
	4,950	2,113	8,208	8,381	7,528	9,691	14,855	12,792	19,426	11,713	---	14,900	- Std Dev
	2	3	21	26	11	18	15	37	15	13	0	161	- Count
Basic research	21,000	23,000	29,040	32,950	40,200	37,600	46,000	49,500	49,000	---	---	31,500	
	20,400	20,900	24,000	30,000	27,400	36,000	36,000	35,300	45,800	54,634	---	23,000	
	18,700	19,400	20,500	23,712	18,500	33,000	34,100	28,850	27,000	---	---	20,000	
	19,832	20,736	24,484	28,901	28,700	35,721	38,700	38,400	40,600	54,634	---	25,917	
	1,920	3,440	5,490	6,440	11,609	2,761	6,393	11,467	11,886	33,226	---	9,746	
	15	39	15	11	4	7	3	5	3	2	0	104	
Applied R&D	22,900	23,300	27,500	33,700	37,200	41,000	41,000	44,000	52,750	42,500	---	35,370	
	21,500	21,600	24,840	27,700	34,500	36,000	36,888	37,000	39,500	38,500	22,176	27,000	
	18,300	19,200	21,690	25,000	29,000	29,800	30,366	33,600	31,230	33,000	---	22,000	
	21,184	21,575	25,112	29,150	33,644	35,947	36,288	39,151	42,627	38,336	22,176	29,337	
	3,468	3,451	4,904	5,520	5,314	7,737	6,778	8,311	15,465	8,567	---	9,478	
	19	123	121	50	43	33	25	59	22	21	1	517	
Mgt Non-R&D	---	26,250	29,700	46,875	46,000	55,000	47,589	67,000	68,750	42,800	---	52,750	
	---	24,000	27,000	34,500	36,900	39,100	39,250	50,000	48,618	40,000	---	40,000	
	---	24,000	22,300	22,500	29,275	33,338	35,000	40,000	40,750	37,236	---	30,000	
	---	24,263	26,369	40,470	40,443	44,103	46,111	51,845	54,625	43,791	---	43,768	
	---	3,424	4,947	23,040	16,789	12,260	20,238	19,644	20,183	11,727	---	19,004	
	0	8	13	10	14	16	16	29	17	7	0	130	
Marketing	---	28,350	29,643	35,000	41,500	43,375	52,000	49,068	55,000	47,250	---	40,000	
	24,100	24,000	27,500	31,800	34,000	39,500	40,000	40,000	41,000	41,000	---	32,300	
	---	17,150	25,000	30,000	30,000	31,500	35,875	36,125	34,000	36,250	---	27,500	
	24,100	23,217	27,468	32,352	35,755	38,875	43,458	41,223	45,063	39,375	---	34,578	
	6,505	6,383	4,243	6,020	8,928	12,254	9,939	8,346	14,925	10,954	---	10,658	
	2	18	31	27	19	16	12	28	8	8	0	169	
Prod & QC	23,100	24,000	29,000	29,705	37,080	37,495	39,615	43,000	51,200	38,000	---	32,483	
	20,026	21,000	25,500	26,375	30,000	32,500	35,500	34,000	44,000	32,500	23,200	26,000	
	19,092	19,200	21,900	23,967	28,000	24,750	28,825	28,150	40,000	30,000	---	22,000	
	20,582	21,473	25,590	27,186	32,308	31,337	35,711	36,326	45,123	34,230	23,200	28,152	
	2,701	3,437	5,013	6,501	8,766	7,694	8,184	10,262	7,476	6,429	---	8,638	
	10	71	71	52	23	26	20	34	7	10	1	325	
Forensic	---	22,915	29,700	26,850	42,000	40,350	---	38,750	---	---	---	30,000	
	14,000	19,700	24,745	24,194	36,000	29,850	25,643	33,950	48,500	33,000	---	24,000	
	---	17,000	20,725	18,000	35,109	22,545	---	26,640	---	---	---	19,300	
	14,000	19,963	25,100	24,099	37,703	30,915	25,643	33,010	48,500	33,000	---	25,266	
	---	4,296	4,985	6,562	4,235	9,309	1,616	7,959	---	---	---	8,026	
	1	24	16	8	4	4	2	6	1	1	0	67	
Writing/Editing	---	---	29,100	---	---	---	---	35,000	---	---	---	36,300	
	21,500	18,500	25,740	22,400	37,586	39,270	37,200	26,130	29,150	40,000	---	26,130	
	---	---	25,000	---	---	---	---	21,060	---	---	---	---	22,400
	21,500	18,500	26,613	22,400	37,586	39,270	37,200	27,397	29,150	40,000	---	30,123	
	4,950	---	2,185	---	3,414	12,346	16,546	7,056	10,112	---	---	9,294	
	2	1	3	1	2	2	3	2	1	0	0	19	
Data Proc	---	---	---	---	---	---	---	---	---	---	---	31,750	
	---	16,000	---	33,000	---	---	---	28,000	---	---	---	23,000	
	---	---	---	---	---	---	---	---	---	---	---	15,000	
	---	16,000	---	33,000	---	---	---	28,000	---	---	---	23,250	
	---	2,828	---	---	---	---	---	---	---	---	---	8,770	
	0	2	0	1	0	0	0	1	0	0	0	4	
Consulting	---	23,000	---	33,400	---	---	---	---	---	---	---	38,750	
	---	18,800	26,225	31,500	40,000	30,000	40,000	30,000	51,900	---	---	30,500	
	---	15,240	---	29,500	---	---	---	---	---	---	---	25,000	
	---	19,013	26,225	31,460	40,000	30,000	40,000	30,000	51,900	---	---	31,912	
	---	3,884	3,147	2,492	---	---	---	---	6,223	---	---	10,346	
	0	3	2	5	1	1	1	1	2	0	0	16	
Other	---	---	28,750	34,750	46,000	---	---	44,000	---	52,210	---	36,250	
	24,900	24,200	26,500	32,348	33,500	35,000	---	37,500	---	38,920	---	29,250	
	---	---	23,250	21,549	21,000	---	---	23,000	---	29,875	---	24,000	
	24,900	24,200	24,625	29,549	33,500	35,000	---	34,500	---	40,335	---	30,861	
	---	3,111	6,368	7,592	12,974	---	---	10,310	---	12,022	---	9,935	
	1	2	8	4	4	1	0	6	0	4	0	30	
No Response	29,000	24,250	28,000	40,000	44,250	40,100	45,000	43,000	53,000	60,000	---	40,850	
	24,500	21,450	25,825	28,000	35,000	35,000	36,000	37,000	43,000	50,000	---	30,000	
	18,875	19,000	22,500	24,000	24,600	27,018	30,000	28,000	33,000	41,496	---	24,000	
	24,125	23,174	25,203	30,577	33,356	33,503	38,090	41,384	44,847	55,028	---	34,202	
	5,266	7,103	4,429	10,158	11,434	10,708	12,201	19,702	18,502	21,472	---	15,636	
	4	18	20	15	9	8	15	23	11	7	0	130	
TOTAL	22,675	24,000	28,800	34,000	40,000	42,620	46,000	48,875	55,000	48,075	---	38,000	
	20,750	21,500	25,450	29,000	34,856	36,000	37,000	40,000	44,500	40,000	22,688	29,000	
	18,300	19,000	22,000	24,825	28,725	30,000	31,000	33,000	36,075	33,950	---	23,000	
	20,882	21,543	25,631	30,095	34,934	37,143	40,201	41,542	47,884	42,623	22,688	32,019	
	3,479	4,089	5,169	8,712	9,373	10,208	12,854	13,690	17,332	13,309	724	12,827	
	---	56	312	321	210	134	132	111	232	88	74	2	1,672





TABLE-3.4.4

SALARIES of M.S. CHEMISTS EMPLOYED FULL-TIME in PRIVATE INDUSTRY  
by WORK FUNCTION and YEARS SINCE BS  
1982 Survey of ACS Members

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	44,400	55,000	56,000	59,636	64,000	42,000	70,250	48,000	53,250	- 75th %ile
	---	24,700	30,000	36,500	40,000	46,212	44,700	47,000	40,000	53,400	39,200	42,800	- Median
	---	---	27,420	32,175	32,000	39,000	41,500	41,750	38,500	42,500	32,000	36,000	- 25th %ile
	---	24,700	32,953	37,533	45,355	47,475	49,530	52,894	41,382	55,275	40,194	45,746	- Mean
	---	6,930	6,897	8,598	21,223	16,906	12,260	14,906	5,445	14,323	9,377	15,101	- Std Dev
	0	2	7	12	11	21	9	29	7	8	16	122	- Count
Basic research	---	25,250	27,900	34,000	36,875	42,000	41,450	53,000	---	60,000	34,600	35,000	
	---	20,350	25,000	30,800	35,250	34,000	36,000	42,750	51,780	55,000	28,920	29,600	
	---	18,250	22,250	28,100	32,900	29,600	31,000	28,025	---	40,000	22,500	24,900	
	---	21,117	25,244	31,191	34,905	34,071	36,150	42,100	51,780	51,667	29,088	30,969	
	---	3,832	4,193	4,113	3,029	6,769	5,400	13,708	---	10,408	6,406	8,980	
	0	6	25	13	9	7	4	6	1	3	15	89	
Applied R&D	---	25,800	30,000	33,113	38,000	40,375	46,320	42,875	45,146	45,000	40,000	39,000	
	---	24,576	25,200	29,550	33,000	32,986	41,008	37,940	36,400	41,040	31,000	31,668	
	---	23,400	23,000	26,000	29,100	30,000	38,735	33,250	27,125	35,500	27,375	26,380	
	---	24,366	26,129	29,674	33,756	34,965	41,848	38,654	37,427	41,709	34,068	33,226	
	---	2,149	4,665	5,531	7,405	7,553	7,490	8,409	10,727	8,721	10,535	9,100	
	0	17	71	70	41	24	29	56	18	21	38	385	
Mgt Non-R&D	---	---	---	42,300	62,000	61,645	50,625	62,500	70,000	78,750	41,913	51,000	
	---	33,400	27,850	35,000	41,000	40,000	49,330	49,440	48,000	68,500	37,500	43,400	
	---	---	---	36,000	34,400	43,002	42,500	32,825	49,250	30,250	36,000	36,000	
	---	33,400	27,850	36,636	47,311	46,418	51,137	51,701	51,350	65,500	35,798	46,830	
	---	---	4,031	8,128	16,616	19,560	14,208	11,604	20,931	15,631	10,874	15,487	
	0	1	2	11	9	5	10	17	6	4	6	71	
Marketing	---	---	34,000	46,750	46,425	47,500	49,500	45,000	58,750	80,000	46,750	45,500	
	---	22,250	31,000	38,500	32,500	41,750	48,000	38,600	38,600	47,000	34,000	36,600	
	---	---	28,750	30,500	29,660	35,750	43,000	34,000	36,300	40,000	25,750	30,750	
	---	22,250	30,864	38,288	37,834	42,083	46,444	40,518	44,550	55,667	36,250	38,785	
	---	1,768	4,232	9,305	13,239	6,344	4,035	11,554	13,736	21,362	12,189	11,344	
	0	2	14	16	10	6	9	17	4	3	12	93	
Prod & QC	---	30,000	27,800	35,000	40,188	36,000	40,050	45,500	34,000	---	40,750	36,000	
	---	26,000	26,400	30,000	33,050	30,046	35,000	41,000	33,000	31,000	33,590	30,223	
	---	20,000	23,150	26,000	31,250	26,000	30,875	29,700	25,454	---	26,250	26,000	
	---	25,333	25,909	29,701	36,301	31,221	36,273	38,983	30,818	31,000	33,460	31,756	
	---	5,033	4,049	6,846	7,943	7,027	10,658	11,310	5,118	1,414	7,098	8,580	
	0	3	25	27	14	7	13	13	4	2	8	116	
Forensic	---	---	30,000	36,400	---	---	---	---	39,250	---	33,125	37,375	
	---	---	26,000	28,000	38,000	30,000	39,000	44,250	33,500	---	25,750	29,000	
	---	---	20,400	25,300	---	---	---	---	24,525	---	21,750	24,000	
	---	---	25,536	30,129	38,000	30,000	39,000	44,250	32,425	---	26,875	30,084	
	---	---	6,995	7,340	0	---	---	9,546	7,719	---	6,033	8,113	
	0	0	11	11	2	1	1	2	4	0	4	36	
Writing/ Editing	---	---	---	---	41,000	36,875	---	---	---	---	31,000	37,720	
	---	---	19,791	19,000	38,000	26,250	25,900	31,500	37,440	---	22,000	25,900	
	---	---	---	---	28,500	20,716	---	---	---	---	21,000	21,450	
	---	---	19,791	19,000	35,833	27,947	25,900	31,500	37,440	---	24,667	28,130	
	---	---	2,983	---	6,526	8,740	---	9,192	---	---	5,508	7,982	
	0	0	2	1	3	4	1	2	1	0	3	17	
Data Proc	---	---	---	---	---	---	---	---	---	---	48,200	37,500	
	---	---	26,000	---	28,000	32,000	---	31,000	---	---	33,000	29,500	
	---	---	---	---	---	---	---	---	---	---	20,400	25,250	
	---	---	26,000	---	28,000	32,000	---	31,000	---	---	33,867	31,325	
	---	---	---	---	---	9,899	---	---	---	---	13,920	8,827	
	0	0	1	0	1	2	0	1	0	0	3	8	
Consulting	---	---	---	44,000	---	---	---	---	---	---	---	36,500	
	---	---	23,300	31,000	27,250	41,000	---	65,000	28,000	30,500	29,000	29,187	
	---	---	---	29,187	---	---	---	---	---	---	---	26,500	
	---	---	23,300	34,729	27,250	41,000	---	65,000	28,000	30,500	29,000	32,907	
	---	---	3,818	8,080	354	---	---	---	---	---	4,243	11,466	
	0	0	2	3	2	1	0	1	1	1	2	13	
Other	---	---	34,000	41,500	46,350	---	60,000	---	---	---	---	37,000	
	---	---	26,500	30,000	30,000	33,440	32,000	32,000	30,360	55,000	25,800	30,360	
	---	---	21,600	26,000	25,500	---	27,563	---	---	---	---	26,250	
	---	---	27,329	32,500	34,740	33,440	39,854	32,000	30,360	55,000	25,800	32,964	
	---	---	8,346	8,047	14,662	9,277	17,587	1,414	---	---	---	11,257	
	0	0	7	3	5	2	3	2	1	1	1	25	
No Response	---	---	30,000	31,250	40,000	43,000	50,500	52,525	---	---	44,400	42,000	
	---	21,500	25,500	27,150	32,000	36,000	43,000	46,375	51,500	37,600	35,000	32,000	
	---	---	23,000	21,900	31,000	32,500	37,692	39,000	---	---	---	26,500	
	---	21,500	25,364	27,960	34,257	39,300	43,751	45,242	51,500	37,600	34,767	34,449	
	---	---	4,348	7,207	4,464	9,889	6,678	9,172	4,950	6,223	10,708	10,343	
	0	1	11	10	7	7	4	6	2	2	9	59	
TOTAL	---	26,000	30,000	36,000	40,000	43,000	49,000	49,380	46,793	55,000	40,000	41,072	
	---	24,250	26,200	30,000	34,500	36,000	41,808	41,000	37,440	43,000	32,000	33,000	
	---	21,200	23,000	26,500	30,000	30,046	37,810	35,125	32,000	37,825	26,000	27,150	
	---	23,929	26,493	31,539	36,745	38,696	42,943	43,478	39,861	47,218	33,941	35,630	
	---	3,629	5,182	7,421	11,521	12,705	10,610	12,636	12,394	14,044	10,049	12,012	
	0	32	178	177	114	87	83	152	49	45	117	1,034	

TABLE-3.4.5

SALARIES OF M.S. CHEMISTS EMPLOYED FULL-TIME IN PRIVATE INDUSTRY - MEN Only  
by WORK FUNCTION and YEARS SINCE BS  
1982 Survey of ACS Members

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	---	---	40,000	45,000	55,000	60,000	59,636	64,500	42,000	70,250	48,000	55,000	- 75th %ile
	---	29,600	31,250	37,000	40,000	46,212	44,700	49,000	40,000	53,400	43,000	44,000	- Median
	---	---	27,253	32,700	32,000	42,000	41,500	42,025	38,500	42,500	34,500	37,810	- 25th %ile
	---	29,600	33,445	38,675	45,355	48,041	49,550	53,301	41,382	55,275	42,300	46,790	- Mean
	---	---	7,420	8,012	21,223	17,488	12,260	15,015	5,445	14,323	9,069	15,016	- Std Dev
	0	1	6	11	11	19	9	28	7	8	13	113	- Count
Basic research	---	25,500	29,550	33,000	36,813	42,500	---	53,000	---	60,000	34,900	35,625	
	---	21,500	25,800	30,800	35,625	35,000	36,300	42,750	51,780	55,000	29,660	30,000	
	---	17,600	23,750	29,200	34,700	27,450	---	28,025	---	40,000	22,500	25,250	
	---	21,540	26,028	31,208	35,633	34,980	36,300	42,100	51,780	51,667	29,502	31,800	
	---	4,124	4,341	3,886	1,197	7,918	8,910	13,708	---	10,408	6,702	9,486	
	0	5	18	11	6	5	2	6	1	3	12	69	
Applied R&D	---	25,900	29,800	33,450	38,025	40,875	47,200	43,100	45,146	45,000	40,100	40,000	
	---	24,646	26,000	29,700	33,500	33,986	41,584	39,000	36,400	41,040	31,500	32,200	
	---	23,200	21,650	25,740	29,275	30,000	39,198	33,500	27,125	35,500	28,500	27,588	
	---	24,283	25,898	29,845	34,473	35,989	42,246	39,065	37,427	41,709	35,467	34,265	
	---	2,483	4,477	5,796	6,733	7,357	7,779	8,233	10,727	8,721	10,368	9,194	
	0	12	45	59	38	20	26	53	18	21	33	325	
Mgt Non-R&D	---	---	---	42,300	62,000	61,645	50,625	62,500	75,000	80,000	44,275	50,875	
	---	33,400	27,850	35,000	41,000	40,000	49,330	49,440	48,000	75,000	39,000	43,700	
	---	---	---	29,200	36,000	34,400	43,002	42,500	37,750	45,000	35,500	37,860	
	---	33,400	27,850	36,636	47,311	46,418	51,137	51,701	54,700	66,667	39,710	47,240	
	---	---	4,031	8,128	16,616	19,560	14,208	11,604	21,528	18,930	5,540	15,185	
	0	1	2	11	9	5	10	17	5	3	5	68	
Marketing	---	---	32,375	48,000	46,425	47,500	49,500	45,000	58,750	80,000	50,000	47,000	
	---	22,250	31,000	40,000	32,500	41,750	48,000	38,600	38,600	47,000	33,000	37,500	
	---	---	29,125	33,500	29,660	35,750	43,000	34,000	36,300	40,000	26,500	32,000	
	---	22,250	30,300	40,585	37,834	42,083	46,444	40,518	44,550	55,667	37,111	39,662	
	---	1,768	4,264	8,564	13,239	6,344	4,035	11,554	13,736	21,362	13,252	11,522	
	0	2	10	13	10	6	9	17	4	3	9	83	
Prod & QC	---	---	28,000	35,000	40,875	36,000	40,050	46,250	34,000	---	40,750	37,125	
	---	25,000	27,000	30,000	32,500	30,046	35,000	41,000	34,000	31,000	33,590	31,625	
	---	---	25,000	26,500	31,000	26,000	30,875	31,770	32,000	---	26,250	27,000	
	---	25,000	26,987	30,353	36,181	31,221	36,275	40,565	33,333	31,000	33,460	32,723	
	---	7,071	3,662	6,238	8,255	7,027	10,698	10,201	1,155	1,414	7,098	8,377	
	0	2	19	23	13	7	13	12	3	2	8	102	
Forensic	---	---	29,500	37,740	---	---	---	---	40,000	---	33,125	37,935	
	---	---	27,000	30,000	38,000	30,000	39,000	44,250	37,000	---	25,750	30,000	
	---	---	23,250	25,300	---	---	---	---	30,000	---	21,750	25,475	
	---	---	26,750	31,206	38,000	30,000	39,000	44,250	35,667	---	26,875	31,444	
	---	---	7,066	8,134	0	---	---	9,546	5,132	---	6,033	8,134	
	0	0	8	7	2	1	1	2	3	0	4	28	
Writing/Editing	---	---	---	---	---	---	---	---	---	---	---	38,500	
	---	---	21,900	19,000	38,000	40,000	---	---	---	---	26,500	26,500	
	---	---	---	---	---	---	---	---	---	---	---	21,175	
	---	---	21,900	19,000	38,000	40,000	---	---	---	---	26,500	28,650	
	---	---	---	---	---	---	---	---	---	---	6,364	8,996	
	0	0	1	1	1	1	0	0	0	0	2	6	
Data Proc	---	---	---	---	---	---	---	---	---	---	---	31,000	
	---	---	26,000	---	28,000	---	---	31,000	---	---	---	28,000	
	---	---	---	---	---	---	---	---	---	---	---	26,000	
	---	---	26,000	---	28,000	---	---	31,000	---	---	---	28,333	
	---	---	---	---	---	---	---	---	---	---	---	2,517	
	0	0	1	0	1	0	0	1	0	0	0	3	
Consulting	---	---	---	44,000	---	---	---	---	---	---	---	31,750	
	---	---	23,300	31,000	27,250	---	---	65,000	28,000	30,500	29,000	28,594	
	---	---	---	29,187	---	---	---	---	---	---	---	26,250	
	---	---	23,300	34,729	27,250	---	---	65,000	28,000	30,500	29,000	32,232	
	---	---	3,818	8,080	354	---	---	---	---	---	4,243	11,704	
	0	0	2	3	2	0	0	1	1	1	2	12	
Other	---	---	35,500	41,500	53,175	---	60,000	---	---	---	---	40,000	
	---	---	26,500	30,000	31,350	40,000	32,000	32,000	30,360	55,000	---	31,000	
	---	---	22,300	26,000	24,000	---	27,565	---	---	---	---	26,766	
	---	---	28,420	32,500	36,175	40,000	39,854	32,000	30,360	55,000	---	34,661	
	---	---	7,422	8,047	16,520	---	17,587	1,414	---	---	---	11,614	
	0	0	5	3	4	1	3	2	1	1	0	20	
No Response	---	---	29,500	31,750	40,000	43,000	52,000	52,525	---	---	44,400	42,000	
	---	21,500	23,000	28,650	32,000	36,000	46,000	46,375	51,500	42,000	35,000	32,000	
	---	---	23,000	21,300	31,000	32,500	40,000	39,000	---	---	24,000	26,900	
	---	21,500	24,833	28,638	34,257	39,300	46,000	45,242	51,500	42,000	34,767	35,025	
	---	---	4,541	7,955	4,464	9,889	6,000	9,172	4,950	---	10,708	10,656	
	0	1	9	8	7	7	3	6	2	1	9	53	
TOTAL	---	26,000	30,000	36,000	40,000	43,900	49,750	50,000	48,000	55,000	40,600	42,525	
	---	24,250	26,600	30,850	35,000	40,000	42,300	42,000	38,500	43,000	33,000	35,000	
	---	21,200	23,250	26,835	30,525	32,000	38,625	35,690	33,000	38,000	27,950	28,000	
	---	24,087	26,827	32,177	37,290	40,218	43,608	44,068	40,782	47,200	35,113	36,886	
	---	3,924	5,043	7,574	11,678	12,971	10,761	12,499	12,369	14,027	9,999	12,201	
	0	24	126	150	104	72	76	145	45	43	97	882	





TABLE-3.4.7

SALARIES of Ph.D. CHEMISTS EMPLOYED FULL-TIME In PRIVATE INDUSTRY  
by WORK FUNCTION and YEARS SINCE BS  
1982 Survey of ACS Members

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	---	---	37,800	47,000	52,350	60,000	67,000	68,825	70,000	75,246	65,000	62,000	- 75th %ile
	---	60,000	34,000	43,000	46,000	53,000	59,000	60,500	51,000	62,950	50,000	51,000	- Median
	---	---	32,500	38,500	40,000	46,000	49,000	50,000	43,800	54,000	42,820	43,050	- 25th %ile
	---	60,000	34,736	43,221	47,468	54,988	58,220	60,502	56,924	64,885	53,461	53,699	- Mean
	---	---	3,773	6,999	9,807	13,124	14,533	15,019	16,916	16,635	14,907	14,665	- Std Dev
	0	1	11	67	110	103	75	88	34	65	592	- Count	
Basic research	---	---	35,925	40,000	47,050	53,175	60,000	55,000	56,000	75,000	48,000	46,000	
	---	31,000	33,000	36,000	41,000	46,210	51,000	49,000	42,525	51,800	37,000	38,000	
	---	---	31,600	32,910	36,738	40,500	41,000	41,600	40,263	41,700	34,100	34,300	
	---	31,000	33,566	36,775	42,352	46,611	51,271	49,430	46,263	58,292	40,570	40,911	
	---	---	3,376	5,745	8,158	8,950	11,108	8,981	9,314	17,009	9,916	9,901	
	0	1	70	98	60	42	23	24	4	9	49	380	
Applied R&D	---	---	34,850	39,025	43,275	48,375	52,000	55,269	51,000	56,400	47,200	45,500	
	---	20,000	32,510	35,000	38,700	43,780	45,600	48,000	45,100	49,000	37,500	38,650	
	---	---	30,285	31,575	35,000	38,050	40,000	41,825	38,400	41,000	32,789	33,375	
	---	20,000	32,746	35,500	39,179	44,088	47,011	48,426	46,914	49,652	40,866	40,524	
	---	---	3,570	5,735	6,494	8,666	9,193	11,153	12,220	11,559	10,727	9,855	
	0	1	142	182	158	112	83	90	44	31	115	958	
Mgt Non-R&D	---	---	---	60,000	52,750	67,625	69,180	65,500	75,500	81,250	56,500	65,000	
	---	---	26,000	44,000	46,000	60,000	55,000	57,540	60,000	70,000	50,000	50,000	
	---	---	---	30,000	39,750	50,000	45,300	46,616	44,875	38,000	36,225	42,590	
	---	---	26,000	44,665	46,557	61,107	56,382	55,743	63,412	62,833	47,650	53,462	
	---	---	---	15,589	9,979	15,974	18,117	12,732	20,599	21,729	14,153	16,993	
	0	0	1	15	14	14	13	11	10	6	12	96	
Marketing	---	---	---	37,000	51,960	54,300	60,000	56,000	52,725	61,456	49,750	51,980	
	---	---	37,050	31,000	47,000	47,700	52,500	49,500	50,950	45,000	44,000	47,000	
	---	---	---	29,000	37,800	33,600	50,000	44,800	50,000	42,875	33,615	37,900	
	---	---	37,050	32,114	45,011	47,341	57,643	50,700	51,225	50,732	42,908	46,220	
	---	---	4,879	4,660	8,326	13,765	17,552	8,068	1,484	11,601	8,792	11,989	
	0	0	2	7	15	11	7	6	4	5	9	65	
Prod & QC	---	---	39,250	39,000	44,932	55,000	65,575	46,450	67,138	---	44,000	45,000	
	---	---	35,800	37,000	40,000	44,000	41,150	34,700	52,500	48,500	35,000	39,900	
	---	---	31,750	31,572	32,500	41,000	30,000	29,500	49,975	---	32,250	32,750	
	---	---	35,767	36,082	38,079	43,428	45,575	37,320	56,538	48,500	39,722	40,958	
	---	---	4,659	3,970	10,328	14,758	19,382	9,775	10,327	13,435	18,830	12,899	
	0	0	6	7	29	11	4	5	4	2	9	77	
Forensic	---	---	36,900	52,600	37,500	44,000	46,200	---	64,000	---	37,250	45,875	
	---	---	33,300	33,500	33,950	43,000	38,000	---	48,000	53,340	32,900	36,800	
	---	---	28,500	28,000	31,600	36,000	37,000	---	44,900	---	28,750	32,125	
	---	---	32,900	38,033	34,350	41,000	40,400	---	52,300	53,340	33,967	39,096	
	---	---	4,580	12,911	3,171	4,359	5,043	---	10,250	5,176	6,818	9,299	
	0	0	4	3	4	3	3	0	3	2	6	28	
Writing/Editing	---	---	---	---	---	33,000	---	---	---	---	---	44,000	
	---	---	---	---	39,500	30,000	37,050	---	52,300	40,000	44,000	40,000	
	---	---	---	---	---	25,000	---	---	---	---	---	33,000	
	---	---	---	---	39,500	29,333	37,050	---	52,300	40,000	44,000	39,064	
	---	---	---	---	3,536	4,041	4,172	---	10,889	---	---	9,216	
	0	0	0	0	2	3	2	0	2	1	1	11	
Data Proc	---	---	---	---	---	---	---	---	---	---	---	52,775	
	---	---	35,040	---	42,000	---	49,000	---	34,000	---	56,550	45,500	
	---	---	---	---	---	---	---	---	---	---	---	34,780	
	---	---	35,040	---	42,000	---	49,000	---	34,000	---	56,550	45,523	
	---	---	---	---	---	---	---	---	---	---	10,677	11,175	
	0	0	1	0	1	0	1	0	1	0	2	6	
Consulting	---	---	29,750	---	41,000	---	---	---	---	---	---	76,250	
	---	---	25,000	36,000	39,750	77,500	---	49,500	---	86,250	---	41,000	
	---	---	24,000	---	25,750	---	---	---	---	---	---	28,563	
	---	---	26,250	36,000	35,500	77,500	---	49,500	---	86,250	---	48,804	
	---	---	3,072	---	9,407	3,536	---	7,778	---	5,303	---	23,592	
	0	0	3	1	4	2	0	2	0	2	0	14	
Other	---	---	---	31,812	42,000	64,000	55,000	61,750	80,000	58,125	---	54,450	
	---	---	32,070	29,500	30,500	44,000	55,000	53,500	52,800	47,375	43,500	42,125	
	---	---	---	25,150	27,000	41,250	47,160	44,625	38,000	39,813	---	33,195	
	---	---	32,070	28,685	33,167	49,750	52,387	53,583	56,933	48,438	43,500	44,884	
	---	---	2,927	3,766	7,848	13,672	4,526	9,436	21,303	9,619	10,607	13,670	
	0	0	2	5	3	4	3	6	3	4	2	32	
No Response	---	---	36,750	41,000	46,925	50,134	56,925	65,000	59,000	66,000	42,400	52,000	
	---	---	32,000	35,000	41,800	45,250	47,500	55,500	52,000	45,400	40,000	42,650	
	---	---	31,125	32,076	35,475	36,660	42,250	42,000	50,400	36,500	35,000	35,150	
	---	---	33,175	37,332	43,450	45,242	49,575	54,209	51,629	50,333	40,593	45,056	
	---	---	3,500	12,017	10,325	13,013	12,149	15,098	8,252	14,715	7,350	12,985	
	0	0	8	19	20	18	14	19	7	12	17	134	
TOTAL	---	---	---	---	---	---	---	---	---	---	---	---	
	---	60,000	35,010	41,000	47,150	55,000	60,000	62,000	60,000	67,000	51,593	51,350	
	---	31,000	33,000	36,300	41,050	46,800	50,000	52,000	50,000	54,644	40,450	42,000	
	---	20,000	30,380	32,525	36,613	41,000	42,000	44,000	42,340	44,475	34,150	35,000	
	---	37,000	33,085	37,403	42,269	49,064	52,026	53,479	52,393	56,911	43,961	44,882	
	0	3	250	404	420	323	228	251	116	112	286	2,393	

TABLE-3.4.8

SALARIES of Ph.D. CHEMISTS EMPLOYED FULL-TIME IN PRIVATE INDUSTRY - MEN Only  
by WORK FUNCTION and YEARS SINCE BS  
1982 Survey of ACS Members

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	---	---	37,800	47,000	52,000	60,000	67,000	69,000	70,000	74,500	65,700	62,050	- 75th %ile
	---	60,000	34,800	43,000	46,000	53,000	59,000	61,000	51,000	62,200	53,000	51,000	- Median
	---	---	31,000	37,900	40,000	46,000	49,000	50,000	43,800	54,000	44,000	44,000	- 25th %ile
	---	60,000	34,371	43,221	47,421	55,027	58,220	60,645	56,924	63,656	55,135	54,038	- Mean
	---	---	4,002	6,977	9,798	13,274	14,533	15,045	16,916	16,004	14,271	14,525	- Std Dev
	0	1	7	60	108	99	75	87	34	36	59	566	- Count
Basic research	---	---	36,000	40,000	47,625	53,175	60,300	55,000	---	75,000	49,000	46,925	
	---	31,000	33,000	36,648	41,500	46,210	53,000	49,000	42,000	51,800	38,000	38,720	
	---	---	31,600	33,000	37,420	40,500	44,220	41,600	---	41,700	34,200	34,500	
	---	31,000	33,651	37,056	42,972	46,611	52,871	49,430	42,000	58,292	41,192	41,425	
	---	---	3,383	5,860	8,194	8,950	10,138	8,981	2,828	17,009	10,394	10,064	
	0	1	62	88	54	42	21	24	2	9	43	346	
Applied R&D	---	---	34,725	39,400	43,425	48,984	51,750	55,346	51,500	56,200	47,400	45,675	
	---	20,000	32,500	35,292	39,000	44,000	45,250	48,000	45,200	49,000	37,700	39,350	
	---	---	30,000	32,000	35,000	38,200	40,000	41,750	39,800	42,500	32,947	33,738	
	---	20,000	32,691	35,763	39,244	44,273	46,661	48,431	47,334	49,362	40,971	40,792	
	---	---	3,608	5,615	6,472	8,726	8,977	11,216	12,415	10,635	10,774	9,857	
	0	1	122	163	148	107	80	89	41	29	110	890	
Mgt Non-R&D	---	---	---	60,000	52,750	67,625	69,180	65,500	75,500	82,500	56,500	65,000	
	---	---	26,000	44,500	46,000	60,000	55,000	57,540	60,000	70,000	50,000	50,000	
	---	---	---	32,125	39,750	50,000	45,300	46,616	44,875	36,000	36,225	43,530	
	---	---	26,000	45,713	46,557	61,107	56,382	55,743	63,412	61,400	47,650	53,535	
	---	---	---	15,620	9,979	15,974	18,117	12,732	20,599	23,975	14,153	16,919	
	0	0	1	14	14	14	13	11	10	5	12	94	
Marketing	---	---	---	35,750	51,960	54,300	60,000	56,000	52,725	61,456	50,000	52,250	
	---	---	37,050	31,000	47,000	47,700	52,500	49,500	50,950	45,000	44,000	48,400	
	---	---	---	29,250	37,800	33,600	50,000	44,800	50,000	42,875	39,660	39,830	
	---	---	37,050	32,000	45,011	47,341	57,643	50,700	51,225	50,732	44,523	47,146	
	---	---	4,879	3,599	8,326	13,765	17,552	8,068	1,484	11,601	8,113	11,731	
	0	0	2	4	15	11	7	6	4	5	7	61	
Prod & QC	---	---	41,750	39,000	44,591	47,500	65,575	46,450	67,138	---	46,000	45,000	
	---	---	36,500	37,000	39,750	43,156	41,150	34,700	52,500	48,500	35,000	39,950	
	---	---	33,125	31,572	32,750	41,000	30,000	29,500	49,975	---	32,625	33,000	
	---	---	37,125	36,082	38,012	44,521	45,575	37,320	56,538	48,500	40,688	40,745	
	---	---	4,516	3,970	10,223	7,443	19,382	9,775	10,327	13,435	19,891	11,952	
	0	0	4	7	26	10	4	5	4	2	8	70	
Forensic	---	---	---	52,600	37,500	44,000	46,200	---	---	---	40,500	46,800	
	---	---	29,000	33,500	33,950	43,000	38,000	---	56,000	53,340	32,800	36,500	
	---	---	---	28,000	31,600	36,000	37,000	---	---	---	28,500	31,600	
	---	---	29,000	38,033	34,350	41,000	40,400	---	56,000	53,340	34,160	39,299	
	---	---	1,414	12,911	3,171	4,359	5,048	---	11,314	5,176	7,604	9,895	
	0	0	2	3	4	3	3	0	2	2	5	24	
Writing/Editing	---	---	---	---	---	---	---	---	---	---	---	43,500	
	---	---	---	---	39,500	31,500	37,050	---	60,000	---	44,000	38,500	
	---	---	---	---	---	---	---	---	---	---	---	33,275	
	---	---	---	---	39,500	31,500	37,050	---	60,000	---	44,000	40,013	
	---	---	---	---	3,536	2,121	4,172	---	---	---	---	9,357	
	0	0	0	0	2	2	2	0	1	0	1	8	
Data Proc	---	---	---	---	---	---	---	---	---	---	---	52,775	
	---	---	35,040	---	42,000	---	49,000	---	34,000	---	56,550	45,500	
	---	---	---	---	---	---	---	---	---	---	---	34,780	
	---	---	35,040	---	42,000	---	49,000	---	34,000	---	56,550	45,523	
	---	---	---	---	---	---	---	---	---	---	10,677	11,175	
	0	0	1	0	1	0	1	0	1	0	2	6	
Consulting	---	---	---	41,000	---	---	---	---	---	---	---	80,000	
	---	---	29,750	36,000	38,500	77,500	---	49,500	---	86,250	---	44,000	
	---	---	---	---	21,500	---	---	---	---	---	---	36,000	
	---	---	29,750	36,000	33,667	77,500	---	49,500	---	86,250	---	53,932	
	---	---	---	---	10,611	3,536	---	7,778	---	5,303	---	23,883	
	0	0	1	3	2	0	2	0	2	0	11		
Other	---	---	---	29,500	---	64,000	55,000	61,750	80,000	58,125	---	55,000	
	---	---	32,070	27,300	28,750	44,000	55,000	53,500	52,800	47,375	43,500	45,500	
	---	---	---	23,000	---	41,250	47,160	44,625	38,000	39,813	---	35,070	
	---	---	32,070	26,600	28,750	49,750	52,387	53,583	56,933	48,438	43,500	45,884	
	---	---	2,927	3,306	2,475	13,672	4,526	9,436	21,303	9,619	10,607	13,902	
	0	0	2	3	2	4	3	6	3	4	2	29	
No Response	---	---	36,750	40,750	47,000	50,201	56,925	65,000	59,000	65,000	41,750	52,000	
	---	---	32,000	34,813	42,000	47,150	47,500	55,500	52,000	44,300	40,000	42,900	
	---	---	31,125	32,307	35,300	41,000	42,250	42,000	50,400	37,000	35,000	35,475	
	---	---	33,175	37,006	43,737	46,990	49,575	54,209	51,629	49,722	39,661	45,225	
	---	---	3,300	12,660	10,525	12,650	12,149	15,098	8,252	13,785	6,472	12,926	
	0	0	8	16	19	16	14	19	7	9	16	124	
TOTAL	---	60,000	35,000	41,400	47,475	55,000	60,000	62,000	60,000	65,000	52,000	52,000	
	---	31,000	33,000	36,696	41,500	46,850	50,000	52,500	50,000	54,288	41,000	42,840	
	---	20,000	30,625	33,000	36,850	41,000	42,000	44,000	43,000	45,000	34,860	35,400	
	---	37,000	33,096	37,677	42,457	49,212	52,125	53,523	52,876	56,562	44,489	45,335	
	---	20,664	3,635	7,647	9,154	12,508	13,384	13,899	15,190	15,825	13,115	13,347	
	0	3	212	359	396	310	223	249	109	103	265	2,229	

TABLE-3.4.9

SALARIES OF Ph.D. CHEMISTS EMPLOYED FULL-TIME IN PRIVATE INDUSTRY - WOMEN Only  
by WORK FUNCTION and YEARS SINCE BS  
1982 Survey of ACS Members

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	---	---	39,250	48,000	---	64,000	---	---	---	---	34,000	52,000	- 75th %ile
	---	---	34,000	42,000	50,000	57,708	---	48,000	---	98,000	31,000	41,000	- Median
	---	---	32,875	39,000	---	40,440	---	---	---	---	23,000	34,000	- 25th %ile
	---	---	35,375	43,214	50,000	54,049	---	48,000	---	98,000	29,333	44,769	- Mean
	---	---	3,816	7,756	14,142	12,199	---	---	---	---	5,686	16,138	- Std Dev
	0	0	4	7	2	3	0	1	0	1	3	21	- Count
Basic research	---	---	34,854	36,125	41,500	---	---	---	---	---	39,250	37,700	
	---	---	33,910	34,177	36,650	---	34,475	---	41,050	---	37,000	34,454	
	---	---	29,775	31,500	31,000	---	---	---	---	---	32,980	32,000	
	---	---	32,900	34,284	36,330	---	34,475	---	41,050	---	36,292	34,811	
	---	---	3,471	4,014	6,222	---	6,399	---	---	---	3,348	4,335	
	0	0	8	10	5	0	2	0	1	0	5	31	
Applied R&D	---	---	35,300	35,800	38,425	47,280	---	---	---	---	50,685	37,988	
	---	---	33,100	32,000	37,250	35,000	58,500	48,000	37,951	---	38,370	33,800	
	---	---	30,600	28,710	31,275	32,640	---	---	---	---	28,500	30,305	
	---	---	33,077	33,202	36,900	38,307	58,500	48,000	37,951	---	39,185	35,639	
	---	---	3,401	6,773	7,363	7,860	16,263	---	---	---	11,983	8,171	
	0	0	20	17	8	3	2	1	1	0	4	56	
Mgt Non-R&D	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	30,000	---	---	---	---	---	---	---	---	30,000
	---	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	30,000	---	---	---	---	---	---	---	---	30,000
	0	0	0	1	0	0	0	0	0	0	0	1	
Marketing	---	---	---	39,600	---	---	---	---	---	---	---	---	37,600
	---	---	---	31,000	---	---	---	---	---	---	---	31,600	31,300
	---	---	---	26,200	---	---	---	---	---	---	---	---	27,400
	---	---	---	32,267	---	---	---	---	---	---	---	31,600	32,100
	---	---	---	6,789	---	---	---	---	---	---	---	---	5,553
	0	0	0	3	0	0	0	0	0	0	1	4	
Prod & QC	---	---	---	---	---	---	---	---	---	---	---	---	40,800
	---	---	33,050	---	34,000	---	---	---	---	---	---	32,000	32,000
	---	---	---	---	---	---	---	---	---	---	---	---	26,250
	---	---	33,050	---	34,000	---	---	---	---	---	---	32,000	33,220
	---	---	5,020	---	15,556	---	---	---	---	---	---	---	8,215
	0	0	2	0	2	0	0	0	0	0	1	5	
Forsenic	---	---	---	---	---	---	---	---	---	---	---	---	42,925
	---	---	36,800	---	---	---	---	---	44,900	---	33,000	36,800	36,800
	---	---	---	---	---	---	---	---	---	---	---	---	33,900
	---	---	36,800	---	---	---	---	---	44,900	---	33,000	37,875	37,875
	---	---	283	---	---	---	---	---	---	---	---	---	5,017
	0	0	2	0	0	0	0	0	1	0	1	4	
Writing/Editing	---	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	25,000	---	---	44,600	---	---	---	34,800
	---	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	25,000	---	---	44,600	---	---	---	34,800
	0	0	0	0	0	1	0	0	1	0	0	13,899	2
Data Proc	---	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---	---
	0	0	0	0	0	0	0	0	0	0	0	0	
Consulting	---	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	24,500	---	---	---	---	---	---	---	---	---	24,500
	---	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	24,500	---	---	---	---	---	---	---	---	---	24,500
	---	---	707	---	---	---	---	---	---	---	---	---	707
	0	0	2	0	0	0	0	0	0	0	0	2	
Other	---	---	---	---	---	---	---	---	---	---	---	---	42,000
	---	---	---	31,812	42,000	---	---	---	---	---	---	---	32,880
	---	---	---	---	---	---	---	---	---	---	---	---	30,744
	---	---	---	31,812	42,000	---	---	---	---	---	---	---	35,208
	---	---	---	1,510	---	---	---	---	---	---	---	---	5,978
	0	0	0	2	1	0	0	0	0	0	0	3	
No Response	---	---	---	50,000	---	---	---	---	---	---	---	---	50,000
	---	---	---	35,200	38,000	31,260	---	---	---	---	---	55,500	35,640
	---	---	---	32,000	---	---	---	---	---	---	---	---	32,000
	---	---	---	39,067	38,000	31,260	---	---	---	---	---	55,500	39,031
	---	---	---	2,603	---	6,194	---	---	---	---	---	---	10,131
	0	0	0	3	1	2	0	0	0	0	1	7	
TOTAL	---	---	35,550	38,800	42,000	52,494	64,250	---	44,825	---	40,025	39,000	
	---	---	33,500	33,800	38,000	35,640	43,000	48,000	42,825	98,000	33,100	34,435	
	---	---	30,435	30,500	35,000	29,760	32,213	---	38,726	---	31,150	30,934	
	---	---	33,025	35,288	38,150	40,510	46,488	48,000	42,125	98,000	36,144	36,680	
	---	---	3,924	7,180	8,614	13,397	17,153	---	3,287	---	8,714	9,756	
	0	0	38	43	19	9	4	2	4	1	16	136	

TABLE-3.5.1

SALARIES of FULL-TIME EMPLOYED B.S. CHEMISTS IN PRIVATE INDUSTRY  
by WORK SPECIALTY and YEARS SINCE BS  
1982 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	23,500	23,681	26,500	---	---	---	---	---	---	---	---	27,000 - 75th %ile
	20,000	20,113	23,750	22,000	---	45,075	---	30,250	---	54,000	---	22,725 - Median
	19,000	17,125	20,125	---	---	---	---	---	---	---	---	19,500 - 25th %ile
	21,000	20,306	24,125	22,000	---	45,075	---	30,250	---	54,000	---	26,342 - Mean
	3,000	3,573	4,948	---	---	6,965	---	19,445	---	---	---	10,695 - Std Dev
	5	4	8	1	0	2	0	2	0	1	0	23 - Count
Agricultural/ food chemistry	---	23,000	33,875	33,375	74,750	49,875	47,000	48,600	62,500	51,000	---	40,000
	20,500	20,220	26,500	27,680	45,000	42,500	36,000	35,000	48,309	38,150	---	28,000
	---	17,000	23,175	24,300	28,750	31,500	27,000	26,000	53,000	35,000	---	22,875
	20,500	19,995	27,769	29,934	49,500	41,500	36,667	40,514	47,140	42,030	---	33,234
	---	4,465	6,496	9,955	24,583	9,918	10,017	20,142	17,149	8,672	---	15,217
	1	19	16	12	4	8	3	13	8	5	0	89
Analytical chemistry	23,000	24,000	28,425	33,000	38,750	37,650	42,000	48,500	50,000	42,500	---	35,000
	21,000	21,000	24,995	28,000	34,530	33,000	36,794	37,000	41,380	37,000	22,176	27,000
	18,000	19,000	21,000	24,675	28,125	26,212	29,226	32,000	38,250	31,000	---	22,125
	20,563	21,499	25,031	29,228	33,857	32,692	36,544	38,964	45,892	38,065	22,176	29,487
	3,729	3,496	5,490	7,114	8,160	8,344	8,427	11,281	14,671	8,228	---	10,067
	19	106	122	74	44	45	36	59	18	17	1	541
Environmental chemistry	---	21,950	30,000	32,350	43,750	---	45,000	46,725	46,375	---	---	37,500
	18,000	19,400	27,250	29,500	38,900	---	42,600	38,000	36,000	30,920	---	29,000
	---	15,800	21,450	24,900	29,550	---	42,000	36,500	27,890	---	---	21,900
	18,000	19,085	26,780	29,172	38,875	---	43,200	40,879	36,755	30,920	---	30,095
	---	4,495	6,407	5,165	13,430	---	1,587	10,167	9,998	22,514	---	10,902
	1	17	22	18	8	0	3	14	4	2	0	89
Organic chemistry	21,980	22,857	29,550	37,000	47,250	45,000	50,750	44,190	60,500	48,500	---	40,800
	21,000	21,650	26,350	34,000	34,500	40,000	40,150	40,000	51,600	41,748	---	31,000
	17,500	20,000	24,000	30,000	26,438	33,000	33,875	34,480	41,500	34,750	---	24,150
	20,803	21,442	26,672	33,796	36,638	41,046	45,115	43,145	51,844	43,253	---	34,690
	3,538	2,615	4,468	7,948	9,624	10,380	17,366	16,265	17,437	10,385	---	14,513
	11	32	42	23	12	15	16	26	18	14	0	209
Inorganic chemistry	24,500	24,000	28,000	37,200	39,000	---	48,000	50,000	81,000	55,125	---	40,000
	22,000	22,000	25,700	30,000	34,000	60,000	43,000	36,000	75,000	40,250	---	29,000
	20,250	20,825	22,250	21,000	20,000	---	36,300	32,400	55,000	29,500	---	22,000
	22,250	21,650	24,589	29,843	31,000	60,000	42,433	43,953	70,333	41,625	---	33,847
	2,217	2,898	4,453	7,645	10,520	---	5,871	18,840	13,614	13,972	---	16,571
	4	16	9	7	4	1	3	17	3	4	0	68
Pharmaceutical/ medicinal/ clinical chemistry	19,675	22,020	25,500	31,963	33,750	42,500	46,250	60,000	67,500	---	---	35,000
	18,050	20,200	24,500	26,375	26,950	36,000	36,550	40,000	47,150	32,000	---	25,900
	17,076	19,000	22,800	23,239	21,250	33,000	32,525	35,300	39,750	---	---	21,300
	18,267	21,598	24,606	30,055	27,009	37,700	38,463	43,757	52,883	32,000	---	29,906
	1,370	5,388	3,539	14,398	6,474	7,984	6,801	13,885	20,586	---	---	12,930
	4	27	19	24	8	11	8	7	6	1	0	115
Physical chemistry	---	25,840	26,750	31,980	40,500	44,250	50,875	52,116	---	---	---	37,000
	20,000	23,000	24,000	29,000	36,700	39,500	33,750	51,000	36,560	---	---	29,000
	---	20,270	19,150	24,000	30,000	32,500	27,988	48,000	---	---	---	22,500
	20,000	23,051	23,300	28,327	35,540	38,750	37,538	50,372	36,560	---	---	30,166
	---	5,170	4,028	4,032	5,395	6,131	12,603	2,129	9,108	---	---	10,273
	1	17	4	3	5	4	4	3	2	0	0	43
Theoretical chemistry	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---
	0	0	0	0	0	0	0	0	0	0	0	0
Polymer/ macromolecular chemistry	24,350	25,000	29,010	34,500	40,550	45,875	43,000	50,000	58,150	62,000	---	42,050
	21,600	22,500	26,000	31,000	35,200	40,000	38,500	42,750	40,000	48,000	23,200	33,225
	19,575	20,160	23,875	25,300	29,500	34,425	30,732	36,775	31,800	39,000	---	25,000
	22,183	22,470	26,487	29,781	36,257	40,460	38,737	45,270	46,421	51,566	23,200	35,721
	3,564	3,381	4,422	6,365	8,103	11,646	10,316	14,120	19,939	19,491	---	14,242
	6	35	42	29	29	26	23	48	17	17	1	273
Other chemistry	28,725	24,800	28,900	35,000	38,580	39,750	70,000	44,400	52,115	42,400	---	39,000
	21,600	21,000	26,500	30,000	33,250	34,675	36,000	40,000	40,250	37,236	---	30,000
	18,075	18,700	21,920	24,600	29,223	30,000	30,000	33,000	36,075	33,000	---	24,875
	22,800	22,240	25,210	31,297	33,680	35,610	47,280	39,068	44,985	38,487	---	32,888
	5,760	5,244	4,955	11,684	4,811	10,090	20,613	10,309	16,800	6,524	---	12,588
	4	39	37	19	20	20	15	43	12	13	0	222
TOTAL	22,675	24,000	28,800	34,000	40,000	42,620	46,000	48,875	55,000	48,075	---	38,000
20,750	21,500	25,450	29,000	34,856	36,000	37,000	40,000	44,500	40,000	22,688	29,000	
18,300	19,000	22,000	24,825	28,725	30,000	31,000	33,000	36,075	33,950	---	23,000	
20,882	21,543	25,631	30,095	34,934	37,143	40,201	41,542	47,884	42,623	22,688	32,019	
3,479	4,089	5,169	8,712	9,373	10,208	12,854	13,690	17,332	13,309	724	12,827	
56	312	321	210	134	132	111	232	88	74	2	1,672	

TABLE-3.5.2

SALARIES of FULL-TIME EMPLOYED B.S. CHEMISTS IN PRIVATE INDUSTRY - MEN Only  
by WORK SPECIALTY and YEARS SINCE BS  
1982 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	24,750	---	29,250	---	---	---	---	---	---	---	---	34,000 - 75th %ile
	20,500	20,500	23,000	22,000	---	45,075	---	---	---	54,000	---	23,000 - Median
	18,500	---	20,750	---	---	---	---	---	---	---	---	20,000 - 25th %ile
	21,250	20,500	24,600	22,000	---	45,075	---	---	---	54,000	---	27,677 - Mean
	3,403	4,950	5,561	---	---	6,965	---	---	---	---	---	11,581 - Std Dev
	4	2	5	1	0	2	0	0	0	1	0	15 - Count
Agricultural/ food chemistry	---	24,250	36,250	35,500	83,000	52,000	---	48,900	65,000	51,000	---	46,500
	---	20,256	27,400	30,900	50,000	42,000	41,500	35,250	48,618	38,150	---	33,000
	---	17,150	23,175	24,525	40,000	30,000	---	27,000	33,000	35,000	---	24,000
	---	20,665	28,650	31,988	57,667	41,286	41,500	42,058	50,731	42,030	---	35,990
	---	4,968	7,211	11,783	22,502	10,692	7,778	20,217	14,924	8,672	---	15,984
	0	13	12	8	3	7	2	12	7	5	0	69
Analytical chemistry	23,000	24,000	29,625	34,000	39,500	38,000	42,000	48,500	50,000	42,250	---	36,350
	20,700	22,000	25,100	28,280	34,500	33,000	36,700	37,000	41,080	38,500	22,176	28,968
	19,125	19,600	21,093	25,000	28,000	27,500	29,452	32,000	36,750	32,250	---	23,400
	20,430	21,892	25,644	29,757	33,749	33,527	36,703	38,964	45,916	38,614	22,176	30,863
	2,850	3,375	5,516	7,293	8,391	7,554	8,474	11,281	15,547	8,416	---	10,222
	10	62	94	64	37	39	33	59	16	14	1	429
Environmental chemistry	---	21,925	30,000	34,250	50,000	---	45,000	49,150	46,375	---	---	38,000
	18,000	18,500	27,000	30,650	37,500	---	42,600	38,000	36,000	30,920	---	29,822
	---	15,900	22,450	27,975	25,000	---	42,000	37,000	27,890	---	---	21,975
	18,000	19,360	27,192	30,750	38,500	---	43,200	42,177	36,755	30,920	---	31,075
	---	4,309	5,835	4,615	15,869	---	1,587	9,296	9,998	22,514	---	11,119
	1	14	17	14	6	0	3	13	4	2	0	74
Organic chemistry	25,950	24,500	29,325	37,250	47,250	45,000	50,750	44,380	61,000	47,175	---	42,000
	21,500	22,000	26,350	34,500	34,500	40,000	40,150	40,000	52,000	41,148	---	33,500
	18,776	20,000	24,000	30,150	26,438	33,000	33,875	33,959	41,500	34,250	---	25,200
	22,190	21,671	26,651	34,314	36,638	41,046	45,115	43,471	52,424	40,295	---	36,177
	4,299	3,036	4,519	7,728	9,624	10,380	17,366	16,514	17,794	6,776	---	14,486
	5	19	36	22	12	15	16	25	17	12	0	179
Inorganic chemistry	---	24,300	28,500	37,200	39,000	---	48,000	50,000	81,000	55,125	---	40,500
	21,000	21,000	26,100	30,000	34,000	60,000	43,000	36,000	75,000	40,250	---	32,000
	---	18,000	24,150	21,000	20,000	---	36,300	32,400	55,000	29,500	---	24,000
	21,000	21,164	25,100	29,843	31,000	60,000	42,433	43,953	70,333	41,625	---	35,585
	---	3,348	4,469	7,645	10,520	---	5,871	18,840	13,614	13,972	---	17,135
	1	11	8	7	4	1	3	17	3	4	0	59
Pharmaceutical/ medicinal/ clinical chemistry	---	24,000	25,750	32,200	30,000	42,750	48,000	60,000	67,500	---	---	37,500
	17,184	21,000	24,460	26,600	26,400	36,000	37,500	40,000	47,150	32,000	---	27,500
	---	20,000	21,900	23,478	20,000	31,500	34,100	35,300	39,750	---	---	22,800
	17,184	22,637	24,085	30,842	25,843	38,078	39,386	43,757	52,883	32,000	---	31,788
	305	6,784	3,601	15,068	6,017	8,862	6,783	13,885	20,586	---	---	13,985
	2	15	12	21	7	9	7	7	6	1	0	87
Physical chemistry	---	27,900	26,750	31,980	39,000	45,000	50,875	52,116	---	---	---	38,500
	---	23,100	24,000	29,000	30,000	42,000	33,750	51,000	36,560	---	---	29,000
	---	21,300	19,150	24,000	30,000	37,000	27,988	48,000	---	---	---	23,100
	---	24,526	23,300	28,327	33,000	41,333	37,538	50,372	36,560	---	---	31,269
	---	4,300	4,028	4,032	5,196	4,041	12,603	2,129	9,108	---	---	10,073
	0	13	4	3	3	3	4	3	2	0	0	35
Theoretical chemistry	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---
	0	0	0	0	0	0	0	0	0	0	0	0
Polymer/ macromolecular chemistry	27,250	24,750	30,000	35,800	41,500	45,500	46,000	53,000	55,975	58,750	---	43,000
	22,250	22,500	26,500	31,000	35,200	40,000	38,500	42,750	38,500	47,500	23,200	34,800
	19,125	21,746	23,500	25,500	30,000	35,000	31,866	36,775	31,700	39,000	---	26,850
	22,875	23,242	26,759	30,021	36,402	41,133	39,350	45,829	44,635	50,789	23,200	36,904
	4,339	3,184	4,727	6,701	8,260	10,744	10,324	14,474	19,136	19,856	---	14,204
	4	21	34	25	27	23	21	44	16	16	1	232
Other chemistry	---	24,400	29,000	34,287	38,580	44,000	70,000	44,000	53,820	42,600	---	40,000
	24,000	21,000	26,750	30,000	33,250	36,000	40,500	40,000	40,000	38,200	---	32,074
	---	18,300	23,500	24,500	30,050	31,500	31,350	33,000	36,000	32,500	---	26,098
	24,000	22,068	25,562	31,565	34,069	37,627	48,836	39,022	45,393	38,592	---	34,123
	8,485	5,748	5,021	12,638	4,461	9,396	20,457	9,646	17,557	6,802	---	12,990
	2	29	26	16	16	17	14	39	11	12	0	182
TOTAL	22,950	24,000	29,000	35,000	40,000	43,000	47,000	49,000	55,125	48,000	---	40,000
	21,000	22,000	26,000	30,000	34,560	36,850	37,500	40,000	45,400	40,000	22,688	30,600
	18,000	19,200	22,850	25,000	28,800	30,250	32,500	33,000	36,000	34,000	---	24,354
	21,142	21,954	26,034	30,745	34,993	38,059	40,863	41,925	48,084	42,155	22,688	33,538
	3,735	4,373	5,221	9,046	9,795	9,720	12,972	13,669	17,425	13,086	724	13,113
	29	199	248	181	115	116	103	219	82	67	2	1,361

TABLE-3.5.3

SALARIES of FULL-TIME EMPLOYED B.S. CHEMISTS IN PRIVATE INDUSTRY - WOMEN ONLY  
by WORK SPECIALTY and YEARS SINCE BS  
1982 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	---	---	18,000	---	---	---	---	---	---	---	---	17,484	- 75th %ile	
	20,000	20,113	25,000	---	---	---	---	30,250	---	---	---	21,363	- Median	
	---	---	27,000	---	---	---	---	---	---	---	---	26,500	- 25th %ile	
	20,000	20,113	23,333	---	---	---	---	30,250	---	---	---	23,841	- Mean	
	---	3,695	4,726	---	---	---	---	19,445	---	---	---	8,960	- Std Dev	
	1	2	3	0	0	0	0	2	0	0	0	8	- Count	
Agricultural/ food chemistry	---	16,269	22,458	23,477	---	---	---	---	---	---	---	19,243		
	20,500	19,460	25,600	26,280	25,000	43,000	27,000	21,977	22,000	---	---	22,375		
	---	20,649	27,500	27,840	---	---	---	---	---	---	---	26,750		
	20,500	18,542	25,125	25,828	25,000	43,000	27,000	21,977	22,000	---	---	23,727		
	---	2,974	2,809	2,376	---	---	---	---	---	---	---	5,946		
	1	6	4	4	1	1	1	1	1	0	0	20		
Analytical chemistry	15,750	17,353	19,810	22,112	28,500	16,303	---	---	---	---	---	17,488		
	22,000	20,083	22,000	24,500	35,000	28,410	39,944	---	45,700	37,250	---	22,300		
	23,550	24,203	25,848	31,013	38,000	36,840	---	---	---	---	---	26,550		
	20,711	20,849	23,082	25,839	34,431	27,263	39,944	---	45,700	37,250	---	24,181		
	4,700	3,612	5,015	4,842	7,363	11,752	4,322	---	5,798	10,960	---	7,457		
	9	44	27	10	7	6	2	0	2	2	0	109		
Environmental chemistry	---	11,000	16,431	21,297	---	---	---	---	---	---	---	17,895		
	---	19,400	28,800	23,600	40,000	---	---	24,000	---	---	---	23,500		
	---	23,000	32,700	26,091	---	---	---	---	---	---	---	28,950		
	---	17,800	25,380	23,647	40,000	---	---	24,000	---	---	---	24,206		
	---	6,158	8,726	2,599	---	---	---	---	---	---	---	7,750		
	0	3	5	4	1	0	0	1	0	0	0	14		
Organic chemistry	17,073	19,381	22,195	---	---	---	---	---	---	---	---	20,000		
	21,000	21,400	27,150	22,400	---	---	---	35,000	---	---	---	21,500		
	21,245	22,600	30,750	---	---	---	---	---	---	---	---	23,000		
	19,647	21,108	26,800	22,400	---	---	---	35,000	---	---	---	22,610		
	2,592	1,906	4,554	---	---	---	---	---	---	---	---	4,480		
	6	13	6	1	0	0	0	1	0	0	0	27		
Inorganic chemistry	20,000	21,825	---	---	---	---	---	---	---	---	---	20,956		
	23,000	22,000	20,500	---	---	---	---	---	---	---	---	22,000		
	25,000	24,000	---	---	---	---	---	---	---	---	---	24,000		
	22,667	22,720	20,500	---	---	---	---	---	---	---	---	22,456		
	2,517	1,180	---	---	---	---	---	---	---	---	---	1,679		
	3	5	1	0	0	0	0	0	0	0	0	9		
Pharmaceutical/ medical/ clinical chemistry	---	18,331	24,000	---	---	---	---	---	---	---	---	19,000		
	19,350	19,584	24,500	20,750	35,172	36,000	32,000	---	---	---	---	22,000		
	---	21,825	25,500	---	---	---	---	---	---	---	---	25,500		
	19,350	20,299	25,500	20,750	35,172	36,000	32,000	---	---	---	---	23,758		
	919	2,592	3,512	6,010	---	1,414	---	---	---	---	---	5,905		
	2	12	7	2	1	2	1	0	0	0	0	27		
Physical chemistry	---	13,078	---	---	---	---	---	---	---	---	---	17,516		
	20,000	19,250	---	---	39,350	31,000	---	---	---	---	---	22,010		
	---	22,765	---	---	---	---	---	---	---	---	---	35,275		
	20,000	18,255	---	---	39,350	31,000	---	---	---	---	---	25,340		
	---	5,337	---	---	3,748	---	---	---	---	---	---	10,374		
	1	4	0	0	2	1	0	0	0	0	0	8		
Theoretical chemistry	---	---	---	---	---	---	---	---	---	---	---	---		
	---	---	---	---	---	---	---	---	---	---	---	---		
	---	---	---	---	---	---	---	---	---	---	---	---		
	---	---	---	---	---	---	---	---	---	---	---	---		
	0	0	0	0	0	0	0	0	0	0	0	0		
Polymer/ macromolecular chemistry	---	18,899	23,600	23,000	---	---	---	---	---	---	---	19,528		
	20,800	21,600	25,350	27,600	34,300	34,900	32,300	---	75,000	---	---	24,650		
	---	25,000	27,625	31,000	---	---	---	---	---	---	---	27,800		
	20,800	21,312	25,331	27,200	34,300	34,900	32,300	---	75,000	---	---	26,282		
	1,131	3,448	2,704	4,015	7,495	---	10,889	---	---	---	---	10,426		
	2	14	8	3	2	1	2	0	1	0	0	33		
Other chemistry	---	19,625	19,200	24,600	26,445	21,000	---	21,060	---	---	---	21,000		
	21,600	21,750	25,740	30,000	31,250	21,000	25,500	53,000	40,500	37,236	---	25,740		
	---	26,075	28,200	35,000	38,750	30,540	---	56,000	---	---	---	30,000		
	21,600	22,742	24,380	29,867	32,125	24,180	25,500	43,353	40,500	37,236	---	27,250		
	4,667	3,597	4,930	5,201	6,562	5,508	---	19,365	---	---	---	8,786		
	2	10	11	3	4	3	1	3	1	1	0	39		
TOTAL	18,700	16,875	19,570	22,750	27,669	19,566	25,500	20,648	32,406	29,500	---	18,313		
	20,500	20,460	25,000	25,000	35,086	32,660	32,000	29,500	41,600	37,236	---	23,000		
	22,000	23,126	27,375	28,000	39,700	35,500	40,000	50,750	62,400	45,000	---	27,000		
	20,603	20,820	24,323	25,607	34,277	29,787	32,713	33,942	45,780	37,245	---	24,581		
	3,230	3,437	4,778	4,410	6,483	9,467	7,386	15,419	19,241	7,750	---	7,665		
	---	---	---	---	---	---	---	---	---	---	---	---	294	
	27	113	72	27	18	14	7	8	5	3	0	294		

TABLE-3.5.4

SALARIES of M.S. CHEMISTS EMPLOYED FULL-TIME in PRIVATE INDUSTRY  
by WORK SPECIALTY and YEARS SINCE BS  
1982 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	---	---	26,250	49,000	---	---	47,475	---	---	---	30,750	40,000 - 75th %-ile
	---	19,200	21,900	32,500	48,500	65,000	42,350	28,000	---	46,600	29,500	29,000 - Median
	---	---	19,500	26,900	---	---	38,500	---	---	---	23,750	22,000 - 25th %-ile
	---	19,200	23,356	36,433	48,500	65,000	42,775	28,000	---	46,600	28,000	33,623 - Mean
	---	---	5,344	11,254	27,577	---	4,685	8,485	---	18,950	4,082	13,738 - Std Dev
	0	1	9	6	2	1	4	2	0	2	4	31 - Count
Agricultural/ food chemistry	---	---	26,600	38,305	65,000	---	49,250	46,250	---	---	36,500	41,000
	---	---	25,000	30,300	41,000	43,500	37,367	40,000	36,800	31,000	32,000	34,000
	---	---	18,000	28,150	37,000	---	33,000	34,000	---	---	25,250	26,600
	---	---	25,623	32,126	47,667	43,500	39,622	40,611	36,800	31,000	31,250	34,905
	---	---	9,787	6,897	15,144	12,021	8,129	12,267	---	---	6,944	10,553
	0	0	7	14	3	2	6	9	1	1	8	51
Analytical chemistry	---	27,000	29,245	35,000	37,965	41,625	45,000	44,875	40,000	40,750	33,500	36,100
	---	23,050	26,200	30,000	32,500	35,900	39,000	38,250	34,000	33,500	28,000	30,650
	---	20,750	23,000	26,000	30,000	30,035	33,100	31,875	24,000	30,375	25,400	26,000
	---	23,850	26,281	30,262	34,738	35,310	39,786	39,754	33,685	36,417	29,470	32,341
	---	3,854	4,324	6,662	8,063	6,557	11,929	10,566	7,929	9,415	6,780	8,958
	0	6	58	59	28	22	19	36	15	6	21	270
Environmental chemistry	---	---	31,000	42,150	50,500	43,290	50,000	43,500	---	---	39,000	42,075
	---	---	24,500	33,300	40,600	42,000	40,000	41,000	30,360	80,000	36,000	35,500
	---	---	20,400	29,594	35,000	35,000	27,563	32,250	---	---	26,000	28,875
	---	---	24,800	36,637	47,067	40,097	39,188	40,600	30,360	80,000	34,686	37,409
	---	---	7,037	8,881	21,301	4,461	11,241	10,279	---	---	8,432	14,133
	0	0	11	13	9	3	3	10	1	1	7	58
Organic chemistry	---	25,893	32,000	32,583	41,659	58,000	51,000	48,250	58,300	55,000	46,100	45,750
	---	24,684	30,000	30,000	37,375	40,000	43,400	39,500	48,000	40,000	30,950	36,375
	---	23,394	25,000	23,525	31,250	35,250	40,000	34,750	36,000	38,000	25,250	30,000
	---	24,657	28,780	29,287	38,063	46,769	44,641	42,816	47,687	46,286	33,466	39,079
	---	1,334	3,872	6,121	9,357	18,272	7,408	10,956	12,296	14,477	10,301	12,608
	0	4	15	16	16	16	17	30	11	7	16	148
Inorganic chemistry	---	---	32,000	29,325	---	---	56,700	55,000	---	43,000	51,100	44,000
	---	---	26,580	26,150	30,000	36,500	45,400	47,000	41,000	40,000	40,700	38,400
	---	---	24,000	23,500	---	---	41,000	40,000	---	37,650	23,625	26,540
	---	---	27,626	26,325	30,000	36,500	47,700	46,571	41,000	40,217	39,450	37,509
	---	---	3,803	3,015	8,485	10,607	8,662	11,271	1,414	2,682	14,655	11,468
	0	0	7	4	2	2	4	7	2	3	6	37
Pharmaceutical/ medical/ clinical chemistry	---	24,875	27,625	36,050	36,000	41,250	58,000	53,750	54,000	46,500	35,675	37,500
	---	19,400	24,600	30,200	32,000	33,486	47,050	44,000	50,000	44,000	34,600	31,000
	---	18,100	20,700	26,750	30,250	25,725	40,525	33,500	21,500	42,250	30,000	25,725
	---	20,683	24,542	31,759	34,627	36,270	48,525	44,250	41,833	44,250	34,234	32,719
	---	3,793	4,766	6,998	7,725	14,788	9,268	12,556	17,722	2,217	6,971	10,343
	0	6	26	30	16	8	4	8	3	4	17	122
Physical chemistry	---	---	---	---	---	52,000	---	60,260	---	61,650	50,000	54,500
	---	22,650	24,000	30,500	---	42,000	57,000	44,000	---	57,000	35,000	41,000
	---	---	---	---	---	41,000	---	37,892	---	37,500	22,000	29,000
	---	22,650	24,000	30,500	---	45,000	57,000	48,061	---	52,050	35,667	41,800
	---	1,626	---	6,364	---	6,083	---	12,077	---	13,809	14,012	14,074
	0	2	1	2	0	3	1	5	0	4	3	21
Theoretical chemistry	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	38,000	---	---	---	---	38,000
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	38,000	---	---	---	---	38,000
	---	---	---	---	---	---	---	---	---	---	---	---
	0	0	0	0	0	0	1	0	0	0	0	1
Polymer/ macromolecular chemistry	---	26,600	31,000	36,250	40,875	43,500	44,250	50,423	45,585	50,500	41,000	43,000
	---	24,800	29,700	32,000	35,000	33,000	41,088	43,350	38,000	44,000	32,000	34,000
	---	23,250	24,975	28,500	30,125	30,500	39,915	38,900	27,500	41,530	24,690	29,000
	---	24,863	28,281	33,705	36,434	37,612	44,374	46,110	42,584	48,505	35,371	36,883
	---	2,128	4,969	7,697	12,018	8,577	14,038	11,777	19,766	13,349	12,207	12,314
	0	8	26	24	22	17	14	20	7	8	19	165
Other chemistry	---	31,500	32,675	34,950	38,075	40,500	50,500	61,700	44,500	68,500	48,150	46,000
	---	25,000	27,000	25,300	32,000	32,000	47,000	41,500	37,440	55,000	38,500	35,250
	---	24,250	24,125	23,240	27,125	25,000	28,975	35,750	33,500	41,000	27,250	27,000
	---	27,300	28,150	28,402	33,001	33,198	42,190	48,920	38,960	53,800	38,388	38,095
	---	4,109	5,167	8,153	7,995	13,739	11,920	17,327	8,572	15,995	12,355	14,453
	0	5	18	9	16	13	10	25	9	9	16	130
TOTAL	---	26,000	30,000	36,000	40,000	43,000	49,000	49,380	46,793	55,000	40,000	41,072
	---	24,250	26,200	30,000	34,500	36,000	41,808	41,000	37,440	43,000	32,000	33,000
	---	21,200	23,000	26,500	30,000	30,046	37,810	35,125	32,000	37,825	26,000	27,150
	---	23,929	26,493	31,539	36,745	38,696	42,943	43,478	39,861	47,218	33,941	35,630
	---	3,629	5,182	7,421	11,521	12,705	10,610	12,636	12,394	14,044	10,049	12,012
	0	32	178	177	114	87	83	152	49	45	117	1,034



TABLE-3.5.5

SALARIES of M.S. CHEMISTS EMPLOYED FULL-TIME IN PRIVATE INDUSTRY - MEN Only  
by WORK SPECIALTY and YEARS SINCE BS  
1982 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	---	---	31,500	49,000	---	---	47,475	---	---	---	30,750	46,350	- 75th %ile
	---	19,200	24,500	32,500	68,000	65,000	42,350	28,000	---	60,000	29,500	31,000	- Median
	---	---	21,600	26,900	---	---	38,500	---	---	---	23,750	25,550	- 25th %ile
	---	19,200	26,140	36,433	68,000	65,000	42,775	28,000	---	60,000	28,000	36,024	- Mean
	---	---	5,614	11,254	---	---	4,685	8,485	---	---	4,082	14,031	- 6th Dev
	0	1	5	6	1	1	4	2	0	1	4	25	- Count
Agricultural/ food chemistry	---	---	31,450	38,870	65,000	---	49,500	48,125	---	---	36,500	41,000	
	---	---	25,500	30,600	41,000	43,500	37,810	40,500	36,800	31,000	32,000	35,000	
	---	---	20,250	29,264	37,000	---	32,000	36,000	---	---	25,250	29,328	
	---	---	27,100	32,674	47,667	43,500	40,162	43,188	36,800	31,000	31,250	35,776	
	---	---	9,830	6,854	15,144	12,021	8,968	10,184	---	---	6,944	10,298	
	0	0	6	13	3	2	5	8	1	1	8	47	
Analytical chemistry	---	27,000	29,500	35,750	38,000	42,000	45,000	45,875	40,000	40,750	33,420	38,375	
	---	23,050	27,575	30,950	32,500	36,000	39,000	39,182	35,500	33,500	29,000	32,000	
	---	20,750	24,000	26,500	30,000	30,046	33,100	32,625	30,500	30,375	26,500	27,581	
	---	23,850	26,899	31,267	34,622	36,206	39,786	40,445	35,392	36,417	30,291	33,467	
	---	3,854	4,284	6,708	8,193	5,920	11,929	10,279	7,479	9,415	7,098	9,077	
	0	6	43	44	27	19	19	34	12	6	14	224	
Environmental chemistry	---	---	27,625	42,150	53,250	43,290	50,000	43,500	---	---	39,000	42,825	
	---	---	24,500	33,300	41,800	42,000	40,000	41,000	30,360	80,000	36,000	37,150	
	---	---	19,200	29,594	38,500	35,000	27,563	32,250	---	---	26,000	30,000	
	---	---	23,683	36,637	49,325	40,097	39,188	40,600	30,360	80,000	34,686	38,654	
	---	---	5,517	8,881	21,589	4,461	11,241	10,279	---	---	8,432	14,193	
	0	0	6	13	8	3	2	10	1	1	7	52	
Organic chemistry	---	---	31,000	33,000	41,659	60,000	51,000	48,500	58,300	55,000	47,900	48,000	
	---	23,896	29,500	30,000	37,375	40,000	46,000	40,000	48,000	40,000	31,500	38,000	
	---	---	25,450	27,500	31,250	36,000	41,000	34,500	36,000	38,000	27,150	30,800	
	---	23,896	28,400	29,840	38,063	48,220	46,000	42,975	47,687	46,286	35,235	40,084	
	---	1,267	3,687	5,908	9,357	17,933	6,773	11,114	12,296	14,477	10,289	12,628	
	0	2	12	15	16	15	15	29	11	7	13	135	
Inorganic chemistry	---	---	32,000	29,325	---	---	56,700	55,000	---	43,000	54,400	44,000	
	---	---	26,580	26,150	30,000	36,500	45,400	47,000	41,000	40,000	43,000	39,200	
	---	---	24,000	23,500	---	---	41,000	40,000	---	---	37,650	31,200	
	---	---	27,626	26,325	30,000	36,500	47,700	46,571	41,000	40,217	42,840	37,926	
	---	---	3,803	3,015	8,485	10,607	8,662	11,271	1,414	2,682	13,501	11,342	
	0	0	7	4	2	2	4	7	2	3	5	36	
Pharmaceutical/ medical/ clinical chemistry	---	24,500	27,500	37,000	36,000	55,000	60,000	55,000	54,000	46,500	37,500	42,000	
	---	18,800	24,250	33,000	31,750	32,971	52,000	46,000	50,000	44,000	34,800	32,971	
	---	16,000	20,000	27,000	29,700	27,450	42,100	41,000	21,500	42,250	30,500	27,000	
	---	19,767	24,523	32,469	34,478	39,574	51,367	47,000	41,833	44,250	34,869	34,377	
	---	4,332	5,335	7,522	8,160	17,141	8,967	10,646	17,722	2,217	7,331	10,935	
	0	3	15	23	14	5	3	7	3	4	14	91	
Physical chemistry	---	---	---	---	---	52,000	---	60,260	---	61,650	50,000	54,750	
	---	22,650	---	30,500	---	42,000	57,000	44,000	---	57,000	35,000	41,500	
	---	---	---	---	---	41,000	---	37,892	---	37,500	22,000	32,750	
	---	22,650	---	30,500	---	45,000	57,000	48,061	---	52,050	35,667	42,690	
	---	1,626	---	6,364	---	6,083	---	12,077	---	13,809	14,012	13,820	
	0	2	0	2	0	3	1	5	0	4	3	20	
Theoretical chemistry	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	---	---	---	---	---	---	
	0	0	0	0	0	0	0	0	0	0	0	0	
Polymer/ macromolecular chemistry	---	27,100	30,250	38,500	43,713	43,500	44,500	50,423	45,585	50,500	46,250	44,000	
	---	25,800	27,000	32,000	36,850	40,500	41,167	43,350	38,000	44,000	39,775	37,000	
	---	23,375	24,700	29,000	32,000	30,900	39,830	38,900	27,500	41,530	30,000	30,000	
	---	25,317	27,244	34,039	38,836	44,687	46,110	42,584	48,505	37,978	38,280	38,280	
	---	2,291	5,202	8,069	11,381	8,533	14,560	11,777	19,766	13,349	11,345	12,548	
	0	6	17	21	18	13	13	20	7	8	16	139	
Other chemistry	---	32,450	32,400	34,950	38,000	44,100	51,000	62,400	46,250	70,250	50,000	47,400	
	---	27,300	27,000	25,300	32,000	40,000	48,000	42,500	38,100	50,900	37,000	35,500	
	---	23,875	24,500	23,240	27,000	22,500	36,000	35,500	32,750	40,500	27,500	27,000	
	---	27,875	28,193	28,402	32,468	34,578	44,000	49,717	39,150	52,775	38,615	38,630	
	---	4,506	5,200	8,153	7,976	15,999	11,091	17,858	9,144	16,780	12,480	14,875	
	0	4	15	9	15	9	9	23	8	8	13	113	
TOTAL	---	26,000	30,000	36,000	40,000	43,900	49,750	50,000	48,000	55,000	40,600	42,525	
	---	24,250	26,600	30,850	35,000	40,000	42,300	42,000	38,500	43,000	33,000	35,000	
	---	21,200	23,250	26,835	30,525	32,000	38,625	35,690	33,000	38,000	27,950	28,000	
	---	24,087	26,827	32,177	37,290	40,218	43,608	44,068	40,782	47,200	35,113	36,886	
	---	3,924	5,048	7,574	11,678	12,971	10,761	12,499	12,369	14,027	9,999	12,201	
	0	24	126	150	104	72	76	145	45	43	97	882	

TABLE-3.5.6

SALARIES of M.S. CHEMISTS EMPLOYED FULL-TIME IN PRIVATE INDUSTRY - WOMEN Only  
by WORK FUNCTION and YEARS SINCE BS  
1982 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	---	---	22,125	---	---	---	---	---	---	---	---	30,050 - 75th %ile
	---	---	19,500	---	29,000	---	---	---	---	33,200	---	21,750 - Median
	---	---	18,000	---	---	---	---	---	---	---	---	18,000 - 25th %ile
	---	---	19,875	---	29,000	---	---	---	---	---	33,200	23,617 - Mean
	---	---	2,250	---	---	---	---	---	---	---	---	6,197 - Std Dev
	0	0	4	0	1	0	0	0	0	0	1	0
Agricultural/ food chemistry	---	---	---	---	---	---	---	---	---	---	---	33,942
	---	---	16,760	25,000	---	---	36,923	20,000	---	---	---	22,500
	---	---	---	---	---	---	---	---	---	---	---	17,570
	---	---	16,760	25,000	---	---	36,923	20,000	---	---	---	24,671
	---	---	---	---	---	---	---	---	---	---	---	8,843
	0	0	1	1	0	0	1	1	0	0	0	0
Analytical chemistry	---	---	28,000	30,000	---	36,000	---	---	34,600	---	34,000	31,738
	---	---	24,200	27,500	37,860	33,500	---	28,000	23,272	---	27,500	26,500
	---	---	21,960	25,200	---	19,400	---	---	22,700	---	22,500	22,925
	---	---	24,508	27,315	37,860	29,633	---	28,000	26,857	---	27,829	26,858
	---	---	4,062	5,760	---	8,950	---	11,314	6,711	---	6,273	5,867
	0	0	15	15	1	3	0	2	3	0	7	46
Environmental chemistry	---	---	35,300	---	---	---	---	---	---	---	---	34,650
	---	---	24,500	---	29,000	---	---	---	---	---	---	26,750
	---	---	17,800	---	---	---	---	---	---	---	---	19,100
	---	---	26,140	---	29,000	---	---	---	---	---	---	26,617
	---	---	9,035	---	---	---	---	---	---	---	---	8,165
	0	0	5	0	1	0	0	0	0	0	0	6
Organic chemistry	---	---	---	---	---	---	---	---	---	---	34,000	34,000
	---	25,418	29,250	21,000	---	---	34,900	---	---	---	23,000	24,576
	---	---	---	---	---	---	---	---	---	---	20,400	22,000
	---	25,418	29,250	21,000	---	---	34,900	---	---	---	25,800	26,960
	---	1,191	6,718	---	---	---	---	---	---	---	7,219	5,795
	0	2	2	1	0	0	1	0	0	0	3	9
Inorganic chemistry	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	22,500	22,500
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	22,500	22,500
	---	---	---	---	---	---	---	---	---	---	---	---
	0	0	0	0	0	0	0	0	0	0	1	1
Pharmaceutical/ medicinal/ clinical chemistry	---	26,000	28,300	34,550	---	39,000	---	---	---	---	35,000	33,250
	---	19,800	24,950	29,645	35,674	34,000	40,000	25,000	---	---	33,000	27,445
	---	19,000	21,500	26,750	---	19,288	---	---	---	---	25,800	22,000
	---	21,600	24,567	30,415	35,674	30,763	40,000	25,000	---	---	31,267	27,999
	---	3,831	4,114	4,119	5,196	10,247	---	---	---	---	4,839	6,380
	0	3	11	6	2	3	1	1	0	0	3	30
Physical chemistry	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	24,000	---	---	---	---	---	---	---	---	24,000
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	24,000	---	---	---	---	---	---	---	---	24,000
	---	---	---	---	---	---	---	---	---	---	---	---
	0	0	1	0	0	0	0	0	0	0	0	1
Theoretical chemistry	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	38,000	---	---	---	---	38,000
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	38,000	---	---	---	---	38,000
	---	---	---	---	---	---	---	---	---	---	---	---
	0	0	0	0	0	0	1	0	0	0	0	1
Polymer/ macromolecular chemistry	---	---	33,584	34,000	32,000	46,275	---	---	---	---	---	33,500
	---	23,500	30,000	34,000	28,750	32,000	40,300	---	---	---	24,200	30,000
	---	---	27,000	26,100	16,125	29,950	---	---	---	---	---	25,550
	---	23,500	30,241	31,367	25,625	36,075	40,300	---	---	---	24,200	29,951
	---	707	4,054	4,561	9,304	9,849	---	---	---	---	4,243	7,160
	0	2	9	5	4	4	1	0	0	0	2	25
Other chemistry	---	---	34,800	---	---	37,625	---	---	---	---	48,200	41,250
	---	25,000	26,000	---	41,000	27,190	25,900	39,750	37,440	62,000	43,000	34,800
	---	---	23,000	---	---	25,470	---	---	---	---	21,000	25,450
	---	25,000	27,933	---	41,000	30,095	25,900	39,750	37,440	62,000	37,400	34,542
	---	---	6,133	---	---	7,347	---	2,475	---	---	14,439	10,951
	0	1	3	0	1	4	1	2	1	1	3	17
TOTAL	---	25,750	30,000	32,238	38,232	36,750	40,075	38,875	36,730	---	34,000	34,000
---	24,288	24,800	27,640	30,500	32,000	37,462	30,500	28,936	47,600	27,200	27,350	
---	20,600	21,960	25,800	28,875	26,410	32,650	20,000	22,843	---	22,500	23,000	
---	23,455	25,555	28,166	31,071	31,848	36,004	30,083	29,503	47,600	28,900	28,347	
---	2,718	5,429	5,382	8,171	8,436	5,340	9,563	7,618	20,365	8,089	7,474	
0	8	51	26	10	14	6	6	4	2	19	146	

TABLE-3.5.7

SALARIES of FULL-TIME EMPLOYED Ph.D. CHEMISTS IN PRIVATE INDUSTRY  
by WORK SPECIALTY and YEARS SINCE BS  
1982 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	---	---	34,125	38,625	44,900	55,350	80,000	73,500	---	77,350	47,750	50,825	- 75th %-ile
	---	---	31,550	35,444	37,500	46,850	49,000	64,500	76,000	44,950	37,500	39,500	- Median
	---	---	28,550	30,684	34,075	34,000	36,000	40,000	---	40,000	29,500	32,625	- 25th %-ile
	---	---	31,667	36,175	39,195	46,564	55,707	59,389	76,000	54,100	37,920	43,645	- Mean
	---	---	4,298	7,775	8,305	12,122	21,827	18,031	33,941	22,098	9,883	15,574	- Std Dev
	0	0	6	22	18	14	7	9	2	4	10	92	- Count
Agricultural/ food chemistry	---	---	34,950	42,575	48,600	53,125	53,250	57,500	60,000	74,000	48,000	49,000	
	---	---	32,200	36,000	39,400	42,625	43,500	50,500	50,000	54,000	42,800	42,000	
	---	---	30,540	32,750	33,300	39,450	39,175	47,971	43,000	37,875	38,088	35,750	
	---	---	32,452	37,071	43,500	47,524	46,850	52,661	52,714	55,550	45,744	44,965	
	---	---	2,440	6,335	18,676	13,894	10,997	9,211	13,913	19,790	14,441	13,740	
	0	0	12	14	11	18	12	12	7	5	11	102	
Analytical chemistry	---	---	36,500	39,800	43,600	51,559	58,600	59,000	64,000	61,500	45,875	46,000	
	---	25,500	33,000	36,250	39,500	45,800	47,000	52,150	45,500	55,500	36,000	38,950	
	---	---	30,000	30,625	35,000	41,249	42,100	40,175	40,262	46,170	32,450	34,000	
	---	25,500	33,048	35,690	39,083	47,988	49,124	49,586	50,860	53,265	41,701	41,566	
	---	7,778	3,853	6,386	6,802	10,331	11,967	11,614	12,494	10,284	14,114	11,303	
	0	2	51	64	71	44	25	28	19	12	42	358	
Environmental chemistry	---	---	34,025	43,500	42,500	57,750	65,500	57,030	52,800	---	48,500	50,820	
	---	---	28,050	36,000	31,500	48,400	51,000	47,000	50,460	50,300	34,000	44,000	
	---	---	24,250	31,440	24,750	44,175	40,950	44,000	41,000	---	23,750	35,800	
	---	---	28,775	37,842	33,500	50,280	52,225	50,187	53,737	50,300	35,700	44,474	
	---	---	5,203	6,662	10,762	9,614	12,182	9,085	18,907	13,718	14,043	13,583	
	0	0	4	9	9	10	8	12	7	2	5	66	
Organic chemistry	---	---	34,416	43,275	48,000	55,000	64,000	59,250	59,500	62,900	50,000	51,000	
	---	---	33,000	38,000	43,500	47,000	52,000	50,760	50,000	51,000	44,000	43,150	
	---	---	31,000	32,738	38,000	41,475	45,000	41,925	41,288	44,300	35,000	35,000	
	---	---	32,615	39,067	43,365	49,762	54,247	51,843	51,204	54,768	44,228	45,026	
	---	---	3,230	8,741	7,570	13,715	14,080	14,573	15,322	16,285	11,374	13,133	
	0	0	63	92	96	64	39	58	28	31	55	526	
Inorganic chemistry	---	---	33,450	38,850	44,750	58,275	49,750	70,500	67,750	---	40,635	47,375	
	---	---	32,300	35,050	38,650	50,050	47,250	57,000	60,500	56,000	35,100	37,000	
	---	---	30,360	31,857	35,750	34,750	41,500	41,000	48,750	---	29,350	32,775	
	---	---	32,277	36,422	40,408	48,904	46,468	56,000	59,000	56,000	37,025	40,538	
	---	---	2,425	6,999	7,449	12,214	5,688	16,386	10,360	15,556	11,109	10,914	
	0	0	21	34	22	14	10	5	4	2	12	124	
Pharmaceutical/ medicinal/ clinical chemistry	---	---	34,000	38,200	49,666	55,000	57,000	65,000	54,000	80,000	55,500	53,000	
	---	---	31,377	35,000	42,000	48,750	51,400	59,640	44,000	70,000	44,000	42,250	
	---	---	30,075	31,000	35,750	40,750	42,000	46,475	40,000	53,000	35,000	35,000	
	---	---	31,969	35,428	43,229	50,099	50,587	58,313	48,414	66,930	47,451	45,835	
	---	---	2,971	6,473	12,138	14,232	10,682	14,269	13,449	18,532	14,793	14,707	
	0	0	16	54	49	38	23	25	11	11	42	269	
Physical chemistry	---	---	38,000	39,400	50,000	57,708	70,000	62,250	67,104	57,000	52,750	52,000	
	---	60,000	35,420	36,200	43,200	46,220	50,785	50,000	50,568	49,000	42,250	43,500	
	---	---	32,130	32,000	39,600	40,000	48,250	40,400	45,050	45,000	35,500	37,100	
	---	60,000	35,096	37,167	45,433	49,522	57,839	51,981	55,950	52,027	44,650	46,678	
	---	---	3,691	5,963	8,432	11,285	15,683	17,371	17,795	12,055	11,125	13,374	
	0	1	24	23	39	27	20	24	8	11	14	191	
Theoretical chemistry	---	---	---	---	42,000	---	---	---	---	---	---	48,500	
	---	---	---	33,000	39,400	---	---	55,000	---	---	---	39,400	
	---	---	---	---	35,000	---	---	---	---	---	---	34,000	
	---	---	---	33,000	38,800	---	---	55,000	---	---	---	40,880	
	---	---	---	---	3,538	---	---	---	---	---	---	8,653	
	0	0	0	1	3	0	0	1	0	0	0	5	
Polymer/ macromolecular chemistry	---	---	35,400	42,000	48,850	54,475	60,000	61,750	60,000	75,000	52,650	54,000	
	---	---	33,000	38,000	42,000	46,800	51,000	54,720	49,500	59,000	41,000	43,530	
	---	---	30,470	34,850	30,500	40,860	44,500	45,375	38,725	44,000	34,700	36,885	
	---	---	33,262	39,142	43,243	50,037	52,025	54,587	49,039	57,707	44,392	46,299	
	---	---	3,216	7,000	7,842	13,682	11,546	13,409	13,809	17,002	11,893	12,885	
	0	0	41	64	73	62	61	56	18	23	74	472	
Other chemistry	---	---	41,880	46,000	54,350	54,675	57,500	62,250	66,125	82,500	62,000	55,144	
	---	---	38,100	38,000	42,000	45,500	47,000	55,192	50,650	63,308	44,000	44,750	
	---	---	31,125	32,500	36,350	40,000	39,000	44,200	46,500	43,600	33,895	38,000	
	---	---	36,760	38,243	44,046	47,294	51,730	55,335	56,792	63,137	46,699	47,728	
	---	---	5,673	10,781	9,892	12,693	18,152	12,539	15,026	18,972	15,070	14,916	
	0	0	12	27	29	32	23	21	12	11	21	188	
TOTAL	---	60,000	35,010	41,000	47,150	55,000	60,000	62,000	60,000	67,000	51,593	51,350	
	---	31,000	33,000	36,300	41,050	46,800	50,000	52,000	50,000	54,644	40,450	42,000	
	---	20,000	30,580	32,525	36,613	41,000	42,000	44,000	42,340	44,475	34,150	35,000	
	---	37,000	33,085	37,403	42,269	49,064	52,026	53,479	52,393	56,911	43,961	44,882	
	---	20,664	3,673	7,612	9,117	12,715	13,402	13,852	14,971	16,348	12,969	13,343	
	0	3	250	404	420	323	228	251	116	112	286	2,393	

TABLE-3.5.8

SALARIES of FULL-TIME EMPLOYED PH.D. CHEMISTS IN PRIVATE INDUSTRY - MEN Only  
by WORK SPECIALTY and YEARS SINCE BS  
1982 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	---	---	37,000	43,000	48,300	55,700	81,875	73,500	---	77,350	50,000	53,375 - 75th %-ile
	---	---	30,200	37,000	39,000	47,700	55,750	64,500	76,000	44,950	40,000	40,675 - Median
	---	---	26,850	32,000	33,025	36,000	42,750	40,000	---	40,000	35,000	35,000 - 25th %-ile
	---	---	31,350	37,907	39,616	47,454	60,000	59,389	76,000	54,100	42,143	46,088 - Mean
	---	---	5,510	8,663	8,740	12,132	20,418	18,031	33,941	22,098	8,275	16,018 - Std Dev
	0	0	4	15	16	13	6	9	2	4	7	76 - Count
Agricultural/ food chemistry	---	---	35,000	42,575	49,800	53,125	53,250	57,500	60,000	74,000	48,000	49,000
	---	---	32,400	36,000	41,200	42,625	43,500	50,500	50,000	54,000	42,800	42,125
	---	---	30,520	32,750	31,725	39,450	39,175	47,971	43,000	37,875	38,088	36,000
	---	---	32,493	37,071	44,200	47,524	46,850	52,661	52,714	55,550	45,744	45,179
	---	---	2,555	6,335	19,533	13,894	10,997	9,211	13,913	19,790	14,441	13,789
	0	0	11	14	10	18	12	12	7	5	11	100
Analytical chemistry	---	---	35,010	39,700	43,700	50,676	58,600	59,000	65,150	61,500	47,250	47,000
	---	25,500	32,080	36,500	39,500	45,800	47,000	52,150	46,750	55,500	36,700	39,600
	---	---	29,938	30,750	35,000	41,746	42,100	40,175	40,197	46,170	32,450	34,070
	---	25,500	32,358	35,642	39,245	48,139	49,124	49,586	51,191	53,265	42,549	41,977
	---	7,778	3,792	6,396	6,741	10,359	11,967	11,614	12,770	10,284	14,585	11,513
	0	2	38	61	69	42	25	28	18	12	38	333
Environmental chemistry	---	---	---	44,250	42,625	58,500	65,500	57,540	52,800	---	48,500	52,950
	---	---	33,050	39,000	30,750	48,800	51,000	46,600	50,460	50,300	34,000	45,000
	---	---	---	31,125	23,125	46,400	40,950	44,000	41,000	---	23,750	38,125
	---	---	33,050	38,125	32,563	51,567	52,225	50,385	53,737	50,300	35,700	45,902
	---	---	2,758	6,860	11,105	9,239	12,182	9,501	18,907	13,718	14,043	13,865
	0	0	2	4	8	9	8	11	7	2	5	56
Organic chemistry	---	---	34,500	42,825	48,000	55,000	64,000	59,250	60,450	63,450	50,000	51,000
	---	---	33,000	38,000	44,000	47,000	52,250	50,760	50,500	51,800	44,100	44,000
	---	---	31,000	32,630	38,000	41,825	44,500	41,925	43,980	44,650	35,000	35,000
	---	---	32,681	38,972	43,567	49,902	54,307	51,843	52,233	55,562	44,433	45,343
	---	---	3,297	8,584	7,533	13,503	14,265	14,573	15,404	16,531	11,618	13,246
	0	0	57	86	90	62	38	58	26	29	51	497
Inorganic chemistry	---	---	33,525	38,450	46,230	58,650	49,750	70,500	67,750	---	41,000	47,840
	---	---	32,350	35,050	38,650	50,100	47,250	57,000	60,500	56,000	35,000	37,000
	---	---	30,180	32,307	36,250	34,500	41,500	41,000	48,750	---	28,800	33,000
	---	---	32,341	36,544	40,899	49,050	46,468	56,000	59,000	56,000	37,191	40,800
	---	---	2,469	7,084	7,137	12,700	5,688	16,386	10,360	15,556	11,636	11,049
	0	0	20	32	20	13	10	5	4	2	11	117
Pharmaceutical/ medical/ clinical chemistry	---	---	34,500	39,000	50,000	54,750	57,000	65,000	60,000	77,992	57,000	54,000
	---	---	31,254	35,000	42,000	48,750	51,400	59,820	44,000	67,000	47,600	43,200
	---	---	29,250	32,500	36,500	40,250	42,000	46,388	40,000	47,625	36,000	35,000
	---	---	32,000	36,330	43,622	49,139	50,587	58,743	50,000	63,137	48,537	46,345
	---	---	3,261	6,516	12,026	13,153	10,682	14,409	14,414	17,066	14,785	14,179
	0	0	13	45	47	36	23	24	9	9	39	245
Physical chemistry	---	---	38,000	41,350	50,000	56,500	70,000	62,250	69,472	57,000	52,750	52,000
	---	60,000	35,040	36,100	43,200	45,860	50,570	50,000	50,136	49,000	42,250	43,500
	---	---	32,000	32,250	39,800	40,000	48,000	40,400	45,000	45,000	35,500	37,680
	---	60,000	35,057	37,347	45,235	49,207	57,198	51,981	56,657	52,027	44,650	46,674
	---	---	3,769	6,292	8,226	11,387	15,842	17,371	19,099	12,055	11,125	13,414
	0	1	23	20	37	26	19	24	7	11	14	182
Theoretical chemistry	---	---	---	---	42,000	---	---	---	---	---	---	48,500
	---	---	---	33,000	39,400	---	---	55,000	---	---	---	39,400
	---	---	---	---	35,000	---	---	---	---	---	---	34,000
	---	---	---	33,000	38,800	---	---	55,000	---	---	---	40,880
	---	---	---	---	3,538	---	---	---	---	---	---	8,653
	0	0	0	1	3	0	0	1	0	0	0	5
Polymer/ macromolecular chemistry	---	---	35,400	42,000	49,400	54,825	60,000	61,750	55,200	65,000	53,000	54,180
	---	---	32,880	38,250	42,000	46,900	51,000	54,720	49,000	59,000	41,000	44,000
	---	---	30,525	35,000	38,450	41,250	44,500	45,375	37,150	45,000	34,600	37,100
	---	---	33,138	39,476	43,366	50,487	52,025	54,587	48,394	58,193	44,601	46,668
	---	---	2,972	7,109	8,027	13,662	11,546	13,409	13,952	16,188	12,064	12,866
	0	0	34	58	69	60	61	56	17	19	69	443
Other chemistry	---	---	42,550	46,000	54,700	55,000	62,750	62,250	66,125	83,125	63,000	56,000
	---	---	39,500	38,000	43,000	46,000	50,000	55,192	50,650	58,654	44,000	45,000
	---	---	33,575	33,600	35,700	40,000	39,250	44,200	46,500	42,450	33,342	38,000
	---	---	37,912	38,543	44,345	48,013	52,561	55,335	56,792	62,241	46,259	48,264
	---	---	5,190	11,063	10,184	12,222	18,775	12,539	15,026	19,751	15,322	14,927
	0	0	10	23	27	31	21	21	12	10	20	175
TOTAL	---	---	---	---	---	---	---	---	---	---	---	---
	---	60,000	35,000	41,400	47,475	55,000	60,000	62,000	60,000	65,000	52,000	52,000
	---	31,000	33,000	36,696	41,500	46,850	50,000	52,500	50,000	54,288	41,000	42,840
	---	20,000	30,625	33,000	36,850	41,000	42,000	44,000	43,000	45,000	34,860	35,400
	---	37,000	33,096	37,677	42,457	49,212	52,125	53,523	52,876	56,562	44,489	45,335
	0	3	212	359	396	310	223	249	109	103	265	2,229

TABLE-3.5.9

SALARIES of FULL-TIME EMPLOYED PH.D.CHEMISTS IN PRIVATE INDUSTRY - WOMEN Only  
by WORK SPECIALTY and YEARS SINCE BS  
1982 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	---	---	---	35,888	---	---	---	---	---	---	33,200	35,000 - 75th %-ile
	---	---	32,300	33,800	35,825	35,000	29,950	---	---	---	28,000	32,850 - Median
	---	---	---	30,000	---	---	---	---	---	---	23,000	29,963 - 25th %-ile
	---	---	32,300	32,465	35,825	35,000	29,950	---	---	---	28,067	32,041 - Mean
	---	---	283	3,598	1,167	---	---	---	---	---	5,100	3,844 - Std Dev
	0	0	2	7	2	1	1	0	0	0	3	16 - Count
Agricultural/ food chemistry	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	32,000	---	36,500	---	---	---	---	---	---	34,250
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	32,000	---	36,500	---	---	---	---	---	---	34,250
	---	---	---	---	---	---	---	---	---	---	---	3,182
	0	0	1	0	1	0	0	0	0	0	0	2
Analytical chemistry	---	---	36,950	45,000	---	---	---	---	---	---	34,000	37,000
	---	---	35,400	34,500	33,500	35,640	---	---	44,900	---	33,000	35,000
	---	---	34,000	30,500	---	---	---	---	---	---	31,600	33,000
	---	---	35,066	36,667	33,500	35,640	---	---	44,900	---	32,867	35,304
	---	---	3,407	7,489	9,192	---	---	---	---	---	1,206	4,581
	0	0	13	3	2	1	0	0	1	0	3	23
Environmental chemistry	---	---	---	45,000	---	---	---	---	---	---	---	46,500
	---	---	24,500	35,200	---	---	---	48,000	---	---	---	34,040
	---	---	---	31,440	---	---	---	---	---	---	---	26,250
	---	---	24,500	37,616	---	---	---	48,000	---	---	---	35,635
	---	---	707	7,303	---	---	---	---	---	---	---	9,519
	0	0	2	5	0	0	0	1	0	0	0	8
Organic chemistry	---	---	33,954	54,500	45,450	---	---	---	---	---	52,000	41,050
	---	---	33,100	35,350	38,000	45,440	---	---	41,050	---	37,700	34,416
	---	---	29,375	32,425	32,550	---	---	---	---	---	32,760	32,760
	---	---	31,986	40,433	38,800	45,440	---	---	41,050	---	40,820	38,387
	---	---	2,675	11,645	8,115	26,248	---	---	---	---	9,992	10,140
	0	0	6	6	5	2	0	0	1	0	3	23
Inorganic chemistry	---	---	---	---	---	---	---	---	---	---	---	41,800
	---	---	31,000	34,470	35,500	---	---	---	---	---	---	31,000
	---	---	---	---	---	---	---	---	---	---	---	28,170
	---	---	31,000	34,470	35,500	---	---	---	---	---	---	34,188
	---	---	---	7,255	12,021	---	---	---	---	---	---	7,261
	0	0	1	2	2	0	0	0	0	0	0	5
Pharmaceutical/ medicinal/ clinical chemistry	---	---	33,500	32,000	---	---	---	---	---	---	37,000	40,025
	---	---	31,500	31,000	34,000	47,280	---	48,000	41,276	98,000	32,000	32,000
	---	---	30,500	29,372	---	---	---	---	---	---	31,000	30,936
	---	---	31,833	30,916	34,000	47,280	---	48,000	41,276	98,000	33,333	37,163
	---	---	1,528	4,066	15,556	---	---	---	4,702	---	3,215	15,239
	0	0	3	9	2	1	0	1	2	1	3	22
Physical chemistry	---	---	---	38,800	---	---	---	---	---	---	---	59,427
	---	---	36,000	37,100	49,100	57,708	70,000	---	---	---	---	38,500
	---	---	---	32,000	---	---	---	---	---	---	---	36,275
	---	---	36,000	35,967	49,100	57,708	70,000	---	---	---	---	46,226
	---	---	---	3,539	15,415	---	---	---	---	---	---	14,125
	0	0	1	3	2	1	1	0	0	0	0	8
Theoretical chemistry	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---	---
	0	0	0	0	0	0	0	0	0	0	0	0
Polymer/ macromolecular chemistry	---	---	37,500	42,700	---	---	---	---	---	---	46,740	41,150
	---	---	33,500	37,600	38,500	36,540	---	---	---	---	40,800	34,320
	---	---	30,240	30,925	---	---	---	---	---	---	30,000	30,570
	---	---	33,866	37,075	38,500	36,540	---	---	---	---	39,180	36,146
	---	---	4,453	6,254	---	5,515	---	---	---	---	8,487	5,501
	0	0	7	4	1	2	0	0	0	0	3	17
Other chemistry	---	---	---	47,250	---	---	---	---	---	---	---	45,750
	---	---	31,000	34,000	40,000	25,000	43,000	---	---	---	55,500	38,500
	---	---	---	28,310	---	---	---	---	---	---	---	28,310
	---	---	31,000	36,520	40,000	25,000	43,000	---	---	---	55,500	37,882
	---	---	5,657	10,257	2,828	---	5,657	---	---	---	---	9,665
	0	0	2	4	2	1	2	0	0	0	1	12
TOTAL	---	---	35,550	38,800	42,000	52,494	64,250	---	44,825	---	40,025	39,000
	---	---	33,500	33,800	38,000	35,640	43,000	48,000	42,825	98,000	33,100	34,435
	---	---	30,435	30,500	35,000	29,760	32,213	---	38,726	---	31,150	30,934
	---	---	33,025	35,288	38,150	40,510	46,488	48,000	42,125	98,000	36,144	36,680
	---	---	3,924	7,180	8,614	13,397	17,153	0	3,287	---	8,714	9,756
	0	0	38	43	19	9	4	2	4	1	16	136

TABLE-3.6.1

SALARIES of B.S. CHEMISTS EMPLOYED FULL-TIME in PRIVATE INDUSTRY  
by INDUSTRY and YEARS SINCE BS  
1982 Survey of ACS Members

EMPLOYER	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			
Mfg Chem	18,932	18,100	21,211	23,375	29,064	29,375	32,406	29,763	36,123	33,380	---	24,000	- 25th %ile
	21,500	21,600	26,000	31,000	34,560	36,180	39,000	40,000	43,000	43,900	22,176	31,980	- Median
	23,000	24,400	29,000	35,750	39,000	48,750	45,810	50,000	55,000	54,250	---	40,000	- 75th %ile
	21,380	21,975	25,958	31,381	34,562	39,130	41,409	42,313	47,129	45,729	22,176	33,993	- Mean
	2,836	3,862	4,975	7,890	7,685	11,867	13,516	13,373	15,556	13,808	---	13,141	- Std Dev
	17	73	90	56	43	40	40	93	28	26	1	507	- Count
Mfg Coatings	17,500	20,040	22,681	25,295	29,958	28,619	28,344	28,938	37,000	27,788	---	22,371	
	19,800	22,000	26,000	29,050	35,200	37,500	35,000	38,000	52,000	39,500	---	29,000	
	21,600	24,500	29,100	38,250	40,500	44,500	55,500	47,200	65,000	50,500	---	38,000	
	19,633	22,152	25,975	30,660	36,304	37,383	40,500	40,707	51,611	38,400	---	32,304	
	2,055	2,690	3,907	7,216	7,514	12,415	17,335	13,353	26,733	13,386	---	13,444	
	3	23	26	10	9	12	5	17	7	6	0	118	
Mfg Food	15,188	16,124	19,500	23,828	23,172	28,500	29,500	27,000	41,160	33,000	---	20,500	
	19,250	18,950	25,000	26,550	32,500	32,220	36,000	35,000	48,618	38,150	---	27,000	
	21,610	21,563	27,800	34,875	58,250	42,250	47,000	46,000	65,000	54,000	---	36,000	
	18,620	19,417	24,953	30,097	39,833	34,407	36,214	38,497	51,593	41,717	---	29,987	
	3,491	4,369	8,026	10,341	24,392	6,644	8,406	18,254	12,195	10,945	---	13,649	
	4	16	15	12	6	6	7	7	3	3	0	79	
Mfg Metals/ minerals	---	20,000	20,072	22,231	28,669	32,430	20,984	33,000	29,781	31,125	---	21,809	
	---	23,000	27,550	26,760	36,000	36,000	29,750	38,000	34,500	40,000	---	29,800	
	---	25,000	30,000	29,000	41,500	38,490	37,625	50,000	39,500	44,400	---	35,750	
	---	23,546	26,221	26,240	35,260	35,460	29,375	40,665	34,500	38,160	---	30,235	
	---	3,533	6,414	4,609	6,526	3,544	8,873	8,093	5,323	7,352	---	8,494	
	0	19	14	9	5	5	4	11	4	5	0	76	
Mfg Paper	---	---	23,141	26,630	30,000	---	---	---	---	---	---	26,700	
	29,000	23,000	29,750	26,850	33,000	44,600	43,000	---	---	---	---	30,000	
	---	---	33,500	30,000	40,000	---	---	---	---	---	---	34,000	
	29,000	23,000	28,700	27,825	34,333	44,600	43,000	---	---	---	---	31,247	
	---	---	5,633	2,123	5,132	---	---	---	---	---	---	6,826	
	1	1	4	4	3	1	1	0	0	0	0	15	
Mfg Petroleum	20,000	20,187	21,219	25,000	34,314	29,756	43,000	37,328	49,800	39,250	---	25,000	
	21,700	22,350	26,880	35,000	40,352	35,000	44,000	49,000	53,820	41,496	---	36,600	
	28,350	25,075	28,900	40,000	47,000	43,936	52,500	61,000	62,000	44,000	---	45,000	
	23,350	23,249	25,749	35,214	40,492	36,341	46,500	49,182	55,875	41,499	---	37,081	
	4,714	4,072	3,937	8,916	6,390	7,066	5,745	12,281	14,854	2,958	---	14,373	
	4	20	9	7	8	6	4	13	11	5	0	87	
Mfg Pharm	18,000	18,103	20,869	22,553	25,709	34,020	32,033	32,928	32,828	32,000	---	20,541	
	20,000	21,000	24,502	27,500	31,000	37,000	36,244	40,100	44,900	32,000	---	26,200	
	22,000	24,225	27,125	32,350	35,129	42,625	46,625	48,200	57,125	35,000	---	34,325	
	20,552	21,459	24,823	29,723	30,823	38,647	39,714	41,528	48,538	33,000	---	29,403	
	3,306	3,702	4,444	11,335	5,677	6,253	9,200	11,176	19,701	1,732	---	10,974	
	11	50	58	42	12	22	14	18	8	3	0	238	
Mfg Rubber	15,980	21,492	22,000	---	31,336	34,244	33,688	35,000	30,463	34,600	---	27,000	
	19,150	22,500	29,040	30,500	36,250	43,150	43,000	40,000	37,000	40,000	23,200	37,000	
	26,525	23,439	35,000	---	45,500	54,625	52,000	44,640	51,428	52,000	---	45,000	
	20,500	22,292	28,680	30,500	37,625	42,900	43,611	44,062	39,251	43,314	23,200	37,873	
	5,848	1,537	6,507	10,607	7,653	11,421	11,028	18,997	10,669	10,534	---	14,415	
	4	6	3	2	4	6	9	15	6	7	1	63	
Mfg Other	17,695	18,200	19,953	24,000	28,000	24,613	28,298	26,844	30,813	31,438	---	20,750	
	20,500	21,000	25,675	29,000	32,200	33,000	36,500	37,000	40,000	38,500	---	28,580	
	21,925	24,000	28,350	33,000	40,000	40,750	46,005	46,340	59,000	43,500	---	36,775	
	19,920	21,657	25,893	29,211	34,439	34,036	39,833	39,874	48,289	42,653	---	31,664	
	2,549	4,568	5,856	6,012	9,740	10,218	15,975	14,104	21,317	18,212	---	13,257	
	10	65	62	43	35	28	24	49	17	17	0	350	
Non-Mfg	---	16,060	20,640	22,850	22,725	22,359	29,000	22,868	39,477	---	---	19,300	
	21,450	18,800	25,100	28,500	36,000	32,500	30,000	30,000	47,250	42,000	---	25,000	
	---	22,000	28,413	31,650	40,000	39,500	40,000	39,000	49,375	---	---	30,000	
	21,450	19,169	24,926	29,417	33,368	30,333	33,000	32,458	45,200	42,000	---	26,340	
	4,879	4,194	4,679	10,705	10,218	10,727	6,083	10,760	6,077	7,071	---	9,388	
	2	39	40	25	9	6	3	9	4	2	0	139	
TOTAL	17,541	17,500	18,438	23,156	26,241	26,813	31,000	29,344	32,477	30,636	---	20,141	
	20,750	21,500	25,450	29,000	34,856	36,000	37,000	40,000	44,500	40,000	22,688	29,000	
	22,675	24,000	28,800	34,000	40,000	42,620	46,000	48,875	55,000	48,075	---	38,000	
	20,882	21,543	25,631	30,095	34,934	37,143	40,201	41,542	47,884	42,623	22,688	32,019	
	3,479	4,089	5,169	8,712	9,373	10,208	12,854	13,690	17,332	13,309	724	18,827	
	56	312	321	210	134	132	111	232	88	74	2	1,672	

TABLE-3.6.2

SALARIES of M.S.CHEMISTS EMPLOYED FULL-TIME In PRIVATE INDUSTRY  
by INDUSTRY and YEARS SINCE BS  
1982 Survey of ACS Members

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	---	27,100	30,000	40,000	42,241	49,225	48,000	49,250	49,890	56,250	37,700	43,000	- 75th %-ile
	---	24,896	28,000	30,900	38,000	38,000	42,000	42,000	39,975	45,000	32,760	36,000	- Median
	---	23,875	24,625	27,500	32,375	31,950	38,000	36,300	33,500	38,750	26,000	29,160	- 25th %-ile
	---	25,907	27,567	33,143	39,230	40,280	41,977	43,900	42,412	47,789	32,688	37,487	- Mean
	---	3,038	5,199	7,057	10,361	14,571	8,797	11,352	14,975	13,085	8,739	11,807	- Std Dev
	0	10	40	47	24	26	30	62	21	14	37	311	- Count
Mfg Coatings	---	---	---	32,850	35,000	62,300	40,300	49,440	45,585	---	42,500	40,475	
	---	24,500	27,900	32,000	33,000	32,500	39,660	36,000	37,000	47,000	37,500	33,000	
	---	---	---	23,500	29,000	30,750	32,000	32,000	23,500	---	27,173	29,375	
	---	24,500	27,900	29,509	33,100	43,720	37,320	42,634	36,337	47,000	35,969	35,910	
	---	707	9,758	5,414	5,438	21,978	4,618	14,119	9,826	7,071	9,905	11,392	
	0	2	2	9	7	5	3	7	7	2	10	54	
Mfg Food	---	---	29,125	32,200	---	---	50,000	41,750	---	---	36,500	40,000	
	---	19,200	26,300	31,000	34,500	34,300	44,700	40,000	36,800	---	25,000	32,600	
	---	---	22,000	29,328	---	---	39,000	34,000	---	---	21,750	27,650	
	---	19,200	26,363	31,397	34,500	34,300	43,814	37,389	36,800	---	28,300	33,360	
	---	---	4,352	4,077	9,192	990	6,301	6,660	---	---	8,556	8,111	
	0	1	8	11	2	2	7	9	1	0	5	46	
Mfg Metals/ minerals	---	---	28,000	45,000	37,900	---	69,000	54,000	---	---	61,000	40,000	
	---	21,900	27,575	28,600	32,750	30,000	40,000	35,000	39,500	40,000	39,000	33,500	
	---	---	23,000	22,100	30,375	---	40,000	30,000	---	---	34,000	27,681	
	---	21,900	26,192	31,900	33,267	30,000	49,667	39,667	39,500	40,000	44,667	35,735	
	---	2,687	2,772	12,722	5,565	---	16,743	12,662	7,778	---	14,364	11,732	
	0	2	3	4	6	1	3	3	2	1	3	28	
Mfg Paper	---	---	---	30,000	---	---	---	59,100	---	---	---	45,125	
	---	---	31,000	27,000	35,750	40,500	---	47,350	---	44,000	35,500	39,750	
	---	---	---	26,500	---	---	---	44,375	---	---	---	27,750	
	---	---	31,000	27,833	35,750	40,500	---	50,275	---	44,000	35,500	38,381	
	---	---	7,071	1,893	5,303	707	---	8,374	---	---	17,678	10,609	
	0	0	2	3	2	2	0	4	0	1	2	16	
Mfg Petroleum	---	---	29,900	37,050	48,350	44,000	56,750	69,260	---	71,350	57,500	52,000	
	---	23,250	28,500	35,500	38,100	42,000	53,500	41,500	58,300	61,100	50,000	38,100	
	---	---	24,313	29,950	31,300	41,500	41,108	34,500	---	---	45,000	30,000	
	---	23,250	28,081	34,367	39,480	42,500	50,453	49,804	58,300	59,150	49,200	41,720	
	---	2,475	3,723	3,704	10,410	1,323	8,828	18,186	---	14,251	11,122	13,967	
	0	2	8	6	5	3	4	5	1	4	5	43	
Mfg Pharm	---	26,000	28,500	36,000	36,563	40,500	48,400	54,000	52,000	51,000	35,350	37,063	
	---	23,000	24,370	30,200	32,000	33,486	40,000	47,000	48,000	43,000	32,000	31,000	
	---	19,000	22,500	26,250	29,075	27,875	34,000	37,750	26,750	36,600	28,920	25,785	
	---	22,769	25,557	31,296	35,246	35,344	40,314	46,422	41,100	45,467	32,942	32,933	
	---	4,111	4,651	6,747	8,702	11,630	7,799	12,351	13,786	12,131	8,054	10,607	
	0	11	51	36	28	14	7	18	5	9	23	202	
Mfg Rubber	---	---	---	---	42,439	---	47,125	39,125	---	80,000	57,425	44,000	
	---	25,600	30,000	19,400	34,700	41,000	42,004	28,750	38,500	44,000	44,625	38,500	
	---	---	---	---	26,925	---	36,000	28,125	---	38,000	36,888	29,000	
	---	25,600	30,000	19,400	34,688	41,000	40,751	32,000	38,500	54,000	46,313	39,037	
	---	---	---	---	8,067	4,243	9,043	7,012	---	22,716	10,815	12,377	
	0	1	1	1	4	2	6	4	1	3	4	27	
Mfg Other	---	30,000	30,000	36,000	40,000	43,900	50,000	54,000	41,000	55,900	38,900	40,000	
	---	21,100	26,000	30,100	34,000	38,000	42,600	40,750	35,000	38,000	29,250	32,000	
	---	21,000	21,960	25,000	30,750	29,775	34,000	37,500	30,750	34,000	25,200	26,000	
	---	24,033	26,209	31,767	38,787	39,103	44,489	46,414	36,900	45,383	32,555	35,460	
	---	5,168	5,411	8,869	16,889	12,325	14,806	15,510	8,580	16,617	9,642	13,395	
	0	3	51	47	21	24	19	28	9	9	20	231	
Non-Mfg	---	---	32,225	30,900	45,000	42,718	54,750	41,670	---	---	31,000	36,000	
	---	---	26,000	28,000	30,000	34,750	37,962	34,440	29,000	30,750	26,500	30,000	
	---	---	20,700	23,150	27,000	25,950	29,903	28,875	---	---	22,500	25,475	
	---	---	25,933	27,480	35,867	34,786	40,872	34,963	29,000	30,750	26,925	31,614	
	---	---	7,306	7,159	15,036	10,125	13,688	9,697	1,414	354	5,148	10,645	
	0	0	12	13	15	8	4	12	2	2	8	76	
TOTAL	---	26,000	30,000	36,000	40,000	43,000	49,000	49,380	46,793	55,000	40,000	41,072	
	---	24,250	26,200	30,000	34,500	36,000	41,808	41,000	37,440	43,000	32,000	33,000	
	---	21,200	23,000	26,500	30,000	30,046	37,810	35,125	32,000	37,825	26,000	27,150	
	---	23,929	26,493	31,539	36,745	38,696	42,943	43,478	39,861	47,218	33,941	35,630	
	---	3,629	5,182	7,421	11,521	12,705	10,610	12,636	12,394	14,044	10,049	12,012	
	0	32	178	177	114	87	83	152	49	45	117	1,034	

TABLE-3.6.3

SALARIES of Ph.D. CHEMISTS EMPLOYED FULL-TIME in PRIVATE INDUSTRY  
by INDUSTRY and YEARS SINCE BS  
1982 Survey of ACS Members

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	---	---	34,450	41,400	47,503	53,500	60,000	62,000	69,000	73,000	51,250	52,000	- 75th %ile
	---	20,000	32,500	36,000	42,240	46,620	49,500	52,250	51,900	56,000	41,000	43,440	- Median
	---	---	30,765	32,880	37,675	42,248	42,840	44,484	44,000	45,000	35,000	35,000	- 25th %ile
	---	20,000	32,868	37,538	42,948	49,169	51,961	53,632	55,579	59,643	44,276	45,523	- Mean
	---	---	2,979	7,207	8,299	12,400	13,080	13,535	16,408	17,582	11,413	13,408	- Std Dev
	0	1	100	155	162	122	90	110	55	43	105	94.3	- Count
Mfg Coatings	---	---	34,875	45,000	49,985	53,700	60,000	58,375	---	---	43,550	50,000	
	---	---	33,600	35,000	44,000	40,000	50,000	51,750	34,000	32,500	35,220	38,400	
	---	---	31,350	30,100	36,000	36,900	48,500	43,714	---	---	30,450	33,000	
	---	---	33,325	38,748	43,546	44,047	53,786	51,280	34,000	32,500	39,474	41,939	
	---	---	2,374	11,566	8,920	10,847	9,712	7,659	0	---	13,856	11,467	
	0	0	8	13	16	15	7	4	2	1	17	83	
Mfg Food	---	---	35,375	33,375	48,750	60,500	63,300	62,875	---	51,950	43,500	48,000	
	---	---	29,000	31,000	40,800	37,800	47,000	54,000	50,000	46,500	36,650	38,150	
	---	---	27,375	29,250	29,625	33,500	42,000	46,250	---	37,875	33,400	31,250	
	---	---	30,667	31,425	42,514	46,160	50,900	54,375	50,000	45,230	37,813	42,065	
	---	---	4,095	3,870	17,335	17,519	11,564	8,616	42,426	7,501	6,545	14,430	
	0	0	6	12	14	9	12	4	2	5	8	72	
Mfg Metals/ minerals	---	---	---	45,500	39,750	51,375	48,500	57,600	64,250	75,000	58,500	51,230	
	---	---	---	38,300	35,000	42,000	47,500	55,000	52,000	45,000	36,400	44,000	
	---	---	---	33,750	32,000	37,650	41,600	49,000	50,298	40,600	24,650	36,824	
	---	---	---	39,926	35,894	43,783	45,540	55,041	56,219	53,533	40,540	45,031	
	---	---	---	3,911	4,444	7,776	4,075	8,970	7,954	18,720	18,089	11,683	
	0	0	0	10	8	6	5	7	5	3	5	49	
Mfg Paper	---	---	---	38,500	40,000	46,750	---	44,000	---	72,100	64,000	44,750	
	---	---	30,850	36,800	37,000	43,500	39,000	42,000	52,000	69,000	32,789	40,000	
	---	---	---	34,800	30,339	40,000	---	40,000	---	36,000	32,000	35,250	
	---	---	30,850	36,629	35,877	49,167	39,000	42,000	52,000	59,033	42,930	43,028	
	---	---	---	212	4,352	4,651	18,230	1,414	2,000	---	20,008	18,252	14,009
	0	0	2	7	7	12	2	3	1	3	3	40	
Mfg Petroleum	---	---	37,425	48,000	51,315	65,250	70,000	60,500	64,000	64,750	65,500	56,000	
	---	31,000	36,000	42,000	43,500	55,500	52,750	53,000	56,000	60,750	55,500	46,800	
	---	---	33,575	39,000	38,825	46,675	48,000	43,800	50,000	51,625	46,750	38,450	
	---	31,000	35,355	43,404	45,061	56,598	57,913	52,237	59,399	61,217	56,665	48,914	
	---	---	3,686	9,032	7,721	11,007	12,772	17,022	15,632	11,342	13,106	13,634	
	0	1	36	31	30	26	20	18	7	12	17	198	
Mfg Pharm	---	---	34,462	39,000	49,000	54,000	64,000	65,000	52,250	65,750	52,000	52,000	
	---	---	31,377	35,000	42,000	48,000	53,000	59,820	46,750	49,650	41,000	41,500	
	---	---	29,300	32,000	36,500	40,400	45,000	46,988	38,750	40,000	33,600	35,000	
	---	---	32,006	35,486	43,289	47,942	56,082	58,115	48,253	54,407	45,318	45,073	
	---	---	3,840	6,727	10,295	10,028	13,234	13,761	11,517	17,578	14,934	13,924	
	0	0	34	81	71	47	35	44	16	20	65	413	
Mfg Rubber	---	---	35,150	35,750	44,000	50,200	---	54,950	---	---	52,500	49,300	
	---	---	31,200	33,912	41,450	43,000	60,000	52,000	40,000	40,800	44,400	41,000	
	---	---	29,500	27,331	33,000	36,500	---	40,950	---	---	42,500	35,000	
	---	---	32,100	32,331	39,483	43,600	60,000	49,400	40,000	40,800	46,880	41,887	
	---	---	3,524	4,743	5,758	7,632	---	6,792	---	3,960	5,493	3,871	
	0	0	5	4	3	6	1	6	1	2	5	33	
Mfg Other	---	---	36,500	40,000	45,000	55,125	55,750	58,000	50,250	69,800	49,800	50,000	
	---	60,000	33,000	37,000	40,000	46,900	49,500	49,950	46,500	56,000	38,000	40,750	
	---	---	31,750	33,000	35,750	40,750	40,000	40,000	41,840	43,000	32,000	35,000	
	---	60,000	33,758	37,294	40,917	49,029	48,508	51,215	47,446	55,617	41,196	43,590	
	---	---	4,149	6,983	8,188	13,788	13,640	15,246	7,155	15,784	11,407	12,488	
	0	1	45	73	85	66	48	48	18	17	51	452	
Non-Mfg	---	---	34,250	42,075	44,000	60,750	49,500	55,000	52,000	73,125	47,675	47,250	
	---	---	31,350	37,000	40,200	48,150	45,000	50,220	44,500	59,854	35,460	40,351	
	---	---	27,250	33,750	35,325	39,580	36,250	41,200	39,000	45,750	31,500	34,000	
	---	---	30,821	38,014	39,313	49,838	47,875	48,260	43,640	60,535	37,462	42,304	
	---	---	4,066	7,904	9,586	14,524	20,677	12,531	16,589	14,487	10,336	13,732	
	0	0	14	18	24	14	8	7	9	6	10	110	
TOTAL	---	60,000	35,010	41,000	47,150	55,000	60,000	62,000	60,000	67,000	51,593	51,350	
	---	31,000	33,000	36,300	41,050	46,800	50,000	52,000	50,000	54,644	40,450	42,000	
	---	20,000	30,580	32,525	36,613	41,000	42,000	44,000	42,340	44,475	34,150	35,000	
	---	---	37,000	33,085	37,403	42,269	49,064	52,026	53,479	52,393	56,911	44,882	
	---	20,664	3,673	7,612	9,117	12,715	13,402	13,852	14,971	16,348	12,969	13,343	
	0	3	250	404	420	323	228	251	116	112	286	2,393	



TABLE-4.7.1

SALARIES of Ph.D. CHEMISTS EMPLOYED FULL-TIME in COLLEGE/UNIVERSITY  
by TYPE OF INSTITUTION and ACADEMIC RANK  
1982 Survey of ACS Members

RANK	SCHOOL								TOTAL	
	Private Doct.	Private Masters	Private Bachelors	Private Assoc.	Public Doct.	Public Masters	Public Bachelors	Public Assoc.		
Professor	52,000	35,375	30,699	---	43,000	35,200	35,000	34,700	43,313	- 75th %-ile
	40,000	30,500	27,150	37,000	41,000	31,000	30,000	31,500	35,000	- Median
	34,000	27,200	22,450	---	35,000	28,035	28,058	28,125	29,088	- 25th %-ile
	44,191	32,021	27,676	37,000	41,933	32,042	31,541	31,611	37,428	- Mean
	14,479	7,587	6,312	---	10,206	5,986	4,879	4,494	11,504	- Std Dev
	143	48	130	1	344	91	61	24	842	- Count
Associate professor	36,000	26,375	24,465	---	34,380	28,375	28,000	30,334	31,000	
	31,000	24,500	22,000	23,400	28,250	26,000	25,100	23,823	26,660	
	26,550	21,000	20,288	---	25,675	23,125	23,000	21,692	23,098	
	31,859	24,290	22,329	23,400	30,139	26,468	25,443	25,548	27,843	
	7,542	4,145	3,158	6,505	6,639	3,944	3,396	5,463	6,666	
	72	16	58	2	115	36	32	18	349	
Assistant professor	30,050	21,000	19,574	---	27,467	24,000	22,000	20,925	26,000	
	25,000	19,500	17,500	32,293	22,939	22,000	19,482	20,000	21,000	
	21,000	17,300	16,850	---	20,000	19,400	18,120	---	18,988	
	26,332	19,430	18,470	32,293	23,947	21,856	20,000	---	22,784	
	7,438	2,129	3,299	---	4,858	3,164	---	---	2,687	
	57	15	44	1	108	---	---	---	270	
Instructor or Lecturer	33,123	---	---	---	20,000	---	---	---	20,000	
	21,250	---	40,000	---	---	---	---	---	22,000	
	19,000	---	---	---	---	---	---	---	20,000	
	25,082	---	40,000	---	---	---	---	24,000	25,179	
	9,403	---	---	---	---	---	---	8,172	8,285	
	6	0	1	---	---	0	7	---	23	
Non-Faculty	31,180	---	---	---	---	---	---	---	30,021	
	28,750	---	---	---	---	---	---	---	25,791	
	25,437	---	---	---	20,225	---	---	---	21,000	
	29,230	---	---	---	27,161	---	---	---	27,762	
	7,016	---	---	---	12,020	---	---	---	10,792	
	18	0	0	44	0	0	0	0	62	
Unranked	33,500	---	19,761	---	30,970	---	---	28,300	28,945	
	27,000	---	16,500	21,850	23,950	---	---	23,200	23,100	
	19,000	---	12,350	---	20,125	---	---	21,000	19,255	
	26,399	---	16,144	21,850	24,615	---	---	24,776	23,793	
	8,790	---	4,159	---	6,052	---	---	5,144	7,009	
	9	0	5	1	12	0	0	7	34	
No Response	38,300	---	---	---	45,000	33,659	---	---	39,925	
	32,000	---	20,000	---	34,000	29,375	28,000	---	32,773	
	25,000	---	---	---	28,925	24,800	---	---	27,225	
	33,671	---	20,000	---	38,181	29,583	28,000	---	35,082	
	10,683	---	---	---	15,736	4,816	7,071	---	13,456	
	13	0	1	0	26	6	2	0	48	
TOTAL	42,000	32,700	28,500	34,647	42,900	33,650	30,800	32,000	37,000	
	33,000	27,000	23,000	28,000	33,500	28,945	28,000	26,250	30,000	
	27,000	21,000	20,000	20,325	26,250	25,000	23,000	21,008	24,000	
	36,057	28,064	24,462	27,589	35,245	29,524	27,689	26,795	32,050	
	13,616	8,105	6,495	7,434	11,975	6,282	6,092	6,516	11,440	
	318	79	239	5	657	149	117	64	1,628	

TABLE-4.7.2

SALARIES of Ph.D. CHEMISTS EMPLOYED FULL-TIME in COLLEGE/UNIVERSITY  
by ACADEMIC RANK and YEARS SINCE BS  
1982 Survey of ACS Members

YEARS SINCE BS	RANK							TOTAL	
	Professor	Assoc. Prof.	Assist. Prof.	Instr./ Lecturer	Non-Faculty	Un-ranked	No Response		
5-9	---	38,000	23,000	---	21,200	23,200	33,600	23,375	- 75th %ile
	---	30,500	20,000	21,500	19,300	14,000	25,000	20,000	- Median
	---	20,000	18,250	---	17,000	11,000	21,000	18,000	- 25th %ile
	---	29,500	21,200	21,500	18,214	16,480	26,533	21,154	- Mean
	---	9,042	4,230	---	5,577	8,704	6,438	5,480	- Std Dev
	0	3	53	1	7	5	3	72	- Count
10-14	40,000	32,450	26,000	22,550	31,161	30,880	44,800	28,000	
	28,900	25,100	22,000	21,000	25,000	21,850	28,700	22,500	
	24,500	22,113	19,000	18,500	21,000	18,000	19,200	20,000	
	31,580	26,957	22,835	20,367	25,494	23,576	31,340	24,344	
	7,901	7,062	5,402	3,430	5,811	5,997	14,777	6,622	
	5	40	107	6	13	7	5	183	
15-19	35,000	31,000	25,250	40,436	29,500	23,997	33,750	31,000	
	30,000	26,000	20,850	26,500	26,000	21,000	28,950	26,100	
	26,000	22,319	18,500	20,355	23,019	18,775	25,125	22,000	
	31,152	27,122	22,082	29,169	26,506	21,281	29,275	27,203	
	7,669	6,284	5,033	9,526	5,111	3,317	4,507	7,121	
	79	135	54	6	13	6	4	297	
20-24	38,900	31,000	32,000	26,000	30,000	38,500	45,000	36,000	
	31,651	27,850	28,500	25,000	24,150	30,600	30,400	30,000	
	28,000	24,000	21,470	18,000	20,750	27,050	27,000	26,025	
	33,924	28,306	27,833	23,000	26,438	32,050	34,841	31,826	
	8,954	5,873	7,221	4,359	7,121	6,219	8,209	8,496	
	184	78	16	3	8	4	7	300	
25-29	43,438	32,075	28,625	---	---	---	51,850	40,000	
	36,000	27,902	22,000	42,600	41,130	26,150	33,000	34,000	
	30,000	24,743	17,625	---	---	---	32,273	28,000	
	37,224	28,389	23,167	42,600	41,130	26,150	40,249	35,253	
	9,995	5,195	6,532	---	24,225	3,041	10,627	10,126	
	156	38	6	1	2	2	5	210	
30-34	46,000	38,988	52,000	---	27,233	36,000	32,200	43,500	
	36,800	26,000	24,664	16,000	26,200	22,000	32,000	35,520	
	30,000	24,000	22,600	---	21,250	21,030	28,350	28,600	
	38,635	29,690	33,088	16,000	24,633	26,343	30,850	37,107	
	11,689	9,206	16,411	---	3,677	8,377	2,167	11,862	
	159	13	3	1	5	3	3	187	
35-39	45,000	28,500	---	---	65,000	---	---	47,800	
	37,000	26,000	37,500	19,426	50,000	---	40,000	36,464	
	30,100	22,150	---	---	39,250	---	---	29,950	
	40,258	25,460	37,500	19,426	51,700	---	40,000	39,883	
	13,121	3,789	---	---	15,238	---	15,556	13,467	
	95	5	1	1	5	0	2	109	
>=40	51,000	30,925	---	40,000	---	---	87,500	50,000	
	42,500	28,000	15,000	30,250	32,580	---	43,000	41,000	
	35,000	24,875	---	23,120	---	---	25,875	32,000	
	44,573	29,290	15,000	31,123	32,580	---	52,125	42,812	
	13,675	6,147	---	3,474	679	---	33,834	14,843	
	103	10	1	3	2	0	4	123	
No Response	45,000	30,000	26,684	---	30,800	31,000	39,700	36,000	
	35,300	27,000	21,000	20,000	25,000	23,900	34,000	29,000	
	30,000	24,000	19,000	---	21,000	19,500	23,000	23,900	
	37,509	29,491	22,630	20,000	25,306	24,903	33,622	31,404	
	11,308	10,166	4,768	---	5,386	5,233	8,854	11,041	
	61	27	29	1	7	7	15	147	
TOTAL	43,313	31,000	26,000	27,000	30,021	28,945	39,925	37,000	
	35,000	26,660	21,000	22,000	25,791	23,100	32,773	30,000	
	29,088	23,098	18,988	20,000	21,000	19,255	27,225	24,000	
	37,428	27,843	22,784	25,179	27,762	23,793	35,082	32,050	
	11,504	6,666	5,687	8,285	10,792	7,009	13,456	11,440	
	842	349	270	23	62	34	48	1,628	

TABLE-4.7.3

SALARIES of Ph.D. CHEMISTS EMPLOYED FULL-TIME in COLLEGE/UNIVERSITY  
by WORK SPECIALTY and YEARS SINCE BS  
1982 Survey of ACS Members

YEARS SINCE BS	SPECIALTY											TOTAL
	Biochem	Agri./ Food	Analyt- ical	Environ- ment	Organic	In- organic	Pharm./ med/clin	Physi- cal	Theore.	Polymer/ macro.	Other Chem.	
5-9	29,700 19,250 15,000 21,513 7,496 8	---	30,425 21,500 18,550 23,360 8,076 10	21,200 18,000 16,500 18,567 2,401 3	24,500 21,000 19,200 22,594 5,055 17	21,120 20,000 17,500 20,252 2,797 15	27,750 21,500 12,000 20,200 8,878 5	19,250 18,425 17,138 18,130 1,779 10	---	---	---	23,375 - 75th %ile 20,000 - Median 18,000 - 25th %ile 21,154 - Mean 5,480 - Std Dev 72 - Count
10-14	30,025 27,000 20,000 26,207 7,435 46	25,000 23,948 22,599 23,849 1,339 4	26,000 21,250 18,800 22,769 6,238 19	33,285 27,850 21,625 28,323 7,264 8	24,075 21,650 19,121 23,091 7,205 48	25,300 21,000 20,000 22,127 3,628 21	29,700 26,000 22,500 26,457 3,685 7	24,000 21,500 19,000 21,840 3,499 15	33,500 31,500 24,120 29,192 7,737 7	34,200 29,000 22,750 28,650 6,107 4	26,344 24,600 16,550 22,498 5,768 4	28,000 22,500 20,000 24,344 6,622 183
15-19	35,000 27,950 22,313 28,683 7,562 58	37,625 29,250 21,625 29,500 8,554 4	30,000 26,000 21,000 25,850 5,137 31	29,138 26,150 25,625 26,971 2,101 4	27,875 24,750 21,125 25,222 5,879 80	30,000 28,000 21,850 26,603 5,267 38	40,000 35,000 30,000 34,777 8,449 17	29,100 24,000 21,525 26,208 7,954 41	35,100 30,542 25,025 29,931 5,307 6	44,225 28,150 25,913 34,142 12,404 6	31,250 24,500 20,755 25,798 6,620 12	31,000 26,100 22,000 27,203 7,121 297
20-24	40,750 34,500 30,000 35,335 7,983 48	44,425 36,000 30,000 36,988 7,587 8	37,775 28,750 24,857 31,053 7,905 34	33,500 29,000 26,525 28,875 5,246 8	33,205 28,142 24,000 29,519 7,420 74	32,209 29,500 25,150 30,220 7,784 42	51,375 43,750 34,125 44,417 13,232 12	32,395 28,981 25,450 29,950 7,248 46	35,700 30,600 25,400 30,880 7,379 13	45,486 39,200 33,525 38,741 7,422 6	36,000 31,000 22,323 30,097 7,284 9	36,000 30,000 26,025 31,826 8,496 300
25-29	48,568 39,900 31,250 40,278 11,542 37	55,000 37,000 35,000 42,333 11,015 3	45,000 32,500 26,000 34,653 10,383 18	44,750 39,300 34,000 39,360 5,583 5	36,000 32,773 27,853 32,799 7,745 68	38,400 32,000 26,880 31,596 7,308 23	53,375 48,500 39,313 47,925 10,277 8	37,800 32,300 25,000 32,532 8,991 31	37,000 24,000 22,000 27,667 8,145 3	42,023 34,525 30,000 36,398 8,053 8	59,320 41,500 20,079 40,346 18,674 6	40,000 34,000 28,000 35,253 10,126 210
30-34	51,500 46,000 34,981 43,869 13,956 36	50,125 47,000 42,375 46,500 4,143 4	34,500 28,750 27,000 29,928 5,414 18	36,000 34,000 32,000 34,000 2,000 3	38,275 32,000 26,625 33,595 9,781 44	41,950 34,500 29,050 38,352 16,833 20	51,100 48,245 42,250 47,029 7,547 10	39,338 32,634 29,250 34,045 6,701 37	---	54,000 50,000 32,000 43,257 13,051 7	38,706 31,850 21,373 31,884 10,727 8	43,500 35,520 28,600 37,107 11,862 187
35-39	59,750 50,000 32,000 47,279 14,278 28	45,000 45,000 42,500 44,167 1,443 3	36,322 28,000 26,500 31,583 8,555 9	54,000 50,600 40,000 48,200 7,302 3	42,408 35,000 30,175 36,920 10,869 28	40,300 30,500 26,000 32,936 9,870 12	81,465 52,000 33,250 56,286 27,708 5	41,913 35,500 30,813 36,886 7,857 16	---	---	32,375 30,250 27,750 30,125 2,462 4	47,800 36,464 29,950 39,883 13,467 109
>=40	68,000 51,600 42,000 53,204 19,309 27	51,750 49,200 38,625 46,650 6,775 6	38,060 34,400 29,648 34,564 4,801 8	---	49,875 37,520 32,000 40,573 13,887 32	42,500 33,000 28,975 35,631 10,537 13	---	47,500 41,000 32,050 41,591 10,938 25	41,625 28,600 23,300 31,175 9,941 4	58,000 47,000 31,750 45,300 14,567 5	---	50,000 41,000 32,000 42,812 14,843 123
No Response	41,850 31,000 25,050 34,692 11,890 25	51,500 36,600 29,000 39,520 11,613 5	26,400 20,000 18,130 22,635 5,833 12	41,000 33,000 22,900 32,300 9,070 3	39,905 30,017 23,500 32,288 4,545 36	28,750 25,250 20,500 24,892 4,545 16	36,000 29,701 25,000 32,821 13,073 15	37,200 30,000 25,020 32,607 12,245 19	27,800 26,000 23,000 25,600 2,425 3	53,000 41,500 31,839 42,113 11,550 4	38,500 26,000 22,000 29,468 8,440 9	36,000 29,000 23,900 31,404 11,041 147
TOTAL	45,000 33,500 27,000 36,532 14,207 313	47,850 38,500 30,000 38,711 10,130 37	32,500 27,285 22,355 28,416 8,125 159	36,000 30,084 25,750 31,391 8,938 37	35,000 28,400 23,000 30,205 9,955 427	32,626 27,888 22,000 28,995 9,644 200	47,125 36,000 29,000 38,635 14,772 80	36,000 30,000 24,245 31,162 9,886 240	33,375 29,292 24,340 29,719 6,941 36	47,000 35,950 29,000 37,915 11,238 43	37,000 27,000 21,325 29,711 10,120 56	37,000 30,000 24,000 32,050 11,440 1,628

TABLE-5.1.1

SALARIES of POST-DOCTORAL CHEMISTS  
 by TYPE OF SCHOOL and YEARS SINCE BS  
 1982 Survey of ACS Members

SCHOOL TYPE	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	TOTAL										
Doctorate	---	---	14,211	18,000	17,330	41,450	---	---	---	---	---	---	---	---	---	---	---	---	---	17,000	- 75th \$-11e	
	---	15,950	13,750	15,820	16,000	18,650	18,000	13,000	---	---	---	---	---	---	---	---	---	---	---	14,400	- Median	
	---	---	13,000	14,650	15,200	17,658	---	---	---	---	---	---	---	---	---	---	---	---	---	13,170	- 25th \$-11e	
	---	15,950	13,754	16,581	16,530	25,919	18,000	13,000	---	---	---	---	---	---	---	---	---	---	---	15,808	- Mean	
	---	2,192	1,854	2,702	1,958	15,399	---	---	---	---	---	---	---	---	---	---	---	---	---	3,904	- Std Dev	
	0	2	68	38	11	4	1	1	0	0	0	1	0	0	1	1	1	0	20	146	- Count	
Non-Doctorate	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	29,750	
	---	---	15,833	11,000	---	---	20,000	---	---	---	---	---	---	---	---	---	---	---	---	---	17,917	
	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	12,208	
	---	---	15,833	11,000	---	---	20,000	---	---	---	---	---	---	---	---	---	---	---	---	---	19,958	
	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	9,440	
	0	0	1	1	0	0	1	0	0	0	0	1	0	1	0	0	0	0	0	4		
TOTAL	---	---	14,325	18,000	17,330	41,450	---	---	---	---	---	---	---	---	---	---	---	---	---	---	17,000	
	---	15,950	14,000	15,800	16,000	18,650	19,000	13,000	33,000	20,500	18,000	---	---	---	---	---	---	---	---	---	14,400	
	---	---	13,000	14,500	15,200	17,658	---	---	---	---	---	---	---	---	---	---	---	---	---	---	13,170	
	---	15,950	13,784	16,243	16,530	25,919	19,000	13,000	33,000	20,500	15,808	---	---	---	---	---	---	---	---	---	15,484	
	---	2,192	1,857	2,802	1,958	15,399	1,414	---	---	---	---	---	---	---	---	---	---	---	---	---	4,145	
	0	2	69	39	11	4	2	1	0	0	1	1	0	1	0	1	1	0	20	150		

TABLE-6.1.1

SALARIES OF FULL-TIME EMPLOYED CHEMICAL ENGINEERS  
by HIGHEST DEGREE and YEARS SINCE BS  
1982 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	25,500	27,500	33,000	36,875	44,500	46,375	55,400	53,000	62,700	54,000	---	50,000	- 75th %-ile
	24,150	25,950	29,100	31,700	38,540	40,560	45,000	46,050	54,000	44,000	---	40,000	- Median
	18,375	23,475	25,500	28,140	35,000	35,985	40,000	39,925	42,000	34,500	---	30,090	- 25th %-ile
	22,067	25,225	28,232	33,649	40,732	41,807	46,739	48,728	53,421	47,125	---	42,114	- Mean
	5,339	3,858	5,537	7,859	7,246	11,664	11,444	15,348	15,298	14,626	---	15,421	- Std Dev
	6	32	31	16	17	26	31	70	43	33	0	305	- Count
Masters	---	31,850	34,140	42,200	52,500	49,650	54,750	60,000	51,900	55,000	47,500	51,925	
	---	29,850	31,700	34,900	40,000	42,000	48,420	51,000	46,200	50,000	39,600	42,000	
	---	27,525	28,446	30,000	33,500	37,263	40,250	44,400	38,520	40,000	30,500	33,750	
	---	29,600	32,080	36,173	44,039	42,221	48,032	54,147	48,054	49,846	39,058	44,208	
	---	2,403	5,363	6,893	14,241	14,241	10,428	15,944	13,191	10,189	9,704	13,458	
	0	6	38	21	21	19	20	43	31	35	12	246	
Doctorate	---	---	38,750	40,750	54,875	60,000	60,700	60,000	59,640	63,000	53,250	55,000	
	---	27,000	35,000	37,310	45,000	51,000	48,600	48,000	47,700	50,000	40,750	45,000	
	---	---	32,125	32,070	36,925	45,000	42,120	41,600	40,500	39,000	32,400	36,425	
	---	27,000	35,095	37,358	46,371	52,490	51,494	50,539	49,976	52,528	44,208	46,627	
	---	---	6,210	8,898	11,993	12,573	14,817	12,731	13,081	15,051	13,644	13,618	
	0	1	28	52	52	51	37	43	21	31	26	342	
No Response	---	---	---	---	---	---	---	---	---	---	---	56,000	
	---	---	---	---	---	---	---	---	---	---	---	40,000	
	---	---	---	---	---	---	---	---	---	---	---	33,000	
	---	---	---	---	---	---	---	---	---	---	---	43,600	
	---	---	---	---	---	---	---	---	---	---	---	12,095	
	0	0	0	0	0	0	0	0	0	0	5	5	
TOTAL	25,500	28,000	35,000	41,000	52,250	54,770	57,350	59,865	59,280	58,000	50,000	52,475	
	24,150	26,500	32,000	36,000	42,000	46,400	47,820	48,150	48,000	49,200	40,000	42,000	
	18,375	24,000	27,850	30,000	36,825	40,000	40,601	41,125	40,000	40,000	32,100	34,000	
	22,067	25,944	31,720	36,412	44,762	47,564	49,032	50,721	50,908	49,779	42,700	44,415	
	5,339	3,934	6,230	8,315	11,923	12,549	12,823	14,924	14,222	13,416	12,438	14,314	
	6	39	97	90	96	88	156	95	99	99	43	898	

TABLE-7.1.0

EMPLOYMENT STATUS OF RESPONDENTS  
by WORK FIELD  
1982 Survey of ACS Members

EMPLOYMENT STATUS	WORK FIELD				TOTAL	
	Chemical Engineering	Chem-istry	Non-Chemical	No Response		
Post-doctorate or Other Fellowship	6 2.7% 0.6%	204 93.2% 2.1%	6 2.7% 0.5%	3 1.4% 1.4%	219 100.0% 1.8%	-Count -% of Row -% of Col
Employed Full-time	956 8.8% 89.7%	8,761 80.3% 91.2%	1,028 9.4% 89.5%	163 1.5% 73.8%	10,908 100.0% 90.6%	
Unemployed Seeking	18 9.2% 1.7%	144 73.8% 1.5%	24 12.3% 2.1%	9 4.6% 4.1%	195 100.0% 1.6%	
Unemployed Not Seeking	20 14.6% 1.9%	84 61.3% 0.9%	18 13.1% 1.6%	15 10.9% 6.8%	137 100.0% 1.1%	
Employed Part-time	16 9.6% 1.5%	126 75.9% 1.3%	21 12.7% 1.8%	3 1.8% 1.4%	166 100.0% 1.4%	
No Response	50 12.0% 4.7%	285 68.7% 3.0%	52 12.5% 4.5%	28 6.7% 12.7%	415 100.0% 3.4%	
TOTAL	1,066 8.9% 100.0%	9,604 79.8% 100.0%	1,149 9.5% 100.0%	221 1.8% 100.0%	12,040 100.0% 100.0%	

TABLE-7.2.0

EMPLOYMENT STATUS OF CHEMISTS  
by HIGHEST DEGREE  
1982 Survey of ACS Members

EMPLOYMENT STATUS	HIGHEST DEGREE				TOTAL	
	Bachelors	Masters	Doctorate	No Response		
Post-doctorate or Other Fellowship	2 1.0% 0.1%	5 2.5% 0.3%	196 96.1% 3.6%	1 0.5% 1.1%	204 100.0% 2.1%	-Count -% of Row -% of Col
Employed Full-time	2,196 25.1% 91.2%	1,524 17.4% 93.4%	4,955 56.6% 90.6%	86 1.0% 91.5%	8,761 100.0% 91.2%	
Unemployed Seeking	52 36.1% 2.2%	22 15.3% 1.3%	67 46.5% 1.2%	3 2.1% 3.2%	144 100.0% 1.5%	
Unemployed Not Seeking	40 47.6% 1.7%	12 14.3% 0.7%	31 36.9% 0.6%	1 1.2% 1.1%	84 100.0% 0.9%	
Employed Full-time	43 34.1% 1.8%	21 16.7% 1.3%	62 49.2% 1.1%	0 0.0% 0.0%	126 100.0% 1.3%	
No Response	76 26.7% 3.2%	47 16.5% 2.9%	159 55.8% 2.9%	3 1.1% 3.2%	285 100.0% 3.0%	
TOTAL	2,409 25.1% 100.0%	1,631 17.0% 100.0%	5,470 57.0% 100.0%	94 1.0% 100.0%	9,604 100.0% 100.0%	

TABLE-7.2.1

EMPLOYMENT STATUS OF CHEMISTS - MEN Only  
by HIGHEST DEGREE  
1982 Survey of ACS Members

EMPLOYMENT STATUS	HIGHEST DEGREE			No Response	TOTAL	
	Bachelors	Masters	Doctorate			
Post-doctorate or Other Fellowship	1 0.6% 0.1%	3 1.9% 0.2%	154 97.5% 3.1%	0 0.0% 0.0%	158	-Count 100.0% -% of Row 1.9% -% of Col
Employed Full-time	1,766 23.2% 92.6%	1,258 16.5% 95.2%	4,513 59.3% 91.6%	72 0.9% 92.3%	7,609	
Unemployed Seeking	38 35.5% 2.0%	13 12.1% 1.0%	54 50.5% 1.1%	2 1.9% 2.6%	107	100.0% 1.3%
Unemployed Not Seeking	20 43.5% 1.0%	5 10.9% 0.4%	20 43.5% 0.4%	1 2.2% 1.3%	46	100.0% 0.6%
Employed Part-time	26 36.1% 1.4%	5 6.9% 0.4%	41 56.9% 0.8%	0 0.0% 0.0%	72	100.0% 0.9%
No Response	57 23.3% 3.0%	38 15.5% 2.9%	147 60.0% 3.0%	3 1.2% 3.8%	245	100.0% 3.0%
TOTAL	1,908 23.2% 100.0%	1,322 16.0% 100.0%	4,929 59.8% 100.0%	78 0.9% 100.0%	8,237	100.0%



TABLE-7.2.2

EMPLOYMENT STATUS OF CHEMISTS - WOMEN Only  
by HIGHEST DEGREE  
1982 Survey of ACS Members

EMPLOYMENT STATUS	HIGHEST DEGREE				TOTAL	
	Bachelors	Masters	Doctorate	No Response		
Post-doctorate or Other Fellowship	1 2.3% 0.2%	2 4.5% 0.7%	40 90.9% 8.8%	1 2.3% 9.1%	44 100.0% 3.6%	-Count -% of Row -% of Col
Employed Full-time	404 39.4% 86.0%	246 24.0% 86.0%	366 35.7% 80.8%	9 0.9% 81.8%	1,025 100.0% 84.0%	
Unemployed Full-time	13 39.4% 2.8%	9 27.3% 3.1%	10 30.3% 2.2%	1 3.0% 9.1%	33 100.0% 2.7%	
Unemployed Not Seeking	18 52.9% 3.8%	7 20.6% 2.4%	9 26.5% 2.0%	0 0.0% 0.0%	34 100.0% 2.8%	
Employed Part-time	16 32.0% 3.4%	15 30.0% 5.2%	19 38.0% 4.2%	0 0.0% 0.0%	50 100.0% 4.1%	
No Response	18 52.9% 3.8%	7 20.6% 2.4%	9 26.5% 2.0%	0 0.0% 0.0%	34 100.0% 2.8%	
TOTAL	470 38.5% 100.0%	286 23.4% 100.0%	453 37.1% 100.0%	11 0.9% 100.0%	1,220 100.0% 100.0%	

TABLE-7.3.0

EMPLOYMENT STATUS OF CHEMISTS  
by AGE LEVEL  
1982 Survey of ACS Members

EMPLOYMENT STATUS	AGE LEVEL										No Response	TOTAL	
	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69			>=70
Post-doctorate or Other Fellowship	1 0.5% 0.4%	90 44.1% 8.5%	60 29.4% 4.2%	27 13.2% 1.8%	16 7.8% 1.2%	2 1.0% 0.2%	3 1.5% 0.3%	1 0.5% 0.1%	2 1.0% 0.3%	0 0.0% 0.0%	1 0.5% 3.8%	1 0.5% 1.7%	204 100.0% 2.1%
Employed Full-time	208 2.4% 93.3%	920 10.5% 86.4%	1,281 14.6% 90.5%	1,409 16.1% 91.7%	1,281 14.6% 92.6%	966 11.0% 94.3%	997 11.4% 93.6%	901 10.3% 92.5%	597 6.8% 88.4%	128 1.5% 81.0%	21 0.2% 80.8%	52 0.6% 89.7%	8,761 100.0% 91.2%
Unemployed Seeking	6 4.2% 2.7%	13 9.0% 1.2%	20 13.9% 1.4%	27 18.8% 1.8%	20 13.9% 1.4%	13 9.0% 1.3%	17 11.8% 1.6%	12 8.3% 1.2%	11 7.6% 1.6%	4 2.8% 2.5%	1 0.7% 3.8%	0 0.0% 0.0%	144 100.0% 1.5%
Unemployed Not Seeking	1 1.2% 0.4%	6 7.1% 0.6%	11 13.1% 0.8%	9 10.7% 0.6%	8 9.5% 0.6%	5 6.0% 0.5%	3 3.6% 0.3%	8 9.5% 0.8%	19 22.6% 2.8%	12 14.3% 7.6%	1 1.2% 3.8%	1 1.2% 1.7%	84 100.0% 0.9%
Employed Part-time	2 1.6% 0.9%	13 10.3% 1.2%	16 12.7% 1.1%	19 15.1% 1.2%	16 12.7% 1.2%	5 4.0% 0.5%	5 4.0% 0.5%	21 16.7% 2.2%	14 11.1% 2.1%	11 8.7% 7.0%	2 1.6% 7.7%	2 1.6% 3.4%	126 100.0% 1.3%
No Response	5 1.8% 2.2%	23 8.1% 2.2%	28 9.8% 2.0%	45 15.8% 2.9%	43 15.1% 3.1%	33 11.6% 3.2%	40 14.0% 3.8%	31 10.9% 3.2%	32 11.2% 4.7%	3 1.1% 1.9%	0 0.0% 0.0%	2 0.7% 3.4%	285 100.0% 3.0%
TOTAL	223 2.3% 100.0%	1,065 11.1% 100.0%	1,416 14.7% 100.0%	1,536 16.0% 100.0%	1,384 14.4% 100.0%	1,024 10.7% 100.0%	1,065 11.1% 100.0%	974 10.1% 100.0%	675 7.0% 100.0%	158 1.6% 100.0%	26 0.3% 100.0%	58 0.6% 100.0%	9,604 100.0% 100.0%

TABLE-7.4.0

EMPLOYMENT STATUS OF CHEMISTS  
by MINORITY GROUP CLASSIFICATION  
1982 Survey of ACS Members

EMPLOYMENT STATUS	RACE							None of Above	No Response	TOTAL
	White	Black	American Indian	Asian/Pacific	Hispanic	Above	Response			
Post-doctorate or Other Fellowship	149 73.0% 1.7%	0 0.0% 0.0%	1 0.5% 6.3%	47 23.0% 8.4%	2 1.0% 3.1%	3 1.5% 8.6%	2 1.0% 2.7%	204 100.0% 2.1%	-Count -% of Row -% of Col	
Employed Full-time	8,026 91.6%	88 1.0% 91.7%	13 0.1% 81.3%	478 5.5% 85.5%	58 0.7% 89.2%	30 0.3% 85.7%	68 0.8% 90.7%	8,761 100.0% 91.2%		
Unemployed Seeking	131 91.0% 1.5%	2 1.4% 2.1%	1 0.7% 6.3%	7 4.9% 1.3%	2 1.4% 3.1%	0 0.0% 0.0%	1 0.7% 1.3%	144 100.0% 1.5%		
Unemployed Not Seeking	77 91.7% 0.9%	0 0.0% 0.0%	0 0.0% 0.0%	5 6.0% 0.9%	1 1.2% 1.5%	0 0.0% 0.0%	1 1.2% 1.3%	84 100.0% 0.9%		
Employed Part-time	113 89.7% 1.3%	2 1.6% 2.1%	0 0.0% 0.0%	7 5.6% 1.3%	1 0.8% 1.5%	1 0.8% 2.9%	2 1.6% 2.7%	126 100.0% 1.3%		
No Response	262 91.9% 3.0%	4 1.4% 4.2%	1 0.4% 6.3%	15 5.3% 2.7%	1 0.4% 1.5%	1 0.4% 2.9%	1 0.4% 1.3%	285 100.0% 3.0%		
TOTAL	8,758 91.2% 100.0%	96 1.0% 100.0%	16 0.2% 100.0%	559 5.8% 100.0%	65 0.7% 100.0%	35 0.4% 100.0%	75 0.8% 100.0%	9,604 100.0% 100.0%		

TABLE-7.5.0

EMPLOYMENT STATUS OF CHEMISTS  
by CITIZENSHIP  
1982 Survey of ACS Members

EMPLOYMENT STATUS	CITIZENSHIP				TOTAL	
	US Citizen	Permanent Resident	Other	No Response		
Post-doctorate or Other Fellowship	147 72.1% 1.6%	19 9.3% 5.2%	36 17.6% 56.3%	2 1.0% 2.9%	204 100.0% 2.1%	-Count -% of Row -% of Col
Employed Full-time	8,348 95.3% 91.7%	328 3.7% 90.4%	26 0.3% 40.6%	59 0.7% 84.3%	8,761 100.0% 91.2%	
Unemployed Seeking	138 95.8% 1.5%	4 2.8% 1.1%	0 0.0% 0.0%	2 1.4% 2.9%	144 100.0% 1.5%	
Unemployed Not Seeking	82 97.6% 0.9%	1 1.2% 0.3%	1 1.2% 1.6%	0 0.0% 0.0%	84 100.0% 0.9%	
Employed Part-time	117 92.9% 1.3%	5 4.0% 1.4%	1 0.8% 1.6%	3 2.4% 4.3%	126 100.0% 1.3%	
No Response	275 96.5% 3.0%	6 2.1% 1.7%	0 0.0% 0.0%	4 1.4% 5.7%	285 100.0% 3.0%	
TOTAL	9,107 94.8% 100.0%	363 3.8% 100.0%	64 0.7% 100.0%	70 0.7% 100.0%	9,604 100.0% 100.0%	



TABLE-7.6.1

EMPLOYMENT STATUS OF CHEMISTS  
by NON-ACADEMIC EMPLOYER  
1982 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/Local	Hospital	Non-Profit		Self-Employed	Other Employ
Post-doctorate or Other Fellowship	2 5.1%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	1 2.6%	0 0.0%	1 2.6%	1 2.6%	1 2.6%	17 43.6%	3 7.7%	2 5.1%	11 28.2%	0 0.0%	1 2.6%	39 100.0%
Employed Full-time	1,860 27.9%	267 4.0%	204 3.1%	155 2.3%	72 1.1%	344 5.2%	894 13.4%	129 1.9%	1,083 16.3%	339 5.1%	626 9.4%	212 3.2%	123 1.8%	253 3.8%	58 0.9%	42 0.6%	6,661 100.0%
Unemployed Seeking	23 1.2%	3 1.0%	4 1.8%	3 1.8%	2 2.7%	4 1.1%	11 1.2%	0 0.0%	23 2.0%	13 3.6%	6 0.9%	1 0.4%	5 3.6%	6 2.2%	2 2.4%	1 2.1%	107 100.0%
Unemployed Not Seeking	13 21.7%	6 10.0%	3 5.0%	1 1.7%	0 0.0%	3 5.0%	4 6.7%	1 1.7%	9 15.0%	0 0.0%	10 16.7%	2 3.3%	2 3.3%	4 6.7%	1 1.7%	1 2.1%	60 100.0%
Employed Part-time	8 12.9%	3 4.8%	0 0.0%	0 0.0%	0 0.0%	4 6.5%	1 1.6%	1 1.6%	7 11.5%	3 4.8%	9 14.5%	1 1.6%	2 3.2%	2 3.2%	20 32.3%	1 1.6%	62 100.0%
No Response	50 24.3%	8 3.9%	11 5.3%	7 4.2%	1 0.5%	12 5.8%	20 9.7%	5 2.4%	35 17.0%	9 4.4%	23 11.2%	11 5.3%	5 2.4%	3 1.5%	4 1.9%	2 1.0%	206 100.0%
TOTAL	1,956 27.4%	287 4.0%	222 3.1%	166 2.3%	75 1.1%	367 5.1%	931 13.0%	136 1.9%	1,158 16.2%	365 5.1%	691 9.7%	250 3.2%	139 1.9%	279 3.9%	85 1.2%	48 0.7%	7,135 100.0%

TABLE-7.6.2

EMPLOYMENT STATUS OF CHEMISTS  
by ACADEMIC EMPLOYER  
1982 Survey of ACS Members

EMPLOYMENT STATUS	ACADEMIC EMPLOYER										TOTAL	-Count	-% of Row	-% of Col		
	Private Doctorate	Private Master	Private Bachelor	Private Assoc.	Public Doctor.	Public Master	Public Bachelor	Public Assoc.	Public	Public						
Postdoctorate or Other Fellowship	70	0	4	0	87	0	0	0	0	0	0	0	161	100.0%	7.3%	-
	43.5%	0.0%	2.5%	0.0%	54.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%			
	14.8%	0.0%	1.3%	0.0%	9.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	7.3%			
Employed Full-time	353	95	269	17	733	171	131	114					1,883	100.0%	85.0%	
	18.7%	5.0%	14.3%	0.9%	38.9%	9.1%	7.0%	6.1%					100.0%			
	74.8%	95.0%	90.3%	89.5%	83.4%	95.0%	94.2%	89.1%					85.0%			
Unemployed Seeking	11	2	2	1	10	1	1	0					28	100.0%	1.3%	
	39.3%	7.1%	7.1%	3.6%	35.7%	3.6%	3.6%	0.0%					100.0%			
	2.3%	2.0%	0.7%	5.3%	1.1%	0.6%	0.7%	0.0%					1.3%			
Unemployed Not Seeking	6	1	1	0	10	0	2	1					21	100.0%	0.9%	
	28.6%	4.8%	4.8%	0.0%	47.6%	0.0%	9.5%	4.8%					100.0%			
	1.3%	1.0%	0.3%	0.0%	1.1%	0.0%	1.4%	0.8%					0.9%			
Employed Part-time	15	0	14	1	16	3	2	8					59	100.0%	2.7%	
	25.4%	0.0%	23.7%	1.7%	27.1%	5.1%	3.4%	13.6%					100.0%			
	3.2%	0.0%	4.7%	5.3%	1.8%	1.7%	1.4%	6.3%					2.7%			
No Response	17	2	8	0	23	5	3	5					63	100.0%	2.8%	
	27.0%	3.2%	12.7%	0.0%	36.5%	7.9%	4.8%	7.9%					100.0%			
	3.6%	2.0%	2.7%	0.0%	2.6%	2.8%	2.2%	3.9%					2.8%			
TOTAL	472	100	298	19	879	180	139	128					2,215	100.0%	100.0%	
	21.3%	4.5%	13.5%	0.9%	39.7%	8.1%	6.3%	5.8%					100.0%			
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%					100.0%			

TABLE-7.7.0

EMPLOYMENT STATUS of CHEMISTS  
by NON-ACADEMIC WORK FUNCTION  
1982 Survey of ACS Members

## NON-ACADEMIC WORK FUNCTION

EMPLOYMENT STATUS	Mgt R&D		Basic R&D	Applied R&D	Mgt Non-R&D	Market- ing	Prod & QC	Forsenic	Writing/ Editing	Data Proc	Consult- ing	Other	No Response		TOTAL			
	R&D												No	Response				
Post-doctorate or Other Fellowship	0.0%	0.0%	76.9%	7.7%	2.6%	0.0%	2.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4	39	100.0%	0.5%	-% of Row -% of Col
Employed Full-time	15.9%	95.7%	912	2,147	442	366	598	285	79	19	87	166	499	499	6,661	100.0%	93.4%	
Unemployed Seeking	9.3%	0.9%	9.3%	35.5%	6.5%	7.5%	13.1%	4.7%	1.9%	0.0%	4.7%	1.9%	5.6%	6	107	100.0%	1.5%	
Unemployed Not Seeking	11.7%	0.6%	18.3%	28.3%	8.3%	6.7%	6.7%	3.3%	0.0%	0.0%	3.3%	1.7%	11.7%	7	60	100.0%	0.8%	
Employed Part-time	3.2%	0.2%	11.3%	19.4%	3.2%	3.2%	1.6%	1.5%	8.1%	0.0%	37.1%	3.2%	8.1%	5	62	100.0%	0.9%	
No Response	14.1%	2.6%	9.7%	29.1%	10.2%	5.3%	7.3%	6.8%	1.9%	0.5%	2.4%	4.4%	8.3%	17	206	100.0%	2.9%	
TOTAL	1,109	15.5%	990	2,277	478	391	633	307	90	20	122	180	538	7,135	7,135	100.0%	100.0%	



TABLE-7.8.0

 EMPLOYMENT STATUS OF CHEMISTS  
 by WORK SPECIALTY  
 1982 Survey of ACS Members

EMPLOYMENT STATUS	WORK SPECIALTY											TOTAL	-Count	-% of Row	-% of Col
	Biochem	Agri/ Food	Analy- tic	Environ- mental	Organic	In- organic	Pharm/ Med/Clin	Physical	Theore	Polymer/ Macro	Other Chem				
Post-doctoral or Other Fellowship	66 32.4% 8.5%	2 1.0% 0.5%	11 5.4% 0.6%	6 2.9% 1.0%	47 23.0% 2.9%	17 8.3% 2.9%	17 8.3% 2.1%	30 14.7% 4.3%	1 0.5% 1.6%	4 2.0% 0.3%	3 1.5% 0.3%	204 100.0% 2.1%			
Employed Full-time	652 7.4% 83.9%	379 4.3% 90.2%	1,777 20.3% 93.3%	546 6.2% 89.2%	1,514 17.3% 92.0%	532 6.1% 91.1%	754 8.6% 92.1%	629 7.2% 89.2%	60 0.7% 93.8%	1,107 12.6% 94.1%	811 9.3% 90.6%	8,761 100.0% 91.2%			
Unemployed Seeking	12 8.3% 1.5%	8 5.6% 1.9%	35 24.3% 1.8%	17 11.8% 2.8%	17 11.8% 1.0%	4 2.8% 0.7%	15 10.4% 1.8%	11 7.6% 1.6%	1 0.7% 1.6%	15 10.4% 1.3%	9 6.3% 1.0%	144 100.0% 1.5%			
Unemployed Not Seeking	11 13.1% 1.4%	9 10.7% 2.1%	13 15.5% 0.7%	4 4.8% 0.7%	7 8.3% 0.4%	4 4.8% 0.7%	6 7.1% 0.7%	5 6.0% 0.7%	0 0.0% 0.0%	13 15.5% 1.1%	12 14.3% 1.3%	84 100.0% 0.9%			
Employed Part-time	12 9.5% 1.5%	6 4.8% 1.4%	12 9.5% 0.6%	7 5.6% 1.1%	22 17.5% 1.3%	16 12.7% 2.7%	2 1.6% 0.2%	10 7.9% 1.4%	1 0.8% 1.6%	11 8.7% 0.9%	27 21.4% 3.0%	126 100.0% 1.3%			
No Response	24 8.4% 3.1%	16 5.6% 3.8%	57 20.0% 3.0%	32 11.2% 5.2%	39 13.7% 2.4%	11 3.9% 1.9%	25 8.8% 3.1%	20 7.0% 2.8%	1 0.4% 1.6%	27 9.5% 2.3%	33 11.6% 3.7%	285 100.0% 3.0%			
TOTAL	777 8.1% 100.0%	420 4.4% 100.0%	1,905 19.8% 100.0%	612 6.4% 100.0%	1,646 17.1% 100.0%	584 6.1% 100.0%	819 8.5% 100.0%	705 7.3% 100.0%	64 0.7% 100.0%	1,177 12.3% 100.0%	895 9.3% 100.0%	9,604 100.0% 100.0%			

TABLE-7.9.0

EMPLOYMENT STATUS OF CHEMISTS  
by GEOGRAPHIC REGION  
1982 Survey of ACS Members

EMPLOYMENT STATUS	REGION										TOTAL	
	Pacific	Mountain	W.N. Central	W.S. Central	E.N. Central	E.S. Central	Mid-Atlantic	So. Atlantic	New England	No Response		
Post-doctorate or Other Fellowship	33 16.2% 3.1%	16 7.8% 4.4%	11 5.4% 2.0%	12 5.9% 1.5%	34 16.7% 1.8%	5 2.5% 1.5%	37 18.1% 1.7%	29 14.2% 2.2%	20 9.8% 3.5%	7 3.4% 1.5%	204 100.0% 2.1%	-Count -% of Row -% of Col
Employed Full-time	933 10.6% 87.6%	316 3.6% 87.8%	514 5.9% 91.1%	713 8.1% 91.2%	1,785 20.4% 92.1%	318 3.6% 92.7%	2,013 23.0% 92.6%	1,200 13.7% 91.6%	553 6.3% 91.0%	416 4.7% 90.2%	9,761 100.0% 91.2%	
Unemployed Seeking	25 17.4% 2.3%	4 2.8% 1.1%	8 5.6% 1.4%	6 4.2% 0.8%	30 20.8% 1.5%	2 1.4% 0.6%	31 21.5% 1.4%	21 14.6% 1.6%	8 5.6% 1.3%	9 6.3% 2.0%	144 100.0% 1.5%	
Unemployed Not Seeking	14 16.7% 1.3%	3 3.6% 0.8%	4 4.8% 0.7%	7 8.3% 0.9%	17 20.2% 0.9%	6 7.1% 1.7%	14 16.7% 0.6%	3 3.6% 0.2%	9 10.7% 1.5%	7 8.3% 1.5%	84 100.0% 0.9%	
Employed Part-time	31 24.6% 2.9%	7 5.6% 1.9%	7 5.6% 1.2%	11 8.7% 1.4%	19 14.3% 0.9%	2 1.6% 0.6%	20 15.9% 0.9%	19 15.1% 1.5%	5 4.0% 0.8%	6 4.8% 1.3%	126 100.0% 1.3%	
No Response	29 10.2% 2.7%	14 4.9% 3.9%	20 7.0% 3.5%	33 11.6% 4.2%	54 18.9% 2.8%	10 3.5% 2.9%	58 20.4% 2.7%	38 13.3% 2.9%	13 4.6% 2.1%	16 5.6% 3.5%	285 100.0% 3.0%	
TOTAL	1,065 11.1% 100.0%	360 3.7% 100.0%	564 5.9% 100.0%	782 8.1% 100.0%	1,938 20.2% 100.0%	343 3.6% 100.0%	2,173 22.6% 100.0%	1,310 13.6% 100.0%	608 6.3% 100.0%	461 4.8% 100.0%	9,604 100.0% 100.0%	

TABLE-8.1.0

LENGTH of UNEMPLOYMENT of CHEMISTS UNEMPLOYED on MARCH 1, 1982  
by HIGHEST DEGREE  
1982 Survey of ACS Members

MONTHS UNEMPLOYED	HIGHEST DEGREE				TOTAL	
	Bachelors	Masters	Doctorate	No Response		
0-1	12	6	16	1	35	-Count
	34.3%	17.1%	45.7%	2.9%	100.0%	-% of Row
	23.1%	27.3%	24.2%	33.3%	24.5%	-% of Col
2-4	16	8	15	1	40	
	40.0%	20.0%	37.5%	2.5%	100.0%	
	30.8%	36.4%	22.7%	33.3%	28.0%	
5-7	7	1	15	1	24	
	29.2%	4.2%	62.5%	4.2%	100.0%	
	13.5%	4.5%	22.7%	33.3%	16.8%	
8-10	7	3	4	0	14	
	50.0%	21.4%	28.6%	0.0%	100.0%	
	13.5%	13.6%	6.1%	0.0%	9.8%	
11-13	3	1	4	0	8	
	37.5%	12.5%	50.0%	0.0%	100.0%	
	5.8%	4.5%	6.1%	0.0%	5.6%	
14-18	0	2	3	0	5	
	0.0%	40.0%	60.0%	0.0%	100.0%	
	0.0%	9.1%	4.5%	0.0%	3.5%	
19-24	3	0	1	0	4	
	75.0%	0.0%	25.0%	0.0%	100.0%	
	5.8%	0.0%	1.5%	0.0%	2.8%	
25-36	4	0	5	0	9	
	44.4%	0.0%	55.6%	0.0%	100.0%	
	7.7%	0.0%	7.6%	0.0%	6.3%	
>=37	0	1	3	0	4	
	0.0%	25.0%	75.0%	0.0%	100.0%	
	0.0%	4.5%	4.5%	0.0%	2.8%	
TOTAL	52	22	66	3	143	
	36.4%	15.4%	46.2%	2.1%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	

TABLE-8.1.1

LENGTH of UNEMPLOYMENT of CHEMISTS UNEMPLOYED on MARCH 1, 1982  
by HIGHEST DEGREE - MEN Only  
1982 Survey of ACS Members

MONTHS UNEMPLOYED	HIGHEST DEGREE				TOTAL	
	Bachelors	Masters	Doctorate	No Response		
0-1	10	4	12	1	27	-Count
	37.0%	14.8%	44.4%	3.7%	100.0%	-% of Row
	26.3%	30.8%	22.6%	50.0%	25.5%	-% of Col
2-4	10	7	14	1	32	
	31.3%	21.9%	43.8%	3.1%	100.0%	
	26.3%	53.8%	26.4%	50.0%	30.2%	
5-7	5	0	13	0	18	
	27.8%	0.0%	72.2%	0.0%	100.0%	
	13.2%	0.0%	24.5%	0.0%	17.0%	
8-10	6	0	2	0	8	
	75.0%	0.0%	25.0%	0.0%	100.0%	
	15.8%	0.0%	3.8%	0.0%	7.5%	
11-13	2	1	3	0	6	
	33.3%	16.7%	50.0%	0.0%	100.0%	
	5.3%	7.7%	5.7%	0.0%	5.7%	
14-18	0	0	3	0	3	
	0.0%	0.0%	100.0%	0.0%	100.0%	
	0.0%	0.0%	5.7%	0.0%	2.8%	
19-24	2	0	0	0	2	
	100.0%	0.0%	0.0%	0.0%	100.0%	
	5.3%	0.0%	0.0%	0.0%	1.9%	
25-36	3	0	4	0	7	
	42.9%	0.0%	57.1%	0.0%	100.0%	
	7.9%	0.0%	7.5%	0.0%	6.6%	
>=37	0	1	2	0	3	
	0.0%	33.3%	66.7%	0.0%	100.0%	
	0.0%	7.7%	3.8%	0.0%	2.8%	
TOTAL	38	13	53	2	106	
	35.8%	12.3%	50.0%	1.9%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	

TABLE-8.1.2

LENGTH of UNEMPLOYMENT of CHEMISTS UNEMPLOYED on MARCH 1, 1982  
 by HIGHEST DEGREE - WOMEN Only  
 1982 Survey of ACS Members

MONTHS UNEMPLOYED	HIGHEST DEGREE				TOTAL	
	Bachelors	Masters	Doctorate	No Response		
0-1	1	2	2	0	5	-Count
	20.0%	40.0%	40.0%	0.0%	100.0%	-% of Row
	7.7%	22.2%	20.0%	0.0%	15.2%	-% of Col
2-4	6	1	1	0	8	
	75.0%	12.5%	12.5%	0.0%	100.0%	
	46.2%	11.1%	10.0%	0.0%	24.2%	
5-7	2	1	2	1	6	
	33.3%	16.7%	33.3%	16.7%	100.0%	
	15.4%	11.1%	20.0%	100.0%	18.2%	
8-10	1	3	2	0	6	
	16.7%	50.0%	33.3%	0.0%	100.0%	
	7.7%	33.3%	20.0%	0.0%	18.2%	
11-13	1	0	1	0	2	
	50.0%	0.0%	50.0%	0.0%	100.0%	
	7.7%	0.0%	10.0%	0.0%	6.1%	
14-18	0	2	0	0	2	
	0.0%	100.0%	0.0%	0.0%	100.0%	
	0.0%	22.2%	0.0%	0.0%	6.1%	
19-24	1	0	1	0	2	
	50.0%	0.0%	50.0%	0.0%	100.0%	
	7.7%	0.0%	10.0%	0.0%	6.1%	
25-36	1	0	0	0	1	
	100.0%	0.0%	0.0%	0.0%	100.0%	
	7.7%	0.0%	0.0%	0.0%	3.0%	
>=37	0	0	1	0	1	
	0.0%	0.0%	100.0%	0.0%	100.0%	
	0.0%	0.0%	10.0%	0.0%	3.0%	
TOTAL	13	9	10	1	33	
	39.4%	27.3%	30.3%	3.0%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	

TABLE-8.2.0

LENGTH of UNEMPLOYMENT of CHEMISTS UNEMPLOYED on MARCH 1, 1982  
by GEOGRAPHIC REGION  
1982 Survey of ACS Members

MONTHS UNEMPLOYED	REGION										TOTAL
	Pacific	W.N.	W.S.	E.N.	E.S.	Mid-	South	New	No	Response	
	Mountain	Central	Central	Central	Central	Atlantic	Atlantic	England			
0-1	7 20.0% 28.0%	0 0.0% 0.0%	1 2.9% 16.7%	7 20.0% 23.3%	0 0.0% 0.0%	8 22.9% 26.7%	7 20.0% 33.3%	4 11.4% 50.0%	0 0.0% 0.0%	35 100.0% 24.5%	
2-4	7 17.5% 28.0%	1 2.5% 25.0%	2 5.0% 33.3%	8 20.0% 26.7%	1 2.5% 50.0%	8 20.0% 26.7%	4 10.0% 19.0%	2 5.0% 25.0%	6 15.0% 66.7%	40 100.0% 28.0%	
5-7	4 16.7% 16.0%	0 0.0% 0.0%	2 8.3% 25.0%	8 33.3% 26.7%	1 4.2% 50.0%	5 20.8% 16.7%	3 12.5% 14.3%	0 0.0% 0.0%	0 0.0% 0.0%	24 100.0% 16.8%	
8-10	2 14.3% 8.0%	0 0.0% 0.0%	1 7.1% 12.5%	1 7.1% 3.3%	0 0.0% 0.0%	4 28.6% 13.3%	2 14.3% 9.5%	0 0.0% 0.0%	2 14.3% 22.2%	14 100.0% 9.8%	
11-13	3 37.5% 12.0%	1 12.5% 25.0%	0 0.0% 0.0%	1 12.5% 3.3%	0 0.0% 0.0%	2 25.0% 6.7%	1 12.5% 4.8%	0 0.0% 0.0%	0 0.0% 0.0%	8 100.0% 5.6%	
14-18	1 20.0% 4.0%	0 0.0% 0.0%	0 0.0% 0.0%	1 20.0% 3.3%	0 0.0% 0.0%	1 20.0% 3.3%	1 20.0% 4.8%	1 20.0% 12.5%	0 0.0% 0.0%	5 100.0% 3.5%	
19-24	0 0.0% 0.0%	1 25.0% 25.0%	1 25.0% 0.0%	1 25.0% 5.5%	0 0.0% 0.0%	1 25.0% 3.3%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	4 100.0% 2.8%	
25-36	1 11.1% 4.0%	0 0.0% 0.0%	2 22.2% 25.0%	3 33.3% 10.0%	0 0.0% 0.0%	1 11.1% 3.3%	1 11.1% 4.8%	1 11.1% 12.5%	0 0.0% 0.0%	9 100.0% 6.3%	
>=37	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%	2 50.0% 9.5%	0 0.0% 0.0%	1 25.0% 11.1%	4 100.0% 2.8%	
TOTAL	25 17.5% 100.0%	4 2.8% 100.0%	8 5.6% 100.0%	30 21.0% 100.0%	2 1.4% 100.0%	50 21.0% 100.0%	21 14.7% 100.0%	8 5.6% 100.0%	9 6.3% 100.0%	143 100.0% 100.0%	

TABLE-8.3-0

LENGTH of UNEMPLOYMENT of CHEMISTS UNEMPLOYED on MARCH 1, 1982  
by AGE LEVEL  
1982 Survey of ACS Members

AGE LEVEL

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		35 -Count
0-1	1 2.9% 16.7%	2 5.7% 15.4%	2 5.7% 10.0%	7 20.0% 25.9%	5 14.3% 25.0%	3 8.6% 23.1%	6 17.1% 35.3%	3 8.6% 27.3%	3 8.6% 27.3%	3 8.6% 75.0%	0 0.0% 0.0%	0 0.0% ***.0%	35 100.0% 24.5%
2-4	1 2.5% 16.7%	2 5.0% 15.4%	7 17.5% 35.0%	9 22.5% 33.3%	6 15.0% 30.0%	6 15.0% 46.2%	2 5.0% 11.8%	5 12.5% 45.5%	2 5.0% 18.2%	0 0.0% 0.0%	0 0.0% ***.0%	0 0.0% ***.0%	40 100.0% 28.0%
5-7	1 4.2% 16.7%	2 8.3% 15.4%	5 20.8% 25.0%	4 16.7% 14.8%	3 12.5% 15.0%	1 4.2% 7.7%	3 12.5% 17.6%	2 8.3% 18.2%	3 12.5% 27.3%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% ***.0%	24 100.0% 16.8%
8-10	3 21.4% 50.0%	4 28.6% 30.8%	3 21.4% 15.0%	2 14.3% 7.4%	1 7.1% 5.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	1 7.1% 9.1%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% ***.0%	14 100.0% 9.8%
11-13	0 0.0% 0.0%	0 0.0% 0.0%	2 25.0% 10.0%	3 37.5% 11.1%	0 0.0% 0.0%	0 0.0% 0.0%	1 12.5% 5.9%	1 12.5% 9.1%	1 12.5% 9.1%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% ***.0%	8 100.0% 5.6%
14-18	0 0.0% 0.0%	1 20.0% 7.7%	0 0.0% 0.0%	0 0.0% 0.0%	1 20.0% 5.0%	2 40.0% 15.4%	0 0.0% 0.0%	0 0.0% 0.0%	1 20.0% 9.1%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% ***.0%	5 100.0% 3.5%
19-24	0 0.0% 0.0%	1 25.0% 7.7%	0 0.0% 0.0%	0 0.0% 0.0%	1 25.0% 5.0%	0 0.0% 0.0%	2 50.0% 11.8%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% ***.0%	4 100.0% 2.8%
25-36	0 0.0% 0.0%	1 11.1% 7.7%	0 0.0% 0.0%	2 22.2% 7.4%	2 22.2% 10.0%	1 11.1% 7.7%	2 22.2% 11.8%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	1 11.1% 100.0%	0 0.0% ***.0%	9 100.0% 6.3%
>=37	0 0.0% 0.0%	0 0.0% 0.0%	1 25.0% 5.0%	0 0.0% 0.0%	1 25.0% 5.0%	0 0.0% 0.0%	1 25.0% 5.9%	0 0.0% 0.0%	0 0.0% 0.0%	1 25.0% 25.0%	0 0.0% 0.0%	0 0.0% ***.0%	4 100.0% 2.8%
TOTAL	6 4.2% 100.0%	13 9.1% 100.0%	20 14.0% 100.0%	27 18.9% 100.0%	20 14.0% 100.0%	13 9.1% 100.0%	17 11.9% 100.0%	11 7.7% 100.0%	11 7.7% 100.0%	4 2.8% 100.0%	1 0.7% 100.0%	0 0.0% ***.0%	143 100.0% 100.0%

TABLE-8.4.0

LENGTH of UNEMPLOYMENT of CHEMISTS UNEMPLOYED on MARCH 1, 1982  
by NON-ACADEMIC WORK FUNCTION  
1982 Survey of ACS Members

MONTHS UNEMPLOYED	WORK FUNCTION											TOTAL	
	Mgt R&D	Basic R&D	Applied R&D	Mgt Non-R&D	Market- ing	Prod & QC	For- senic	Writing/ Editing	Data Proc	Consult- ing	Other Response		No Response
0-1	2 8.0% 20.0%	2 8.0% 20.0%	9 36.0% 23.7%	2 8.0% 28.6%	2 8.0% 25.0%	4 16.0% 28.6%	1 4.0% 20.0%	0 0.0% 0.0%	0 0.0% ***.0%	1 4.0% 20.0%	1 4.0% 50.0%	1 4.0% 16.7%	25 100.0% 23.4%
2-4	2 5.3% 20.0%	2 5.3% 20.0%	16 42.1% 42.1%	4 10.5% 28.6%	4 10.5% 50.0%	5 13.2% 35.7%	2 5.3% 40.0%	1 2.6% 50.0%	0 0.0% ***.0%	3 7.9% 60.0%	1 2.6% 50.0%	0 0.0% 0.0%	38 100.0% 35.5%
5-7	3 14.3% 30.0%	3 14.3% 30.0%	7 33.3% 18.4%	1 4.8% 14.3%	1 4.8% 12.5%	3 14.3% 21.4%	0 0.0% 0.0%	1 4.8% 50.0%	0 0.0% ***.0%	0 0.0% 0.0%	0 0.0% 0.0%	2 9.5% 33.3%	21 100.0% 19.6%
8-10	0 0.0% 0.0%	2 28.6% 20.0%	1 14.3% 2.6%	0 0.0% 0.0%	1 14.3% 12.5%	1 14.3% 7.1%	1 14.3% 20.0%	0 0.0% 0.0%	0 0.0% ***.0%	1 14.3% 20.0%	0 0.0% 0.0%	0 0.0% 0.0%	7 100.0% 6.5%
11-13	1 25.0% 10.0%	0 0.0% 0.0%	2 50.0% 5.3%	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%	0 0.0% ***.0%	0 0.0% 0.0%	0 0.0% 0.0%	1 25.0% 16.7%	4 100.0% 3.7%
14-18	0 0.0% 0.0%	0 0.0% 0.0%	1 50.0% 2.6%	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%	1 50.0% 16.7%	2 100.0% 1.9%
19-24	0 0.0% 0.0%	0 0.0% 0.0%	1 25.0% 2.6%	1 25.0% 14.3%	0 0.0% 0.0%	1 25.0% 7.1%	1 25.0% 20.0%	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% 3.7%
25-36	2 50.0% 20.0%	0 0.0% 0.0%	1 25.0% 2.6%	1 25.0% 14.3%	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 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	4 100.0% 3.7%
>=37	0 0.0% 0.0%	1 50.0% 10.0%	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%	1 50.0% 16.7%	2 100.0% 1.9%
TOTAL	10 9.3% 100.0%	10 9.3% 100.0%	38 35.5% 100.0%	7 6.5% 100.0%	8 7.5% 100.0%	14 13.1% 100.0%	5 4.7% 100.0%	2 1.9% 100.0%	0 0.0% ***.0%	5 4.7% 100.0%	2 1.9% 100.0%	6 5.6% 100.0%	107 100.0% 100.0%





TABLE-9.1.0

RESPONDENTS by SEX and DEGREE  
1982 Survey of ACS Members

SEX	HIGHEST DEGREE				TOTAL	
	Bachelors	Masters	Doctorate	No Response		
Men	2,593	1,883	5,821	90	10,387	-Count
	25.0%	18.1%	56.0%	0.9%	100.0%	-% of Row
	81.5%	82.2%	90.4%	72.6%	86.3%	-% of Col
Women	545	368	514	11	1,438	
	37.9%	25.6%	35.7%	0.8%	100.0%	
	17.1%	16.1%	8.0%	8.9%	11.9%	
No Response	45	40	107	23	215	
	20.9%	18.6%	49.8%	10.7%	100.0%	
	1.4%	1.7%	1.7%	18.5%	1.8%	
TOTAL	3,183	2,291	6,442	124	12,040	
	26.4%	19.0%	53.5%	1.0%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	

TABLE-9.2.0

RESPONDENTS by AGE and HIGHEST DEGREE  
1982 Survey of ACS Members

AGE LEVEL	HIGHEST DEGREE				TOTAL	
	Bachelors	Masters	Doctorate	No Response		
20-24	252	17	4	2	275	-Count
	91.6%	6.2%	1.5%	0.7%	100.0%	-% of Row
	7.9%	0.7%	0.1%	1.6%	2.3%	-% of Col
25-29	587	277	397	6	1,267	
	46.3%	21.9%	31.3%	0.5%	100.0%	
	18.4%	12.1%	6.2%	4.8%	10.5%	
30-34	403	356	890	9	1,658	
	24.3%	21.5%	53.7%	0.5%	100.0%	
	12.7%	15.5%	13.8%	7.3%	13.8%	
35-39	291	314	1,186	19	1,810	
	16.1%	17.3%	65.5%	1.0%	100.0%	
	9.1%	13.7%	18.4%	15.3%	15.0%	
40-44	283	257	1,109	14	1,663	
	17.0%	15.5%	66.7%	0.8%	100.0%	
	8.9%	11.2%	17.2%	11.3%	13.8%	
45-49	250	228	792	10	1,280	
	19.5%	17.8%	61.9%	0.8%	100.0%	
	7.9%	10.0%	12.3%	8.1%	10.6%	
50-54	344	280	760	17	1,401	
	24.6%	20.0%	54.2%	1.2%	100.0%	
	10.8%	12.2%	11.8%	13.7%	11.6%	
55-59	372	294	635	15	1,316	
	28.3%	22.3%	48.3%	1.1%	100.0%	
	11.7%	12.8%	9.9%	12.1%	10.9%	
60-64	319	198	466	10	993	
	32.1%	19.9%	46.9%	1.0%	100.0%	
	10.0%	8.6%	7.2%	8.1%	8.2%	
65-69	54	44	132	3	233	
	23.2%	18.9%	56.7%	1.3%	100.0%	
	1.7%	1.9%	2.0%	2.4%	1.9%	
>=70	9	8	22	0	39	
	23.1%	20.5%	56.4%	0.0%	100.0%	
	0.3%	0.3%	0.3%	0.0%	0.3%	
No Response	19	18	49	19	105	
	18.1%	17.1%	46.7%	18.1%	100.0%	
	0.6%	0.8%	0.8%	15.3%	0.9%	
TOTAL	3,183	2,291	6,442	124	12,040	
	26.4%	19.0%	53.5%	1.0%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	

TABLE-9.2.1

RESPONDENTS by AGE and HIGHEST DEGREE - MEN Only  
1982 Survey of ACS Members

AGE LEVEL	HIGHEST DEGREE				TOTAL	
	Bachelors	Masters	Doctorate	No Response		
20-24	140	11	3	1	155	-Count
	90.3%	7.1%	1.9%	0.6%	100.0%	-% of Row
	5.4%	0.6%	0.1%	1.1%	1.5%	-% of Col
25-29	418	195	330	4	947	
	44.1%	20.6%	34.8%	0.4%	100.0%	
	16.1%	10.4%	5.7%	4.4%	9.1%	
30-34	322	281	771	6	1,380	
	23.3%	20.4%	55.9%	0.4%	100.0%	
	12.4%	14.9%	13.2%	6.7%	13.3%	
35-39	233	251	1,064	16	1,564	
	14.9%	16.0%	68.0%	1.0%	100.0%	
	9.0%	13.3%	18.3%	17.8%	15.1%	
40-44	235	207	1,020	13	1,475	
	15.9%	14.0%	69.2%	0.9%	100.0%	
	9.1%	11.0%	17.5%	14.4%	14.2%	
45-49	219	193	745	9	1,166	
	18.8%	16.6%	63.9%	0.8%	100.0%	
	8.4%	10.2%	12.8%	10.0%	11.2%	
50-54	320	254	716	16	1,306	
	24.5%	19.4%	54.8%	1.2%	100.0%	
	12.3%	13.5%	12.3%	17.8%	12.6%	
55-59	341	262	584	14	1,201	
	28.4%	21.8%	48.6%	1.2%	100.0%	
	13.2%	13.9%	10.0%	15.6%	11.6%	
60-64	302	178	438	7	925	
	32.6%	19.2%	47.4%	0.8%	100.0%	
	11.6%	9.5%	7.5%	7.8%	8.9%	
65-69	50	40	119	3	212	
	23.6%	18.9%	56.1%	1.4%	100.0%	
	1.9%	2.1%	2.0%	3.3%	2.0%	
>=70	2	0	4	0	6	
	33.3%	0.0%	66.7%	0.0%	100.0%	
	0.1%	0.0%	0.1%	0.0%	0.1%	
No Response	11	11	27	1	50	
	22.0%	22.0%	54.0%	2.0%	100.0%	
	0.4%	0.6%	0.5%	1.1%	0.5%	
TOTAL	2,593	1,883	5,821	90	10,387	
	25.0%	18.1%	56.0%	0.9%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	

TABLE 9.2.2

RESPONDENTS by AGE and HIGHEST DEGREE - WOMEN Only  
1982 Survey of ACS Members

AGE LEVEL	HIGHEST DEGREE				TOTAL	
	Bachelor's	Master's	Doctorate	No Response		
20-24	112	6	0	1	119	-Count
	94.1%	5.0%	0.0%	0.8%	100.0%	-% of Row
	20.6%	1.6%	0.0%	9.1%	8.3%	-% of Col
25-29	168	80	65	2	315	
	53.3%	25.4%	20.6%	0.6%	100.0%	
	30.8%	21.7%	12.6%	18.2%	21.9%	
30-34	81	72	109	2	264	
	30.7%	27.3%	41.3%	0.8%	100.0%	
	14.9%	19.6%	21.2%	18.2%	18.4%	
35-39	55	59	109	2	225	
	24.4%	26.2%	48.4%	0.9%	100.0%	
	10.1%	16.0%	21.2%	18.2%	15.6%	
40-44	45	46	80	0	171	
	26.3%	26.9%	46.8%	0.0%	100.0%	
	8.3%	12.5%	15.6%	0.0%	11.9%	
45-49	28	31	40	0	99	
	28.3%	31.3%	40.4%	0.0%	100.0%	
	5.1%	8.4%	7.8%	0.0%	6.9%	
50-54	18	23	39	0	80	
	22.5%	28.8%	48.8%	0.0%	100.0%	
	3.3%	6.3%	7.6%	0.0%	5.6%	
55-59	29	27	37	1	94	
	30.9%	28.7%	39.4%	1.1%	100.0%	
	5.3%	7.3%	7.2%	9.1%	6.5%	
60-64	7	18	18	3	46	
	15.2%	39.1%	39.1%	6.5%	100.0%	
	1.3%	4.9%	3.5%	27.3%	3.2%	
65-69	1	3	10	0	14	
	7.1%	21.4%	71.4%	0.0%	100.0%	
	0.2%	0.8%	1.9%	0.0%	1.0%	
>=70	0	1	3	0	4	
	0.0%	25.0%	75.0%	0.0%	100.0%	
	0.0%	0.3%	0.6%	0.0%	0.3%	
No Response	1	2	4	0	7	
	14.3%	28.6%	57.1%	0.0%	100.0%	
	0.2%	0.5%	0.8%	0.0%	0.5%	
TOTAL	545	368	514	11	1,438	
	37.9%	25.6%	35.7%	0.8%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	

TABLE-9.3.0

RESPONDENTS by WORK SPECIALTY and HIGHEST DEGREE  
1982 Survey of ACS Members

SPECIALTY	HIGHEST DEGREE				TOTAL	
	Bachelor's	Master's	Doctorate	No Response		
Chemical Engineering	364 34.1% 11.4%	294 27.6% 12.8%	402 37.7% 6.2%	6 0.6% 4.8%	1,066	-Count 100.0% -% of Row -% of Col
Biochemistry	53 6.8% 1.7%	73 9.4% 3.2%	643 82.8% 10.0%	8 1.0% 6.5%	777	100.0% 6.5%
Agricultural/ Food Chemistry	129 30.7% 4.1%	69 16.4% 3.0%	216 51.4% 3.4%	6 1.4% 4.8%	420	100.0% 3.5%
Analytical Chemistry	787 41.3% 24.7%	405 21.3% 17.7%	695 36.5% 10.8%	18 0.9% 14.5%	1,905	100.0% 15.8%
Environmental Chemistry	222 36.3% 7.0%	141 23.0% 6.2%	242 39.5% 3.8%	7 1.1% 5.6%	612	100.0% 5.1%
Organic Chemistry	269 16.3% 8.5%	207 12.6% 9.0%	1,155 70.2% 17.9%	15 0.9% 12.1%	1,646	100.0% 13.7%
Inorganic Chemistry	100 17.1% 3.1%	86 14.7% 3.8%	397 68.0% 6.2%	1 0.2% 0.8%	584	100.0% 4.9%
Pharmaceutical/ Medicinal/Clinical Chemistry	172 21.0% 5.4%	163 19.9% 7.1%	475 58.0% 7.4%	9 1.1% 7.3%	819	100.0% 6.8%
Physical Chemistry	50 7.1% 1.6%	36 5.1% 1.6%	612 86.8% 9.5%	7 1.0% 5.6%	705	100.0% 5.9%
Theoretical Chemistry	3 4.7% 0.1%	3 4.7% 0.1%	58 90.6% 0.9%	0 0.0% 0.0%	64	100.0% 0.5%
Polymer/ Macromolecular Chemistry	323 27.4% 10.1%	213 18.1% 9.3%	630 53.5% 9.8%	12 1.0% 9.7%	1,178	100.0% 9.8%
Other Chemical	301 33.6% 9.5%	235 26.3% 10.3%	347 38.8% 5.4%	12 1.3% 9.7%	895	100.0% 7.4%
Non-Chemical	338 29.4% 10.6%	321 28.0% 14.0%	485 42.2% 7.5%	4 0.3% 3.2%	1,148	100.0% 9.5%
No Response	72 32.6% 2.3%	45 20.4% 2.0%	85 38.5% 1.3%	19 8.6% 15.3%	221	100.0% 1.8%
TOTAL	3,183 26.4% 100.0%	2,291 19.0% 100.0%	6,442 53.5% 100.0%	124 1.0% 100.0%	12,040	100.0% 100.0%

TABLE-9.4.0

RESPONDENTS by MINORITY CLASSIFICATION and HIGHEST DEGREE  
1982 Survey of ACS Members

RACE	HIGHEST DEGREE				TOTAL	
	Bachelors	Masters	Doctorate	No Response		
White	3,013	2,110	5,772	91	10,986	-Count
	27.4%	19.2%	52.5%	0.8%	100.0%	-% of Row
	94.7%	92.1%	89.6%	73.4%	91.2%	-% of Col
Black	36	28	49	3	116	
	31.0%	24.1%	42.2%	2.6%	100.0%	
	1.1%	1.2%	0.8%	2.4%	1.0%	
American Indian	6	2	14	0	22	
	27.3%	9.1%	63.6%	0.0%	100.0%	
	0.2%	0.1%	0.2%	0.0%	0.2%	
Asian/Pacific Islander	77	101	479	10	667	
	11.5%	15.1%	71.8%	1.5%	100.0%	
	2.4%	4.4%	7.4%	8.1%	5.5%	
Hispanic	21	27	37	0	85	
	24.7%	31.8%	43.5%	0.0%	100.0%	
	0.7%	1.2%	0.6%	0.0%	0.7%	
None of Above	9	6	33	0	48	
	18.8%	12.5%	68.8%	0.0%	100.0%	
	0.3%	0.3%	0.5%	0.0%	0.4%	
No Response	21	17	58	20	116	
	18.1%	14.7%	50.0%	17.2%	100.0%	
	0.7%	0.7%	0.9%	16.1%	1.0%	
TOTAL	3,183	2,291	6,442	124	12,040	
	26.4%	19.0%	53.5%	1.0%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	

TABLE-9.5.0

 RESPONDENTS by MINORITY CLASIFICATION and SEX  
 1982 Survey of ACS Members

RACE	SEX			TOTAL	
	Men	Women	No Response		
White	9,549	1,291	146	10,986	-Count
	86.9%	11.8%	1.3%	100.0%	-% of Row
	91.9%	89.8%	67.9%	91.2%	-% of Col
Black	91	19	6	116	
	78.4%	16.4%	5.2%	100.0%	
	0.9%	1.3%	2.8%	1.0%	
American Indian	16	1	5	22	
	72.7%	4.5%	22.7%	100.0%	
	0.2%	0.1%	2.3%	0.2%	
Asian/Pacific Islander	548	107	12	667	
	82.2%	16.0%	1.8%	100.0%	
	5.3%	7.4%	5.6%	5.5%	
Hispanic	71	11	3	85	
	83.5%	12.9%	3.5%	100.0%	
	0.7%	0.8%	1.4%	0.7%	
None of Above	42	4	2	48	
	87.5%	8.3%	4.2%	100.0%	
	0.4%	0.3%	0.9%	0.4%	
No Response	70	5	41	116	
	60.3%	4.3%	35.3%	100.0%	
	0.7%	0.3%	19.1%	1.0%	
TOTAL	10,387	1,438	215	12,040	
	86.3%	11.9%	1.8%	100.0%	
	100.0%	100.0%	100.0%	100.0%	



TABLE-9.6.0

RESPONDENTS by MINORITY CLASSIFICATION and CITIZENSHIP  
1982 Survey of ACS Members

RACE	CITIZENSHIP				TOTAL	
	US Citizen	Perm Resident	Other	No Response		
White	10,670	206	35	75	10,986	-Count
	97.1%	1.9%	0.3%	0.7%	100.0%	-% of Row
	93.5%	47.4%	46.7%	66.4%	91.2%	-% of Col
Black	104	10	0	2	116	
	89.7%	8.6%	0.0%	1.7%	100.0%	
	0.9%	2.3%	0.0%	1.8%	1.0%	
American Indian	19	2	1	0	22	
	86.4%	9.1%	4.5%	0.0%	100.0%	
	0.2%	0.5%	1.3%	0.0%	0.2%	
Asian/Pacific Islander	426	197	36	8	667	
	63.9%	29.5%	5.4%	1.2%	100.0%	
	3.7%	45.3%	48.0%	7.1%	5.5%	
Hispanic	78	5	2	0	85	
	91.8%	5.9%	2.4%	0.0%	100.0%	
	0.7%	1.1%	2.7%	0.0%	0.7%	
None of Above	35	13	0	0	48	
	72.9%	27.1%	0.0%	0.0%	100.0%	
	0.3%	3.0%	0.0%	0.0%	0.4%	
No Response	85	2	1	28	116	
	73.3%	1.7%	0.9%	24.1%	100.0%	
	0.7%	0.5%	1.3%	24.8%	1.0%	
TOTAL	11,417	435	75	113	12,040	
	94.8%	3.6%	0.6%	0.9%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	

TABLE-9.7.0

 RESPONDENTS by ACS LOCAL SECTION and WORK SPECIALTY  
 1982 Survey of ACS Members

## SPECIALTY

LOCAL SECTION	SPECIALTY											TOTAL			
	Chemical Eng.	Biochem Chem.	Agri/Food Chem.	Analytical	Environmental	Organic	Inorganic	Pharm/Medicinal	Physical	Theor. Chem.	Polymer/Macro		Other Chem.	Non-Chem.	No Response
Southern California	50 10.6% 4.7%	36 7.6% 4.6%	12 2.5% 2.9%	75 15.9% 3.9%	30 6.3% 4.9%	52 11.0% 3.2%	25 5.3% 4.3%	39 8.2% 4.8%	23 4.9% 3.3%	1 0.2% 1.6%	45 9.5% 3.8%	34 7.2% 3.8%	44 9.3% 3.6%	7 1.5% 3.2%	473 100.0% 3.9%
California	40 8.0% 3.8%	42 8.5% 5.4%	42 8.5% 10.0%	78 15.7% 4.1%	23 4.6% 3.8%	53 10.7% 3.2%	22 4.4% 3.8%	25 5.0% 3.1%	39 7.8% 5.5%	3 0.6% 4.7%	40 8.0% 3.4%	25 5.0% 2.8%	55 11.1% 4.8%	10 2.0% 4.5%	497 100.0% 4.1%
Chicago	59 9.1% 5.5%	43 6.7% 5.5%	25 3.9% 6.0%	111 17.2% 5.8%	19 2.9% 3.1%	93 14.4% 5.7%	26 4.0% 4.5%	62 9.6% 7.6%	40 6.2% 5.7%	0 0.0% 0.0%	52 8.0% 4.4%	48 7.4% 5.4%	58 9.0% 5.1%	10 1.5% 4.5%	646 100.0% 5.4%
Delaware	36 12.8% 3.4%	6 2.1% 0.8%	5 1.8% 1.2%	34 12.1% 1.8%	11 3.9% 1.8%	34 12.1% 2.1%	11 3.9% 1.9%	23 8.2% 2.8%	6 2.1% 0.9%	3 1.1% 4.7%	62 22.0% 5.3%	14 5.0% 1.6%	35 12.4% 3.0%	2 0.7% 0.9%	282 100.0% 2.3%
New York	45 6.4% 4.2%	61 8.7% 7.9%	22 3.1% 5.2%	108 12.8% 4.7%	19 4.0% 4.6%	150 14.5% 6.2%	35 4.5% 5.5%	99 9.9% 8.5%	39 5.5% 5.5%	3 1.3% 14.1%	88 6.8% 4.1%	70 10.6% 8.4%	75 10.8% 6.6%	8 1.1% 3.6%	705 100.0% 5.9%
North Jersey	101 11.8% 9.5%	33 4.5% 4.9%	20 2.3% 4.8%	108 12.7% 5.7%	19 2.2% 3.1%	150 17.6% 9.1%	35 4.1% 6.0%	99 11.6% 12.1%	39 4.6% 5.5%	3 0.4% 4.7%	103 10.5% 7.5%	82 8.2% 7.8%	75 8.8% 6.5%	8 0.9% 3.6%	853 100.0% 7.1%
North Eastern	53 9.4% 5.0%	49 8.7% 6.3%	10 1.8% 2.4%	81 14.3% 4.3%	25 4.4% 4.1%	76 13.5% 4.6%	25 4.4% 4.3%	38 6.7% 4.6%	37 6.5% 5.2%	1 0.2% 1.6%	76 13.5% 6.5%	37 6.5% 4.1%	50 8.8% 4.4%	7 1.2% 3.2%	565 100.0% 4.7%
Philadelphia	32 7.1% 3.0%	27 6.0% 3.5%	14 3.1% 3.3%	62 13.7% 3.3%	22 4.9% 3.6%	55 12.2% 3.5%	20 4.4% 3.4%	55 12.2% 6.7%	24 5.3% 3.4%	2 0.4% 3.1%	67 14.9% 5.7%	28 6.2% 3.1%	40 8.9% 3.5%	3 0.7% 1.4%	451 100.0% 3.7%
Pittsburgh	35 14.9% 3.3%	6 2.6% 0.8%	2 0.9% 0.5%	42 17.9% 2.2%	20 8.1% 3.3%	19 8.1% 1.2%	10 4.5% 1.7%	4 1.7% 0.5%	23 9.8% 3.3%	1 0.4% 1.6%	30 12.8% 2.5%	21 8.9% 2.3%	21 8.9% 1.8%	1 0.4% 0.5%	235 100.0% 2.0%
Southeast Texas	69 16.7% 6.5%	26 6.3% 3.3%	13 3.1% 3.1%	75 18.2% 3.9%	19 4.6% 3.1%	51 12.3% 3.1%	11 2.7% 1.9%	12 2.9% 1.5%	23 5.6% 3.3%	2 0.5% 3.1%	37 9.0% 3.1%	35 8.5% 3.9%	32 7.7% 2.8%	8 1.9% 3.6%	413 100.0% 3.4%
Washington, DC	24 5.6% 2.3%	44 10.3% 5.7%	14 3.3% 3.3%	76 17.8% 4.0%	38 8.9% 6.2%	26 6.1% 1.6%	17 4.0% 2.9%	24 5.6% 2.9%	31 7.3% 4.4%	0 0.0% 0.0%	20 4.7% 1.7%	32 7.5% 3.6%	75 17.6% 6.5%	5 1.2% 2.3%	426 100.0% 3.5%
None of Above	480 7.9% 45.0%	371 6.1% 47.7%	225 3.7% 53.6%	1,012 16.7% 53.1%	339 5.6% 55.4%	889 14.7% 54.0%	341 5.6% 58.4%	340 5.6% 41.5%	360 5.9% 51.1%	37 0.6% 57.8%	571 9.4% 48.5%	442 7.5% 49.4%	558 9.2% 48.6%	97 1.6% 43.9%	6,062 100.0% 50.3%
No Response	42 9.7% 3.9%	28 6.5% 3.6%	16 3.7% 3.8%	61 14.1% 3.2%	19 4.4% 3.1%	46 10.6% 2.8%	9 2.1% 1.5%	28 6.5% 3.4%	21 4.9% 3.0%	2 0.5% 3.1%	42 9.7% 3.6%	34 7.9% 3.8%	29 6.7% 2.5%	55 12.7% 24.9%	432 100.0% 3.6%
TOTAL	1,066 8.9% 100.0%	777 6.5% 100.0%	420 3.5% 100.0%	1,905 15.8% 100.0%	612 5.1% 100.0%	1,646 13.7% 100.0%	584 4.9% 100.0%	819 6.8% 100.0%	705 5.9% 100.0%	64 0.5% 100.0%	1,178 9.8% 100.0%	895 7.4% 100.0%	1,148 9.5% 100.0%	221 1.8% 100.0%	12,040 100.0%



TABLE-9.9.0

 RESPONDENTS by ACS LOCAL SECTION and SEX  
 1982 Survey of ACS Members

LOCAL SECTION	SEX			TOTAL	
	Men	Women	No Response		
Southern California	398	62	13	473	-Count
	34.1%	13.1%	2.7%	100.0%	-% of Row
	3.8%	4.3%	6.0%	3.9%	-% of Col
California	430	57	10	497	
	86.5%	11.5%	2.0%	100.0%	
	4.1%	4.0%	4.7%	4.1%	
Chicago	563	75	3	646	
	87.2%	11.6%	1.2%	100.0%	
	5.4%	5.2%	3.7%	5.4%	
Delaware	258	20	4	282	
	91.5%	7.1%	1.4%	100.0%	
	2.5%	1.4%	1.9%	2.3%	
New York	590	106	9	705	
	83.7%	15.0%	1.3%	100.0%	
	5.7%	7.4%	4.2%	5.9%	
North Jersey	751	93	9	853	
	88.0%	10.9%	1.1%	100.0%	
	7.2%	6.5%	4.2%	7.1%	
North Eastern	478	81	6	565	
	84.6%	14.3%	1.1%	100.0%	
	4.6%	5.6%	2.8%	4.7%	
Philadelphia	386	56	9	451	
	85.6%	12.4%	2.0%	100.0%	
	3.7%	3.9%	4.2%	3.7%	
Pittsburgh	211	22	2	235	
	89.8%	9.4%	0.9%	100.0%	
	2.0%	1.5%	0.9%	2.0%	
Southeast Texas	353	55	5	413	
	85.5%	13.3%	1.2%	100.0%	
	3.4%	3.8%	2.3%	3.4%	
Washington, DC	335	83	8	426	
	78.6%	19.5%	1.9%	100.0%	
	3.2%	5.8%	3.7%	3.5%	
None of Above	5,329	677	56	6,062	
	87.9%	11.2%	0.9%	100.0%	
	51.3%	47.1%	26.0%	50.3%	
No Response	305	51	76	432	
	70.6%	11.8%	17.6%	100.0%	
	2.9%	3.5%	35.3%	3.6%	
TOTAL	10,387	1,438	215	12,040	
	86.3%	11.9%	1.8%	100.0%	
	100.0%	100.0%	100.0%	100.0%	

TABLE 9.10.0

RESPONDENTS by ACS LOCAL SECTION and AGE  
1982 Survey of ACS Members

ACS LOCAL SECTION	AGE LEVEL											No Response	TOTAL	
	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	>=70			
Southern California	7 1.5% 2.5%	52 11.0% 4.1%	71 15.0% 4.3%	70 14.8% 3.9%	63 13.3% 3.8%	53 11.2% 4.1%	53 11.2% 3.8%	41 8.7% 3.1%	41 8.7% 4.1%	12 2.5% 5.2%	4 0.8% 10.3%	6 1.3% 5.7%	473 100.0% 3.9%	-Count -% of Row -% of Col
California	10 2.0% 3.6%	46 9.3% 3.6%	83 16.7% 5.0%	93 18.7% 5.1%	76 15.3% 4.6%	34 6.8% 2.7%	47 9.5% 3.4%	55 11.1% 4.2%	35 7.0% 3.5%	12 2.4% 5.2%	2 0.4% 5.1%	4 0.8% 3.8%	497 100.0% 4.1%	
Chicago	18 2.8% 6.5%	90 13.9% 7.1%	101 15.6% 6.1%	85 13.2% 4.7%	68 10.5% 4.1%	63 9.8% 4.9%	80 12.4% 5.7%	79 12.2% 6.0%	47 7.3% 4.7%	12 1.9% 5.2%	0 0.0% 0.0%	3 0.5% 2.9%	646 100.0% 5.4%	
Delaware	2 0.7% 0.7%	25 8.9% 2.0%	34 12.1% 2.1%	25 8.9% 1.4%	31 11.0% 1.9%	23 8.2% 1.8%	50 17.7% 3.6%	46 16.3% 3.5%	36 12.8% 3.6%	7 2.5% 3.0%	0 0.0% 0.0%	3 1.1% 2.9%	282 100.0% 2.3%	
New York	21 3.0% 7.6%	83 11.8% 6.6%	93 13.2% 5.6%	96 13.6% 5.3%	87 12.3% 5.2%	75 10.6% 5.9%	76 10.8% 5.4%	88 12.5% 6.7%	70 9.9% 7.0%	12 1.7% 5.2%	2 0.3% 5.1%	2 0.3% 1.9%	705 100.0% 5.9%	
North Jersey	20 2.3% 7.3%	84 9.8% 6.6%	120 14.1% 7.2%	145 17.0% 8.0%	104 12.2% 6.3%	90 10.6% 7.0%	103 12.1% 7.4%	94 11.0% 7.1%	83 8.3% 7.2%	20 2.0% 7.3%	1 0.1% 2.6%	4 0.5% 3.8%	853 100.0% 7.1%	
North Eastern	16 2.8% 5.8%	71 12.6% 5.6%	86 15.2% 5.2%	85 15.0% 4.7%	82 14.5% 4.9%	58 10.3% 4.5%	62 11.0% 4.4%	58 10.3% 4.4%	38 6.7% 3.8%	5 0.9% 2.1%	0 0.0% 0.0%	4 0.7% 3.8%	565 100.0% 4.7%	
Philadelphia	9 2.0% 3.3%	47 10.4% 3.7%	65 14.4% 3.9%	73 16.2% 4.0%	47 10.4% 2.8%	56 12.4% 4.4%	52 11.5% 3.7%	52 11.5% 4.0%	38 8.4% 3.8%	9 2.0% 3.9%	0 0.0% 0.0%	3 0.7% 2.9%	451 100.0% 3.7%	
Pittsburgh	9 3.8% 3.3%	27 11.5% 2.1%	29 12.3% 1.7%	32 13.6% 1.8%	29 12.3% 1.7%	18 7.7% 1.4%	35 14.9% 2.5%	31 13.2% 2.4%	22 9.4% 2.2%	2 0.9% 0.9%	1 0.4% 2.6%	0 0.0% 0.0%	235 100.0% 2.0%	
Southeast Texas	12 2.9% 4.4%	48 11.6% 3.8%	69 16.7% 4.2%	65 15.7% 3.6%	51 12.3% 3.1%	36 8.7% 2.8%	44 10.7% 3.1%	40 9.7% 3.0%	38 9.2% 3.8%	6 1.5% 2.6%	0 0.0% 0.0%	4 1.0% 3.8%	413 100.0% 3.4%	
Washington, DC	8 1.9% 2.9%	35 8.2% 2.8%	51 12.0% 3.1%	71 16.7% 3.9%	72 16.9% 4.3%	52 12.2% 4.1%	46 10.8% 3.3%	42 9.9% 3.2%	39 9.2% 3.9%	6 1.4% 2.6%	1 0.2% 2.6%	3 0.7% 2.9%	426 100.0% 3.5%	
None of Above	127 2.1% 46.2%	603 9.9% 47.6%	802 13.2% 48.4%	910 15.0% 50.3%	912 15.0% 54.8%	685 11.3% 53.5%	721 11.9% 51.5%	650 10.7% 49.4%	494 8.1% 49.7%	129 2.1% 55.4%	5 0.1% 12.8%	24 0.4% 22.9%	6,062 100.0% 50.3%	
No Response	16 3.7% 5.8%	56 13.0% 4.4%	54 12.5% 3.3%	60 13.9% 3.3%	41 9.5% 2.5%	37 8.6% 2.9%	32 7.4% 2.3%	40 9.3% 3.0%	24 5.6% 2.4%	4 0.9% 1.7%	23 5.3% 59.0%	45 10.4% 42.9%	432 100.0% 3.6%	
TOTAL	275 2.3% 100.0%	1,267 10.5% 100.0%	1,658 13.8% 100.0%	1,810 15.0% 100.0%	1,663 13.8% 100.0%	1,280 10.6% 100.0%	1,401 11.6% 100.0%	1,316 10.9% 100.0%	993 8.2% 100.0%	233 1.9% 100.0%	39 0.3% 100.0%	105 0.9% 100.0%	12,040 100.0% 100.0%	

TABLE-9.11.0

RESPONDENTS by ACS LOCAL SECTION and HIGHEST DEGREE  
1982 Survey of ACS Members

ACS LOCAL SECTION	HIGHEST DEGREE				TOTAL	
	Bachelors	Masters	Doctorate	No Response		
Southern	159	80	230	4	473	-Count
California	33.6%	16.9%	48.6%	0.8%	100.0%	-% of Row
	5.0%	3.5%	3.6%	3.2%	3.9%	-% of Col
California	133	67	295	2	497	
	26.8%	13.5%	59.4%	0.4%	100.0%	
	4.2%	2.9%	4.6%	1.6%	4.1%	
Chicago	194	144	300	8	646	
	30.0%	22.3%	46.4%	1.2%	100.0%	
	6.1%	6.3%	4.7%	6.5%	5.4%	
Delaware	41	43	197	1	282	
	14.5%	15.2%	69.9%	0.4%	100.0%	
	1.3%	1.9%	3.1%	0.8%	2.3%	
New York	155	172	373	5	705	
	22.0%	24.4%	52.9%	0.7%	100.0%	
	4.9%	7.5%	5.8%	4.0%	5.9%	
North Jersey	213	207	424	9	853	
	25.0%	24.3%	49.7%	1.1%	100.0%	
	6.7%	9.0%	6.6%	7.3%	7.1%	
North Eastern	151	117	293	4	565	
	26.7%	20.7%	51.9%	0.7%	100.0%	
	4.7%	5.1%	4.5%	3.2%	4.7%	
Philadelphia	125	94	231	1	451	
	27.7%	20.8%	51.2%	0.2%	100.0%	
	3.9%	4.1%	3.6%	0.8%	3.7%	
Pittsburgh	80	53	100	2	235	
	34.0%	22.6%	42.6%	0.9%	100.0%	
	2.5%	2.3%	1.6%	1.6%	2.0%	
Southeast Texas	117	88	204	4	413	
	28.3%	21.3%	49.4%	1.0%	100.0%	
	3.7%	3.8%	3.2%	3.2%	3.4%	
Washington, DC	95	72	255	4	426	
	22.3%	16.9%	59.9%	0.9%	100.0%	
	3.0%	3.1%	4.0%	3.2%	3.5%	
None of Above	1,591	1,080	3,335	56	6,062	
	26.2%	17.8%	55.0%	0.9%	100.0%	
	50.0%	47.1%	51.8%	45.2%	50.3%	
No Response	129	74	205	24	432	
	29.9%	17.1%	47.5%	5.6%	100.0%	
	4.1%	3.2%	3.2%	19.4%	3.6%	
TOTAL	3,183	2,291	6,442	124	12,040	
	26.4%	19.0%	53.5%	1.0%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	

TABLE-10.1.0

POSTDOCTORAL RESPONDENTS by AGE and YEARS SINCE B.S.  
1982 Survey of ACS Members

AGE LEVEL	YEARS SINCE BS										No Response	TOTAL		
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>= 40				
20-24	0 0.0% ***.*%	1 50.0% 25.0%	1 50.0% 1.0%	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% 0.9%	-Count -% of Row -% of Col	
25-29	0 0.0% ***.*%	3 3.2% 75.0%	81 87.1% 83.5%	1 1.1% 1.7%	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% 0.0%	8 8.6% 30.8%	93 100.0% 42.5%		
30-34	0 0.0% ***.*%	0 0.0% 0.0%	10 15.4% 10.3%	46 70.8% 78.0%	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%	9 13.8% 34.6%	65 100.0% 29.7%		
35-39	0 0.0% ***.*%	0 0.0% 0.0%	1 3.4% 1.0%	11 37.9% 18.6%	10 34.5% 55.6%	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%	7 24.1% 26.9%	29 100.0% 13.2%		
40-44	0 0.0% ***.*%	0 0.0% 0.0%	1 6.3% 1.0%	1 6.3% 1.7%	7 43.8% 38.9%	5 31.3% 83.3%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	2 12.5% 7.7%	16 100.0% 7.3%		
45-49	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% 66.7%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	2 100.0% 0.9%		
50-54	0 0.0% ***.*%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	1 20.0% 5.6%	1 20.0% 16.7%	1 20.0% 33.3%	2 40.0% 100.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	5 100.0% 2.3%		
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%	2 100.0% 66.7%	0 0.0% 0.0%	0 0.0% 0.0%	2 100.0% 0.9%		
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%	1 50.0% 53.3%	1 50.0% 100.0%	0 0.0% 0.0%	2 100.0% 0.9%		
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%	
>=70	0 0.0% ***.*%	0 0.0% 0.0%	2 100.0% 2.1%	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% 0.9%		
No Response	0 0.0% ***.*%	0 0.0% 0.0%	1 100.0% 1.0%	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%	1 100.0% 0.5%		
TOTAL	0 0.0% ***.*%	4 1.8% 100.0%	97 44.3% 100.0%	59 26.9% 100.0%	18 8.2% 100.0%	6 2.7% 100.0%	3 1.4% 100.0%	2 0.9% 100.0%	3 1.4% 100.0%	1 0.5% 100.0%	26 11.9% 100.0%	219 100.0% 100.0%		

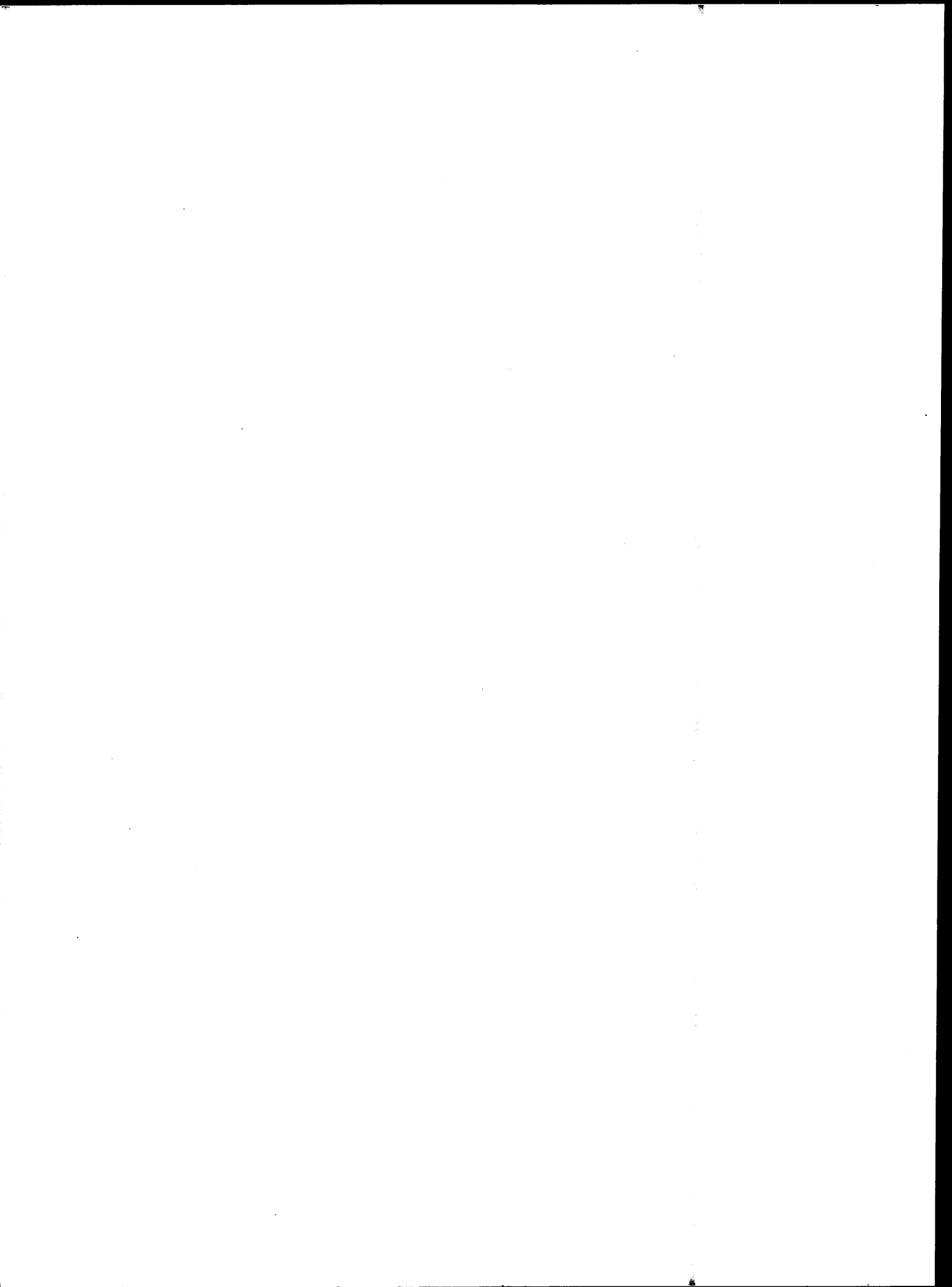
TABLE-10.2.0

POSTDOCTORAL RESPONDENTS by MINORITY CLASSIFICATION and CITIZENSHIP  
1982 Survey of ACS Members

CITIZENSHIP	RACE							TOTAL	-Count	-% of Row	-% of Col
	White	Black	American Indian	Asian/Pacific	Hispanic	Other	No Response				
US Citizen	142 88.8% 88.8%	0 0.0% ***.%	2 1.3% 100.0%	11 6.9% 22.0%	1 0.6% 50.0%	2 1.3% 66.7%	2 1.3% 100.0%	160	100.0%	73.1%	
Permanent Resident	4 19.0% 2.5%	0 0.0% ***.%	0 0.0% 0.0%	16 76.2% 32.0%	0 0.0% 0.0%	1 4.8% 33.3%	0 0.0% 0.0%	21	100.0%	9.6%	
Other	14 38.9% 8.8%	0 0.0% ***.%	0 0.0% 0.0%	21 58.3% 42.0%	1 2.8% 50.0%	0 0.0% 0.0%	0 0.0% 0.0%	36	100.0%	16.4%	
No Response	0 0.0% 0.0%	0 0.0% ***.%	0 0.0% 0.0%	2 100.0% 4.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	2	100.0%	0.9%	
TOTAL	160 73.1% 100.0%	0 0.0% ***.%	2 0.9% 100.0%	50 22.8% 100.0%	2 0.9% 100.0%	3 1.4% 100.0%	2 0.9% 100.0%	219	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 22, 1982

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. This year's study will also gather information about chemists' participation in continuing education. 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

## 1982 Comprehensive Salary and Employment Status Survey

A. Please indicate the year in which you earned any of the following degrees:

Bachelors 19 \_\_\_\_\_ Masters 19 \_\_\_\_\_ Doctorate 19 \_\_\_\_\_

B. Field of highest degree:

Chemical engineering . . . . .	1[]	Pharmaceutical/medicinal/ clinical chemistry . . . . .	8[]
Biochemistry . . . . .	2[]	Theoretical chemistry . . . . .	9[]
General chemistry . . . . .	3[]	Agricultural/food chemistry . . . . .	10[]
Analytical chemistry . . . . .	4[]	Physical chemistry . . . . .	11[]
Inorganic chemistry . . . . .	5[]	Other chemical (specify) _____	12[]
Organic chemistry . . . . .	6[]	Non-chemical (specify) _____	13[]
Polymer/macromolecular chemistry . . . . .	7[]		

C. Employment status (Please check the ONE response that most aptly describes your status on March 1, 1982.):

Postdoctoral or other fellowship . . . . .	1[]	Principal ANNUAL SALARY on March 1, 1982. (Do not include payments for second job, overtime work, summer teaching, or other supplemental employment.)
Employed full-time . . . . .	2[]	
Not employed and seeking employment . . . . .	3[]	\$ _____ per year
and not seeking employment . . . . .	4[]	
Employed part-time . . . . .	5[]	

D. If you were unemployed on March 1, how long had you been unemployed? \_\_\_\_\_ months

E. Check the ONE specialty most closely related to your present (or most recent) principal employment:

Chemical engineering . . . . .	1[]	Pharmaceutical/medicinal/ clinical chemistry . . . . .	8[]
Biochemistry . . . . .	2[]	Physical chemistry . . . . .	9[]
Agricultural/food chemistry . . . . .	3[]	Theoretical chemistry . . . . .	10[]
Analytical chemistry . . . . .	4[]	Polymer/macromolecular chemistry . . . . .	11[]
Environmental chemistry . . . . .	5[]	Other chemical specialty . . . . .	12[]
Organic chemistry . . . . .	6[]	Non-chemical specialty . . . . .	13[]
Inorganic chemistry . . . . .	7[]		

F. Citizenship or visa status:

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

G. 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[]

H. Sex: Male 1[] Female 2[]

I. Age at last birthday before March 1, 1982: \_\_\_\_\_

J. State of residence: \_\_\_\_\_

K. 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 EMPLOYER IS AN ACADEMIC INSTITUTION, PLEASE SKIP TO QUESTION Q.

- L. 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,<br>other research institution . . . . . | 14[] |
| Self-employed . . . . .  | 15[] |
| Other employment . . . . .   | 16[] |
- M. 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<br>(other than research and development) . . . . . | 4[]  |
| Marketing, Sales, Purchasing, Technical<br>Service, Economic evaluation . . . . .     | 5[]  |
| Production, Quality control . . . . .   | 6[]  |
| Forensic analysis, Other laboratory<br>analysis . . . . .                             | 7[]  |
| Writing, Editing, Abstracting, Library<br>services . . . . .                          | 8[]  |
| Data processing . . . . .   | 9[]  |
| Consulting . . . . .  | 10[] |
| Other . . . . .   | 11[] |

- N. Number of subordinates reporting to you directly or through others (if none, please write "0"):
- Professionals \_\_\_\_\_ Technicians \_\_\_\_\_ Other \_\_\_\_\_

PLEASE SKIP TO QUESTION Q.

- O. Current or most recent principal employer:

Private college or university where the highest degree offered in chemical science is:	Public college or university where the highest degree offered in chemical science is:
Doctorate . . . . .	1[]
Masters . . . . .	2[]
Bachelors . . . . .	3[]
Associate . . . . .	4[]
	Doctorate . . . . .
	5[]
	Masters . . . . .
	6[]
	Bachelors . . . . .
	7[]
	Associate . . . . .
	8[]

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

- Q. During the past two years which of the following methods have you used to keep current in your field? (Check ALL that apply.)

Read current literature regularly . . . . . 1[]  
Attend scientific meetings . . . . . 2[]  
Take career-oriented courses (other  
  than those for college credit) . . . . . 3[]

- R. If a course were available in a topic you wanted to study, which format at the right would appeal to you most? \_\_\_\_\_  
least? \_\_\_\_\_
- |                                  |
|----------------------------------|
| 1. Audio course (tape cassette)  |
| 2. Computer assisted instruction |
| 3. Correspondence course         |
| 4. Classroom instruction         |
| 5. Video course (video tape)     |
- S. Will your employer pay any part of the cost of your non-credit, career-oriented courses? Yes 1[]  
No 2[]
- T. Would your employer allow you any time from work to participate in such courses? Yes 1[]  
No 2[]
- U. Does your employer conduct any career-oriented courses at your place of employment? Yes 1[]  
No 2[]
- V. In your opinion, how important to career success is participation in non-credit, career-oriented courses?
- |                                |     |
|--------------------------------|-----|
| Very important . . . . .       | 1[] |
| Moderately important . . . . . | 2[] |
| Insignificant . . . . .        | 3[] |
- W. Please list, on the back of this questionnaire, topics for the career-oriented courses you would most like to attend.



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 respondents' employment status, employers, work function and specialty, salaries, and geographic and other demographic characteristics.

Reports are available for each year from 1973 through 1982.

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 1981.

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.

For prices and ordering information, please call or write:

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