

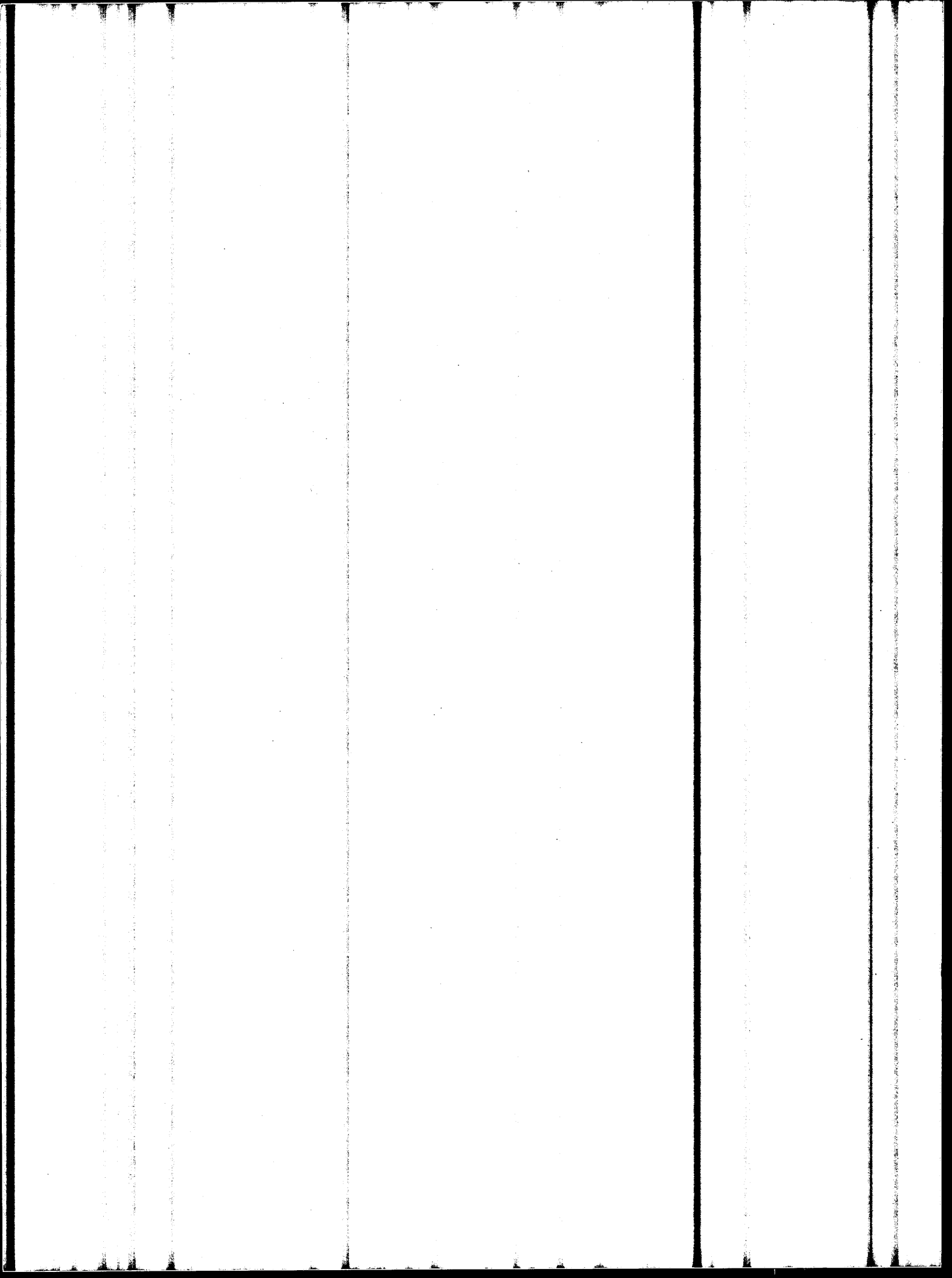
# **SALARIES**

# **1986**

**Analysis of the  
American Chemical Society's  
1986 Survey of Salaries and Employment**



**Statistical Services  
American Chemical Society  
Washington, D.C.**



SALARIES 1986

ANALYSIS OF THE AMERICAN CHEMICAL SOCIETY'S  
1986 SURVEY OF SALARIES AND EMPLOYMENT

This report was prepared by the  
ACS Statistical Services

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

July 1986

Available from the Distribution Office, ACS



# CONTENTS

	Page
Acknowledgements.....	iv
Summary and Comment.....	1
List of Tables.....	4
Technical Notes.....	9
Geographic Regions.....	13
Tables.....	15
Survey Questionnaire.....	111

## ACKNOWLEDGEMENTS

Each year, the American Chemical Society conducts salary surveys of its members. This report presents detailed results of the 1986 Comprehensive Salary and Employment Status Survey. A summary of these findings was published in the July 7, 1986 issue of Chemical and Engineering News.

General oversight of the survey and its analysis was provided by the ACS joint Board-Council Committee on Economic Status, headed by Attila E. Pavlath<sup>1</sup>, and by its subcommittee on surveys, chaired by Jack G. Kay<sup>2</sup>. The committee expresses its gratitude to the more than 10,000 ACS members who provided an invaluable service to the profession by completing the survey questionnaire.

Joan Burrelli and Nguyen Bailey of ACS Statistical Services, managed by John Robert Jones, conducted this year's survey and prepared this report. Dr. Burrelli wrote the summary and comment on the following pages.

Robert K. Neuman, Head  
Department of Professional Services

---

<sup>1</sup>Dr. Pavlath is a Research Leader, Energy Research at USDA Western Regional Research Laboratory, Berkeley, CA.

<sup>2</sup>Dr. Kay is a chemistry professor at Drexel University, Philadelphia, PA.

SUMMARY AND COMMENT  
Joan S. Burrelli\*

Employment and Unemployment

The overall unemployment rate among chemists increased in Spring, 1986 to 1.7%, after having been 1.4% in 1985. Though high, the unemployment rate was still less than the 2.2% unemployment in 1983. As unemployment and the percent of part-time workers increased, the percent of chemists employed full-time decreased .8 percentage points to 93.6% of all chemists. Each tenth of a percentage point represents approximately 92 ACS members in the U.S. work force.

Unemployment rates were not uniform for all chemists. Generally speaking, unemployment rates were higher for those chemists with only BS degrees, women, blacks, Hispanics, older chemists, and chemists employed in industry.

Degree

Unemployment was twice as high among BS chemists (2.6%) as among PhD chemists (1.3%).

Gender

The unemployment rate for women was 2.1%; for men 1.6%. This difference is partly due to the lower proportion of women holding advanced degrees. Whereas 59% of the men have PhD degrees, only 37.2% of the women do.

Racial or Ethnic Group

The unemployment rates for black chemists (2.9%) and for Hispanic chemists (3.2%) were higher than those for whites (1.7%) or Asians (1.7%). As is the case for women chemists, the higher unemployment rate for blacks and Hispanics is partly explained by the lower proportion of those two groups holding doctorate degrees in chemistry.

Age

Unemployment rates were highest for chemists in the 55-59 and 60-64 age groups (2.7% and 2.6% respectively). In previous years, unemployment tended to be higher in the younger age groups.

Type of Employer

Chemists employed in industry have a higher rate of unemployment (2.2%) than chemists in any other type of employment. The unemployment rate for chemists in academia is .8%, in government .3%, and in other nonacademic employment (e.g., hospitals, nonprofit organizations, self-employed) 1.6%. Among academics, a larger percent of chemists held postdoctoral fellowships in 1986 (6.8%) than in 1985 (6.2%).

---

\*Dr. Burrelli is a research associate in the ACS Office of Statistical Services.

As the level of unemployment increased, the percent of chemists experiencing extended periods of unemployment increased. The length of unemployment for unemployed chemists was larger in 1985-86 than in previous years. More than 30% of those unemployed reported they had been unemployed for more than a year. Chemists most likely to be unemployed for extended periods of time were those in the West South Central region, older chemists, and chemists without advanced degrees.

### Recruiting

The recruitment of recent graduates continued to decline during 1985-86. The College Placement Council's CPC Salary Survey, issued March 1986, showed a 20% decrease in the number of offers made to BS chemical engineering graduates during the 1985-86 academic year as compared with 1984-85 (579 vs 724 offers). Offers to BS chemists decreased by 26% (43 vs 58). Among new PhDs, a decrease of 15% was reported for chemical engineers (44 offers vs 52 offers). Offers to PhD chemists declined by 27% (46 vs 63).

### Salaries

Despite higher unemployment, salaries continued to rise faster than inflation. The overall median salary for PhD chemists increased 9% (to \$47,800) while master's degree chemists reported an increase of 5% (to \$37,900) and bachelor's degree chemists' median salary increased 3% (to \$33,000). Because the Consumer Price Index rose only slightly from March to March, these salary increases represent increases in constant dollars. Prices as measured by the Consumer Price Index for Urban Workers increased approximately 2% from March 1985 to March 1986.

\$47,500 for PhD, up 9% from 1985, up 7% in constant dollars  
 \$37,900 for MS, up 5% from 1985, up 3% in constant dollars  
 \$33,000 for BS, up 3% from 1985, up 1% in constant dollars

Salaries differed only slightly by geographic region and local section.

PhD salaries were highest for chemists in industry. Academic salaries were lower than those in industry or government even after academic year salaries were adjusted to a 12-month basis. The median salary of PhDs in industry was \$50,000 and in government, \$47,550. The median adjusted salary of academic PhDs was \$42,700. Salaries within academia vary widely according to academic rank, school type, work function (e.g., teaching, administration), and length of experience. Academic salaries are generally higher for full professors, those in public institutions granting PhD degrees, those in administration, and those with greater experience. Salaries within industry vary according to type of industry, work function (e.g., management, applied research, basic research), specialty, and length of experience. Salaries for chemists employed in industry are generally higher for those working in the petroleum industry, those in R&D management, physical chemists, and those with greater experience.

As in the past, salaries for women chemists were lower than those for men. The average salary for women PhDs in industry and in government was 83% of that for men; in academia, 81%. The difference in men's and women's average salaries is



partly due to differences in experience. When salaries are adjusted for differences in length of experience, the salary gap narrows. For example, the adjusted mean salary for women PhDs in industry was 89% that for men. The difference in men's and women's average salary can also be explained by differences in work function and academic rank. Women are more likely to be in research and teaching and men are more likely to be in management and administration. Men are more likely to be full professors, women are more likely to be assistant professors.

LIST OF TABLES

	<u>Table Number</u>	<u>Page</u>
<u>SALARIES ON MARCH 1, 1986</u>		
<u>ALL CHEMISTS</u>		
Type of Employer-----Years since the BS for:		
Bachelors-----0.1.1		15
Masters-----0.1.2		16
Doctorate-----0.1.3		17
 <u>NON-ACADEMIC CHEMISTS</u>		
Highest Degree-----Years since the BS-----1.1.1		18
Men-----1.1.2		19
Women-----1.1.3		20
Selected States-----Years since the BS for:		
Bachelors-----1.2.1		21
Masters-----1.2.2		22
Doctorate-----1.2.3		23
Selected Local Sections-----Years since the BS for:		
Bachelors-----1.3.1		24
Masters-----1.3.2		25
Doctorate-----1.3.3		26
 <u>INDUSTRIAL CHEMISTS</u>		
Highest Degree-----Years since the BS-----2.1.1		27
Men-----2.1.2		28
Women-----2.1.3		29
 Bachelor's Degree Holders		
Years since the B.S. and:		
Work Specialty-----2.2.1		30
Work Function-----2.2.2		31
Number of Professional and Technical Subordinates--2.2.3		32
Total Number of Subordinates-----2.2.4		33
Type of Industry-----2.2.5		34
Geographic Region-----2.2.6		35

## Master's Degree Holders

Years since the B.S. and:		
Work Specialty-----	2.3.1	36
Work Function-----	2.3.2	37
Number of Professional and Technical Subordinates--	2.3.3	38
Total Number of Subordinates-----	2.3.4	39
Type of Industry-----	2.3.5	40
Geographic Region-----	2.3.6	41

## Ph.D. Degree Holders

Years since the B.S. and:		
Work Specialty-----	2.4.1	42
Work Function-----	2.4.2	43
Number of Professional and Technical Subordinates--	2.4.3	44
Total Number of Subordinates-----	2.4.4	45
Type of Industry-----	2.4.5	46
Geographic Region-----	2.4.6	47

GOVERNMENTAL CHEMISTS

Work Function-----	Years since the BS for:	
	Bachelors-----	3.1.1 48
	Masters-----	3.1.2 49
	Doctorate-----	3.1.3 50

ACADEMIC CHEMISTS

## All Academic Ranks

Academic Rank and:		
Type of Institution-----	4.1.1	51
Geographic Region-----	4.1.2	52
Years since BS-----	4.1.3	53
Academic Work Function-----	4.1.4	54

## Instructors or Other Non-tenure Track Rank

Years since the BS and:		
Specialty-----	4.2.1	55
Type of Institution-----	4.2.2	56
Sex of Respondent-----	4.2.3	57

## Assistant Professors

Years since the BS and:		
Specialty-----	4.3.1	58
Type of Institution-----	4.3.2	59
Sex of Respondent-----	4.3.3	60

## Associate Professors

Years since the BS and:		
Specialty-----	4.4.1	61
Type of Institution-----	4.4.2	62
Sex of Respondent-----	4.4.3	63

## Professors

Years since the BS and:		
Specialty-----	4.5.1	64
Type of Institution-----	4.5.2	65
Sex of Respondent-----	4.5.3	66

STIPENDS OF POST-DOCTORAL FELLOWS IN CHEMISTRY

Institutional Control and Work Field-----	5.1.1	67
---	-------	----

NON-ACADEMIC CHEMICAL ENGINEERS

Highest Degree-----Years since the BS-----	6.1.1	68
--	-------	----

EMPLOYMENT AND UNEMPLOYMENT ON MARCH 1, 1984ALL RESPONDENTS

Employment Status according to Work Field-----	7.1.0	69
--	-------	----

CHEMISTS

Employment Status according to:		
Highest Degree-----	8.1.0	70
Men-----	8.1.1	71
Women-----	8.1.2	72
Age-----	8.2.0	73
Race/Ethnicity-----	8.3.0	74
Citizenship-----	8.4.0	75
Type of Employer-----	8.5.0	76
Non-academic--	8.5.1	77
Academic-----	8.5.2	78
Non-academic Work Function-----	8.6.0	79
Work Specialty-----	8.7.0	80
Geographic Region-----	8.8.0	81

UNEMPLOYED CHEMISTS

Length of Unemployment according to:

Highest Degree-----	9.1.0	82
Men-----	9.1.1	83
Women-----	9.1.2	84
Age-----	9.2.0	85
Non-Academic Work Function----	9.3.0	86
Work Specialty-----	9.4.0	87
Geographic Region-----	9.5.0	88

DEMOGRAPHIC CHARACTERISTICSALL RESPONDENTS

Highest Degree according to:

Sex-----	10.1.0	89
Age-----	10.2.0	90
Men-----	10.2.1	91
Women-----	10.2.2	92
Work Specialty-----	10.3.0	93
Race/Ethnicity-----	10.4.0	94

Race/Ethnicity according to:

Sex-----	10.5.0	95
Citizenship-----	10.6.0	96

Selected Local Sections according to:

Work Specialty-----	10.7.0	97
Employment Status-----	10.8.0	98
Sex-----	10.9.0	99
Age-----	10.10.0	100
Highest Degree-----	10.11.0	101

POST-DOCTORAL RESPONDENTS

Race/Ethnicity according to Citizenship-----	11.1.0	102
Sex according to Degree Field-----	11.2.0	103

ACADEMIC RESPONDENTS

Tenure Status according to:		
Age-----	12.1.0	104
Sex-----	12.2.0	105
Sex according to:		
Age-----	12.3.0	106
Highest Degree-----	12.4.0	107
Race/Ethnicity according to:		
Sex-----	12.5.0	108
Citizenship-----	12.6.0	109
Work Specialty according to Type of Institution-----	12.7.0	110

## TECHNICAL NOTES

The target population of the 1986 Comprehensive Salary and Employment Status Survey was those ACS members who had U.S. mailing addresses, were not older than 70, and had neither student nor emeritus status. On January 31, 1986 the ACS membership totalled 129,346, of which 91,829 were eligible for inclusion in the survey. 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 24-28. By the May 15 cut-off date, 10,795 (49.1%) usable questionnaires had been returned.

### Definitions

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

Unemployed: a respondent who is unemployed and seeking employment (category 4 of question 1d on the questionnaire).

Academic Salaries: For those respondents indicating academic year contracts, base salary figures were multiplied by 11/9 to provide a direct comparison with respondents on calendar year contracts.

This report represents the respondents' principal annual salaries as of March 1, 1986. The respondent's age is given as of March 1, 1986. 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. A useful estimate of the representativeness of the sample proportion 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

$$\begin{aligned} p(\text{lower}) &= p - z[p(1-p)/n]^{1/2} \\ \text{and } p(\text{upper}) &= p + z[p(1-p)/n]^{1/2} \end{aligned}$$

where  $p(\text{lower})$  = lower boundary of the interval  
 $p(\text{upper})$  = upper boundary of the interval  
 $p$  = 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 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  $p=95/1900=0.05$  and  $n=1900$ . For a 95% confidence interval,  $z$  is about 2. Putting these numbers into the formula above we have

$$\begin{aligned} p(\text{lower}) &= p - z[p(1-p)/n]^{\frac{1}{2}} \\ &= 0.05 - 2[0.05((0.95)/1900)]^{\frac{1}{2}} \\ &= 0.05 - 0.01 \\ &= 0.04 \end{aligned}$$

$$\begin{aligned} \text{and similarly, } p(\text{upper}) &= 0.05 + 0.01 \\ &= 0.06 \end{aligned}$$

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

### Small Cell Count

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.

### Median

If a sample of size  $n$  is arranged in ascending order of magnitude, the median  $M_d$  is given by the  $((n+1)/100)$ th value. If  $((n+1)/100)$  is not an integer, then the median is a weighted average of the two values whose ranks are closest to  $((n+1)/100)$ .

### 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.

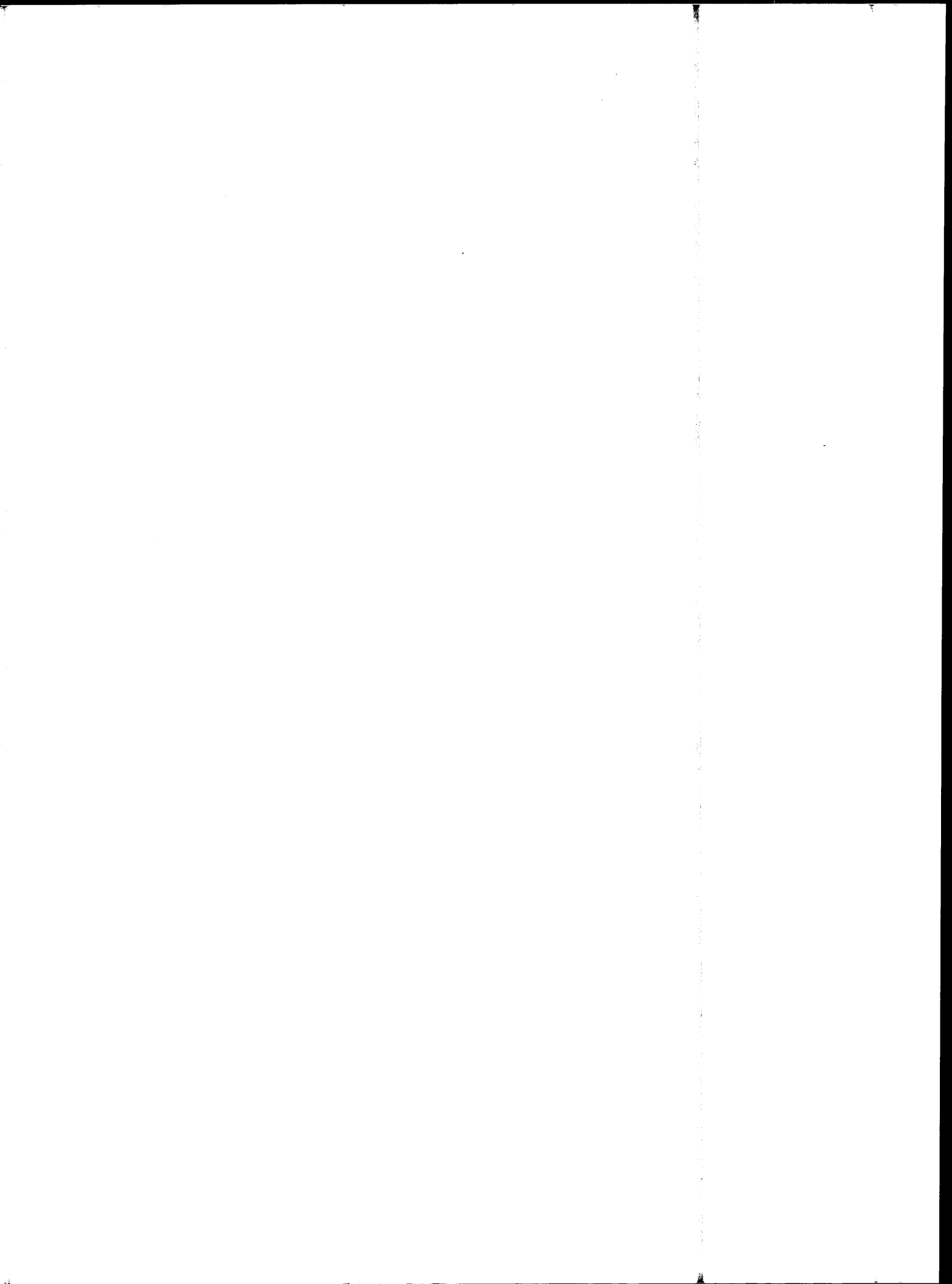


### Comparing Salaries

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

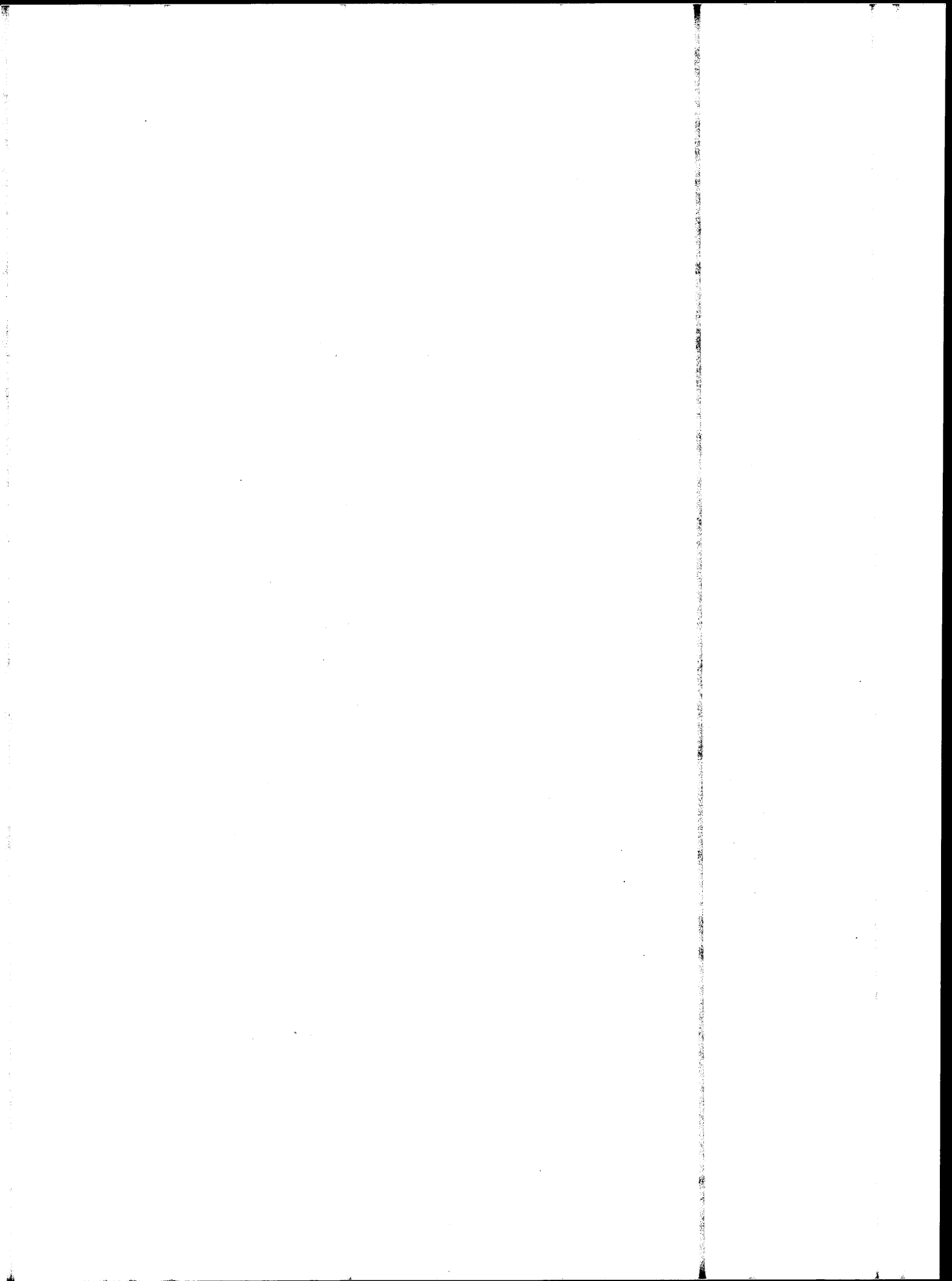


Table 0.1.1

SALARIES of FULL-TIME EMPLOYED B.S. CHEMISTS  
according to TYPE OF EMPLOYER and YEARS SINCE BS  
1986 Survey of ACS Members

EMPLOYER TYPE	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			
Industry	25000	27000	34900	41000	46000	50000	52000	55000	55000	60450	40000	44200	- 75th %-ile
	22550	24600	30000	35000	39000	43900	43000	45300	48000	44700	25000	34600	- 50th %-ile
	19650	21850	25900	28700	32050	37000	35000	36425	40000	35000	19800	26600	- 25th %-ile
	22500	24918	30141	36072	40017	43617	44925	47232	48809	47178	28267	36628	- Mean
	4106	6071	6574	9618	9943	11516	13360	15161	14696	17960	10489	13447	- Std Dev
	46	216	335	216	157	109	85	110	149	49	3	1,475	- Count
Government	---	23300	31900	36800	39700	45050	50000	47800	54000	49500	---	40000	
	21000	19700	25750	30500	37000	37900	41100	39000	38000	38000	---	32000	
	---	18000	22250	25000	31500	28300	40000	33300	28600	31900	---	24600	
	21000	20563	26440	31788	37508	37024	44479	43229	41767	39933	---	33557	
	---	3822	6353	7594	9296	9158	10951	14819	13636	9787	---	11784	
	1	27	40	40	25	25	19	17	15	6	0	215	
Other Non-profit, Self-employed	19200	23000	30125	37250	43500	60000	41500	49875	61250	44500	---	40375	
	18000	19500	24600	33000	39850	51000	34000	41250	43800	38500	---	28000	
	16000	18000	20300	25950	24000	23100	23667	33600	28500	30875	---	21600	
	17767	20560	26103	33618	36170	45022	32858	42300	44460	38417	---	31513	
	2311	3996	8216	10365	9154	21586	10120	10410	22886	7088	---	14093	
	9	15	30	17	10	9	8	6	10	6	0	120	
High School	---	21511	21764	---	---	---	---	---	---	---	---	30220	
	17722	18333	19556	28111	22978	31778	36667	---	50355	29883	---	22006	
	---	14667	18639	---	---	---	---	---	---	---	---	18333	
	17722	17521	19986	28111	22978	31778	36667	---	50355	29883	---	23904	
	---	3930	1772	6914	---	---	---	---	---	6136	---	9190	
	1	7	4	2	1	1	1	0	1	2	0	20	
College/ University	17000	17000	24295	25050	31250	---	---	---	---	---	---	24000	
	17000	16000	23150	24000	24500	---	24500	24000	30000	---	---	18300	
	14000	13625	20650	22500	17225	---	---	---	---	---	---	16000	
	16000	15303	22346	23850	24383	---	24500	24000	30000	---	---	20297	
	1732	2404	3014	1399	7611	---	9192	---	---	---	---	5863	
	3	12	6	4	6	0	2	1	1	0	0	35	
No Response	---	---	33700	---	---	---	---	---	---	---	---	40739	
	39478	25100	27000	35600	38200	26400	45000	50000	---	36000	---	35600	
	---	---	12800	---	---	---	---	---	---	---	---	25750	
	39478	25100	24500	35600	38200	26400	45000	50000	---	36000	---	34137	
	---	---	11259	---	---	---	---	11314	---	---	---	11879	
	1	1	4	1	1	1	1	2	0	1	0	13	
TOTAL	24000	26425	33500	40000	45000	50000	50000	54675	55000	55650	40000	43000	
	21000	23550	28800	34100	38700	42900	42500	44800	47000	41500	25000	33000	
	18150	19675	24600	28000	31500	36000	35000	36200	39000	34056	19800	25500	
	21657	23659	29236	35078	38947	42367	43597	46384	47863	44962	28267	35492	
	4840	6166	6917	9503	10119	12185	13128	14935	15196	16636	10489	13454	
	61	278	419	280	200	145	116	136	176	64	3	1,878	

Table 0.1.2

SALARIES of FULL-TIME EMPLOYED M.S. CHEMISTS  
according to TYPE OF EMPLOYER and YEARS SINCE BS  
1986 Survey of ACS Members

EMPLOYER TYPE	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			
Industry	---	30000	35800	43000	48000	55000	55000	60125	60000	65850	---	50000	- 75th %-ile
	---	27100	31200	36000	41000	43000	47200	50000	51200	52550	42850	40000	- 50th %-ile
	---	25000	28000	32000	35000	35750	38625	40650	44800	43050	---	32000	- 25th %-ile
	---	27868	31915	37186	42148	45848	47258	51102	53029	55717	42850	42094	- Mean
	---	4247	5875	8348	10455	13425	14443	14800	13623	17212	11809	13413	- Std Dev
	0	25	167	207	182	121	84	86	83	36	2	993	- Count
Government	---	29900	32000	37500	35800	43550	53000	56000	58750	48000	---	44350	
	---	26300	26500	32700	34700	36500	41150	52100	47450	46300	30700	35500	
	---	23650	24000	26900	30000	33700	34500	39000	41750	32750	---	29000	
	---	26680	26858	32700	34857	38282	43550	45888	47163	41560	30700	37362	
	---	3275	6386	6771	7165	8162	10056	14845	14152	9757	---	11471	
	0	5	19	25	23	28	12	16	18	5	1	152	
Other Non-profit, Self-employed	---	30300	34800	35875	42000	43000	32000	---	51225	45000	---	40000	
	---	22850	30000	32000	37889	36000	25000	50000	44750	29250	---	33000	
	---	17125	24500	27200	32000	30000	20000	---	31125	23250	---	27000	
	---	23425	28821	32638	37653	38189	31857	50000	42350	31583	---	34000	
	---	7224	7734	6244	14005	10200	20219	---	11114	11647	---	11815	
	0	4	19	16	15	9	7	1	10	6	0	87	
High School	---	---	20778	29500	39111	41555	40333	47667	45583	42000	---	39111	
	---	---	17056	28111	30556	34345	36339	39111	41056	31778	---	33611	
	---	---	13250	17000	27500	25000	32000	36667	27653	29000	---	26000	
	---	---	17028	24801	31883	33564	37580	41148	38097	34259	---	32849	
	---	---	4083	8373	9698	10473	10259	5776	9970	6846	---	10781	
	0	0	4	7	7	14	14	3	4	3	0	56	
College/ University	---	23617	26000	35000	41300	40683	44061	49195	40000	45222	---	39111	
	---	22000	25000	28500	27711	33367	41555	36789	37584	34222	23223	30800	
	---	10956	20000	23344	25336	24350	33611	33703	33375	30556	---	25000	
	---	18229	23233	28542	30998	33339	37657	39824	35935	36595	23223	31838	
	---	7236	4076	7279	8718	9183	10751	7843	8258	8025	3457	9707	
	0	5	11	23	14	20	17	6	14	7	2	119	
No Response	---	---	---	43500	38000	---	---	---	---	75300	---	38850	
	---	31000	19500	38700	30000	38000	25000	---	---	39600	---	31000	
	---	---	---	23350	23222	---	---	---	---	27000	---	24111	
	---	31000	19500	34480	30407	38000	25000	---	---	47300	---	34460	
	---	---	707	10963	7397	---	---	---	---	26610	---	15782	
	0	1	2	5	3	1	1	0	0	4	0	17	
TOTAL	---	30000	34625	40000	46400	49000	52000	58800	56000	55500	42850	47075	
	---	26800	30000	35000	39156	40944	43144	48695	48500	45500	30700	37889	
	---	23000	26150	29500	33000	33617	35000	39308	40100	33611	23223	30150	
	---	26149	30407	35475	40105	42165	43752	49477	49064	48381	32569	39783	
	---	5738	6708	8618	10871	12931	14361	14550	14152	18014	11630	13298	
	0	40	222	283	244	193	135	112	129	61	5	1,424	

Table 0.1.3

SALARIES of FULL-TIME EMPLOYED Ph.D. CHEMISTS  
according to TYPE OF EMPLOYER and YEARS SINCE BS  
1986 Survey of ACS Members

EMPLOYER 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
Industry	43500	---	42075	49000	56800	65000	67375	74500	78500	72478	57000	61000	- 75th %-ile
	29000	32750	39600	44000	49150	56100	58000	60000	64000	63500	39400	50000	- 50th %-ile
	21500	---	37500	40000	43350	48000	49000	49950	52000	51075	27425	42000	- 25th %-ile
	31333	32750	40076	44850	50536	57323	59027	61388	65033	62476	41713	52979	- Mean
	11184	1768	5510	7819	11126	13160	14609	16641	15793	15393	14968	14587	- Std Dev
	3	2	274	441	426	392	284	217	195	80	8	2,322	- Count
Government	---	---	42625	45000	50000	55950	56500	60675	67000	66000	---	56000	
	---	28500	34350	40750	42600	48000	49100	50650	57800	54000	28000	47550	
	---	---	28250	36600	35300	41250	42000	45000	48450	38700	---	40000	
	---	28500	35046	39997	42925	48268	50388	52173	56682	52991	28000	48006	
	---	---	7744	7482	8868	9457	9686	10881	11913	12422	---	11484	
	0	1	28	32	65	88	67	64	49	23	1	418	
Other Non-profit, Self-employed	---	---	39700	47400	58250	61500	56525	69200	70000	83875	---	61000	
	---	21000	35500	38600	45300	50000	49795	50000	59050	70000	70000	49000	
	---	---	32675	30125	39100	39311	37750	44000	51500	53500	---	37900	
	---	21000	35217	39038	50475	51143	47630	55246	59839	67072	70000	50828	
	---	---	6768	14403	18036	16990	13922	15572	14644	21628	---	17976	
	0	1	12	32	36	37	26	26	28	18	1	217	
High School	---	---	---	---	37800	80789	57078	67222	63555	---	---	52984	
	---	---	---	23222	30189	41555	31289	42778	48889	25667	---	35444	
	---	---	---	---	28111	27500	25300	31722	47000	---	---	27750	
	---	---	---	23222	32033	51627	36266	48133	53148	25667	---	41454	
	---	---	---	---	5101	28845	14788	23936	9062	---	---	19196	
	0	0	0	1	3	5	11	5	3	1	0	29	
College/ University	---	---	32875	36361	42945	49359	55000	60000	62800	73253	---	53289	
	---	7000	29167	30556	35444	42778	46444	50056	52555	59945	59400	42655	
	---	---	25542	26945	30000	35458	39000	41666	44500	48917	---	33336	
	---	7000	29278	31852	37692	43814	47368	51976	54273	60648	59400	44667	
	---	---	6133	7672	11600	12227	12631	14594	14927	16576	---	15204	
	0	1	68	165	192	296	212	200	139	88	1	1,362	
No Response	---	---	39000	37375	61766	52922	60000	57250	59667	84389	---	56550	
	---	---	26644	33667	51945	45000	48600	52000	50056	52889	---	47361	
	---	---	15000	29350	37681	35528	40333	41461	32750	45000	---	36917	
	---	---	26881	33772	50696	46699	50710	49960	49268	56678	---	48347	
	---	---	12002	4815	13600	17585	13813	8894	16439	25230	---	16164	
	0	0	3	6	8	25	23	17	10	10	0	102	
TOTAL	43500	32750	41300	47500	53325	60000	61600	66000	70000	71975	60000	58617	
	29000	28500	38400	41000	45000	49500	51700	53533	58800	60000	42000	47789	
	21500	14000	34850	35000	38225	41000	42778	45000	48892	50000	28000	39575	
	31333	24400	37548	41047	46403	51014	52946	55921	59742	60698	44645	49682	
	11184	10882	7253	9878	12834	14326	14619	15733	15803	17020	16658	15238	
	3	5	385	677	730	843	623	529	424	220	11	4,450	

Table 1.1.1

SALARIES of FULL-TIME EMPLOYED NON-ACADEMIC CHEMISTS  
according to HIGHEST DEGREE and YEARS SINCE BS  
1986 Survey of ACS Members

HIGHEST DEGREE	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			
Bachelors	24000	27000	33550	40000	45000	50000	50000	54450	55000	56500	40000	43000	- 75th %-ile
	21350	24000	29000	34500	39000	43000	43000	45000	47000	42900	25000	33750	- 50th %-ile
	18850	20575	25000	28000	32000	36000	35000	36200	39000	34500	19800	26000	- 25th %-ile
	21713	24209	29476	35291	39490	42552	43987	46498	47952	45603	28267	35924	- Mean
	4201	5981	6826	9496	9842	12163	13062	14938	15222	16752	10489	13386	- Std Dev
	56	258	405	273	192	143	112	133	174	61	3	1,810	- Count
Masters	---	30000	34900	41850	47875	52550	55000	59700	58000	60000	51200	48500	
	---	27050	31000	35650	40000	41950	46000	50000	50000	49000	34500	38850	
	---	23750	26950	30550	33850	35000	36000	40000	43800	41200	30700	31600	
	---	27171	31160	36440	41079	44071	45779	50282	51116	51130	38800	40939	
	---	4612	6298	8232	10670	12842	14845	14783	13846	18019	10906	13302	
	0	34	205	248	220	158	103	103	111	47	3	1,232	
Doctorate	43500	33375	42000	48950	55900	62600	65000	69500	72750	71950	61250	60000	
	29000	30000	39150	43400	48000	54400	55000	56200	62600	60000	39400	49900	
	21500	22875	36900	39600	42300	45600	47050	48000	52000	51000	27725	42000	
	31333	28750	39441	44174	49593	55339	56706	58947	62994	61357	43170	52118	
	11184	5635	6002	8530	11726	13387	14383	15958	15372	16423	16784	14574	
	3	4	314	505	527	517	377	307	272	121	10	2,957	
No Response	---	---	---	---	---	---	---	---	---	---	50000	50000	
	---	---	---	---	---	---	---	---	---	---	36100	36100	
	---	---	---	---	---	---	---	---	---	---	26500	26500	
	---	---	---	---	---	---	---	---	---	---	40296	40296	
	---	---	---	---	---	---	---	---	---	---	15843	15843	
	0	0	0	0	0	0	0	0	0	0	45	45	
TOTAL	24100	27175	38775	45500	52000	60000	61000	64000	67000	68350	50000	53795	
	21700	24050	33000	40000	44500	50000	51000	52000	54000	54000	36100	43000	
	19000	21000	27500	33700	38000	41000	42000	42700	45000	43000	27450	34000	
	22202	24610	33236	39941	45532	50928	52398	54254	55928	55062	40102	44902	
	5059	5916	7851	9674	12033	14293	15316	16416	16558	18151	15577	15760	
	59	296	924	1,026	939	818	592	543	557	229	61	6,044	



Table 1.1.2

SALARIES of FULL-TIME EMPLOYED NON-ACADEMIC CHEMISTS - MEN Only  
according to HIGHEST DEGREE and YEARS SINCE BS  
1986 Survey of ACS Members

HIGHEST DEGREE	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			
Bachelors	23500	26700	35000	41000	46000	50000	52000	55000	56000	60000	---	45500	- 75th %-ile
	21000	24000	30000	35000	39400	43600	43950	45700	48000	44000	32500	36000	- 50th %-ile
	18300	20000	25900	28400	33500	36500	38000	37300	40000	35500	---	27500	- 25th %-ile
	21429	24225	30405	35848	40273	42925	45444	47427	49323	47545	32500	37840	- Mean
	4501	6509	6994	9367	9760	12122	13048	13955	15044	16820	10607	13700	- Std Dev
	31	161	278	214	171	122	98	115	159	51	2	1,402	- Count
Masters	---	29850	35400	42300	48000	55000	56725	60000	60000	60900	---	50000	
	---	27050	31500	36000	40000	42500	47834	50000	51000	50000	42850	40400	
	---	22825	27700	31300	34700	35000	39375	41300	44000	43000	---	32500	
	---	26267	31576	37076	41722	45166	48219	51309	52114	52805	42850	42670	
	---	3615	6156	8529	10789	13272	14535	14666	13526	17738	11809	13707	
	0	18	137	185	186	133	82	95	104	43	2	985	
Doctorate	---	33375	42000	49000	56350	63750	65000	70000	72250	72056	66250	61000	
	36250	30000	39500	43650	49000	55000	55900	57600	62800	60000	54000	50000	
	---	22875	36975	40000	42750	46450	48000	48000	52000	51000	27500	42000	
	36250	28750	39676	44647	50139	56161	57173	59617	63233	61616	49500	53073	
	10253	5635	5965	8397	11920	13284	14294	15914	14937	16542	18908	14602	
	2	4	246	436	472	481	355	291	262	117	6	2,672	
No Response	---	---	---	---	---	---	---	---	---	---	50825	50825	
	---	---	---	---	---	---	---	---	---	---	39500	39500	
	---	---	---	---	---	---	---	---	---	---	25750	25750	
	---	---	---	---	---	---	---	---	---	---	41567	41567	
	---	---	---	---	---	---	---	---	---	---	16680	16680	
	0	0	0	0	0	0	0	0	0	0	36	36	
TOTAL	25500	27100	39550	46800	52650	60000	62200	65000	67000	70000	52400	55700	
	21000	24000	35000	40300	45000	51400	52600	52300	55000	55000	40000	45000	
	18550	20800	28500	34800	38450	42000	44000	44800	46000	44100	27500	36000	
	22327	24525	34098	40714	46215	51980	53652	55243	56818	56420	42263	46789	
	5931	6306	7760	9609	12124	14301	14952	16120	16042	17841	16533	15744	
	33	183	661	835	829	736	535	501	525	211	46	5,095	

Table 1.1.3

SALARIES of FULL-TIME EMPLOYED NON-ACADEMIC CHEMISTS - WOMEN Only  
according to HIGHEST DEGREE and YEARS SINCE BS  
1986 Survey of ACS Members

HIGHEST DEGREE	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			
Bachelors	24050	27000	31900	38000	39000	45750	39625	45075	40000	44950	---	33500	- 75th %-ile
	22500	24300	27200	31400	30000	38000	33800	36350	30000	31000	19800	27500	- 50th %-ile
	19100	21000	23000	26000	27000	30950	28250	29525	28600	22200	---	23500	- 25th %-ile
	22064	24181	27443	33271	33114	40390	33793	40561	33420	33889	19800	29283	- Mean
	3858	5015	5983	9764	8213	12475	7649	19586	7833	12366	---	9655	- Std Dev
	25	97	127	59	21	21	14	18	15	9	1	407	- Count
Masters	---	31750	34225	39900	43250	43500	42950	47700	41750	43500	---	40000	
	---	27600	29600	34000	36750	38000	37050	36000	32500	29250	30700	33000	
	---	24500	26000	29300	32550	34900	25500	29600	23500	26625	---	28000	
	---	28188	30321	34573	37562	38244	34950	29600	32600	33125	30700	33827	
	---	5467	6540	7024	9373	8248	10902	10541	9518	10053	---	8398	
	0	16	68	63	34	25	20	8	5	4	1	244	
Doctorate	---	---	42000	45900	50000	50000	56625	52975	80000	64425	42000	48000	
	21500	---	38850	41900	44750	45000	46450	45850	56250	53500	36800	42000	
	---	---	36500	37750	39600	36500	39700	38375	35500	43400	26900	37650	
	21500	---	38591	41187	45078	43863	49164	46769	56730	53775	35233	43174	
	---	---	6103	8817	8652	9063	14018	11462	24488	11320	7671	10737	
	1	0	68	69	54	35	22	16	10	4	3	282	
No Response	---	---	---	---	---	---	---	---	---	---	37950	37950	
	---	---	---	---	---	---	---	---	---	---	35000	35000	
	---	---	---	---	---	---	---	---	---	---	27500	27500	
	---	---	---	---	---	---	---	---	---	---	35211	35211	
	---	---	---	---	---	---	---	---	---	---	11273	11273	
	0	0	0	0	0	0	0	0	0	0	9	9	
TOTAL	24025	27350	36600	42300	47500	47550	48150	49225	45800	50500	37575	41200	
	22500	25000	30400	36200	41500	41000	39750	38500	37500	33000	33500	33350	
	19150	21500	25500	30000	33000	34900	30000	31900	28200	27250	26175	26000	
	22042	24749	31069	36560	40428	41228	40245	42452	41053	38388	33793	34675	
	3781	5247	7674	9245	9993	10011	13510	15449	18853	14033	10243	11329	
	26	113	263	191	109	81	56	42	30	17	14	942	

Table 1.2.1

SALARIES of FULL-TIME EMPLOYED NON-ACADEMIC B.S. CHEMISTS  
according to SELECTED STATES and YEARS SINCE BS  
1986 Survey of ACS Members

SELECTED STATES	YEARS SINCE BS										No Resp	TOTAL	
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40			
California	21700	28000	38000	44000	49000	50750	53500	51800	53300	54500	---	45000	- 75th %-ile
	18800	25300	33600	36200	43400	43500	48000	40700	42750	47000	40000	37000	- 50th %-ile
	15000	23000	28500	28400	37200	31500	40500	35200	35575	35750	---	29200	- 25th %-ile
	19943	26279	33700	37295	43357	43350	48092	43144	44007	45500	40000	37677	- Mean
	5168	4853	7516	11069	10492	11289	12547	10072	11095	10840	---	11804	- Std Dev
	7	19	37	37	23	10	13	9	14	5	1	175	- Count
	---	26000	38000	43500	50000	62150	73500	52100	68000	45000	---	46750	
Texas	25250	24150	31800	40000	40900	51800	46500	51000	46000	28600	25000	36000	
	---	20500	26200	34000	32500	29375	39375	42000	33050	22200	---	26025	
	25250	24208	32600	39189	41377	47775	55417	48367	49062	33929	25000	38445	
	4596	4312	8577	9475	10954	18022	23750	5541	24292	18645	---	16033	
	2	12	20	19	13	4	6	3	13	7	1	100	
	---	28000	33500	36000	45000	52000	50250	52650	52750	70450	---	42200	
	Illinois	22100	23500	30700	30000	33400	47500	36500	40000	50000	45000	---	31000
18750		22000	26400	25900	28500	39000	30375	24900	40550	40450	---	24800	
22200		24526	30033	31218	36107	48200	40313	39433	47867	53360	---	35058	
3626		4342	5645	6649	9826	16135	11961	14215	13137	15909	---	12962	
4		23	15	17	15	7	8	9	12	5	0	115	
---		26650	31075	43400	46500	44725	52100	66750	56000	71000	---	43000	
Michigan		20500	24600	28400	36000	43000	40600	39500	45400	52000	63500	---	32500
	---	21900	25575	28600	37750	37225	39000	33975	43000	41500	---	26050	
	20500	24359	28138	39091	43133	42738	43533	51850	50333	57700	---	36042	
	4950	3634	5021	11894	6482	7723	7423	24278	6658	17384	---	14053	
	2	17	24	11	9	8	3	6	3	5	0	88	
	---	26550	33675	38000	44850	49875	50750	52000	51875	60900	---	45000	
	Ohio	20250	24800	27100	34000	39850	43500	43000	45750	46000	56000	---	34000
18300		23100	22850	25000	36825	30625	30600	38750	39250	29900	---	25100	
21150		24592	28850	32958	40475	40783	44544	47114	45383	48933	---	35934	
5377		3306	7822	7217	6406	11680	15865	13551	6852	16664	---	12595	
8		12	24	19	8	12	9	14	12	3	0	121	
---		27500	32000	46850	49500	47900	45000	69000	60000	54750	---	45400	
New Jersey		24000	25250	29100	36500	39000	44500	42000	45000	50500	37000	---	34300
	21750	20575	26100	30500	37200	34650	30000	36200	40000	30575	---	27000	
	23700	24983	30147	37871	41615	40564	37829	51767	53746	40775	---	37465	
	2490	5209	6089	9763	8229	14875	8603	19424	18695	13446	---	14859	
	5	24	32	21	13	14	7	12	19	4	0	151	
	---	26000	34150	37150	46000	52750	58000	56000	65000	67500	---	45000	
	New York	21000	24000	30000	29950	40500	47500	51000	43500	48000	50000	19800	35000
15375		18750	26100	25450	34000	38500	47500	39675	39000	37400	---	25900	
20875		24100	29479	32561	41990	43500	51771	48983	53693	51960	19800	36888	
5648		6162	6717	8572	13887	14402	7599	15683	20396	19588	---	15698	
4		17	29	18	10	8	7	6	14	5	1	119	
---		27275	33300	37500	44525	46750	51700	51250	55350	48000	---	41750	
Pennsylvania		23000	24750	29000	32150	36400	40500	36000	42750	46000	40000	---	32500
	19500	20650	25750	27625	29375	36375	28850	31150	34000	31500	---	27100	
	22000	24314	29457	32875	37190	43840	40356	44719	46035	39367	---	35722	
	2179	4166	6080	7128	8725	14190	15490	16455	11730	10865	---	12431	
	3	14	37	20	10	10	9	16	17	9	0	145	
	---	24000	27050	39000	45000	---	47250	39000	74500	---	---	39000	
	Florida	18000	22000	24300	33700	33000	43500	43500	38000	44000	54500	---	31000
---		20700	20050	31000	24750	---	35700	22500	24750	---	---	23000	
18000		22233	23222	36386	34250	43500	42150	33167	47750	54500	---	34372	
---		1662	4583	7086	10595	9192	6204	9251	26285	28991	---	14412	
1		3	9	7	4	2	4	3	4	2	0	39	
---		26750	33000	39675	43000	50000	50500	57000	55250	56250	---	42000	
No Response		22500	23000	28000	35000	38000	40000	41550	45600	47000	40500	---	33000
	19150	19500	24000	27625	31000	35050	35000	36600	39750	33500	---	25000	
	22040	23644	28665	34899	38201	41918	42519	47184	46564	45531	---	34961	
	3978	7315	6576	9665	9631	11392	11779	13812	13189	17923	---	12819	
	20	117	178	104	87	68	46	55	66	16	0	757	
	---	27000	33550	40000	45000	50000	50000	54450	55000	56500	40000	43000	
	TOTAL	21350	24000	29000	34500	39000	43000	43000	45000	47000	42900	25000	33750
18850		20575	25000	28000	32000	36000	35000	36200	39000	34500	19800	26000	
21713		24209	29476	35291	39490	42552	43987	46498	47952	45603	28267	35924	
4201		5981	6826	9496	9842	12163	13062	14938	15222	16752	10489	13386	
56		258	405	273	192	143	112	133	174	61	3	1,810	

Table 1.2.2

SALARIES of FULL-TIME EMPLOYED NON-ACADEMIC M.S. CHEMISTS  
according to SELECTED STATES and YEARS SINCE BS  
1986 Survey of ACS Members

SELECTED STATES	YEARS SINCE BS										No Resp	TOTAL	
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40			
California	---	---	36750	40600	52600	43500	56350	63475	75225	59000	---	48550	- 75th %-ile
	---	30100	31800	37000	41750	36000	46000	60000	49000	52000	51200	37000	- 50th %-ile
	---	---	27825	29500	33000	34950	28550	50300	30500	39611	---	30750	- 25th %-ile
	---	30100	32687	36685	42795	38300	44315	57417	51575	49844	51200	39921	- Mean
	---	2687	6582	8250	12198	7668	17767	7435	23689	10861	---	12471	- Std Dev
	0	2	30	27	24	9	13	6	4	5	1	121	- Count
Texas	---	---	37750	46800	48375	60500	44800	44000	55400	---	---	47500	
	---	27100	31500	37800	42200	51500	38100	33500	49600	53100	---	39300	
	---	---	25000	30100	36950	35000	31025	30450	45625	---	---	31875	
	---	27100	32233	37440	43400	48500	37975	36967	50983	53100	---	39916	
	---	1131	7426	10655	9036	12865	7675	10191	9234	---	---	11057	
	0	2	9	15	10	5	4	6	6	1	0	58	
Illinois	---	26925	34500	45000	48750	55100	43625	77775	74850	50000	---	45425	
	---	22550	31000	37200	43750	43050	41500	43500	46000	50000	---	37400	
	---	22000	26850	29500	31000	35500	36750	34875	43000	43000	---	30000	
	---	23825	30976	38417	42292	43538	39250	52050	56340	47667	---	39387	
	---	3006	5251	10349	14047	12743	7575	25008	19009	4041	---	13374	
	0	4	17	23	12	8	6	4	5	3	0	82	
Michigan	---	26900	32300	39000	47975	65000	56000	57500	69000	---	---	48292	
	---	26400	29500	34800	43000	44000	50000	43200	60000	26000	---	37000	
	---	23500	26400	26000	38000	33325	41700	41400	18000	---	---	29250	
	---	25440	29367	32960	43483	47538	45963	48200	49000	26000	---	39569	
	---	1823	3140	8714	8483	16458	16167	10046	27221	---	---	13924	
	0	5	12	5	12	8	9	5	3	1	0	60	
Ohio	---	---	37000	38750	50000	51900	63650	56500	54500	57000	---	50000	
	---	26500	32400	35900	43000	44100	50300	39000	44950	46050	---	42100	
	---	---	28000	33025	35000	41500	41500	34750	38425	43275	---	34600	
	---	26500	30035	37006	41500	46038	52467	44300	46236	48775	---	42765	
	---	---	10670	6316	8498	8533	13223	12538	9885	7785	---	11060	
	0	1	7	16	10	13	9	5	14	4	0	79	
New Jersey	---	32500	35350	45000	55475	52400	53500	66650	73825	77500	---	50000	
	---	30000	30500	35750	45450	41100	40000	60250	52100	68400	---	40000	
	---	25000	26700	30725	36150	35250	37600	45400	43650	58700	---	32500	
	---	29167	31438	37121	45833	45175	44440	60063	57775	68200	---	43352	
	---	3819	6855	8952	10216	16612	11657	17123	19485	9887	---	15549	
	0	3	21	24	18	24	5	8	8	4	0	115	
New York	---	34125	39000	40000	50000	56325	59500	51900	57000	46500	---	49000	
	---	30000	32000	35000	37000	49000	53000	42700	51167	43000	---	40000	
	---	20625	27500	26000	34700	38000	26250	36000	43250	35500	---	32000	
	---	28250	32788	35143	39827	47270	46250	44367	53123	41400	---	40852	
	---	7621	7653	7642	8429	11371	19276	12864	14140	6877	---	12338	
	0	4	17	7	15	10	4	9	10	5	0	81	
Pennsylvania	---	28900	36600	42750	44200	55500	61500	53250	59200	---	---	51550	
	---	26900	34900	36000	40500	45500	46600	51500	51800	55000	---	40350	
	---	26000	26000	32100	36000	32000	33500	39400	48950	---	---	34000	
	---	27267	32325	37371	41953	44220	48233	47867	52225	55000	---	42709	
	---	1484	6420	8338	9901	11913	15255	7372	10144	7071	---	11723	
	0	3	8	17	19	10	9	6	12	2	0	86	
Florida	---	---	33000	---	---	---	---	---	---	---	---	45000	
	---	---	30000	45000	34000	43000	48500	---	60000	31200	---	35000	
	---	---	24000	---	---	---	---	---	---	---	---	31200	
	---	---	29000	45000	34000	43000	48500	---	60000	31200	---	41564	
	---	---	4583	---	---	---	16263	---	35355	---	---	17276	
	0	0	3	1	1	1	2	0	2	1	0	11	
No Response	---	30250	34750	40000	44000	49000	54250	59775	58000	76000	---	48000	
	---	29050	30000	35000	38000	40000	46000	51000	50000	49000	32600	38000	
	---	22750	26400	30000	33000	33875	33500	41225	44000	35700	---	30700	
	---	27810	30427	35640	39176	42954	45895	51389	49904	53129	32600	40602	
	---	6209	5821	7594	10862	12796	15573	15156	12177	23308	2687	13670	
	0	10	81	113	99	70	42	54	47	21	2	539	
TOTAL	---	30000	34900	41850	47875	52550	55000	59700	58000	60000	51200	48500	
	---	27050	31000	35650	40000	41950	46000	50000	50000	49000	34500	38850	
	---	23750	26950	30550	33850	35000	36000	40000	43800	41200	30700	31600	
	---	27171	31160	36440	41079	44071	45779	50282	51116	51130	38800	40939	
	---	4612	6298	8232	10670	12842	14845	14783	13846	18019	10906	13302	
	0	34	205	248	220	158	103	103	111	47	3	1,232	

Table 1.2.3

SALARIES of FULL-TIME EMPLOYED NON-ACADEMIC Ph.D. CHEMISTS  
according to SELECTED STATES and YEARS SINCE BS  
1986 Survey of ACS Members

SELECTED STATES	YEARS SINCE BS										No Resp	TOTAL	
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40			
California	---	---	46500	50525	58500	70000	69000	77750	73500	81000	---	62925	- 75th %-ile
	---	31500	40250	42750	50500	58900	57050	64500	63400	70000	60000	51000	- 50th %-ile
	---	---	35475	39750	45150	45200	50100	50000	53000	54000	---	44000	- 25th %-ile
	---	31500	41768	44803	52961	58333	56769	64129	64090	67127	60000	54115	- Mean
	---	---	12111	12134	10306	15138	14623	16639	13657	15339	---	15256	- Std Dev
	0	1	28	58	69	39	32	30	29	11	1	298	- Count
Texas	---	---	40450	50625	57750	73000	65000	78667	72250	86500	---	60900	
	---	34000	39500	45000	50000	56000	57500	70500	59000	65000	---	50700	
	---	---	35000	39400	39350	50500	41100	56225	41000	48917	---	40050	
	---	34000	38115	45200	49557	58948	57867	67812	57389	66806	---	52839	
	---	---	4048	7222	11419	12369	18323	12568	15799	19640	---	14751	
	0	1	13	24	21	23	15	10	9	4	0	120	
Illinois	---	---	43550	45250	60000	74500	64250	62000	79500	81675	---	60000	
	---	---	40000	42000	49600	56650	55550	52000	65800	57000	---	49300	
	---	---	37375	39450	39800	46075	48225	47000	49500	36917	---	42075	
	---	---	40389	42672	49948	58622	56769	55296	65771	57640	---	52867	
	---	---	4580	6392	10810	16065	13905	11854	16006	22032	---	14687	
	0	0	18	29	27	32	26	23	17	8	0	180	
Michigan	---	---	38925	47500	55500	56800	73000	85000	68500	76500	---	55750	
	25250	---	38100	42800	51000	53500	56000	54200	60000	63100	---	47500	
	---	---	36450	40100	43000	46250	45750	47700	52050	49175	---	40300	
	25250	---	38178	43733	49779	52188	59672	62653	59367	62925	---	50148	
	5303	---	2041	7427	10431	7776	16253	18875	9683	14418	---	14118	
	2	0	18	43	19	16	18	19	6	4	0	145	
Ohio	---	---	41000	48000	53750	60125	59100	68000	65000	74550	---	58000	
	43500	28500	39300	44950	48000	47000	53300	53450	52000	64750	---	48000	
	---	---	36300	39000	42300	43475	47775	48000	40000	60000	---	41000	
	43500	28500	39306	43686	49076	51800	54453	54459	53760	66950	---	50190	
	---	---	3312	9003	9257	12176	10141	14302	15247	12171	---	12444	
	1	1	16	28	25	28	26	24	15	6	0	170	
New Jersey	---	---	44000	51800	53450	69250	74000	83500	80000	72600	---	65000	
	---	---	39600	45600	48900	59000	59500	67000	73000	63000	65000	51000	
	---	---	36900	41925	42525	48000	49000	50500	60100	50000	---	42475	
	---	---	41031	46730	49030	58716	61351	64668	71140	59979	65000	54453	
	---	---	5790	7749	12729	14870	14648	22294	14968	17909	---	16058	
	0	0	35	60	46	49	39	25	20	19	1	294	
New York	---	---	42950	48000	58750	59500	65000	75250	72250	73456	---	60200	
	---	---	40000	44000	48000	51000	53000	60200	66600	66000	---	48300	
	---	---	38100	39000	41250	42750	44000	48200	59700	55600	---	41500	
	---	---	40483	43294	49203	50109	54063	60504	65650	64257	---	51572	
	---	---	3749	6100	11546	10187	12289	16062	14090	13024	---	13645	
	0	0	24	47	29	32	27	25	26	9	0	219	
Pennsylvania	---	---	42500	49000	55000	60000	60050	59000	73500	83108	---	55825	
	---	21000	40400	44000	49750	52500	50400	51000	64000	52500	---	48000	
	---	---	38500	40000	43000	46000	43000	45750	52000	43425	---	41225	
	---	21000	41059	45374	49716	52946	51550	54188	62700	60374	---	50185	
	---	---	4339	7899	11209	12946	16074	13383	15456	22108	---	13214	
	0	1	29	43	50	39	18	17	21	6	0	224	
Florida	---	---	45400	51489	46250	64250	67500	55000	---	---	---	53778	
	---	---	41500	42900	40500	53800	58000	47000	---	43000	---	44000	
	---	---	38350	37500	33575	42750	44000	45500	---	---	---	40000	
	---	---	41750	44176	40420	53267	56200	49167	---	43000	---	46462	
	---	---	3653	7428	10507	10753	13236	5107	---	11314	---	10835	
	0	0	4	5	10	6	5	3	0	2	0	35	
No Response	---	---	41300	48450	56000	62350	64500	67000	70250	70000	46500	60000	
	---	---	38400	42300	47000	54000	55000	56000	61000	59750	32900	49850	
	---	---	36000	37850	42000	45800	46600	46078	50000	51650	27175	41514	
	---	---	38071	43289	49121	55151	56528	57462	62265	60344	38338	52008	
	---	---	5465	8679	12434	13142	14463	14870	15714	15813	15065	14684	
	0	0	129	168	231	253	171	131	129	52	8	1,272	
TOTAL	43500	33375	42000	48950	55900	62600	65000	69500	72750	71950	61250	60000	
	29000	30000	39150	43400	48000	54400	55000	56200	62600	60000	39400	49900	
	21500	22875	36900	39600	42300	45600	47050	48000	52000	51000	27725	42000	
	31333	28750	39441	44174	49593	55339	56706	58947	62994	61357	43170	52118	
	11184	5635	6002	8530	11726	13387	14383	15958	15372	16423	16784	14574	
	3	4	314	505	527	517	377	307	272	121	10	2,957	

Table 1.3.1

SALARIES OF FULL-TIME EMPLOYED NON-ACADEMIC B.S. CHEMISTS according to LOCAL SECTION and YEARS SINCE BS 1986 Survey of ACS Members

LOCAL SECTION	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		
Orange County	---	---	34800	35600	---	---	---	---	61775	---	---	46250	75th %ile
22500	26750	32500	29300	39100	---	49000	51800	56900	47000	---	---	33300	50th %ile
---	---	27800	26200	---	---	---	---	---	---	---	---	---	25th %ile
22500	26750	31111	30367	39100	---	49000	51800	52525	47000	---	---	36827	Mean
10607	8132	5451	4790	9758	---	---	8202	12093	---	---	---	12316	Std Dev
2	2	9	3	2	0	1	2	4	1	0	0	26	Count
Santa Clara	---	28825	36950	43750	48000	43750	---	---	55150	---	---	43750	
18800	25350	30200	30000	47000	37500	57000	47100	38000	49000	---	---	33100	
---	21400	27475	25200	30250	30500	---	---	34725	---	---	---	26325	
18800	24600	30413	36167	41750	37250	57000	47100	42625	49000	---	---	35578	
---	5371	6823	12695	11206	7274	---	18243	11958	---	---	---	11895	
1	6	8	9	4	4	1	2	4	1	0	0	40	
Southern California	---	36500	37000	44000	44000	---	49950	---	45500	---	---	44500	
14800	31500	32500	36850	37650	53500	48000	33600	42000	60000	---	---	36200	
---	23800	30250	35000	31925	---	36000	---	29500	---	---	---	31000	
14800	30420	34042	38450	37825	53500	43980	33600	38400	60000	---	---	37342	
---	6865	7933	6989	6541	7778	7855	3677	8325	---	---	---	9586	
1	5	12	8	4	2	5	2	5	1	0	0	45	
California	---	26250	44400	48200	58500	62000	---	---	---	---	---	48200	
20000	25150	35000	40000	49000	45000	60050	---	43500	---	40000	---	39800	
---	20750	24425	30000	35900	28900	---	---	---	---	---	---	26500	
20000	24050	34613	41673	47189	45167	60050	---	43500	---	40000	---	38995	
2404	2852	11036	13698	12780	16751	22840	---	---	---	---	---	14683	
2	6	8	11	9	3	2	0	1	0	1	0	43	
Chicago	25800	28000	33200	36225	45000	59000	53500	50400	54000	75750	---	45000	
23200	23000	28700	30300	33400	44750	43000	40000	50000	56450	---	---	30700	
19500	22000	24225	27675	28500	36225	33125	24700	41100	41675	---	---	24700	
22760	26135	28944	32171	36564	48067	43583	38286	48415	58467	---	---	35782	
3381	11620	6353	6692	9299	17671	11868	14793	12732	18946	---	---	14663	
5	23	16	14	11	6	6	7	13	6	0	0	107	
Cleveland	20900	28300	30100	38000	---	52325	---	49500	53500	---	---	44500	
19200	25000	27200	36000	---	38250	40000	45000	51750	56000	---	---	31000	
16700	18500	23400	31000	---	26800	---	44500	37325	---	---	---	24200	
18880	23720	27791	34357	---	39125	40000	46600	47633	56000	---	---	34011	
2579	5049	5145	6003	---	13942	---	3209	8211	---	---	---	11872	
5	5	11	7	0	4	1	5	6	1	0	0	45	
Minnesota	---	28900	39300	---	53000	43000	---	---	---	---	---	46500	
20300	27600	32000	40000	45000	39950	33000	58000	67500	---	---	---	39000	
---	23700	21250	---	39000	35475	---	---	---	---	---	---	26100	
20300	26560	30620	40000	45667	39475	33000	58000	67500	---	---	---	38324	
---	2740	9352	---	7024	4119	21213	9899	24749	---	---	---	15420	
1	5	5	1	3	4	2	2	2	0	0	0	25	
New York	---	26500	32250	36500	48000	58000	---	71750	87500	67500	---	42000	
23500	24000	28000	30000	43500	46000	48750	43450	48000	39800	---	---	31000	
---	19000	25950	25600	39000	45000	---	39225	43000	30000	---	---	25500	
23500	23853	27995	31164	43500	49667	48750	51475	60250	46960	---	---	35716	
5657	4925	5906	5560	4655	7234	1768	19350	23951	23091	---	---	16570	
2	15	21	11	4	3	2	4	8	5	0	0	75	
Northeastern	24400	27250	38000	50950	47150	52000	41100	45000	54000	41000	---	40500	
21800	23300	30000	36000	35050	44000	35000	42000	45000	35000	19800	---	31900	
16500	20750	25350	30500	23425	36475	31900	36000	42000	31000	---	---	24850	
20900	24655	30524	40856	36433	43983	37714	42714	46200	35667	19800	---	34177	
4263	6434	6916	12444	13903	8768	7759	10594	8447	5033	---	---	11484	
4	22	21	9	6	6	7	7	11	3	1	0	97	
North Jersey	25500	26975	33000	46775	50000	53000	45750	80000	58750	61800	---	46825	
24000	25250	29700	38900	42000	44000	38500	46000	51250	57000	---	---	35000	
21750	23800	27000	31000	39000	35000	30500	36200	42350	32050	---	---	27000	
23700	25189	30885	38300	45027	39691	38250	54771	54030	48940	---	---	38301	
2490	4384	6179	8892	12679	15910	8421	22592	16854	15733	---	---	15366	
5	18	27	14	11	11	4	7	16	5	0	0	118	
Philadelphia	23375	25500	31950	40000	44125	71500	---	48200	60500	52650	---	41450	
21250	22500	28900	32300	40500	47200	45500	41000	48200	41900	---	---	32000	
18375	18500	25925	26775	32550	37000	---	26500	31500	33950	---	---	25500	
21000	22169	29654	34106	38938	52840	45500	43633	46160	41217	---	---	35550	
2677	3447	6224	10063	6835	18537	31820	11394	14669	12219	---	---	13180	
4	13	24	18	8	5	2	15	10	6	0	0	105	
Pittsburgh	---	---	32500	---	---	43000	56050	86400	49000	---	---	45000	
---	29050	29000	35000	50000	40000	39500	84000	48000	---	---	---	35300	
---	---	23100	---	---	32050	24825	31600	44680	---	---	---	28100	
---	29050	27611	35000	50000	38020	40125	67333	47200	---	---	---	38648	
---	1344	6021	14142	---	6403	16313	30959	2307	---	---	---	16386	
0	2	9	2	1	5	4	3	3	0	0	0	29	
Southeastern Texas	---	---	39500	43175	51750	---	99000	---	66000	54500	---	49250	
25250	21000	35000	38900	41100	57500	65000	55000	47500	22200	25000	---	38000	
---	---	25600	32750	---	---	---	---	---	---	---	---	28975	
25250	21000	34833	39429	43033	57500	71333	55000	46167	32780	25000	---	40196	
4596	4243	9101	9919	11431	10607	25106	---	21931	21956	---	---	16609	
2	2	12	14	6	2	3	1	6	5	1	0	54	
St. Louis	---	---	36075	46200	48725	---	---	---	67000	---	---	44700	
22500	25500	32700	38650	37500	49800	---	45700	29100	48000	---	---	33700	
---	---	25500	33400	26500	---	---	---	29100	---	---	---	28275	
22500	25500	31492	40550	37575	49800	---	45700	41733	48000	---	---	36266	
0	---	5874	9879	12274	5940	---	---	21882	---	---	---	11188	
2	1	12	6	4	2	0	1	3	1	0	0	32	
Washington, D.C.	---	24450	36250	46450	---	64500	76000	70000	---	---	---	46200	
18550	20800	25700	40100	49650	45100	41000	63000	57550	---	---	---	36000	
---	---	17150	22100	36000	---	34500	40000	40000	---	---	---	22650	
18550	21744	28143	41000	49650	48620	52333	57600	57550	---	---	---	37745	
1485	6315	8658	6477	5162	17920	20502	15189	15768	---	---	---	17494	
2	9	14	5	2	5	3	7	2	0	0	0	49	
Other Local Section	27125	26400	32750	38000	43200	50000	49700	52000	55750	53750	---	42000	
22700	23900	28000	32700	37300	40000	42000	42500	45000	39100	---	---	33000	
18250	20050	24000	27000	31350	35600	35000	33975	37250	31125	---	---	26000	
22450	23644	28324	33508	38066	40766	42720	44323	46199	43015	---	---	34951	
5323	4681	6455	8271	8999	11098	11274	14168	15216	14854	---	---	12285	
16	112	185	131	109	77	64	62	76	20	0	0	852	
No Response	---	28250	38000	44950	49000	52250	58000	58500	57000	75750	---	47500	
21950	23650	32000	36700	37200	47600	43000	51750	47000	45500	---	---	38000	
---	18650	25800	31025	29850	42800	41500	38000	39250	36750	---	---	28025	
21950	23617	31791	40710	39400	47550	48400	50917	47750	52167	---	---	38838	
1344	7623	5674	15846	11499	4900	9762							

Table 1.3.2

SALARIES of FULL-TIME EMPLOYED NON-ACADEMIC M.S. CHEMISTS  
according to LOCAL SECTION and YEARS SINCE BS  
1986 Survey of ACS Members

LOCAL SECTION	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			
Orange County	---	---	---	---	54000	56200	---	---	---	---	---	---	51200	- 75th %-ile
	---	28200	33700	37000	38000	51000	48000	---	32000	45000	51200	---	38000	- 50th %-ile
	---	---	---	---	33000	34500	---	---	---	---	---	---	33000	- 25th %-ile
	---	28200	33700	37000	44000	47367	48000	---	32000	45000	51200	---	41626	- Mean
	---	---	11738	---	15133	11105	---	---	4243	---	---	---	11951	- Std Dev
	0	1	2	1	7	3	1	0	2	1	1	---	19	- Count
Santa Clara	---	---	40500	40800	55000	---	72175	---	---	---	---	---	51700	
	---	---	32500	36000	50000	45000	56350	64000	---	44611	---	---	40700	
	---	---	30775	29500	40000	---	28000	---	---	---	---	---	32250	
	---	---	34517	35914	46471	45000	52175	64000	---	44611	---	---	42526	
	---	---	5269	6293	11230	---	23633	---	---	14692	---	---	13156	
	0	0	6	7	7	1	4	1	0	2	0	---	28	
Southern California	---	---	39000	44850	39975	---	54150	---	---	---	---	---	46000	
	---	---	32600	36400	33350	23800	46000	56900	---	57500	---	---	36000	
	---	---	28500	28600	26525	---	28000	---	---	---	---	---	28500	
	---	---	33518	37425	34317	23800	42060	56900	---	57500	---	---	38118	
	---	---	5620	11161	10174	---	16764	6930	---	7778	---	---	12032	
	0	0	11	12	6	1	5	2	0	2	0	---	39	
California	---	---	34875	42700	55400	41500	---	---	---	---	---	---	48250	
	---	---	32000	31650	38000	50000	36000	60750	79300	---	---	---	26500	
	---	---	27250	31250	38000	34750	---	---	---	---	---	---	32000	
	---	---	32000	32488	37100	47800	37700	36000	60750	79300	---	---	39971	
	---	---	8372	5662	8906	3633	22627	3606	---	---	---	---	13052	
	0	1	8	6	3	5	2	2	1	0	0	---	28	
Chicago	---	---	26925	37250	45375	48000	56450	45500	88700	80925	50000	---	45750	
	---	---	23250	31600	37100	40000	43350	42150	45000	54350	50000	---	37200	
	---	---	22000	27675	31250	31000	33750	33825	42000	43000	43000	---	30750	
	---	---	23825	32019	39130	41409	45050	40100	58567	59425	47667	---	39904	
	---	---	3006	5891	10386	14379	12407	8906	26139	20453	4041	---	13673	
	0	4	16	20	11	6	6	3	4	3	0	---	73	
Cleveland	---	---	---	40775	---	---	---	---	---	---	---	---	50375	
	---	---	35750	36300	44500	56450	47000	44500	46750	---	---	---	42950	
	---	---	---	32950	---	---	---	---	---	---	---	---	36550	
	---	---	35750	36675	44500	56450	47000	44500	46750	---	---	---	43221	
	---	---	1768	4166	---	7000	---	7778	6718	---	---	---	8260	
	0	0	2	4	1	2	1	2	2	0	0	---	14	
Minnesota	---	---	---	45000	49500	72000	---	---	---	---	---	---	45400	
	---	---	26300	36800	42000	39000	42300	---	---	---	---	---	38800	
	---	---	---	32000	32250	30000	---	---	---	---	---	---	30750	
	---	---	26300	37800	38000	47200	42300	---	---	---	---	---	38518	
	---	---	141	7685	14619	22907	6081	---	---	---	---	---	12752	
	0	0	2	7	8	3	2	0	0	0	0	---	22	
New York	---	---	36500	35300	48000	63000	---	49000	59000	48000	---	---	48000	
	---	---	23750	32400	29650	36000	53000	34500	38500	49417	45000	---	37000	
	---	---	27750	26000	34775	39000	---	32750	41750	30000	---	---	32000	
	---	---	23750	31544	30417	39025	50543	34500	41667	53542	41000	---	40201	
	---	---	8839	7233	4709	8748	11936	23325	14949	16000	9644	---	13922	
	0	2	9	6	8	7	2	6	8	3	0	---	51	
Northeastern	---	---	36525	42750	42250	62000	70000	60300	66500	---	---	---	48500	
	---	---	28300	31000	35600	36900	53350	42000	53650	50000	93000	---	39100	
	---	---	28500	30375	32500	40000	27000	46075	43300	---	---	---	31900	
	---	---	28300	32250	36800	36350	51450	47857	57000	53267	93000	---	43002	
	---	---	5570	8061	8091	12108	23133	16730	11940	---	---	---	15429	
	0	1	8	18	14	6	7	8	3	1	0	---	66	
North Jersey	---	---	32500	35675	45000	56425	58500	51250	81100	73825	77500	---	52550	
	---	---	30000	31850	39750	50000	45000	39250	65000	52100	68400	---	41100	
	---	---	25000	27275	30725	36450	36000	37150	52950	43650	58700	---	33000	
	---	---	29167	32081	37445	47283	48253	42550	66620	57775	68200	---	44783	
	---	---	3819	5789	9205	10270	18167	8409	18001	19485	9887	---	16187	
	0	3	16	20	16	17	4	5	8	4	0	---	93	
Philadelphia	---	---	37225	36600	46500	45750	54025	60250	55500	64400	---	---	51900	
	---	---	27900	30500	34800	38100	48000	46300	53000	56800	55000	---	39800	
	---	---	26225	22000	31350	36000	37375	33875	44500	39800	---	---	31350	
	---	---	30450	29744	38531	40025	45700	48013	49667	53040	55000	---	41674	
	---	---	6481	7448	9333	5092	11042	14776	11112	15726	7071	---	12469	
	0	4	9	13	8	6	8	6	5	2	0	---	61	
Pittsburgh	---	---	33500	37500	---	57000	---	---	---	---	---	---	54000	
	---	---	29200	35750	44600	55000	61000	---	51000	---	---	---	38000	
	---	---	24600	27625	---	54000	---	---	---	---	---	---	32000	
	---	---	29100	33625	44600	55333	61000	---	51000	---	---	---	41207	
	---	---	4680	5851	566	1528	---	---	---	---	---	---	12245	
	0	0	4	4	2	3	1	0	1	0	0	---	15	
Southeastern Texas	---	---	---	45400	58125	---	---	56000	---	---	---	---	45450	
	---	---	27900	31250	37800	43000	---	45000	40000	54000	---	---	40000	
	---	---	---	27300	39200	---	---	31500	---	---	---	---	29975	
	---	---	27900	31250	34878	46775	---	45000	42500	54000	---	---	39632	
	---	---	8839	11413	10811	---	---	12440	19799	---	---	---	12582	
	0	1	2	9	4	0	1	3	2	0	0	---	22	
St. Louis	---	---	32200	38875	50100	56500	---	59000	---	---	---	---	49250	
	---	---	29300	32500	40400	35350	---	50000	61100	54000	---	---	35350	
	---	---	29100	29075	39600	32000	---	29300	---	---	---	---	29900	
	---	---	29743	33433	43960	43783	---	46100	61100	54000	---	---	40193	
	---	---	3594	5156	8076	18372	---	18229	12869	---	---	---	13319	
	0	0	7	6	5	6	0	3	2	1	0	---	30	
Washington, D.C.	---	---	34800	41750	50100	47950	40400	63900	67000	---	---	---	50300	
	---	---	22000	28100	36500	46550	42500	32000	57000	61000	59250	30700	40700	
	---	---	25650	34300	32125	39700	22000	46000	58000	---	---	---	32000	
	---	---	22000	29800	37550	42667	43067	31467	55200	62000	59250	30700	42811	
	---	---	5096	4001	9108	4857	9212	10592	4583	43487	---	---	14709	
	0	1	5	4	6	6	3	5	3	2	1	---	36	
Other Local Section	---	---	30000	33300	40350	44500	48725	56950	54500	55475	57500	---	48000	
	---	---	26850	30000	35000	38900	40550	49700	46250	49000	44100	34500	38500	
	---	---	24375	26350	30375	33000	33000	36000	44000	39925	35950	---	31000	
	---	---	27081	29973	35846	40030	42062	47314	47660	48835	47644	34500	40411	
	---	---	4205	6341	7782	10794	12050	14365	14255	12335	18546	---	12970	
	0	16	85	106	104	78	53	125	68	25	1	---	588	
No Response	---	---	41472	44500	48500	47375	55000	63000	---	---	---	---	48000	
	---	---	31000	34000	38950	36000	52000	50000	47900	45500	---	---	27000	
	---	---	27250	33250	35425	31200	30700	40900	---	---	---	---	32500	
	---	---	33965	37900	40970	39063	45960	51560	47900	45500	---	---	40214	
	---	---	7294	9044	7695	8590	13249	12165	5798	---	---	---	9815	
	0	0	13	5	10	8	3	5	2	1	0	---	47	
TOTAL	---	---	30000	34900	41850	47875	52550	55000	59700	58000	60000	51200	48500	

Table 1.3.3

SALARIES OF FULL-TIME EMPLOYED NON-ACADEMIC Ph.D. CHEMISTS  
according to LOCAL SECTION and YEARS SINCE BS  
1986 Survey of ACS Members

LOCAL SECTION	YEARS SINCE BS										No Resp	TOTAL	
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40			
Orange County	---	---	40375	49500	52625	53000	70000	80500	81875	---	---	57000	- 75th %ile
29000	---	21000	36150	42850	50000	39000	56500	63450	49400	---	---	60000	- 50th %ile
---	---	---	22875	37325	32700	29250	45125	51375	39000	---	---	36750	- 25th %ile
29000	---	21000	32717	42990	48300	41688	58813	63913	57550	---	60000	48825	- Mean
---	---	---	9397	6890	16266	12906	13116	15965	22614	---	---	17027	- Std Dev
---	1	1	6	10	8	8	8	8	6	0	1	57	- Count
Santa Clara	---	---	47000	50050	59000	74000	72975	66525	68050	77700	---	61500	
---	---	---	43000	46800	51000	60150	63150	62500	56350	70000	---	51000	
---	---	---	40000	40450	47200	49550	55950	47675	54250	58850	---	45000	
---	---	---	42945	49847	52779	61540	61700	58767	59550	68620	---	54743	
---	---	---	5335	15942	7433	12724	19196	10085	8118	10340	---	13772	
0	0	0	11	17	19	10	10	6	4	5	0	82	
Southern California	---	---	50200	50525	63500	65000	64650	68275	71000	70000	---	64000	
---	---	---	38900	44550	61250	54000	56000	39500	68000	54000	---	51000	
---	---	---	33000	32925	45125	45000	49000	50000	54550	49300	---	45600	
---	---	---	40400	42580	58630	55429	56660	58925	63820	57767	---	53887	
---	---	---	8848	8846	12609	10983	9835	10329	8939	10852	---	12355	
0	0	0	3	10	10	7	5	4	5	3	0	47	
California	---	---	59400	46000	56700	80000	68250	81875	75000	92250	---	67400	
---	31500	---	44600	41000	50000	68000	56500	76750	83400	68000	---	52000	
---	---	---	33925	37900	45000	58000	51625	61700	52000	51250	---	44500	
---	31500	---	48383	42647	52404	68071	58625	71442	62982	70500	---	56127	
---	---	---	22281	7929	10253	14487	10799	20374	11635	21764	---	16657	
0	0	1	6	19	25	7	8	12	11	4	0	93	
Chicago	---	---	43250	45500	59250	75500	64750	64000	82000	85000	---	60000	
---	---	---	40200	42000	49400	55150	56550	55000	68000	54000	---	48900	
---	---	---	36750	38900	42075	46300	48075	46500	50000	34222	---	41550	
---	---	---	39400	42468	50366	59137	57250	56424	68007	56017	---	52452	
---	---	---	5282	6600	10228	15570	14498	13196	15910	23275	---	15019	
0	0	0	21	31	28	30	24	17	15	7	0	173	
Cleveland	---	---	45275	52275	57400	65000	71850	76000	80200	---	---	60125	
---	43500	---	38650	47000	51500	59000	59200	55000	58400	51000	---	50100	
---	---	---	36300	40750	46650	46000	43700	49100	37500	---	---	43875	
43500	---	---	40075	46010	52300	55957	58250	61040	58700	51000	---	52227	
---	---	---	4927	12780	9431	15111	14727	14174	22075	---	---	13898	
1	0	4	10	8	7	4	5	4	1	0	4	44	
Minnesota	---	---	45600	48475	56000	65800	66750	---	65000	---	---	59250	
---	---	---	41000	46400	50000	56750	59000	77750	50000	---	---	49950	
---	---	---	40300	40425	43350	49250	42000	---	36300	---	---	42075	
---	---	---	42660	44900	51254	57133	57000	77750	50433	---	---	52472	
---	---	---	3303	4616	12975	12252	14881	22274	14355	---	---	13322	
0	0	0	5	10	13	12	9	2	3	0	0	54	
New York	---	---	43000	49250	63000	59000	65750	64250	71200	70528	---	60050	
---	---	---	40000	45300	52000	50000	56250	54600	64000	56600	---	47200	
---	---	---	38000	40200	41000	41500	41250	45475	40600	42750	---	40275	
---	---	---	40347	44911	50820	49795	55139	54533	55427	56052	---	50662	
---	---	---	4501	5041	11451	13514	14512	16368	18533	14145	---	13298	
0	0	0	15	18	15	21	16	12	11	6	0	114	
Northeastern	---	---	45300	50000	63875	63750	62250	50150	83125	70900	---	62900	
---	---	---	40500	45000	55500	59500	52500	48400	67550	67000	---	50000	
---	---	---	38300	42000	43250	51400	45000	42175	60200	55375	---	43000	
---	---	---	41839	45587	55309	58520	55720	48883	69914	64417	---	53850	
---	---	---	5431	7193	14558	11268	15418	10310	14458	7877	---	14107	
0	0	0	18	23	32	20	20	12	14	6	0	145	
North Jersey	---	---	44150	50750	53600	69250	74000	82000	79500	76100	---	65000	
---	---	---	39600	44500	48800	59000	62500	70000	70000	65000	65000	50000	
---	---	---	36600	41000	43000	47500	48375	57600	58900	52850	---	42900	
---	---	---	40320	46127	49659	59023	61446	65537	68990	63146	65000	56801	
---	---	---	6273	7574	14581	13583	15563	20211	13819	18252	---	16349	
0	0	0	30	45	39	37	26	19	21	13	1	231	
Philadelphia	---	---	42000	50000	55000	65250	60200	63000	78400	83108	---	58000	
---	---	---	40000	43800	50000	57400	52000	56000	66000	59150	---	49750	
---	---	---	38500	40000	43700	50150	46000	48000	53950	43425	---	42000	
---	---	---	41217	44957	50713	55185	53927	58380	67685	62591	---	51502	
---	---	---	4622	7507	12482	15635	8740	14610	14511	22721	---	13843	
0	0	0	23	35	31	20	15	15	13	6	0	158	
Pittsburgh	---	---	---	51125	50000	58650	53500	57900	66000	---	---	53200	
---	---	---	41450	41100	44000	48500	41500	51200	52000	48000	---	46000	
---	---	---	38000	40000	43000	43050	22500	49500	46000	---	---	40200	
---	---	---	41450	44725	44600	51000	39167	53933	53286	48000	---	48132	
---	---	---	778	9747	5368	12975	15631	9278	10897	16971	---	10773	
0	0	0	2	8	9	10	3	6	7	2	0	47	
Southeastern Texas	---	---	40250	52500	59000	76125	80000	78000	70750	---	---	64250	
---	---	---	34000	38750	45000	51800	58000	64000	85000	65000	---	54000	
---	---	---	35000	40400	40000	51825	56250	55450	52500	---	---	41150	
---	---	---	34000	38560	45808	51479	62433	67544	66180	61300	65000	54507	
---	---	---	3342	8515	10823	13516	14916	11835	10581	7071	---	14588	
0	1	10	12	14	12	9	5	5	2	0	0	70	
St. Louis	---	---	41500	49000	51000	66500	60000	88000	63900	---	---	58400	
---	---	---	37700	40000	45000	54500	58000	64000	58700	---	70000	47400	
---	---	---	34500	39725	39500	48650	46200	47000	49375	---	---	40000	
---	---	---	37899	41870	46608	58358	54733	66800	56983	---	70000	50441	
---	---	---	3824	7591	9481	11705	7457	21040	7876	---	---	13482	
0	0	0	9	10	13	12	3	5	6	0	1	59	
Washington, D.C.	---	---	42800	47500	53750	57900	55150	65100	67000	78000	---	58000	
---	---	---	28500	32700	41900	47200	50000	50000	60000	60100	68000	50000	
---	---	---	30050	36000	40000	42500	45000	47500	52500	55000	---	42600	
---	---	---	28500	35189	41627	46660	50197	51142	57267	57839	68664	26900	
---	---	---	6721	6970	9122	11151	8817	10323	11675	13888	---	12530	
0	1	9	15	25	35	33	21	18	11	1	1	169	
Other Local Section	---	---	41000	48000	53000	61400	65000	69375	71600	71200	43500	60000	
---	21500	---	38450	43000	46200	54000	55000	54600	60000	59750	32900	48700	
---	---	---	36450	39000	41000	45950	47200	47025	50800	47375	27500	41000	
---	21500	---	38519	43615	47570	54502	56823	57675	62098	59680	34967	51395	
---	---	---	4381	8325	11295	12697	14891	16100	15886	17056	8800	14528	
1	0	0	130	217	219	249	172	152	117	50	6	1,313	
No Response	---	---	41625	48800	63600	71625	69000	62000	86500	68200	---	66500	
---	---	---	38250	43600	50000	56000	53000	54000	73200	56000	---	50000	
---	---	---	36000	37600	41500	45775	49225	44350	62500	52850	---	42000	
---	---	---	37858	43187	52674	57775	55117	53900	73967	59620	---	53751	
---	---												



Table 2.1.1

SALARIES of FULL-TIME EMPLOYED CHEMISTS IN PRIVATE INDUSTRY  
according to HIGHEST DEGREE and YEARS SINCE BS  
1986 Survey of ACS Members

HIGHEST DEGREE	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			
Bachelors	25000	27000	34900	41000	46000	50000	52000	55000	55000	60450	40000	44200	- 75th %-ile
	22550	24600	30000	35000	39000	43900	43000	45300	48000	44700	25000	34600	- 50th %-ile
	19650	21850	25900	28700	32050	37000	35000	36425	40000	35000	19800	26600	- 25th %-ile
	22500	24918	30141	36072	40017	43617	44925	47232	48809	47178	28267	36628	- Mean
	4106	6071	6574	9618	9943	11516	13360	15161	14696	17960	10489	13447	- Std Dev
	46	216	335	216	157	109	85	110	149	49	3	1,475	- Count
Masters	---	30000	35800	43000	48000	55000	55000	60125	60000	65850	---	50000	
	---	27100	31200	36000	41000	43000	47200	50000	51200	52550	42850	40000	
	---	25000	28000	32000	35000	35750	38625	40650	44800	43050	---	32000	
	---	27868	31915	37186	42148	45848	47258	51102	53029	55717	42850	42094	
	---	4247	5875	8348	10455	13425	14443	14800	13623	17212	11809	13413	
	0	25	167	207	182	121	84	86	83	36	2	993	
Doctorate	43500	---	42075	49000	56800	65000	67375	74500	78500	72478	57000	61000	
	29000	32750	39600	44000	49150	56100	58000	60000	64000	63500	39400	50000	
	21500	---	37500	40000	43350	48000	49000	49950	52000	51075	27425	42000	
	31333	32750	40076	44850	50536	57323	59027	61388	65033	62476	41713	52979	
	11184	1768	5510	7819	11126	13160	14609	16641	15793	15393	14968	14587	
	3	2	274	441	426	392	284	217	195	80	8	2,322	
No Response	---	---	---	---	---	---	---	---	---	---	50000	50000	
	---	---	---	---	---	---	---	---	---	---	38500	38500	
	---	---	---	---	---	---	---	---	---	---	30075	30075	
	---	---	---	---	---	---	---	---	---	---	41538	41538	
	---	---	---	---	---	---	---	---	---	---	15746	15746	
	0	0	0	0	0	0	0	0	0	0	34	34	
TOTAL	25500	28000	39500	46500	53000	61000	63950	66000	68000	70000	50000	54200	
	22600	25000	34700	40550	45000	52000	53000	52300	53400	55000	38000	43700	
	19850	22000	28150	35000	39000	42975	44000	44000	45800	44400	29000	35000	
	23041	25286	34031	40819	46382	52689	54198	55476	57038	56458	40777	45658	
	5059	5984	7559	9379	11711	14285	15649	17080	16746	17756	15190	15806	
	49	243	776	864	765	622	453	413	427	165	47	4,824	

Table 2.1.2

SALARIES of FULL-TIME EMPLOYED CHEMISTS IN PRIVATE INDUSTRY - MEN Only  
according to HIGHEST DEGREE and YEARS SINCE BS  
1986 Survey of ACS Members

HIGHEST DEGREE	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			
Bachelors	25500	27200	36000	42000	46900	50000	52775	55000	56000	63525	---	46750	- 75th %-ile
	22000	24050	30050	36000	40900	44000	45000	46000	48200	44850	32500	37000	- 50th %-ile
	19750	21000	26350	29600	33450	37000	38250	37700	41300	35375	---	28000	- 25th %-ile
	22376	24971	31045	36654	40726	43633	46507	47911	49896	48790	32500	38583	- Mean
	4358	6741	6754	9321	9859	11340	13040	13890	14555	17996	10607	13655	- Std Dev
	25	134	226	176	141	96	76	97	138	42	2	1,153	- Count
Masters	---	30000	36000	44000	50000	56575	57050	60500	60000	65850	---	51200	
	---	27100	32000	36600	41000	45000	49700	50000	51500	52550	42850	42000	
	---	23000	28100	32200	35700	36275	40700	42000	44900	43050	---	33800	
	---	26700	32318	38048	42825	47054	49227	52268	53248	55717	42850	43857	
	---	3095	5602	8644	10507	13678	14256	14554	13718	17212	11809	13754	
	0	11	115	151	155	104	69	79	81	36	2	803	
Doctorate	---	---	42600	49200	57000	65000	67625	75325	78000	72600	63750	62000	
	36250	32750	39600	44000	49600	57000	58500	60000	64000	64000	54000	50600	
	---	---	37400	40000	43700	49000	49875	50000	52150	51300	31500	43000	
	36250	32750	40182	44988	50907	57959	59294	61755	64983	62758	49750	53754	
	10253	1768	5667	7941	11305	13054	14446	16622	15548	15282	17366	14664	
	2	2	221	389	387	371	274	210	190	79	4	2,129	
No Response	---	---	---	---	---	---	---	---	---	---	50275	50275	
	---	---	---	---	---	---	---	---	---	---	40000	40000	
	---	---	---	---	---	---	---	---	---	---	30075	30075	
	---	---	---	---	---	---	---	---	---	---	43477	43477	
	---	---	---	---	---	---	---	---	---	---	16431	16431	
	0	0	0	0	0	0	0	0	0	0	26	26	
TOTAL	26600	27900	40000	47350	53200	61700	64000	67000	68000	70000	51125	56000	
	22500	24600	36000	41000	46000	53000	54000	53800	54000	56000	40000	45000	
	20000	22000	29500	36000	39800	43700	45000	45000	46000	45000	30075	37000	
	23404	25206	34898	41476	46971	53565	55317	56335	57568	57407	43532	47501	
	5940	6563	7457	9278	11746	14240	15182	16682	16408	17421	15864	15730	
	27	147	562	716	683	571	419	386	409	157	34	4,111	

Table 2.1.3

SALARIES of FULL-TIME EMPLOYED CHEMISTS IN PRIVATE INDUSTRY - WOMEN Only  
 according to HIGHEST DEGREE and YEARS SINCE BS  
 1986 Survey of ACS Members

HIGHEST DEGREE	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			
Bachelors	24550	27000	32500	39075	39000	48750	37350	50300	42000	49250	---	32750	- 75th %-ile
	23200	25000	28000	31200	31100	43000	29000	36200	36000	32550	19800	27500	- 50th %-ile
	19600	22000	25000	25700	28000	34100	25500	28050	29100	21700	---	23950	- 25th %-ile
	22648	24830	28267	33510	33763	43492	31567	42162	35164	35083	19800	29558	- Mean
	3885	4816	5779	10575	8633	13252	7448	22648	8536	15454	---	9854	- Std Dev
	21	82	109	40	16	13	9	13	11	6	1	321	- Count
Masters	---	32125	34675	39875	43000	46000	44125	50000	---	---	---	40000	
	---	27600	30000	34200	40000	38000	37800	33000	43300	---	---	33500	
	---	25500	26100	29700	33000	34000	28500	29300	---	---	---	28825	
	---	28786	31025	34859	38259	38471	36479	37943	43300	---	---	34441	
	---	4885	6406	7051	9407	8945	10273	11378	---	---	---	8281	
	0	14	52	56	27	17	14	7	1	0	0	188	
Doctorate	---	---	42000	48000	51875	49925	60975	66800	87900	---	42000	48500	
	21500	---	39300	43650	46100	46000	49250	49900	80000	40200	36800	42300	
	---	---	37900	40000	41725	39250	41250	38000	39500	---	26900	38775	
	21500	---	39630	43815	47137	45285	51710	50386	66960	40200	35233	44462	
	---	---	4824	6815	8339	9147	17863	14126	25886	---	7671	10352	
	1	0	53	52	38	20	10	7	5	1	3	190	
No Response	---	---	---	---	---	---	---	---	---	---	38925	38925	
	---	---	---	---	---	---	---	---	---	---	34000	34000	
	---	---	---	---	---	---	---	---	---	---	25750	25750	
	---	---	---	---	---	---	---	---	---	---	35238	35238	
	---	---	---	---	---	---	---	---	---	---	12051	12051	
	0	0	0	0	0	0	0	0	0	0	8	8	
TOTAL	24325	28075	37550	44000	48600	48000	47250	54000	46200	47000	39125	41300	
	23100	25500	31100	37000	42000	42500	38500	36600	40000	40200	34000	33500	
	19650	22925	26000	31000	34400	35000	29000	31000	31700	22200	24725	26400	
	22595	25407	31751	37641	41536	42502	39755	43200	44994	35814	33950	34926	
	3799	5001	7364	9244	10271	10519	14653	18290	20748	14239	11089	11399	
	22	96	214	148	81	50	33	27	17	7	12	707	

Table 2.2.1

SALARIES OF FULL-TIME EMPLOYED B.S. CHEMISTS IN PRIVATE INDUSTRY  
according to WORK SPECIALTY and YEARS SINCE BS  
1986 Survey of ACS Members

WORK 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	25875	---	---	42575	---	---	---	---	---	---	---	---	42600	- 75th %ile
	22500	24700	23400	33250	28000	31900	63900	39500	45000	60000	---	---	28000	- 50th %ile
	22125	---	---	22950	---	---	---	---	---	---	---	---	22600	- 25th %ile
	23500	24700	23400	32925	28000	31900	63900	39500	45000	60000	---	---	33316	- Mean
	2345	---	4808	11129	0	---	---	12021	---	---	---	---	13190	- Std Dev
	4	1	2	4	2	1	1	2	1	1	0	0	19	- Count
Biotechnology	---	26650	31500	44750	---	---	---	---	---	---	---	---	44000	
	15000	25000	27600	39000	41500	---	60000	60000	87300	---	19800	---	28000	
	---	23500	24000	28750	---	---	---	---	---	---	---	---	24000	
	15000	25060	27500	37500	41500	---	60000	60000	87300	---	19800	---	34474	
	---	1876	6136	8583	3536	---	---	---	---	---	---	---	16625	
	1	5	7	4	2	0	1	1	1	0	1	1	23	
General chemistry	---	26000	34850	52000	52050	---	54500	52750	48500	---	---	---	48000	
	25000	23400	30000	39800	39550	49500	52100	42800	44000	60000	---	---	34200	
	---	19000	25400	31000	30200	---	32000	30975	40300	---	---	---	26000	
	25000	24469	31538	40718	40938	49500	46200	42017	45480	60000	---	---	37067	
	---	6607	9509	10844	11910	---	12356	14199	9538	---	---	---	12668	
	1	13	13	11	8	1	3	6	10	1	0	0	67	
Analytical chemistry	23425	28500	33350	40000	44000	49000	45000	51000	55500	47350	---	---	39400	
	20650	25000	29000	33000	36000	40000	39000	40000	44000	40000	32300	---	32000	
	19550	21650	25000	27300	30500	36700	34000	31600	36500	28300	---	---	25750	
	21481	25742	29271	34377	37385	41716	39130	42461	46155	39100	32500	---	33619	
	4101	7777	6359	9494	9530	9435	9257	16598	13900	17186	10607	---	11405	
	16	74	141	74	53	37	27	23	33	13	2	2	493	
Inorganic chemistry	---	---	36000	38000	---	66800	47500	70575	55900	---	---	---	50875	
	20800	24900	31000	31000	36000	52000	41400	59500	42200	47000	---	---	36850	
	---	---	26000	25000	---	38000	33400	30750	38750	---	---	---	30250	
	20800	24900	30809	31333	36000	52320	40640	56350	43667	47000	---	---	40509	
	---	2687	6380	6506	---	17220	7309	24341	15123	---	---	---	16146	
	1	2	11	3	1	5	5	6	9	1	0	0	44	
Organic chemistry	28625	25900	30725	45375	45250	50000	48750	51825	56850	81750	---	---	45450	
	22750	24950	29000	35500	41500	45600	42500	45000	48000	55000	---	---	36800	
	17250	22350	27000	28950	36775	42100	39125	40000	43800	23900	---	---	28525	
	22667	24704	28762	36405	43861	47700	42556	46506	48786	53550	---	---	38281	
	5563	3890	6009	9483	11598	10763	7554	8171	14376	30788	---	---	13629	
	6	24	26	20	18	13	16	16	21	4	0	0	164	
Polymer chemistry	27500	29150	36925	43800	45925	52650	61000	57450	55250	66125	---	---	48000	
	24100	24000	32000	36000	41000	47000	47400	49500	50000	51000	---	---	36650	
	23000	21600	26975	32500	29375	38250	29000	42500	38450	44250	---	---	28025	
	24936	25047	32354	38453	39046	45420	47343	51621	50855	52413	---	---	39146	
	3659	4717	6650	9380	9361	8943	19594	12153	17694	13544	---	---	14249	
	11	34	54	30	26	20	7	24	38	8	0	0	252	
Pharmaceutical chemistry	---	26500	32400	31300	49000	46750	46000	54250	50750	---	---	---	40375	
	20750	24000	27500	29000	48000	35300	43000	39900	47000	54600	---	---	29750	
	---	23350	25000	27250	40000	23400	29000	28750	42250	---	---	---	25000	
	20750	25523	28786	30050	43500	35150	39333	41180	46667	54600	---	---	33169	
	3889	4668	6122	4550	10735	12327	9074	13570	4676	---	---	---	10515	
	2	13	21	8	7	4	3	5	6	1	0	0	70	
Medicinal/clinical chemistry	---	29400	---	57500	51250	---	---	---	---	---	---	---	52000	
	---	23500	26200	27000	49000	44000	60000	36200	80000	---	---	---	36200	
	---	22600	---	25500	36400	---	---	---	---	---	---	---	26200	
	---	25167	26200	38600	45550	44000	60000	36200	80000	---	---	---	41753	
	---	3694	---	23477	9012	---	11314	0	---	---	---	---	18217	
	0	3	1	5	4	1	2	2	1	0	0	0	19	
Theoretical chemistry	---	---	---	---	---	---	---	---	---	---	---	---	57000	
	---	---	---	35250	---	---	---	---	57000	---	---	---	43500	
	---	---	---	---	---	---	---	---	---	---	---	---	27000	
	---	---	---	35250	---	---	---	---	57000	---	---	---	42500	
	---	---	---	11667	---	---	---	---	---	---	---	---	15025	
	0	0	0	2	0	0	0	1	0	0	0	0	3	
Environmental chemistry	---	24925	35000	40750	56250	47200	59800	57000	62000	65175	---	---	41000	
	18900	22500	33000	38200	41000	42000	45500	47500	46000	39150	---	---	35000	
	---	17325	27750	31450	36500	36500	35750	35350	34300	22200	---	---	24925	
	18900	21482	32043	37288	45711	41171	47075	45133	47433	43600	---	---	35308	
	141	4660	6343	5937	12029	13752	13002	14673	13906	22086	---	---	13466	
	2	22	21	16	9	7	8	6	3	6	0	0	100	
Agricultural/food chemistry	---	28000	36575	44200	46675	54000	76000	---	53650	82500	---	---	46900	
	---	27000	29850	35000	35400	42000	45000	55000	45500	58950	---	---	39000	
	---	19500	24250	28000	31125	34850	42000	---	40000	40725	---	---	29850	
	---	24833	30133	36114	37733	43940	54333	55000	46560	60725	---	---	41534	
	---	4646	6168	10125	8186	10043	18824	21213	8420	22659	---	---	14967	
	0	3	6	7	6	5	3	2	5	4	0	0	41	
Physical chemistry	---	30000	37975	39000	49950	---	64000	65000	80000	---	---	---	52000	
	24000	26500	31950	38800	44300	57000	57000	39000	60200	56000	---	---	38000	
	---	22100	30250	37850	32500	---	45000	32000	50000	---	---	---	30000	
	24000	26814	33238	38550	41840	57000	55333	46600	63400	56000	---	---	41031	
	---	4916	4398	661	9500	4243	9609	18461	15254	---	---	---	14415	
	1	7	8	4	5	2	3	5	3	1	0	0	39	
Other chemistry	---	28025	27000	41350	48000	45250	---	---	50500	50500	---	---	42250	
	22900	22300	26000	34000	39000	38500	---	44000	43500	37100	---	---	34550	
	---	18150	23400	26350	31500	11500	---	---	42000	35000	---	---	25675	
	22900	23150	24506	35189	39529	30400	---	44000	45914	41033	---	---	34698	
	---	6664	3924	9666	8852	18599	---	10465	9370	7834	---	---	12009	
	1	6	7	9	7	5	0	2	7	6	0	0	50	
Non-chemistry	---	27550	37800	44500	49500	59000	73050	76000	56200	63600	---	---	50000	
	---	26400	33000	36000	41800	47000	52050	44600	52000	53000	---	---	39000	
	---	22500	28000	30000	38500	36400	42250	32000	49000	25000	---	---	30000	
	---	25989	33206	37795	42622	47588	56750	52178	52109	47200	---	---	41821	
	---	6631	6227	9557	6832	11797	24416	22061	12596	19943	---	---	15228	

Table 2.2.2

SALARIES of FULL-TIME EMPLOYED B.S. CHEMISTS IN PRIVATE INDUSTRY  
according to WORK FUNCTION and YEARS SINCE BS  
1986 Survey of ACS Members

WORK FUNCTION	YEARS SINCE BS										No Resp	TOTAL	
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40			
Mgt-R&D	---	---	45000	46500	52075	54000	56125	72000	64000	74375	---	54500	- 75th %ile
	23250	27900	37250	38500	46450	50000	41500	52000	50700	51500	---	47000	- 50th %ile
	---	---	34750	32250	38250	45000	34700	48000	45000	33425	---	37500	- 25th %ile
	23250	27900	38944	41530	45106	49167	44510	60353	56643	51738	---	47946	- Mean
	6010	8627	7359	11660	9753	7731	12043	15658	16246	24426	---	15225	- Std Dev
	2	2	18	20	16	15	10	17	23	8	0	131	- Count
Basic research	28500	26600	32300	36125	44025	47200	52000	---	48000	---	---	36025	
	22700	24300	28300	27800	41200	44000	48400	36500	43000	60000	---	28000	
	20425	22150	26200	25950	35300	38200	43450	---	21900	---	---	24925	
	23438	24425	28896	30811	39670	42960	47950	36500	37633	60000	---	30640	
	5012	3749	3871	6452	5995	4547	4734	---	13853	---	---	8687	
	8	28	28	18	10	5	4	1	3	1	0	106	
Applied research	24000	26875	33425	39000	45200	49000	50175	54900	55000	66475	---	42000	
	22550	24600	29650	34200	37250	41000	43000	46000	48000	49650	29900	32000	
	19925	22575	25850	27000	31150	36750	34450	36500	44675	35375	---	25600	
	22250	25401	29664	33978	38554	41752	42500	45266	48716	49110	29900	34742	
	3549	6833	5902	7649	8567	9152	10040	9823	10951	17144	14284	11523	
	22	84	124	51	54	29	26	35	44	10	2	481	
General Mgt	---	33375	36050	50500	47350	60000	80000	61000	61000	75000	---	50000	
	20700	27750	32500	45000	41000	45600	57000	52000	45000	50000	---	40500	
	---	25000	27700	38000	38000	36375	45000	36200	36000	35000	---	33200	
	20700	28620	31786	43695	43172	46450	62571	53636	49976	51729	---	43695	
	8344	5816	5078	7703	10120	17824	20590	19599	20365	19985	---	16622	
	2	10	22	21	18	14	7	11	21	7	0	133	
Marketing	27500	30425	40000	47050	51750	52000	47400	59325	55000	59250	---	50000	
	27500	24500	29200	40400	47950	50000	42000	45000	50850	43000	---	42000	
	23000	22000	25000	31675	42000	44000	32000	35400	42000	37000	---	31000	
	26000	26721	32400	40142	48919	49733	40145	46486	50482	47625	---	41972	
	2598	5598	8536	10359	9666	10773	8661	15219	13986	12070	---	13446	
	3	14	26	24	16	15	11	14	28	8	0	159	
Prod & QC	24625	27925	32500	39000	41300	45750	44750	41500	50000	43500	---	37325	
	20250	23950	28000	32500	32500	37500	39500	36000	40000	39800	25000	30000	
	18375	19875	24000	27375	26000	34900	34625	30500	30100	28750	---	25000	
	21200	24148	28435	32918	34600	39336	40583	39129	40367	36860	25000	31740	
	4353	5817	6084	7979	9476	10266	9954	15042	9980	8000	---	9927	
	8	46	79	50	31	22	12	17	15	5	1	286	
Forensic	---	24825	36350	45000	44000	50000	48000	48000	48500	29100	---	41000	
	22500	23000	27500	32000	30550	43000	42000	40000	43000	22200	---	29000	
	---	16975	21025	28000	27875	26400	25000	25500	36750	22200	---	22700	
	22500	21417	28879	33455	34933	39800	38333	37400	42700	24500	---	31267	
	---	4005	8602	8509	10273	12121	11930	12239	6399	3984	---	10290	
	1	12	14	11	6	3	3	5	5	3	0	63	
Writing	---	22450	37000	---	---	---	---	---	---	---	---	40000	
	---	18000	32100	25600	---	43000	37850	---	43000	---	---	25600	
	---	15900	25000	---	---	---	---	---	---	---	---	18250	
	---	18940	31367	25600	---	43000	37850	---	43000	---	---	28931	
	---	4383	6034	---	---	---	22981	---	---	---	---	12113	
	0	5	3	1	0	1	2	0	1	0	0	13	
Chemistry information	---	---	32500	---	---	---	---	52500	45600	---	---	51000	
	---	28000	31900	---	49000	---	40000	50000	31850	52000	---	36600	
	---	---	28000	---	---	---	---	36600	29100	---	---	30400	
	---	28000	30800	---	49000	---	40000	46367	37717	52000	---	39753	
	---	---	2443	---	8485	---	---	8550	14038	---	---	11378	
	0	1	3	0	2	0	1	3	6	1	0	17	
Computer	---	27575	---	37200	---	---	---	---	---	---	---	36300	
	---	25500	26000	36000	41800	17000	---	---	---	---	---	29050	
	---	17500	---	30000	---	---	---	---	---	---	---	25750	
	---	23525	26000	34743	41800	17000	---	---	---	---	---	30150	
	---	5828	---	5721	---	---	---	---	---	---	---	8537	
	0	4	1	7	1	1	0	0	0	0	0	14	
Consulting	---	27500	38000	72000	---	---	---	---	---	---	---	47250	
	---	21000	32400	43000	33000	---	---	---	59500	20000	---	34750	
	---	20000	31000	36875	---	---	---	---	---	---	---	25875	
	---	22833	33800	50625	33000	---	---	---	59500	20000	---	38886	
	---	4072	3704	20238	---	---	---	---	17678	---	---	18070	
	0	3	3	4	1	0	0	0	2	1	0	14	
Other	---	35950	35000	37800	---	46750	66200	60000	---	72450	---	44375	
	---	26050	26750	35700	33750	36000	58000	44000	43000	45000	---	35700	
	---	22625	24825	29925	---	29750	34600	40000	---	41950	---	28100	
	---	28367	28750	34650	33750	37500	53267	45229	43000	54760	---	38932	
	---	7611	6207	5579	3182	9183	16487	15100	---	18152	---	14683	
	0	6	14	8	2	4	9	7	1	5	0	56	
No Response	---	---	---	---	---	---	---	---	---	---	---	---	
	---	25200	---	30000	---	---	---	---	---	---	---	27600	
	---	---	---	---	---	---	---	---	---	---	---	---	
	---	25200	---	30000	---	---	---	---	---	---	---	27600	
	0	1	0	1	0	0	0	0	0	0	0	3394	
												2	
TOTAL	25000	27000	34900	41000	46000	50000	52000	55000	55000	60450	40000	44200	
	22550	24600	30000	35000	39000	43900	43000	45300	48000	44700	25000	34600	
	19650	21850	25900	28700	32050	37000	35000	36425	40000	35000	19800	26600	
	22500	24918	30141	36072	40017	43617	44925	47232	48809	47178	28267	36628	
	4106	6071	6574	9618	9943	11516	13360	15161	14696	17960	10489	13447	
	46	216	335	216	157	109	85	110	149	49	3	1,475	

Table 2.2.3

SALARIES of FULL-TIME EMPLOYED B.S. CHEMISTS IN PRIVATE INDUSTRY  
according to NUMBER OF PROFESSIONAL AND TECHNICAL SUBORDINATES and YEARS SINCE BS  
1986 Survey of ACS Members

PROF. & TECH. SUBORDINATES	YEARS SINCE BS										No Resp	TOTAL	
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40			
0	24000	26000	32575	38000	40950	49500	49975	52075	51675	57000	---	38000	- 75th %-ile
	22500	24000	28000	31200	36000	39500	40500	41900	44000	40000	25000	29500	- 50th %-ile
	19425	21000	24775	27000	29500	36000	30475	34700	33250	30000	---	24300	- 25th %-ile
	22062	23524	28825	32713	35016	42003	41047	43464	42895	43647	25000	31938	- Mean
	4045	4262	6169	7579	6649	12779	11610	12711	11425	14269	---	10819	- Std Dev
	34	121	164	92	37	32	32	36	44	15	1	608	- Count
1-2	26550	29300	33600	36375	44650	48000	52950	41500	56500	61000	---	42000	
	24000	25100	30000	32000	38000	41450	43000	36250	49500	40000	29900	34000	
	22450	22000	26500	25250	31750	35050	34650	31000	41850	35250	---	27000	
	24400	26298	30229	32563	39249	39529	44343	37150	51238	48033	29900	35837	
	2712	8469	5575	7200	10214	11352	13241	9552	13460	17170	14284	12475	
	5	56	91	32	45	28	21	20	42	9	2	351	
3-7	28000	28500	37000	43500	49000	52000	52325	55875	53000	57300	---	48000	
	26000	26000	32300	39000	42000	46000	44150	47000	44300	44000	---	39000	
	19750	23000	26200	32000	33100	37000	40000	36950	36750	26050	---	30000	
	24300	26226	32295	39351	41530	46194	48400	47028	44075	42969	---	39552	
	4251	5195	7964	9899	10814	9779	14744	11328	11811	16052	---	12214	
	5	27	63	59	43	35	18	32	32	13	0	327	
8-12	---	39275	38300	53450	49225	59000	---	56000	72000	60000	---	52625	
	14800	30050	35100	45000	45950	48500	48000	52000	60000	45000	---	45000	
	---	26375	29000	37100	39500	41500	---	49000	45000	33000	---	37800	
	14800	32083	34938	46508	45040	48278	48000	56173	59053	46200	---	46639	
	---	6317	7091	11389	8130	10952	---	12798	18293	18089	---	14540	
	1	6	13	13	20	9	1	11	15	5	0	94	
13-17	---	34300	32800	46900	59625	---	61000	82500	50000	---	---	52000	
	---	28550	32000	35000	42500	48500	47400	72000	49000	73000	---	44000	
	---	22725	32000	29000	37250	---	32000	45500	42000	---	---	32000	
	---	28525	32267	38414	45917	48500	46800	65600	47000	73000	---	45191	
	---	6147	462	9469	11386	4950	14509	19604	4761	---	---	15517	
	0	4	3	7	6	2	3	5	4	1	0	35	
18-22	---	---	---	48125	---	---	57000	---	97778	---	---	60500	
	---	---	33500	39450	26000	59000	43000	64000	60000	70800	---	44000	
	---	---	34000	---	---	---	35000	---	44000	---	---	36000	
	---	---	33500	41233	26000	59000	45000	64000	67259	70800	---	50909	
	---	---	---	10952	---	1414	11136	---	27614	10182	---	18203	
	0	0	1	6	1	2	3	1	3	2	0	19	
23-32	---	---	---	51400	51150	---	58150	---	64000	---	---	55000	
	---	24200	---	36500	50000	37000	45000	48000	56000	67500	---	49000	
	---	---	---	29500	49000	---	37000	---	48400	---	---	37000	
	---	24200	---	39660	50050	37000	47060	48000	58443	67500	---	48567	
	---	5940	---	11816	1215	---	12252	---	13358	24749	---	15216	
	0	2	0	5	4	1	5	1	7	2	0	27	
33-47	---	---	---	---	---	---	---	---	---	---	---	77500	
	26600	---	---	---	32500	---	80000	---	50700	75000	---	50700	
	---	---	---	---	---	---	---	---	---	---	---	29550	
	26600	---	---	---	32500	---	80000	---	50700	75000	---	52960	
	---	---	---	---	---	---	---	---	---	---	---	24163	
	1	0	0	0	1	0	1	0	1	1	0	5	
48-67	---	---	---	---	---	---	---	---	---	---	---	64000	
	---	---	---	49500	---	---	64000	---	---	---	---	52000	
	---	---	---	---	---	---	---	---	---	---	---	47000	
	---	---	---	49500	---	---	64000	---	---	---	---	54333	
	---	---	---	3536	---	---	---	---	---	---	---	8737	
	0	0	0	2	0	0	1	0	0	0	0	3	
68-99	---	---	---	---	---	---	---	---	---	---	---	87300	
	---	---	---	---	---	---	---	72500	87300	---	---	80000	
	---	---	---	---	---	---	---	---	---	---	---	65000	
	---	---	---	---	---	---	---	72500	87300	---	---	77433	
	---	---	---	---	---	---	---	10607	---	---	---	11369	
	0	0	0	0	0	0	0	2	1	0	0	3	
>=100	---	---	---	---	---	---	---	---	---	---	---	96000	
	---	---	---	---	---	---	---	90000	---	10500	---	84000	
	---	---	---	---	---	---	---	---	---	---	---	10500	
	---	---	---	---	---	---	---	90000	---	10500	---	63500	
	---	---	---	---	---	---	---	8485	---	---	---	46290	
	0	0	0	0	0	0	0	2	0	1	0	3	
TOTAL	25000	27000	34900	41000	46000	50000	52000	55000	55000	60450	40000	44200	
	22550	24600	30000	35000	39000	43900	43000	45300	48000	44700	25000	34600	
	19650	21850	25900	28700	32050	37000	35000	36425	40000	35000	19800	26600	
	22500	24918	30141	36072	40017	43617	44925	47232	48809	47178	28267	36628	
	4106	6071	6574	9618	9943	11516	13360	15161	14696	17960	10489	13447	
	46	216	335	216	157	109	85	110	149	49	3	1,475	

Table 2.2.4

SALARIES of FULL-TIME EMPLOYED B.S. CHEMISTS IN PRIVATE INDUSTRY  
according to TOTAL NUMBER OF SUBORDINATES and YEARS SINCE BS  
1986 Survey of ACS Members

TOTAL SUBORDINATES	YEARS SINCE BS										No Resp	TOTAL	
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40			
0	23875	26000	32675	38500	40800	50000	46975	52025	51625	60875	---	37450	- 75th %-file
	22500	24000	28300	32000	34750	40000	39750	41900	44000	39100	25000	29200	- 50th %-file
	20075	21000	24775	27000	29000	36000	29150	35700	33750	28700	---	24450	- 25th %-file
	22346	23554	28963	33076	34319	42132	39077	42785	42379	42020	25000	31689	- Mean
	3931	4354	6196	7438	6744	12969	10272	11178	10603	16441	---	10318	- Std Dev
	28	112	156	85	32	31	26	34	38	10	1	553	- Count
1-2	27500	27500	35000	36750	44825	48000	60400	47500	57500	53750	---	43000	
	24000	23900	30000	32000	38250	42900	48000	37000	50000	39900	29900	34600	
	22000	20850	26500	25700	32425	35200	34700	31000	43125	35375	---	26850	
	24143	24289	30292	32728	39991	39744	48516	41800	51693	43980	29900	36188	
	3229	4742	5717	6623	9685	11521	14502	14191	13313	10626	14284	12901	
	7	53	79	25	44	27	19	15	40	10	2	321	
3-7	28250	30000	36000	42000	47800	51250	50500	51850	53000	58950	---	47000	
	26750	25500	30000	36000	39900	46600	43000	45850	46000	47000	---	37000	
	20600	23850	25900	31000	32425	38500	36500	35250	39000	26050	---	29750	
	25200	27909	31134	37839	39545	45223	44010	45157	46220	46154	---	38535	
	4389	9821	7697	10512	9664	6949	8383	12161	11221	19151	---	11949	
	4	33	62	59	40	30	20	28	35	13	0	324	
8-12	22500	33000	38300	50550	50225	56750	86250	56750	62000	44000	---	50000	
	19000	27700	35000	42000	45000	46750	44700	51500	48000	38500	---	41300	
	14700	25975	29500	33500	39000	36450	40350	46750	41200	27750	---	31650	
	18680	29417	34606	41886	44600	46388	57100	51450	49754	36750	---	42159	
	4286	5050	6630	12237	8571	11500	28150	12391	15971	8655	---	14186	
	5	6	17	14	18	8	4	12	13	4	0	101	
13-17	---	37500	40000	44000	58375	52000	57600	45500	74000	73000	---	48700	
	---	29200	32000	34000	42500	45000	41200	42000	50000	54600	---	40000	
	---	24450	31000	28250	33500	34700	32750	36200	41000	45000	---	32000	
	---	30620	33514	35875	44375	43900	43850	41400	56000	57533	---	41588	
	---	7435	10038	9478	12780	8702	13235	4629	23917	14229	---	13915	
	0	5	7	8	8	3	4	6	5	3	0	49	
18-22	---	---	39500	44000	---	---	53500	84000	---	---	---	58000	
	---	31000	37000	37000	38500	58000	39000	69500	52000	78000	---	40000	
	---	---	34125	36000	---	---	34625	46000	---	---	---	36000	
	---	31000	36875	40486	38500	58000	42375	66500	52000	78000	---	46126	
	---	7071	2780	10192	17678	---	10499	20008	11314	---	---	16113	
	0	2	4	7	2	1	4	4	2	1	0	27	
23-32	---	28400	---	47125	51050	38000	61300	---	67000	82500	---	51200	
	---	27000	31250	34500	49500	37000	48000	48000	50000	67500	---	47800	
	---	20000	---	29300	44125	36000	45000	---	46000	52500	---	34000	
	---	25133	31250	37160	46617	37000	51433	48000	54898	67500	---	45962	
	---	4500	2475	9691	8438	1000	8675	---	23413	15546	---	17720	
	0	3	2	10	6	3	3	1	11	4	0	43	
33-47	---	---	28000	54875	61000	80000	---	---	---	---	---	56500	
	26600	39900	25900	48450	41000	59000	37000	57600	57350	35000	---	45000	
	---	---	25000	45850	35750	44000	---	---	---	---	---	32500	
	26600	39900	26300	49725	46900	61000	37000	57600	57350	35000	---	45352	
	---	---	1539	4892	16539	18083	11314	---	9405	---	---	15104	
	1	1	3	4	5	3	2	1	2	1	0	23	
48-67	---	---	---	52000	---	---	---	---	---	---	---	58000	
	19500	29000	30000	47000	---	37000	64000	90000	---	---	---	41000	
	---	---	---	41000	---	---	---	---	---	---	---	29500	
	19500	29000	30000	46667	---	37000	64000	90000	---	---	---	45500	
	---	---	---	5508	---	---	---	---	---	---	---	21354	
	1	1	1	3	0	1	1	1	0	0	0	9	
68-99	---	---	33800	---	---	---	---	---	---	---	---	67500	
	---	---	27000	---	48000	---	---	53500	73650	69300	---	54000	
	---	---	24900	---	---	---	---	---	---	---	---	32100	
	---	---	28567	---	48000	---	---	53500	73650	69300	---	52660	
	---	---	4652	---	---	---	---	16263	19304	8061	---	20936	
	0	0	3	0	1	0	0	2	2	2	0	10	
>=100	---	---	---	---	---	---	---	87000	---	---	---	80000	
	---	---	28000	62000	46000	63250	67500	76000	80000	10500	---	62000	
	---	---	---	---	---	---	---	46750	---	---	---	46000	
	---	---	28000	62000	46000	63250	67500	69167	80000	10500	---	60200	
	---	---	---	---	---	4596	17678	23735	---	---	---	23697	
	0	0	1	1	1	2	2	6	1	1	0	15	
TOTAL	25000	27000	34900	41000	46000	50000	52000	55000	55000	60450	40000	44200	
	22500	24600	30000	35000	39000	43900	43000	45300	48000	44700	25000	34600	
	19650	21850	25900	28700	32050	37000	35000	36425	40000	35000	19800	26600	
	22500	24918	30141	36072	40017	43617	44925	47232	48809	47178	28267	36628	
	4106	6071	6574	9618	9943	11516	13360	15161	14696	17960	10489	13447	
	46	216	335	216	157	109	85	110	149	49	3	1,475	

Table 2.2.5

SALARIES OF FULL-TIME EMPLOYED B.S. CHEMISTS IN PRIVATE INDUSTRY according to TYPE OF INDUSTRY and YEARS SINCE BS  
1986 Survey of ACS Members

TYPE OF INDUSTRY	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			
Agricultural chemicals	29000	25600	36750	42650	48000	51800	60500	---	50000	58425	---	45000	- 75th %ile
	28500	25000	30000	36500	43000	50000	44300	73000	44000	41450	---	36500	- 50th %ile
	24000	22000	27500	31400	36200	38500	40500	---	32000	30625	---	29500	- 25th %ile
	27167	24000	31959	37000	41720	46120	49260	73000	43218	43500	---	38484	- Mean
	2754	2001	6677	7759	6607	7421	15131	32527	11515	14974	---	12759	- Std Dev
	3	7	17	13	10	5	5	2	11	4	0	77	- Count
Coatings	28875	27450	35425	39700	43350	45875	58000	56000	53925	45000	---	44100	
	22550	24000	31000	36000	37000	39000	45200	47000	45500	35000	---	35000	
	20500	22000	28675	32000	27600	35000	38750	44500	34750	29900	---	27300	
	24267	24695	32191	35707	35633	39740	47233	49869	43375	36633	---	36058	
	5212	3304	4817	6947	8107	10965	10048	10486	14213	7681	---	11694	
	6	21	22	15	6	10	6	13	16	3	0	118	
Food	19925	27600	32500	36100	43000	---	45000	70000	---	85000	---	40000	
	19250	24000	26800	32000	31200	48350	44000	52000	55450	75000	---	29600	
	18200	22900	22000	25500	28500	---	40000	40000	---	75000	---	24000	
	19125	24200	27907	31169	34529	48350	43000	54000	55450	78333	---	33997	
	907	3981	7454	6474	9038	19304	2646	15100	14071	5774	---	15195	
	4	11	15	13	7	2	3	3	2	3	0	63	
Metals	25000	28000	28750	37675	49000	---	60000	45000	53500	---	---	44500	
	20800	26400	26800	31500	39800	26750	45000	30000	45000	42750	25000	34900	
	14800	22000	23250	26500	27250	---	41400	24700	38125	---	---	25250	
	20200	25467	26189	32750	38460	26750	48800	33233	46019	42750	25000	35572	
	5126	3107	3212	8101	11219	13789	9865	10529	12385	6010	---	12297	
	3	3	9	14	5	2	3	3	16	2	1	61	
Paper	---	38525	33050	---	---	43750	52000	50400	---	---	---	42000	
	---	30050	31050	40000	36000	41000	38000	42000	---	78000	---	33800	
	---	25250	26750	---	---	36750	31900	33000	---	---	---	30000	
	---	31275	29780	40000	36000	40500	40633	41800	---	78000	---	36526	
	---	7135	7113	---	---	3697	10306	8702	---	---	---	11616	
	0	4	10	1	1	4	3	3	0	1	0	27	
Petroleum	---	31050	36000	46000	59900	48900	64400	57000	95000	70500	---	51750	
	21000	25600	32000	42000	55200	41800	43000	52100	61100	43750	19800	39000	
	---	24500	28000	34000	46500	35750	29200	40000	44000	25125	---	29400	
	21000	26933	33493	41000	54350	42150	43586	49220	67097	46333	19800	42457	
	---	5013	7447	6595	8663	6877	15765	8766	26329	26480	---	17415	
	1	9	15	9	8	4	7	5	7	6	1	72	
Pharmaceuticals	23500	27000	32500	38500	46500	50000	51200	54250	52250	58650	---	40000	
	23050	24000	29250	31700	39500	37900	43900	39900	47500	53800	---	32000	
	19125	22550	25000	27625	35750	34000	35500	35600	42250	50750	---	25000	
	21950	25818	28932	34720	39981	41247	43869	45318	46400	54400	---	34504	
	3722	8629	5341	10348	8402	10701	12077	15353	9586	4192	---	11863	
	8	45	66	40	26	19	16	17	14	4	0	255	
Rubber	---	24300	---	31500	46250	58000	43000	62775	53500	---	---	53250	
	---	18500	25550	26000	42000	52500	29000	59800	45000	55500	---	42000	
	---	16000	---	24300	37150	38900	21100	43250	41500	---	---	31000	
	---	19600	25560	27520	42133	48800	31033	52963	47538	55500	---	42289	
	---	4258	6435	3722	3861	10406	11091	11195	9898	16263	---	13756	
	0	3	2	5	6	4	3	8	13	2	0	46	
Soaps	---	28750	30700	56500	40575	56000	---	---	47500	73000	---	48800	
	20000	26000	28000	43600	31000	50000	48000	---	42500	60000	---	35500	
	---	19100	25000	36750	25250	49625	---	---	35250	35000	---	26125	
	20000	24633	29371	44450	32275	51875	48000	---	41333	56000	---	37534	
	---	4670	6997	11865	8220	4090	22627	---	7285	19313	---	13764	
	1	9	7	8	4	4	2	0	6	3	0	44	
Biochemical products	28125	25150	29550	45125	49000	---	---	60000	---	---	---	42125	
	22250	23850	24500	42550	43400	31900	---	39000	80000	---	---	28000	
	16750	22625	20000	32250	30750	---	---	31000	---	---	---	23775	
	22375	23850	25411	39433	41225	31900	---	43333	80000	---	---	32933	
	6129	2411	6068	7367	9781	---	---	14978	---	---	---	13202	
	4	8	9	6	8	1	0	3	1	0	0	40	
Electronics	26625	34000	38500	41000	45000	52000	61175	68750	49100	---	---	43650	
	22150	28200	32500	33000	36000	48000	50450	36000	37150	---	---	34100	
	19700	23750	26600	25575	30000	46000	35000	32600	31475	---	---	26600	
	22825	28420	33348	34783	36857	48800	50633	47740	39533	---	---	36313	
	3682	6471	7688	10074	9582	3347	16986	24430	12569	---	---	12506	
	4	10	23	18	7	5	6	5	6	0	0	84	
Other chemicals	---	26000	35000	46900	42750	52250	53000	56000	60000	60250	---	46900	
	18600	21900	30000	38000	38500	44500	48000	44000	50000	36000	---	37000	
	---	20000	26500	32000	32275	38500	35200	37300	42100	24650	---	28200	
	18600	22600	30179	39400	40850	45318	45718	46957	51500	41160	---	38881	
	5657	3786	7240	9102	12120	13495	10332	16223	16496	18448	---	14654	
	2	22	39	23	24	22	11	23	21	5	0	192	
Other products	25750	31225	36000	42625	45000	52250	48000	54175	56050	48750	---	45000	
	23500	26700	31500	34000	38500	42000	39000	43350	51550	41000	---	36000	
	22600	24250	26000	27375	29650	37750	31200	36275	44175	38600	---	28100	
	23763	26754	31088	36424	38041	45171	39580	47370	52003	43050	---	38049	
	2516	6001	6265	11528	9003	12021	10586	13576	13685	9456	---	12710	
	8	24	57	34	34	21	15	20	30	12	0	255	
Non-mfg	---	26175	34500	42250	51200	49250	76750	55500	63000	56475	---	38250	
	23050	22900	28000	35800	38500	40750	54100	30000	50000	22200	40000	28500	
	---	18125	24625	29500	32200	25250	43750	18400	41450	20550	---	22750	
	23050	23223	29098	36053	42164	38917	59020	35560	51967	33075	40000	32074	
	5020	5852	6744	8988	11358	15403	23160	19081	12915	23240	---	13264	
	2	40	44	17	11	6	5	5	6	4	1	141	
TOTAL	25000	27000	34900	41000	46000	50000	52000	55000	55000	60450	40000	44200	
22550	24600	30000	35000	39000	43900	43000	45300	48000	44700	25000	34600		
19650	21850	25900	29700	32050	37000	35000	36425	40000	35000	19800	26600		
22500	24918	30141	36072	40017	43617	44925	47232	46809	47178	28267	36628		
4106	6071	6574	9618	9943	11516	13360	15161	14696	17960	10489	13447		
46	216	335	216	157	109	85	110	149	49	3	1,475		



Table 2.2.6

SALARIES of FULL-TIME EMPLOYED B.S. CHEMISTS IN PRIVATE INDUSTRY  
according to GEOGRAPHIC REGION and YEARS SINCE BS  
1986 Survey of ACS Members

GEOGRAPHIC 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	27750	28825	37450	44375	50750	58250	53450	54500	55600	56750	---	45000	- 75th %-ile
	18000	25650	33000	33500	42700	43500	48000	44600	43500	44000	40000	36000	- 50th %-ile
	14850	23300	27725	26425	33725	35150	36000	35100	36000	29000	---	28750	- 25th %-ile
	20200	25867	32917	36206	43712	43820	46011	44111	45162	43250	40000	37474	- Mean
	7139	6130	7670	11550	11403	13826	11116	10547	10637	14523	---	12100	- Std Dev
	4	18	36	36	26	10	9	9	13	4	1	166	- Count
Mountain	---	32000	36000	44700	---	50000	58750	---	---	---	---	43000	
	---	26700	32100	39000	38500	48000	49000	30400	65500	---	---	33550	
	---	25250	25000	32500	---	26400	32500	---	---	---	---	26550	
	---	27938	30643	37867	38500	41467	46750	30400	65500	---	---	36681	
	---	3868	5604	7879	---	13086	13817	17819	13435	---	---	12306	
	0	8	7	9	1	3	4	2	2	0	0	36	
W.N. Central	25000	28200	34650	40000	46075	49000	54900	65000	64750	---	---	40000	
	22500	23300	31000	36200	38000	40000	48000	51000	42500	40000	---	32250	
	20150	20000	24250	30200	28450	33000	21600	45700	29100	---	---	25850	
	22560	23344	30043	35388	37940	40800	41500	53900	47650	40000	---	34710	
	3003	4695	6124	9483	9191	8786	17576	9971	21100	---	---	12507	
	5	9	21	17	10	5	3	3	8	1	0	82	
W.S. Central	---	25900	38000	44500	51000	53600	65000	59775	62825	55500	---	48450	
	25250	24150	32400	40600	40950	44000	54500	51550	48700	22200	25000	38000	
	---	21250	26500	30000	33750	42000	43000	43300	38600	16350	---	26500	
	25250	23888	32664	39005	41913	46257	58629	51433	52719	33180	25000	39477	
	4596	4143	8153	10001	9899	6857	20903	8389	19179	22206	---	15375	
	2	16	25	21	16	7	7	6	16	5	1	122	
E.N. Central	23800	26400	33875	38600	45000	50500	51000	52000	52000	67450	---	43850	
	20900	24000	29200	34000	41150	43200	41000	45600	48000	56000	---	33000	
	18250	22000	26100	28000	31625	37450	34500	33000	40000	40550	---	26225	
	21313	24509	29810	34612	39158	43686	43113	44971	45836	54023	---	35706	
	4555	4233	6280	8345	8668	12425	12274	14582	12003	15593	---	12695	
	16	57	72	51	40	29	23	31	28	13	0	360	
E.S. Central	27500	29500	32500	46250	38000	51150	43000	---	41200	---	---	38000	
	26000	28400	28000	30750	35700	41050	40000	36500	39000	44700	---	32000	
	18800	23600	25150	27550	30000	22625	35200	---	30500	---	---	27000	
	24100	26920	28538	38363	34429	38275	39400	36500	36480	44700	---	33278	
	4651	3665	5586	18553	7136	15107	3934	4950	7215	---	---	10500	
	3	5	13	8	7	4	3	2	5	1	0	51	
Mid-Atlantic	24000	27500	32625	40750	49000	51000	52000	58500	55925	51500	---	45000	
	23500	25000	29150	34100	39000	44000	43000	45000	49200	39900	19800	34300	
	20000	21200	26150	28475	33100	36750	35600	36200	40350	35000	---	27000	
	23091	24908	29913	35692	40923	43684	44153	49114	51718	43513	19800	37190	
	2691	5187	5968	9013	10166	14179	12518	18270	16280	15363	---	14395	
	11	51	86	48	31	25	19	29	44	16	1	361	
So. Atlantic	---	28000	32450	39000	46200	50000	51325	59750	58000	76500	---	45000	
	26550	22000	27650	35200	40400	44500	45000	46000	48000	63600	---	34600	
	---	17000	23100	29750	29500	37000	33400	36775	41000	28000	---	26000	
	26550	22874	27761	35489	39489	44500	45270	47744	49080	54520	---	36453	
	3465	5761	5553	7085	11184	7668	14848	14888	14287	25435	---	13993	
	2	23	44	18	18	16	10	16	15	5	0	167	
New England	---	27500	36750	39625	37850	51600	44300	64000	53050	---	---	42000	
	23800	23000	31000	35850	34050	40000	39000	45000	46000	38000	---	34700	
	---	21000	25350	33375	22000	34700	34000	40000	42000	---	---	25000	
	23800	24752	30676	35750	31317	42600	40171	50645	46871	38000	---	35280	
	1697	5853	7527	4089	7521	8934	7426	16258	8644	4243	---	12283	
	2	25	25	6	6	7	7	11	14	2	0	105	
No Response	---	63750	33200	---	---	55500	---	---	53000	---	---	53000	
	22900	27750	30500	44000	41500	50000	---	55000	48500	70500	---	41000	
	---	24000	24650	---	---	36000	---	---	45425	---	---	29000	
	22900	38500	28667	44000	41500	47167	---	55000	48975	70500	---	42132	
	---	24485	6366	11314	707	10054	---	---	3950	19092	---	16202	
	1	4	6	2	2	3	0	1	4	2	0	25	
TOTAL	25000	27000	34900	41000	46000	50000	52000	55000	55000	60450	40000	44200	
	22550	24600	30000	35000	39000	43900	43000	45300	48000	44700	25000	34600	
	19650	21850	25900	28700	32050	37000	35000	36425	40000	35000	19800	26600	
	22500	24918	30141	36072	40017	43617	44925	47232	48809	47178	28267	36628	
	4106	6071	6574	9618	9943	11516	13360	15161	14696	17960	10489	13447	
	46	216	335	216	157	109	85	110	149	49	3	1,475	

Table 2.3.1

SALARIES of FULL-TIME EMPLOYED M.S. CHEMISTS IN PRIVATE INDUSTRY  
according to WORK SPECIALTY and YEARS SINCE BS  
1986 Survey of ACS Members

WORK 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	---	---	30850	36250	34800	69500	---	---	---	---	---	---	43650	- 75th %ile
	---	27000	29000	34600	33000	63000	46300	43200	---	61400	---	---	34700	- 50th %ile
	---	---	25950	33900	33000	36000	---	---	---	---	---	---	31725	- 25th %ile
	---	27000	28520	35489	33600	56167	46300	43200	---	61400	---	---	39112	- Mean
	---	---	2727	3972	1039	17765	13576	---	---	7637	---	---	12546	- Std Dev
	0	1	5	9	3	3	2	1	0	2	0	---	26	- Count
Biotechnology	---	---	37350	38500	63000	---	---	---	---	---	---	---	48500	
	---	---	30000	36300	56900	46000	80000	---	52900	---	---	---	36800	
	---	---	28300	33500	50000	---	---	---	---	---	---	---	33500	
	---	---	32260	35375	56633	46000	80000	---	52900	---	---	---	40858	
	---	---	5060	4786	6504	15556	---	---	---	---	---	---	13002	
	0	0	5	12	3	2	1	0	1	0	0	---	24	
General chemistry	---	---	39333	39150	50500	57275	---	72500	59000	---	---	---	50000	
	---	---	31050	36000	38750	48000	47667	42750	47500	66000	---	---	40800	
	---	---	27075	29400	30250	37750	---	31250	41550	---	---	---	33000	
	---	---	32381	34620	39833	47675	47667	50750	49720	66000	---	---	43284	
	---	---	6451	5675	10633	10134	---	25624	10941	22627	---	---	15704	
	0	0	8	5	4	4	1	6	5	2	0	---	35	
Analytical chemistry	---	27700	33750	41550	44800	50000	52000	57500	60000	56600	---	---	49590	
	---	26400	29600	34000	40000	42000	40400	44800	51900	41200	34500	---	38000	
	---	22900	26550	29575	32850	35000	36000	40650	41900	31050	---	---	30000	
	---	25456	31019	35474	40027	42563	41937	49114	51057	44191	34500	---	39328	
	---	2839	5634	9404	9271	11321	12880	14311	12373	18749	---	---	12116	
	0	9	48	50	60	35	27	21	21	9	1	---	281	
Inorganic chemistry	---	---	---	45500	56800	---	---	84000	61250	---	---	---	65825	
	---	---	---	45000	46400	73500	---	69000	52000	65000	---	---	54000	
	---	---	---	35000	39500	---	---	61000	49800	---	---	---	45725	
	---	---	---	41833	47800	73500	---	71333	54820	65000	---	---	56480	
	---	---	---	5923	9736	14849	---	11676	7054	7071	---	---	13788	
	0	0	0	3	5	2	0	3	5	2	0	---	20	
Organic chemistry	---	38125	32050	38475	48000	46000	48000	62500	70150	60900	---	---	48375	
	---	29700	30000	34800	40000	39000	46000	55000	55350	55000	---	---	38800	
	---	23150	28200	31750	36000	33000	41200	43750	51250	52000	---	---	32000	
	---	30325	30390	35380	42732	39867	44482	54692	59908	59014	---	---	42145	
	---	7768	2829	6086	8762	8933	12026	16138	14577	15798	---	---	13849	
	0	4	21	30	19	15	11	13	12	7	0	---	132	
Polymer chemistry	---	---	38825	45100	50000	67250	55000	58950	70750	52000	---	---	52225	
	---	32200	35000	39800	43950	50750	50000	52300	61000	43000	---	---	42650	
	---	---	30000	33500	37500	36500	42500	43500	49375	43000	---	---	35000	
	---	32200	34265	39896	43800	52265	49912	50524	61050	46000	---	---	44629	
	---	4667	6029	9637	8892	17430	10339	8906	16827	5196	---	---	13036	
	0	2	34	23	30	20	17	17	10	3	0	---	156	
Pharmaceutical chemistry	---	---	34950	43252	44600	61400	---	56200	---	---	---	---	44600	
	---	27500	32500	37000	37600	42500	25000	45400	50700	41000	---	---	37600	
	---	---	27650	35850	35500	32000	---	39250	---	---	---	---	32500	
	---	27500	31433	38668	40691	45129	25000	46950	50700	41000	---	---	39460	
	---	1131	4311	4788	7931	13330	9899	9100	1838	---	---	---	9900	
	0	2	6	8	11	7	2	4	2	1	0	---	43	
Medicinal/clinical chemistry	---	---	34275	38500	53250	49300	---	54000	---	---	---	---	50000	
	---	26000	28000	31200	41750	41200	50000	53000	---	---	---	---	36750	
	---	---	22250	25425	33000	32000	---	50000	---	---	---	---	28600	
	---	26000	28175	32350	43417	40760	50000	52333	---	---	---	---	38619	
	---	---	6602	8058	11868	10481	---	2082	---	---	---	---	11478	
	0	1	4	6	6	5	1	3	0	0	0	---	26	
Theoretical chemistry	---	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	---	---	---	---	---	---	---	
	0	0	0	0	0	0	0	0	0	0	0	---	0	
Environmental chemistry	---	30000	35700	47350	44450	58500	56500	---	51800	---	---	---	48800	
	---	27900	31000	37250	41000	56550	52000	44200	48100	50000	---	---	38000	
	---	24000	25000	29525	32050	40500	38500	---	44250	---	---	---	30000	
	---	27300	30625	38410	39058	50517	48400	44200	48050	50000	---	---	39415	
	---	3045	5477	8866	7997	12668	9813	10182	4132	---	---	---	10366	
	0	3	12	20	12	6	5	2	4	1	0	---	65	
Agricultural/food chemistry	---	---	33800	45125	50225	56700	---	---	50300	---	---	---	47000	
	---	---	30000	37400	33000	48000	35150	39650	41100	52750	---	---	36800	
	---	---	28000	31700	21750	38000	---	30500	---	---	---	---	30000	
	---	---	29557	37933	36350	47643	35150	39650	40540	52790	---	---	38872	
	---	---	4613	6904	22026	12481	21425	14637	10093	10253	---	---	12744	
	0	0	7	12	6	7	2	2	5	2	0	---	43	
Physical chemistry	---	---	42700	38725	---	---	---	59000	---	---	---	---	49750	
	---	30000	32000	35650	---	33500	61500	50000	41650	54000	51200	---	35650	
	---	---	29075	34375	---	---	---	31000	---	---	---	---	32000	
	---	30000	34650	37620	---	33500	61500	46667	41650	54000	51200	---	40450	
	---	---	7517	6816	---	2121	14849	14295	10394	---	---	---	10945	
	0	1	6	10	0	2	2	3	2	1	1	---	28	
Other chemistry	---	---	41000	56450	45000	57000	54850	65900	62500	---	---	---	48000	
	---	31000	31500	39000	38000	42000	45000	42000	45000	49000	---	---	40500	
	---	---	26000	31650	36600	39000	37000	31750	37300	---	---	---	32100	
	---	31000	32186	43040	39911	46800	45740	47460	48920	49000	---	---	42166	
	---	1414	8607	12968	5331	11367	10844	17608	17853	---	---	---	12230	
	0	2	7	5	9	5	5	5	5	1	0	---	44	
Non-chemistry	---	---	48225	48000	60625	57000	73500	74125	62700	88000	---	---	62125	
	---	---	42450	43150	50000	45050	63950	56650	51000	83700	---	---	50000	
	---	---	33750	37500	38475	32500	61550	39150	44800	56500	---	---	40175	
	---	---	41475	41700	51443	44888	64413	57000	54545	74540	---	---	52271	
	---	---	7847	10763	14005	12023	16531	20175	14581	17246	---	---	16525	
	0	0	4	14	14	8	8	6	11	5	0	---	70	
TOTAL	---	30000	35800	43000	48000	55000	55000	60125	60000	65850	---	---	50000	
	---	27100	31200	36000	41000	43000	47200	50000	51200	52550	42850	---	40000	
	---	25000	28000	32000	35000	35750	38625	40650	44800	43050	---	---	32000	
	---	27868	31915	37186	42148	45848	47258	51102	53029	55717	42850	---	42094	
	---	4247	5875	8348	10455	13425	14443	14800	13623	17212	11809	---	13413	
	0	25	167	207	182	121	84	86	83	36	2	---	993	

Table 2.3.2

SALARIES of FULL-TIME EMPLOYED M.S. CHEMISTS IN PRIVATE INDUSTRY  
according to WORK FUNCTION and YEARS SINCE BS  
1986 Survey of ACS Members

WORK FUNCTION	YEARS SINCE BS										No Resp	TOTAL	
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40			
Mgt-R&D	---	---	40900	45900	54500	59750	64925	69600	63000	76500	---	60500	- 75th %-ile
	---	30000	37000	40000	50000	54500	55000	60500	61500	55000	---	51750	- 50th %-ile
	---	---	25150	35500	43000	46500	42300	53500	51000	51000	---	42250	- 25th %-ile
	---	30000	33820	42012	48167	52960	52950	63508	60807	62250	---	52301	- Mean
	---	---	8139	8787	9426	10309	15601	13526	11927	16211	---	14100	- Std Dev
	0	1	5	17	21	20	16	13	15	8	0	116	- Count
Basic research	---	32500	33000	36000	43400	42900	55500	50550	---	63400	---	40750	
	---	27100	31850	34000	40250	35800	46600	42000	53950	56000	---	34700	
	---	---	26500	27575	31750	35000	34000	35500	---	36100	---	31200	
	---	---	29186	30638	33300	40071	37144	45720	43620	53950	---	36448	
	---	3638	4431	4199	5428	8344	11467	7244	71	14557	---	9082	
	0	7	24	18	14	9	5	5	2	5	0	89	
Applied research	---	30500	36000	40000	44500	48000	50800	56550	60000	52000	---	45000	
	---	27650	31000	36000	39000	39600	47000	46100	51500	44100	42850	37000	
	---	---	22950	28350	32000	33000	33000	41200	39000	44000	41200	31500	
	---	---	28080	32104	36260	39574	41774	45352	48487	50747	46775	42850	39017
	---	5336	5472	6250	8125	12428	10278	12942	13873	8796	11809	10535	
	0	10	73	85	67	35	23	30	19	7	2	351	
General Mgt	---	---	40725	51000	51000	60250	75575	70375	69700	86000	---	59250	
	---	---	36000	49450	44600	51250	57000	51500	56000	70000	---	48500	
	---	---	28750	40875	39900	41075	40250	45875	46000	45500	---	41250	
	---	---	34883	47140	46719	54129	58225	57500	59950	67167	---	51475	
	---	---	6818	8767	9404	16521	18483	15981	15422	20398	---	14920	
	0	0	6	10	21	14	8	6	8	3	0	76	
Marketing	---	---	37250	45500	60625	55000	68500	66250	54350	83700	---	53500	
	---	---	32000	37200	46000	45500	60700	59150	50000	50000	---	45000	
	---	---	26700	32000	36750	38000	34500	49625	42225	43000	---	33750	
	---	---	32724	38757	47100	45773	53340	60820	50264	58900	---	45009	
	---	---	7804	10792	12307	9548	19162	14520	15168	21761	---	14814	
	0	0	17	23	14	11	5	10	14	3	0	97	
Prod & QC	---	---	33400	39000	49375	48125	44250	45100	60000	75000	---	44875	
	---	27150	29300	35000	39300	38000	37000	41500	48500	43200	---	36000	
	---	---	25000	30600	30775	30250	25750	37925	43200	33500	---	29625	
	---	27150	29988	35332	41271	40025	35757	41070	51827	52040	---	38801	
	---	1061	5815	7077	15319	12978	10762	5895	13606	22641	---	13044	
	0	2	25	25	28	16	14	10	15	5	0	140	
Forensic	---	---	36500	32875	---	50900	49750	---	---	---	---	46000	
	---	22500	26800	30000	44700	40400	46000	---	50950	30900	---	33500	
	---	---	24150	26150	---	29750	42250	---	---	---	---	27000	
	---	22500	29150	31100	44700	40350	46000	---	50950	30900	---	36222	
	---	707	6935	9338	3960	11035	4082	---	7142	---	---	10884	
	0	2	4	8	2	4	4	0	2	1	0	27	
Writing	---	---	---	---	---	---	---	---	---	---	---	55700	
	---	---	---	15300	32000	---	---	61000	39800	---	---	35900	
	---	---	---	---	---	---	---	---	---	---	---	19475	
	---	---	---	15300	32000	---	---	61000	39800	---	---	37025	
	---	---	---	---	---	---	---	---	---	---	---	18971	
	0	0	0	1	1	0	0	1	1	0	0	4	
Chemical information	---	---	---	32750	35500	---	---	58000	---	---	---	42675	
	---	---	---	30050	33250	40000	45000	40800	43300	---	---	32750	
	---	---	---	25025	31375	---	---	30500	---	---	---	30125	
	---	---	---	29275	33375	40000	45000	43100	43300	---	---	37075	
	---	---	---	4103	2136	14142	21213	13894	---	---	---	10611	
	0	0	0	4	4	2	2	3	1	0	0	16	
Computer	---	---	40944	---	---	---	---	---	---	---	---	38586	
	---	28300	34700	36400	---	---	---	---	---	---	---	34850	
	---	---	29000	---	---	---	---	---	---	---	---	28825	
	---	28300	34881	36400	---	---	---	---	---	---	---	34291	
	---	---	5974	1980	---	---	---	---	---	---	---	4922	
	0	1	3	2	0	0	0	0	0	0	0	6	
Consulting	---	---	34725	57275	48000	64500	---	61800	---	---	---	49775	
	---	27000	30000	42050	45000	51500	32000	33500	46450	90000	---	40500	
	---	---	27750	29750	36000	41500	---	28000	---	---	---	30500	
	---	27000	30825	43025	43000	52500	32000	41100	46450	90000	---	42807	
	---	4243	3914	14320	6272	12396	---	18136	9122	---	---	14841	
	0	2	4	4	7	4	1	3	2	1	0	28	
Other	---	---	42450	48000	---	72000	61000	66000	49650	63000	---	53100	
	---	---	37500	43650	32800	56900	52000	60000	48300	53100	---	46000	
	---	---	34000	37250	---	44000	37000	34000	36000	50000	---	37500	
	---	---	38080	42950	32800	57780	50000	53333	44650	55367	---	46546	
	---	---	5124	6946	9475	15124	12124	17010	8475	6790	---	11685	
	0	0	5	10	2	5	3	3	4	3	0	35	
No Response	---	---	---	---	---	---	74000	---	---	---	---	49417	
	---	---	31000	---	29333	50000	47667	29500	---	---	---	36500	
	---	---	---	---	---	---	40000	---	---	---	---	29750	
	---	---	31000	---	29333	50000	53889	29500	---	---	---	41375	
	---	---	---	---	---	---	17834	4950	---	---	---	15764	
	0	0	1	0	1	1	3	2	0	0	0	8	
TOTAL	---	30000	35800	43000	48000	55000	55000	60125	60000	65850	---	50000	
	---	27100	31200	36000	41000	43000	47200	50000	51200	52550	42850	40000	
	---	---	25000	28000	32000	35000	35750	38625	40650	44800	43050	32000	
	---	27868	31915	37186	42148	45848	47258	51102	53029	55717	42850	42094	
	---	4247	5875	8348	10455	13425	14443	14800	13623	17212	11809	13413	
	0	25	167	207	182	121	84	86	83	36	2	993	



Table 2.3.4

SALARIES of FULL-TIME EMPLOYED M.S. CHEMISTS IN PRIVATE INDUSTRY  
according to TOTAL NUMBER OF SUBORDINATES and YEARS SINCE BS  
1986 Survey of ACS Members

TOTAL SUBORDINATES	YEARS SINCE BS										No Resp	TOTAL	
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40			
0	---	31000	33000	37150	42325	50000	50750	54000	59000	46600	---	43000	- 75th %-ile
	---	27100	29100	33650	37100	37500	42500	42700	51900	43000	---	35000	- 50th %-ile
	---	26250	26850	29350	32000	32000	36000	35000	36900	37611	---	29308	- 25th %-ile
	---	28085	30855	34345	38751	40906	42602	45163	50205	42180	---	37504	- Mean
	---	3781	5982	7905	10697	13094	12367	11654	14382	6853	---	11344	- Std Dev
	0	13	69	76	46	31	28	27	21	9	0	320	- Count
1-2	---	35000	36000	40600	43400	48000	51500	55750	53650	75450	---	45400	
	---	28300	32000	35800	39750	42250	46300	45200	50000	52000	34500	38750	
	---	25950	28625	32000	33175	36000	39925	38000	46250	46550	---	32175	
	---	30040	32234	35988	40314	41950	45455	48495	50094	59200	34500	40011	
	---	5985	5117	6347	9919	7572	12671	13942	9487	18272	---	10953	
	0	5	44	56	52	26	22	20	17	5	1	248	
3-7	---	30000	36600	44775	50000	56950	59275	61125	52500	61500	---	50000	
	---	26400	32000	36400	43000	45000	47000	52150	47250	55000	51200	41500	
	---	23000	29775	33375	36650	35000	39875	40725	43950	46500	---	33650	
	---	25914	32812	38233	43324	46969	49133	52878	49883	52422	51200	42549	
	---	3344	5170	7906	7486	13246	15288	15656	8027	12750	---	12224	
	0	7	36	42	33	29	12	18	18	9	1	205	
8-12	---	---	39750	49950	55750	56275	62500	60125	63750	---	---	55000	
	---	---	31800	45950	49500	48250	51500	46500	60750	55000	---	48000	
	---	---	26525	37875	45350	35750	32500	43575	50000	---	---	38500	
	---	---	32938	45325	47713	47319	47875	49700	59000	55000	---	47351	
	---	---	7593	8011	12614	15007	17083	8529	16396	---	---	13756	
	0	0	8	16	16	8	6	10	1	0	0	81	
13-17	---	---	39125	46725	45500	58500	59725	---	52000	---	---	51875	
	---	---	27750	44000	44000	54250	45000	57500	52000	67850	---	44800	
	---	---	22825	38200	36500	48125	32000	---	40000	---	---	38000	
	---	---	29900	42263	41285	53625	45575	57500	48000	67850	---	44648	
	---	---	8787	7139	8899	5437	14387	10607	6928	22415	---	12183	
	0	0	4	8	13	4	4	2	3	2	0	40	
18-22	---	---	46575	43500	50000	61500	---	66400	68500	---	---	56100	
	---	---	32900	39000	48000	43000	50000	55000	52150	---	---	44850	
	---	---	27175	28500	34300	36550	---	41500	43025	---	---	36075	
	---	---	35550	37000	44471	47820	50000	54300	55500	---	---	46588	
	---	---	10483	8083	7762	13205	14142	13340	17369	---	---	13270	
	0	0	4	4	7	5	2	4	6	0	0	32	
23-32	---	---	---	62450	47500	66500	62000	---	---	93000	---	65500	
	---	---	---	53900	44000	53600	61400	66000	70400	70000	---	60000	
	---	---	---	46250	42000	41000	61000	---	---	50000	---	46875	
	---	---	---	54200	44500	53720	61467	66000	70400	71000	---	58595	
	---	---	---	8392	2784	13498	503	8485	14708	21517	---	13518	
	0	0	0	4	3	5	3	2	2	3	0	22	
33-47	---	---	---	---	64250	---	---	---	---	---	---	64750	
	---	---	---	---	59000	67700	60500	55500	56350	56600	---	59700	
	---	---	---	---	45250	---	---	---	---	---	---	50000	
	---	---	---	---	54667	67700	60500	55500	56350	56600	---	57581	
	---	---	---	---	13003	8910	17678	3536	8980	35921	---	13921	
	0	0	0	0	6	2	2	2	2	2	0	16	
48-67	---	---	---	---	---	---	---	85875	---	---	---	81000	
	---	---	36000	---	37400	59000	64250	74500	87000	70000	---	62000	
	---	---	---	---	---	---	---	54350	---	---	---	41800	
	---	---	36000	---	37400	59000	64250	71575	87000	70000	---	61800	
	---	---	---	---	1980	---	10960	16852	---	---	---	18918	
	0	0	1	0	2	1	2	4	1	1	0	12	
68-99	---	---	---	---	---	---	---	---	---	---	---	62250	
	---	---	---	---	45300	63000	---	---	---	60000	---	55300	
	---	---	---	---	---	---	---	---	---	---	---	42650	
	---	---	---	---	45300	63000	---	---	---	60000	---	53400	
	---	---	---	---	7495	---	---	---	---	---	---	10378	
	0	0	0	0	2	1	0	0	0	1	0	4	
>=100	---	---	---	---	---	---	---	---	89000	86000	---	88500	
	---	---	40000	38000	62000	90000	88000	94000	60000	80000	---	69000	
	---	---	---	---	---	---	---	---	41100	45500	---	43300	
	---	---	40000	38000	62000	90000	88000	94000	63367	70500	---	67354	
	---	---	---	---	9899	---	---	---	24127	21857	---	21625	
	0	0	1	1	2	1	1	1	3	3	0	13	
TOTAL	---	30000	35800	43000	48000	55000	55000	60125	60000	65850	---	50000	
	---	27100	31200	36000	41000	43000	47200	50000	51200	52550	42850	40000	
	---	25000	28000	32000	35000	35750	38625	40650	44800	43050	---	32000	
	---	27868	31915	37186	42148	45848	47258	51102	53029	55717	42850	42094	
	---	4247	5875	8348	10455	13425	14443	14800	13623	17212	11809	13413	
	0	25	167	207	182	121	84	86	83	36	2	993	

Table 2.3.5

SALARIES of FULL-TIME EMPLOYED M.S. CHEMISTS IN PRIVATE INDUSTRY  
according to TYPE OF INDUSTRY and YEARS SINCE BS  
1986 Survey of ACS Members

TYPE OF INDUSTRY	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			
Agricultural chemicals	---	---	30600	42500	58300	67825	59800	50000	60000	---	---	52650	- 75th %ile
	---	---	29500	35500	41900	52850	51000	42000	53900	---	---	40800	- 50th %ile
	---	---	29000	32000	33000	42250	50550	26000	52600	---	---	31300	- 25th %ile
	---	---	29073	36822	42943	53200	54340	39333	54086	---	---	42352	- Mean
	---	---	3660	6170	20589	12177	5228	12220	12666	---	---	13789	- Std Dev
	0	0	11	18	7	10	5	3	7	0	0	61	- Count
Coatings	---	---	36800	40575	60450	58700	50650	53250	62700	58750	---	51500	
	---	---	28900	32000	36500	44950	51500	41300	45400	60000	52000	41800	
	---	---	28700	31800	30750	29000	36000	41000	39500	44500	---	32000	
	---	---	28900	32500	36650	45978	46114	42650	46780	54067	51750	42173	
	---	---	6160	7753	14242	12989	7989	8056	12687	7365	---	11934	
	0	1	13	6	12	7	4	5	3	4	0	55	
Food	---	---	34700	44475	36000	52350	60000	---	63750	60000	---	44825	
	---	---	29300	37800	32350	41000	38000	31150	44550	45500	51200	36000	
	---	---	28025	31700	25750	33500	20000	---	34275	31200	---	30250	
	---	---	30813	37575	31383	44944	39333	31150	47525	45567	51200	38510	
	---	---	3560	7098	4986	17094	20033	2616	15745	14400	---	12187	
	0	0	8	12	6	9	3	2	4	3	1	48	
Metals	---	---	32100	39050	44200	61500	74000	---	---	---	---	53000	
	---	---	25500	31800	44200	55500	52000	40500	56000	---	---	39000	
	---	---	24150	26275	33000	49875	30000	---	---	---	---	28350	
	---	---	27250	34100	40467	55625	52000	40500	56000	---	---	40748	
	---	---	4614	11715	6466	6047	22000	2121	---	---	---	14099	
	0	0	4	8	3	4	3	2	1	0	0	25	
Paper	---	---	---	44575	55400	---	---	---	---	---	---	45325	
	---	---	32200	41500	42000	41100	40000	44000	62650	---	---	41550	
	---	---	---	35500	41000	---	---	---	---	---	---	38500	
	---	---	32200	40525	46133	41100	40000	44000	62650	---	---	43950	
	---	---	283	4827	8041	---	---	---	23547	---	---	11813	
	0	0	2	4	3	1	1	1	2	0	0	14	
Petroleum	---	---	36875	49100	59875	58500	51500	87600	71800	---	---	52000	
	---	26500	34000	46400	49850	48250	49700	70000	50000	34222	---	46000	
	---	---	29825	40325	37500	40500	47000	51000	47500	---	---	35800	
	---	26500	34010	44360	49200	47750	49340	69440	56433	34222	---	46581	
	---	---	4458	6972	11941	11907	2393	18657	13367	---	---	13978	
	0	1	10	10	6	6	5	5	3	1	0	47	
Pharmaceuticals	---	---	27100	34625	38000	50000	50000	47400	63750	66325	83250	46375	
	---	---	26900	31850	34800	39800	37500	39750	56000	52100	68400	36300	
	---	---	28400	27275	32500	35500	32000	40800	47850	47750	---	32000	
	---	---	26914	31494	36057	41913	41637	41822	54626	56517	66800	40352	
	---	---	720	5585	6888	9354	10275	17088	16985	13278	19072	13116	
	0	7	34	35	49	19	12	12	6	6	0	180	
Rubber	---	---	31500	40900	49500	73000	47400	85000	61750	---	---	50375	
	---	---	29750	36500	45000	46500	45000	52500	51500	43000	---	43000	
	---	---	26575	33000	35850	35000	43000	42425	46150	---	---	35500	
	---	---	29275	36660	43450	51500	45133	59975	53460	43000	---	45560	
	---	---	2678	4555	7276	20469	2203	24180	8052	---	---	14730	
	0	0	4	5	4	4	3	4	5	1	0	30	
Soaps	---	---	40000	38000	38750	43500	42000	72000	62250	---	---	47000	
	---	---	32000	34000	37000	31800	31500	53000	52500	32000	71000	37500	
	---	---	22800	31000	35600	31000	21500	43500	40500	---	---	31950	
	---	---	31600	34333	37140	35433	33500	56167	51750	32000	71000	41343	
	---	---	8607	3512	1643	6997	14391	14511	11587	---	21213	14999	
	0	3	3	5	3	6	3	4	1	2	0	30	
Biochemical products	---	---	33900	39750	55750	67875	80000	---	---	---	---	44750	
	---	---	30750	35050	33500	60000	55900	47100	---	---	---	34100	
	---	---	27275	28000	28125	34125	36700	---	---	---	---	28200	
	---	---	30063	34658	39125	54000	57533	47100	---	---	---	29019	
	---	---	4417	6694	16260	19031	21696	---	---	---	---	14269	
	0	0	8	12	4	4	3	1	0	0	0	32	
Electronics	---	---	42225	50000	37750	---	47750	63825	50000	---	---	46000	
	---	---	30000	37000	36600	36000	40700	44000	58150	50000	70000	34500	
	---	---	31450	29500	32250	---	40525	45275	45700	---	---	33000	
	---	---	30000	36729	38014	38125	40700	44450	55750	48567	70000	41204	
	---	---	6473	15421	9219	1556	5097	10049	2483	---	---	10948	
	0	1	14	7	8	2	6	4	3	1	1	47	
Other chemicals	---	---	27900	33000	45000	47500	53750	58750	59700	55000	54250	52000	
	---	---	23000	28000	36700	40400	45000	49000	48500	51100	51000	44000	
	---	---	21900	24500	31250	36000	35350	41000	41000	44600	42700	35000	
	---	---	24267	29622	38919	43413	46129	47317	49904	54241	48440	44575	
	---	---	3194	5965	9948	11447	14842	17525	12712	16439	8643	14263	
	0	3	11	32	23	17	12	23	22	10	0	153	
Other products	---	---	32750	36600	40800	50000	55300	61400	58200	56600	82000	50000	
	---	---	30000	29000	35400	43100	46500	52000	47000	51000	52000	42000	
	---	---	26150	26300	32000	38000	37250	35000	37000	42950	43000	32000	
	---	---	29560	30928	36626	42589	46564	48916	47753	50170	56814	42560	
	---	---	4128	5456	7758	8865	12286	16176	13008	13246	21341	13197	
	0	5	25	31	35	22	19	15	20	7	0	179	
Non-mfg	---	---	31875	38975	42250	48000	52500	58500	65400	69100	---	47750	
	---	---	26500	33350	35000	42000	41000	40400	61000	58250	90000	39600	
	---	---	22250	27500	28750	37500	34500	33500	40000	42950	---	30000	
	---	---	26875	34145	35932	41621	43410	44880	54360	56517	90000	40555	
	---	---	5170	7824	9706	7336	12273	13220	15923	13498	---	12981	
	0	4	20	22	19	10	5	5	6	1	0	92	
TOTAL	---	---	30000	35800	43000	48000	55000	55000	60125	60000	66850	50000	
---	---	27100	31200	36000	41000	43000	47200	50000	51200	52550	42850	40000	
---	---	25000	28000	32000	35000	35750	38625	40650	44800	43050	---	32000	
---	---	27868	31915	37186	42148	45848	47258	51102	53029	55717	42850	42094	
---	---	4247	5875	8348	10455	13425	14443	14800	13623	17212	11809	13413	
	0	25	167	207	182	121	84	86	83	36	2	993	

Table 2.3.6

SALARIES of FULL-TIME EMPLOYED M.S. CHEMISTS IN PRIVATE INDUSTRY  
according to GEOGRAPHIC REGION and YEARS SINCE BS  
1986 Survey of ACS Members

GEOGRAPHIC 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	---	---	38250	41900	52000	48500	52000	63650	67075	61000	---	50000	- 75th %-ile
	---	31000	31550	37000	43500	41000	48000	61800	46500	53500	51200	40000	- 50th %-ile
	---	---	28125	29500	33000	36000	40000	55100	29750	38667	---	31125	- 25th %-ile
	---	31000	32729	36680	42152	40786	47953	59860	49050	51056	51200	40679	- Mean
	---	1414	6704	9496	10819	8475	12464	4931	20746	12145	---	12249	- Std Dev
	0	2	28	25	23	7	15	5	6	4	1	116	- Count
Mountain	---	---	---	42000	50500	47000	---	---	---	---	---	49100	
	---	---	33950	39400	39800	27000	39850	65000	70000	70000	---	39800	
	---	---	---	35000	20500	24000	---	---	---	---	---	30000	
	---	---	33950	39343	36360	32667	39850	65000	70000	70000	---	42296	
	---	---	7000	6088	18192	12503	13930	26870	---	---	---	16592	
	0	0	2	7	5	3	2	2	1	1	0	23	
W.N. Central	---	---	32850	40000	44750	49000	53000	54900	53500	---	---	49000	
	---	---	29100	35000	41150	38000	46600	50000	52000	49750	---	39200	
	---	---	26350	29700	36800	32000	21600	31150	47000	---	---	31000	
	---	---	29500	35831	41569	42473	40400	44420	50650	49750	---	40121	
	---	---	3907	6992	7527	14478	16593	12683	11274	6010	---	11096	
	0	0	10	16	16	11	3	5	8	2	0	71	
W.S. Central	---	---	38000	47500	54100	49875	72000	54500	68950	---	---	49175	
	---	27900	33000	38000	45000	35000	45000	40000	50300	42000	---	40000	
	---	---	25000	33000	39800	28875	32000	33250	45625	---	---	32625	
	---	27900	33464	38989	46077	39000	49667	44556	54650	42000	---	41801	
	---	---	7309	10201	9682	11955	20404	13406	12470	15698	---	12149	
	0	1	11	19	13	8	3	9	6	2	0	72	
E.N. Central	---	---	27025	33000	40050	48000	59000	59400	60500	61750	55000	48250	
	---	26450	30500	36000	40500	47900	50000	45000	53900	50000	34500	39000	
	---	22950	26900	32000	34425	40325	42375	41400	44300	43000	---	32000	
	---	25370	30906	36948	42259	49273	48724	50076	53576	49300	34500	41410	
	---	2223	4802	8141	10559	13333	15459	14120	13658	6511	---	13058	
	0	10	39	56	44	26	24	17	17	7	1	241	
E.S. Central	---	---	30075	40800	63500	---	---	67375	---	43200	---	46000	
	---	---	29500	33000	37500	---	---	54850	---	41200	---	37500	
	---	---	24500	30100	29000	---	---	44825	---	24000	---	30000	
	---	---	28025	34960	44500	---	---	57417	---	36133	---	41839	
	---	---	3387	6444	23043	---	---	16180	---	10555	---	17116	
	0	0	4	5	5	0	0	6	0	3	0	23	
Mid-Atlantic	---	31875	36900	44950	50000	55300	58000	60500	60000	69200	---	50700	
	---	30000	32200	36000	42000	43900	42000	45400	52100	58000	---	41000	
	---	27400	28275	32000	36000	35750	35850	40000	47925	44750	---	33075	
	---	29975	32968	37607	43220	46112	45900	50211	55896	58350	---	43237	
	---	3007	6639	8588	9761	14285	14475	16164	13722	13578	---	13597	
	0	8	40	41	49	42	17	19	26	8	0	250	
So. Atlantic	---	40000	34100	44225	41275	54750	55675	61250	52300	85425	---	50000	
	---	23000	29500	38200	34750	43000	46000	50700	47250	71450	---	40000	
	---	22000	26800	34550	30850	38500	37500	46875	36900	49750	---	32000	
	---	28333	30214	39275	36402	47150	44817	52340	48667	66850	---	42673	
	---	10116	4454	8037	7345	11694	11591	11966	14726	21586	---	14559	
	0	3	21	16	16	16	12	10	12	8	0	114	
New England	---	---	41600	40550	45250	65000	70000	64750	60950	---	---	52300	
	---	28300	33600	33250	40400	58700	51000	52300	50000	93000	---	42000	
	---	---	30000	29475	37175	42000	41000	42500	43650	---	---	33250	
	---	28300	34436	35405	42375	53529	53571	56256	51840	93000	---	44383	
	---	---	6179	8329	8030	12346	20165	17128	9557	---	---	15480	
	0	1	11	20	8	7	7	9	5	1	0	69	
No Response	---	---	---	---	51333	---	---	54975	---	---	---	48750	
	---	---	33000	34300	48000	38000	38000	35950	48350	---	---	38000	
	---	---	---	---	35000	---	---	31250	---	---	---	33750	
	---	---	33000	34300	44778	38000	38000	40725	48350	---	---	40824	
	---	---	---	424	8630	---	---	13452	3748	---	---	8895	
	0	0	1	2	3	1	1	4	2	0	0	14	
TOTAL	---	30000	35800	43000	48000	55000	55000	60125	60000	65850	---	50000	
	---	27100	31200	36000	41000	43000	47200	50000	51200	52550	42850	40000	
	---	25000	28000	32000	35000	35750	38625	40650	44800	43050	---	32000	
	---	27868	31915	37186	42148	45848	47258	51102	53029	55717	42850	42094	
	---	4247	5875	8348	10455	13425	14443	14800	13623	17212	11809	13413	
	0	25	167	207	182	121	84	86	83	36	2	993	

Table 2.4.1

SALARIES of FULL-TIME EMPLOYED Ph.D. CHEMISTS in PRIVATE INDUSTRY  
according to WORK SPECIALTY and YEARS SINCE BS  
1986 Survey of ACS Members

WORK SPECIALTY	YEARS SINCE BS											TOTAL	
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40 OR MORE	NO RESP		
Biochemistry	---	---	39950	47600	62250	60000	70833	79111	82500	---	---	60000	- 75th %ile
	---	---	38200	42000	52100	47000	56500	73000	69500	68722	---	46200	- 50th %ile
	---	---	34625	37600	41475	36000	42875	58100	49600	---	---	39600	- 25th %ile
	---	---	37520	42420	53590	48713	56595	71597	67200	68722	---	51325	- Mean
	---	---	3046	8145	16762	15335	14534	13501	17275	15163	---	16109	- Std Dev
	0	0	10	25	20	15	14	9	4	2	0	99	- Count
Biotechnology	---	---	40125	50800	58125	67000	58750	85000	93000	---	---	54150	
	---	---	40000	45000	50000	52000	52400	85000	50000	36000	---	48900	
	---	---	37525	42000	44675	47100	50000	55000	50000	---	---	41175	
	---	---	42607	46440	49783	56040	56913	75000	84333	36000	---	50151	
	---	---	13751	5614	14241	13907	11595	17321	24826	---	---	14203	
	0	0	14	20	18	5	8	3	3	1	0	72	
General chemistry	---	---	---	51250	57000	75000	---	70000	81000	---	---	60000	
	---	---	38500	45750	51500	60000	68500	64000	61000	51000	26900	50300	
	---	---	---	41675	43750	47000	---	25800	46000	---	---	42000	
	---	---	38500	46020	49100	60771	68500	53267	63257	51000	26900	52816	
	---	---	4950	6040	14027	12246	37477	23975	20286	---	---	16497	
	0	0	2	10	10	7	2	3	7	1	1	43	
Analytical chemistry	---	---	42375	48700	50000	59000	64000	65300	68500	74000	---	55025	
	---	---	40000	44000	45000	53200	50400	54500	59000	65000	---	45000	
	---	---	37425	39000	40900	43225	42500	45000	51000	48850	---	40000	
	---	---	39894	44688	46024	51948	53156	54778	61821	64300	---	48435	
	---	---	3689	8866	8203	13541	13953	18361	14502	16458	---	12798	
	0	0	64	75	67	62	43	27	19	9	0	366	
Inorganic chemistry	---	---	43650	48450	56000	66250	63850	72500	73300	69375	---	56550	
	---	---	40100	42000	48000	57500	54200	56000	64000	51250	---	47500	
	---	---	37725	39000	42000	50250	52500	48000	50000	38667	---	40550	
	---	---	41081	43772	49507	58447	56850	59923	63782	52537	---	50115	
	---	---	4372	6620	8714	11316	6848	14168	12679	21646	---	12285	
	1	0	26	32	27	17	4	13	11	6	0	137	
Organic chemistry	---	---	42000	47750	54825	67250	66000	71500	74875	70000	---	61150	
	21500	34000	39000	40000	49150	59500	59000	59000	60750	56850	---	49600	
	---	---	37850	39800	43000	50750	50000	47375	47750	45375	---	42000	
	21500	34000	39811	43917	49672	60230	59459	58658	60397	57133	---	52314	
	---	---	6666	6855	9101	12261	12917	17917	16867	12830	---	13938	
	1	1	44	77	74	74	39	38	32	16	0	396	
Polymer chemistry	---	---	42850	48000	55675	63600	66000	75000	77000	70925	---	62600	
	---	---	39400	44100	49900	56100	59300	62300	62500	55850	45500	51800	
	---	---	37950	42000	43750	46875	52000	49250	52000	47750	---	43975	
	---	---	40172	44917	50872	56441	60497	62287	64588	59606	45500	54228	
	---	---	3859	6233	9347	11808	12367	14727	14687	15752	27577	13730	
	0	0	46	63	68	68	59	53	43	16	2	418	
Pharmaceutical chemistry	---	---	42100	47250	60000	65000	71475	57375	78000	76350	---	60000	
	---	---	40000	42050	48700	57444	55450	52600	68000	70700	---	47200	
	---	---	37625	37925	43050	48000	42875	49225	58800	70000	---	41000	
	---	---	40030	42828	49906	59359	54892	53100	67618	72350	---	51347	
	---	---	2745	6534	12346	15054	20829	4751	17815	3824	---	15364	
	0	0	20	18	17	11	12	6	11	4	0	99	
Medicinal/clinical chemistry	---	---	44200	54675	58400	68000	73250	68000	75500	88025	---	60000	
	---	---	41550	44750	49000	58000	57950	57400	60500	73500	54000	50600	
	---	38500	40125	40250	50000	46750	50000	50700	58375	---	43400	---	
	---	---	41650	46779	50190	60047	56890	59936	61867	73433	54000	54028	
	---	---	3628	8606	12889	14504	16686	14774	12745	15795	8485	14492	
	0	0	8	24	21	17	12	11	6	6	2	107	
Theoretical chemistry	---	---	---	53100	---	---	---	---	---	---	---	62400	
	---	---	44900	48350	---	67000	70000	---	---	---	---	50000	
	---	---	---	42950	---	---	---	---	---	---	---	43100	
	---	---	44900	49117	---	67000	70000	---	---	---	---	53773	
	---	---	7212	7197	---	---	14142	---	---	---	---	12248	
	0	0	2	6	0	1	2	0	0	0	0	11	
Environmental chemistry	---	---	39125	48000	64400	70250	73375	69825	72000	---	42000	65000	
	---	---	38000	41000	45300	59650	61250	55650	68000	70000	36800	52900	
	---	---	36500	36500	40400	52675	53250	46500	60000	---	29000	42000	
	---	---	37875	41900	50360	59457	62892	58700	66414	70000	35933	54229	
	---	---	1436	7529	12444	11751	14874	13956	11981	---	6543	14696	
	0	0	4	11	15	14	12	8	7	1	3	75	
Agricultural/food chemistry	---	---	39650	50600	53225	70000	64500	80750	79200	---	---	58500	
	---	---	37450	43500	50200	53000	58200	62000	75000	---	---	60300	
	---	---	35725	38900	47250	48000	49750	45825	36000	---	---	43175	
	---	---	37800	43494	50395	57184	58315	61533	63400	---	---	52354	
	---	---	3037	7782	6909	12563	11587	22218	23822	---	---	14089	
	0	0	6	21	20	19	13	12	3	0	0	94	
Physical chemistry	---	---	43150	52250	62500	67300	80125	76500	85000	70333	---	69900	
	---	---	40000	48000	51250	57000	70000	61300	76000	61500	---	55000	
	---	---	35500	43350	46225	51300	59125	48475	55750	51750	---	46850	
	---	---	39238	48383	55035	59012	68800	62574	71617	61401	---	58244	
	---	---	5992	7297	12712	10986	14072	16888	16962	9316	---	15131	
	0	0	13	24	34	33	22	16	18	8	0	168	
Other chemistry	---	---	42700	51500	50500	66875	64875	84000	87000	81750	---	67125	
	---	31500	39600	42000	47500	61000	56500	59900	76000	81000	---	54400	
	---	---	35500	38900	45500	50000	48750	52450	60000	79500	---	45225	
	---	31500	39200	45985	49189	61850	54914	65450	72745	80700	---	57547	
	---	---	4418	8920	7741	13569	10929	17508	14824	1643	---	15922	
	0	1	5	13	9	16	14	4	11	5	0	78	
Non-chemistry	---	---	47800	56000	65000	74750	73750	86000	80000	77000	---	70000	
	29000	---	39500	47250	57750	55000	59000	75500	67850	60000	---	58000	
	---	---	35625	40875	49500	45850	48000	68750	55000	51600	---	46200	
	29000	---	40310	47450	59023	58530	60771	76143	66565	63440	---	58857	
	---	---	8393	12704	13894	15652	18201	9164	15995	15132	---	16929	
	1	0	10	22	26	33	28	14	20	5	0	159	
TOTAL	43500	---	42075	49000	56800	65000	67375	74500	78500	72478	57000	61000	
	29000	32750	39600	44000	49150	56100	58000	60000	64000	63500	39400	50000	
	21500	---	37500	40000	43350	48000	49000	49950	52000	51075	27425	52900	
	31333												



Table 2.4.2

SALARIES of FULL-TIME EMPLOYED Ph.D. CHEMISTS IN PRIVATE INDUSTRY  
according to WORK FUNCTION and YEARS SINCE BS  
1986 Survey of ACS Members

WORK FUNCTION	YEARS SINCE BS										No Resp	TOTAL	
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40			
Mgt-R&D	---	---	44000	55400	65000	75000	74500	84000	85000	73700	---	75000	- 75th %-ile
	---	---	43000	51000	59400	63000	65000	71000	78000	69000	---	63000	- 50th %-ile
	---	---	38000	46500	53000	57000	55450	60200	67000	54500	---	54000	- 25th %-ile
	---	---	40429	51309	60311	65079	64897	71167	74904	65286	---	64163	- Mean
	---	---	13302	7031	11857	12294	14904	15768	12782	14350	---	14493	- Std Dev
	0	0	7	55	87	137	93	57	55	22	0	513	- Count
Basic research	---	---	42150	48000	55450	60000	68000	75250	72650	75925	---	55775	
	21500	---	40000	44000	49300	53750	59500	62000	64000	56850	62500	46100	
	---	---	38000	40500	42250	48000	46600	54500	59000	49800	---	40075	
	21500	---	40409	44852	48536	54116	57704	64395	65524	61562	62500	49029	
	---	---	4078	6378	8650	9630	15495	16949	12526	19150	3536	12022	
	1	0	85	103	69	56	23	20	17	10	2	386	
Applied research	---	---	42000	47500	51000	60400	62200	66400	63975	73675	---	54000	
	36250	34000	39500	42000	46650	51000	55000	53800	52850	60000	27950	46200	
	---	---	37500	39000	42225	44500	48500	48000	48000	49825	---	40975	
	36250	34000	39823	43254	47396	52898	56396	57356	56639	61260	27950	48673	
	10253	---	4062	7161	8628	10493	11010	12964	14128	13634	1485	11527	
	2	1	157	229	206	123	95	85	76	30	2	1,006	
General Mgt	---	---	---	57000	66250	79475	75750	77000	83125	96000	---	76000	
	---	---	47000	46700	61500	64500	58400	65500	73200	81000	42000	62250	
	---	---	---	35000	50500	51975	48500	50000	66550	70000	---	50000	
	---	---	47000	44243	58850	64688	61588	64214	72050	82333	42000	62664	
	---	---	---	14798	12576	17223	18910	17629	14865	13051	---	17680	
	0	0	1	7	14	16	24	17	14	14	3	94	
Marketing	---	---	---	52000	58750	59750	60150	71000	63000	---	---	60000	
	---	---	36300	45000	53000	55650	51000	64000	60000	81000	42400	53000	
	---	---	40000	45600	48250	42500	52000	59100	---	---	---	45000	
	---	---	36300	47636	52638	56275	52492	61857	60700	81000	42400	53700	
	---	---	2121	13712	10756	9049	11992	11157	2272	---	7920	12044	
	0	0	2	11	13	16	13	7	4	1	2	69	
Prod & QC	---	---	41850	48225	52400	53400	59250	57000	67625	69600	---	53950	
	---	---	37000	45050	45000	45000	47000	54200	52800	52000	---	46200	
	---	---	32500	35125	36800	42000	38500	38400	45925	38500	---	39150	
	---	---	37140	43880	45547	44853	48407	48900	58113	51400	---	47069	
	---	---	4952	8317	9360	12897	16685	19538	18506	18985	---	14328	
	0	0	5	10	17	19	14	9	8	6	0	88	
Forensic	---	---	42250	50000	57500	45525	54625	50000	---	---	---	46000	
	---	---	40000	39900	44200	42550	46750	45000	---	58000	---	41000	
	---	---	37900	38500	20000	40250	37750	35300	---	---	---	38500	
	---	---	39678	42557	40567	42775	46375	42557	---	58000	---	42549	
	---	---	3269	6024	19012	2769	9196	10825	---	---	---	8383	
	0	0	9	7	3	4	4	7	0	1	0	35	
Writing	---	---	---	---	---	---	70000	---	---	---	---	70300	
	---	---	---	48000	---	56000	64000	53700	79600	51000	---	54850	
	---	---	---	---	---	---	40000	---	---	---	---	48875	
	---	---	---	48000	---	56000	58000	53700	79600	51000	---	58990	
	---	---	---	7778	---	---	15875	---	11879	---	---	14531	
	0	0	0	2	0	1	3	1	2	1	0	10	
Chemical information	---	---	---	51000	---	---	68500	---	---	---	---	62000	
	---	---	---	48000	31100	52600	51700	63750	61450	---	---	50000	
	---	---	---	42000	---	---	50000	---	---	---	---	45700	
	---	---	---	47000	31100	52600	56733	63750	61450	---	---	53685	
	---	---	---	4583	---	4101	10226	25809	21991	---	---	14187	
	0	0	0	3	1	2	3	2	2	0	0	13	
Computer	---	---	---	57750	---	54250	---	---	---	---	---	55000	
	---	---	44900	46250	46000	40000	---	---	55000	---	---	42500	
	---	---	---	36750	---	36875	---	---	---	---	---	38000	
	---	---	44900	47083	46000	45688	---	---	55000	---	---	46990	
	---	---	7212	10452	7071	13879	---	---	0	---	---	10636	
	0	0	2	6	2	8	0	0	2	0	0	20	
Consulting	---	---	---	45500	50875	---	---	---	82000	---	---	57750	
	---	31500	40000	41000	46650	58100	58000	42400	75000	---	---	46200	
	---	---	---	31000	44100	---	---	---	55000	---	---	41000	
	---	31500	40000	38800	47933	58100	58000	42400	70667	---	---	49510	
	---	---	---	8044	6095	16829	2828	---	14012	---	---	13814	
	0	1	1	5	6	2	2	1	3	0	0	21	
Other	---	---	63000	---	53000	59300	62500	77625	80000	63000	---	66000	
	---	---	35000	47000	50000	46000	55000	54850	67000	53200	---	53200	
	---	---	28750	---	41000	40000	42350	41725	55000	50000	---	42350	
	---	---	43700	47000	48000	51257	54022	57138	67527	55400	---	55420	
	---	---	26276	9899	6928	12777	13509	23952	16971	6773	---	17827	
	0	0	5	2	4	7	9	8	11	3	0	49	
No Response	---	---	---	---	55250	---	---	76556	---	79444	---	74000	
	---	---	---	53778	43450	57444	73333	58178	80000	72111	26000	56650	
	---	---	---	---	22725	---	---	43114	---	45222	---	43725	
	---	---	---	53778	40475	57444	73333	58480	80000	65592	26000	55562	
	---	---	---	17893	---	---	---	17029	---	18018	---	18969	
	0	0	0	1	4	1	1	6	1	3	1	18	
TOTAL	43500	---	42075	49000	56800	65000	67375	74500	78500	72478	57000	61000	
	29000	32750	39600	44000	49150	56100	58000	60000	64000	63500	39400	50000	
	21500	---	37500	40000	43350	48000	49000	49950	52000	51075	27425	42000	
	31333	32750	40076	44850	50536	57323	59027	61388	65033	62476	41713	52979	
	11184	1768	5510	7819	11126	13160	14609	16641	15793	15393	14968	14587	
	3	2	274	441	426	392	284	217	195	80	8	2,322	

Table 2.4.3

SALARIES of FULL-TIME EMPLOYED Ph.D. CHEMISTS IN PRIVATE INDUSTRY according to NUMBER OF PROFESSIONAL AND TECHNICAL SUBORDINATES and YEARS SINCE BS 1986 Survey of ACS Members

PROF. & TECH. SUBORDINATE	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	---	---	40000	45300	51125	56250	62000	62675	73000	74700	45200	53500	- 75th %ile
21500	34000	38000	40900	45000	49000	51000	51500	61000	53200	32900	44350	- 50th %ile	
---	---	36000	37200	41125	44000	43250	45270	49000	45861	26750	38000	- 25th %ile	
21500	34000	37633	42281	46162	50563	52880	54531	60674	58516	34950	47746	- Mean	
---	---	4109	8818	10243	10965	13464	14074	16976	17720	9819	13634	- Std Dev	
1	1	80	95	58	58	49	40	43	25	4	454	- Count	
1-2	---	---	43000	47000	51000	59350	61000	65500	65400	76400	---	54500	
29000	---	---	39950	43000	47000	52400	54500	55500	56000	64500	45950	46200	
---	---	---	38000	40000	42000	44875	48500	47275	48000	53150	---	41000	
29000	---	---	40794	43772	47233	52677	54962	56209	58130	64519	45950	48694	
---	---	---	5886	6005	7646	10428	10969	13808	12957	12744	26941	11027	
1	0	138	190	159	110	89	68	47	21	2	825		
3-7	---	---	43050	50000	54125	59500	65250	68750	72000	65500	---	58000	
43500	31500	41000	46200	48000	53400	60000	53900	65200	58000	---	50000		
---	---	---	38000	41000	43000	44800	52250	48250	52250	47500	---	43000	
43500	31500	41131	45618	48787	52943	59018	58228	64507	56077	---	51446		
---	---	---	4564	7538	8505	9828	10408	17675	14450	12849	---	12250	
1	1	45	111	110	77	50	40	45	17	0	497		
8-12	---	---	48025	57000	60000	66700	69750	72000	79100	72600	---	65000	
---	---	---	43250	52500	56000	60800	58500	62000	75000	70000	42000	58000	
---	---	---	39900	48000	49250	52250	50475	60000	55800	58000	---	50000	
---	---	---	43960	52200	54404	60847	60828	66200	69024	66867	42000	58840	
---	---	---	7015	7238	10507	10094	15443	12732	12127	7788	---	12693	
0	0	10	27	45	53	36	23	17	3	1	215		
13-17	---	---	---	55250	69750	75000	78075	85000	87250	---	---	75000	
---	---	---	---	50750	62500	67000	62700	80000	67500	52700	---	63000	
---	---	---	---	47900	52250	59450	52250	62300	48550	---	---	54000	
---	---	---	---	51490	60565	67481	65438	76620	67425	52700	---	65184	
---	---	---	---	5817	12640	10391	16534	12337	19350	---	---	14500	
0	0	0	10	20	21	16	15	8	1	0	91		
18-22	---	---	---	55400	68000	78000	64750	82500	88500	82000	---	77875	
---	---	---	---	54800	63000	67000	61500	71000	79400	69500	---	65000	
---	---	---	---	51000	54000	58000	49325	65300	63750	52500	---	57500	
---	---	---	---	53733	61533	66900	59763	72743	77300	68000	---	66185	
---	---	---	---	2386	10414	12911	12645	8240	12680	16021	---	12808	
0	0	0	3	9	15	8	7	6	4	0	52		
23-32	---	---	---	58000	65000	66625	80000	84750	81250	78750	---	74250	
---	---	---	---	50200	64000	61100	70000	79000	71500	71000	60000	64450	
---	---	---	---	43000	58250	54750	60150	66750	63325	66250	---	57750	
---	---	---	---	50400	62677	61027	69946	75982	72183	72000	60000	65812	
---	---	---	---	7502	6346	9269	11685	11031	13841	6683	---	11297	
0	0	0	3	13	22	13	8	6	4	1	70		
33-47	---	---	---	---	92500	83750	85000	82000	84000	---	---	84000	
---	---	---	---	---	70000	72200	75000	80000	81000	82600	---	76000	
---	---	---	---	---	61500	62750	62500	70000	69000	---	---	65000	
---	---	---	---	---	75600	72650	70973	76029	77000	82600	---	74184	
---	---	---	---	---	16103	10291	20432	10687	9445	7920	---	13746	
0	0	0	0	5	12	11	7	6	2	0	43		
48-67	---	---	---	---	89100	81500	86625	90000	85000	96000	---	85000	
---	---	---	---	---	82000	72500	78750	85000	79800	82500	---	78000	
---	---	---	---	---	67500	69250	74950	67000	53500	70000	---	70000	
---	---	---	---	---	78000	79040	70042	80800	79800	73714	82833	75949	
---	---	---	---	---	11828	22672	8449	13755	15539	13003	---	16204	
0	0	0	1	5	12	6	5	7	3	0	39		
68-99	---	---	---	---	---	92000	90000	---	92000	---	---	90000	
---	---	---	---	---	67000	85000	79000	85000	90000	81000	---	81000	
---	---	---	---	---	---	76500	73400	---	72000	---	---	74700	
---	---	---	---	---	67000	85000	82500	82800	90000	81757	---	81924	
---	---	---	---	---	---	9147	8516	---	9052	---	---	8620	
0	0	0	1	1	4	3	1	7	0	0	17		
>=100	---	---	---	---	---	87450	94300	98000	95800	---	---	94300	
---	---	---	---	---	---	78600	85600	70000	94800	---	---	85600	
---	---	---	---	---	---	70625	12000	10600	87000	---	---	70000	
---	---	---	---	---	---	88000	79563	63967	59533	92533	---	74874	
---	---	---	---	---	---	10296	45214	44630	4818	---	---	25632	
0	0	1	0	1	8	3	3	3	0	0	19		
TOTAL	43500	---	42075	49000	56800	65000	67375	74500	78500	72478	57000	61000	
29000	32750	39600	44000	49150	56100	58000	60000	64000	63500	39400	50000		
21500	---	37500	40000	43350	48000	49000	49950	52000	51075	27425	42000		
31333	32750	40076	44850	50536	57323	59027	61388	65033	62476	41713	52979		
11184	1768	5510	7819	11126	13160	14609	16641	15793	15393	14968	14587		
3	2	274	441	426	392	284	217	195	80	8	2,322		

Table 2.4.4

SALARIES of FULL-TIME EMPLOYED Ph.D. CHEMISTS IN PRIVATE INDUSTRY  
 according to TOTAL NUMBER OF SUBORDINATES and YEARS SINCE BS  
 1986 Survey of ACS Members

TOTAL SUBORDINATES	YEARS SINCE BS										TOTAL		
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40 OR MORE			NO RESP
0	---	---	40000	45000	50000	55000	56725	62450	75750	68850	45200	52000-	75th %-ile
	21500	34000	38000	40500	45000	49000	49200	52000	58400	52150	32900	44000-	50th %-ile
	---	---	36000	37000	39850	44000	42500	45539	47500	44667	26750	38000-	25th %-ile
	21500	34000	37943	41799	45600	50173	51075	54449	60432	56295	34950	46903-	Mean
	---	---	3268	8639	10536	10757	12481	12156	17647	17389	9819	13064-	Std Dev
	1	1	77	89	52	51	42	33	37	22	4	409-	Count
1-2	---	---	43000	47000	51000	59875	61900	64000	68500	77200	---	55000	
	29000	---	39700	43000	47000	53000	54500	54000	59600	65000	45950	46300	
	---	---	38000	40000	42000	45000	48500	47000	50000	55175	---	41000	
	29000	---	40215	43842	47394	53322	55226	55642	59521	65804	45950	48885	
	---	---	4639	6189	7670	10458	11035	14276	12755	12866	26941	11268	
	1	0	139	190	161	108	89	71	47	24	2	832	
3-7	---	---	43150	50000	54375	59000	66000	72000	71250	63750	---	58450	
	43500	31500	41000	46000	48000	53000	60000	53900	64000	57500	---	49950	
	---	---	38850	41000	43000	44000	53000	46500	51650	46250	---	43000	
	43500	31500	42436	45582	48875	52508	59502	58373	63488	55332	---	51506	
	---	---	8473	7462	8455	9984	11041	18289	14438	12886	---	12458	
	1	1	45	113	108	79	47	40	50	16	0	500	
8-12	---	---	47300	55950	60000	67000	70500	75000	79050	72600	---	65000	
	---	---	42500	51250	55550	60800	60000	63000	75000	70000	42000	58000	
	---	---	35000	48000	48000	52000	52725	59925	54500	58000	---	50000	
	---	---	42691	51804	53459	60598	62065	66200	68879	66867	42000	58375	
	---	---	7550	6980	11022	10950	15203	13094	12452	7788	---	13116	
	0	0	11	28	46	51	34	24	14	3	1	212	
13-17	---	---	---	54750	70000	73775	76150	85750	83875	---	---	75000	
	---	---	40000	50750	63000	64250	60600	82000	63300	52700	---	62350	
	---	---	47100	57000	59175	50000	61725	47375	---	---	---	52925	
	---	---	40000	50833	61700	66560	62665	77093	63950	52700	---	63727	
	---	---	6040	12252	9834	17711	12631	19649	---	---	---	15008	
	0	0	1	12	19	20	17	14	10	1	0	94	
18-22	---	---	---	55400	68000	77625	65000	82600	90000	86000	---	77000	
	---	---	---	54800	63000	61000	64000	74250	78000	70000	---	64000	
	---	---	---	51000	55000	55750	54750	64475	60000	47000	---	56450	
	---	---	---	53733	61929	64906	62008	73533	75600	67667	---	65311	
	---	---	---	2386	11017	13129	8951	8844	15209	19604	---	12365	
	0	0	0	3	7	16	13	6	5	3	0	53	
23-32	---	---	---	60000	65000	64625	76000	84750	75500	76500	---	70000	
	---	---	---	58000	62500	60500	66500	72500	67550	70000	60000	63500	
	---	---	---	50200	54000	54000	53250	63500	61750	67000	---	55739	
	---	---	---	56067	61200	59868	64521	73232	67350	71400	60000	63631	
	---	---	---	5178	7002	9652	13526	12003	8869	5941	---	10612	
	0	0	0	3	17	22	14	8	6	5	1	76	
33-47	---	---	---	---	71250	78950	86250	80750	85000	---	---	84000	
	---	---	---	43000	54750	71000	74500	70500	84000	88200	---	72000	
	---	---	---	47075	61000	56750	58250	72000	---	---	---	58750	
	---	---	---	43000	59467	70194	71870	70275	79857	88200	---	70424	
	---	---	---	16674	11066	16514	11446	10931	---	---	---	14193	
	0	0	0	1	6	17	10	8	7	1	0	50	
48-67	---	---	---	---	95000	80000	86250	85500	82000	89250	---	82250	
	---	---	---	---	70000	72500	77000	80000	79800	77000	---	78000	
	---	---	---	---	65000	69250	73900	74000	53500	69000	---	70000	
	---	---	---	---	75714	68667	78078	79222	73400	78700	---	75041	
	---	---	---	---	15703	21385	11622	10121	15276	11256	---	15230	
	0	0	0	0	7	12	9	9	7	5	0	49	
68-99	---	---	---	---	---	80000	88750	---	85000	---	---	85000	
	---	---	---	---	84100	76000	82750	90000	80500	---	---	80250	
	---	---	---	---	50000	33025	---	73950	---	---	---	71375	
	---	---	---	---	84100	68257	68175	90000	80663	---	---	75182	
	---	---	---	---	1273	19178	34204	---	7472	---	---	18593	
	0	0	0	0	2	7	4	1	8	0	0	22	
>=100	---	---	---	---	---	92000	89950	98000	95550	---	---	93150	
	---	---	---	---	---	79200	73400	70000	93400	---	---	79200	
	---	---	50000	72500	88000	71250	37250	10600	88250	---	---	68500	
	---	---	---	---	---	81389	65560	59533	92400	---	---	75660	
	---	---	---	7778	---	11080	32277	44630	3943	---	---	23074	
	0	0	1	2	1	9	5	3	4	0	0	25	
TOTAL	43500	---	42075	49000	56800	65000	67375	74500	78500	72478	57000	61000	
	29000	32750	39600	44000	49150	56100	58000	60000	64000	63500	39400	50000	
	21500	---	37500	40000	43350	48000	49000	49950	52000	51075	27425	42000	
	31333	32750	40076	44850	50536	57323	59027	61388	65033	62476	41713	52979	
	11184	1768	5510	7819	11126	13160	14609	16641	15793	15393	14968	14587	
	3	2	274	441	426	392	284	217	195	80	8	2,322	

Table 2.4.5.

SALARIES OF FULL-TIME EMPLOYED PH.D. CHEMISTS IN PRIVATE INDUSTRY  
according to TYPE OF INDUSTRY and YEARS SINCE BS  
1986 Survey of ACS Members

TYPE OF INDUSTRY	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						
Agricultural chemicals	---	---	40000	48900	55000	75000	62900	72250	65050	66500	---	60000	- 75th %-ile			
	---	---	38400	43000	50000	65000	58000	61500	62650	58000	---	50000	- 50th %-ile			
	---	---	37700	39500	46050	49700	50000	51650	52500	50650	---	42250	- 25th %-ile			
	---	---	38830	43783	50370	62959	56876	61806	61713	59302	---	52216	- Mean			
	---	---	2407	5821	8542	14076	8941	14152	9688	11449	---	12655	- Std Dev			
	0	0	23	41	46	27	21	22	8	9	0	197	- Count			
Coatings	---	---	40000	53639	52250	70475	67000	78167	68325	---	---	57000				
	---	---	38500	44000	48500	57200	56000	51600	52100	75778	---	48000				
	---	---	38000	41250	42550	54525	46750	46509	43800	---	---	40500				
	---	---	37376	46618	47586	60224	55749	58417	55960	75778	---	50471				
	---	---	6113	8539	5657	10801	12278	19512	16438	5185	---	13493				
	0	0	17	21	22	10	13	12	10	2	0	107				
Food	---	---	41000	48600	53125	54500	65750	81000	89550	---	---	54625				
	---	---	39450	44750	49200	50000	55250	55000	66350	45000	26000	48000				
	---	---	29375	35500	41550	46000	44250	51000	53125	---	---	41000				
	---	---	36233	42208	49988	50233	56875	61429	69675	45000	26000	50998				
	---	---	6975	7474	11107	7750	13655	25825	19786	---	---	15324				
	0	0	6	12	8	15	12	7	4	1	1	66				
Metals	---	---	37500	45000	56950	54750	78175	65500	78500	---	---	56450				
	---	---	36800	36000	49000	49000	46550	58078	62300	---	---	48000				
	---	---	36000	34100	44975	44550	36525	48750	42275	---	---	38625				
	---	---	36767	39211	50830	49425	53760	59082	61025	---	---	49971				
	---	---	751	7343	8030	6758	23089	10769	18811	---	---	12987				
	0	0	3	9	10	8	4	8	4	0	0	46				
Paper	---	---	41000	37000	---	78000	58000	80750	92000	---	---	64500				
	---	---	38000	36700	50500	64000	65000	62000	69000	69000	---	50000				
	---	---	37100	29000	---	49000	50000	43000	47875	---	---	40500				
	---	---	39143	34233	50500	62214	54943	61900	69625	69000	---	54697				
	---	---	2883	4535	8910	14770	5423	21025	24743	12728	---	16967				
	0	0	7	3	2	7	7	5	4	2	0	37				
Petroleum	---	---	45100	54000	65000	77200	77000	83000	77750	72475	---	71750				
	---	34000	41000	49800	53500	67000	68500	78000	70900	66500	65000	60000				
	---	---	39500	45000	46225	61100	61000	71750	65350	60750	---	47575				
	---	34000	42526	50181	54991	68479	67874	78000	71161	66575	65000	59764				
	---	---	5977	7272	12470	10513	13493	11144	11072	6136	---	15077				
	0	1	23	42	34	29	23	17	18	4	1	192				
Pharmaceuticals	---	---	42150	47700	60000	67000	72150	67250	79500	75300	---	62000				
	21500	---	40000	43000	50000	57400	61000	57500	72500	69000	51000	50000				
	---	---	38000	41000	43000	50000	50000	49750	60000	53350	---	42000				
	21500	---	39990	45244	51759	59046	60810	58550	70118	65765	51000	53365				
	---	---	3450	6752	14802	14859	17232	17355	15547	14633	12728	15782				
	1	0	61	77	76	74	49	26	28	17	2	411				
Rubber	---	---	40025	41250	---	70000	62500	66500	85600	---	---	60000				
	---	---	37000	39500	45250	57050	54300	52350	68000	71200	---	45500				
	---	---	36000	39000	---	43500	47150	47775	51600	---	---	39500				
	---	---	38117	40000	45250	56850	54650	55967	68400	71200	---	51170				
	---	---	3047	1265	354	15188	8195	9850	17004	24042	---	14185				
	0	0	6	6	2	4	4	6	3	2	0	33				
Soaps	---	---	38550	43900	60500	63250	81625	49750	---	---	---	56500				
	---	---	37800	41450	44250	57000	70250	47500	56500	53111	---	43300				
	---	---	35925	39950	36800	47500	46500	43000	---	---	---	37550				
	---	---	37510	42408	49360	55500	66125	46750	56500	53111	---	48210				
	---	---	1929	4612	15911	14350	18958	3584	2121	26713	---	13602				
	0	0	10	12	10	10	4	4	2	2	0	54				
Biochemical products	---	---	42000	51000	57125	54000	59500	60200	58500	88250	---	53625				
	---	---	38000	42000	49500	47700	50100	55100	52300	58000	48000	46150				
	---	---	36000	37500	43300	36000	47500	50000	50000	50250	---	40000				
	---	---	39768	43276	50097	47362	54233	55100	53860	65500	48000	47518				
	---	---	6239	8682	11407	12685	9713	5899	4685	21455	---	11458				
	0	0	19	29	30	13	9	4	5	4	1	114				
Electronics	---	---	47250	52000	51875	62250	70000	83750	76850	73350	---	58500				
	---	---	43000	48000	46400	58000	54400	69500	61500	64000	---	50000				
	---	---	40525	45000	42925	48500	46000	56500	51500	47900	---	43900				
	---	---	43644	48661	47581	57276	59013	70375	63800	61300	---	53550				
	---	---	4312	8590	6790	12114	15051	13233	17421	12893	---	13077				
	0	0	18	33	16	17	15	8	9	5	0	121				
Other chemicals	---	---	42700	45200	55000	64000	65500	76500	81000	75250	---	60000				
	29000	---	39000	43400	48500	55000	56600	60000	61350	56000	---	49650				
	---	---	37500	40000	43400	48000	48900	45000	49625	45625	---	42925				
	29000	---	39934	43053	50175	56904	60089	61249	64114	58025	---	53248				
	---	---	3429	5003	9396	12313	14831	18672	16774	18516	---	14563				
	1	0	35	83	79	91	54	43	42	16	0	444				
Other products	---	---	43000	49925	58375	61000	68000	67475	75000	72750	---	62475				
	43500	---	39800	44200	48000	54000	57000	59000	61500	64750	31850	51150				
	---	---	37150	38500	42250	45300	49000	48750	51500	51500	---	43000				
	43500	---	40012	43574	50386	54097	59115	58864	64535	63071	31850	53580				
	---	---	4764	7128	10367	10372	13314	13432	15143	14249	7000	13696				
	1	0	34	50	64	67	53	42	49	14	2	376				
Non-mfg	---	---	43900	53500	55400	60000	58950	73500	83500	---	---	60000				
	---	31500	40450	47000	48700	50000	48900	68000	61000	58500	29000	48000				
	---	---	36000	36500	38700	42250	34000	45200	47000	---	---	39075				
	---	---	31500	44158	47361	48707	52710	49206	60608	62889	58500	29000	50865			
	---	---	15303	14809	12185	13777	16856	18842	20991	31820	---	16253				
	0	1	12	23	27	20	16	13	9	2	1	124				
TOTAL	43500	---	42075	49000	56800	65000	67375	74500	78500	72478	57000	61000				
29000	---	39600	44000	49150	56100	58000	60000	64000	63500	39400	50000	50000				
21500	---	37500	40000	43350	48000	49000	49950	52000	51075	27425	42000	42000				
31333	---	40076	44850	50536	57323	59027	61388	65033	62476	41713	52979	52979				
11184	---	1768	5510	7819	11126	13160	14609	16641	15793	15393	14968	14687				
	3	2	274	441	426	392	284	217	195	80	8	2,322				

Table 2.4.6

SALARIES of FULL-TIME EMPLOYED Ph.D. CHEMISTS IN PRIVATE INDUSTRY  
according to GEOGRAPHIC REGION and YEARS SINCE BS  
1986 Survey of ACS Members

GEOGRAPHIC 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	---	---	44750	51000	59300	70000	70000	80625	81250	81000	---	63000	- 75th %-ile
	---	31500	40250	42500	51000	59300	58000	66250	69500	55000	60000	51500	- 50th %-ile
	---	---	36800	39050	45700	50000	51000	53000	50000	50000	---	44000	- 25th %-ile
	---	31500	42982	45469	52755	59430	59248	66807	65786	65171	60000	54685	- Mean
	---	---	11786	12128	10106	14844	15084	18087	17521	18165	---	15726	- Std Dev
	0	1	22	49	60	27	31	22	21	7	1	241	- Count
Mountain	---	---	47025	44950	47000	72700	52625	---	57750	68000	---	55050	
	---	---	42700	40200	44900	55200	47500	57039	52300	64000	27950	47500	
	---	---	40475	31750	32000	49000	29250	---	49500	51300	---	40150	
	---	---	43400	39667	43529	60178	43125	57039	53360	61100	27950	48821	
	---	---	3479	9166	10880	18212	13219	15501	4952	8720	1485	14403	
	0	0	4	6	7	9	4	2	5	3	2	42	
W.N. Central	---	---	42500	48000	55000	65500	60000	93500	61325	---	---	58050	
	---	---	39800	40500	47000	56450	56500	62000	52500	---	---	48000	
	---	---	37475	37000	41500	49950	43575	45000	48125	---	---	40750	
	---	---	39488	42761	49421	57973	55181	65786	53525	---	---	50619	
	---	---	3944	6038	10207	11509	11955	20868	9936	---	---	12564	
	0	0	16	23	29	26	16	7	8	0	0	125	
W.S. Central	---	---	40200	52400	57625	75375	73750	78222	76000	70000	---	66250	
	---	34000	38000	46700	49000	61100	62200	69500	67000	60000	---	54000	
	---	---	35000	42000	40000	53000	53500	54500	61500	45222	---	43875	
	---	34000	38133	46940	50070	62461	62517	66133	66946	58407	---	55769	
	---	---	3249	6272	11862	12464	14882	16390	14135	12466	---	14896	
	0	1	15	35	30	38	24	19	13	3	0	178	
E.N. Central	43500	---	41000	47625	55875	60950	67500	70000	72475	78000	---	58200	
	29000	---	38900	43000	49900	53750	55500	55000	59650	65000	26000	48000	
	21500	---	37000	40000	43475	44175	49125	48000	50250	51300	---	41200	
	31333	---	39273	43755	50295	55050	58799	58498	60890	64185	26000	51502	
	11184	---	3721	7142	8946	13262	13654	16620	16346	15458	---	13917	
	3	0	59	106	80	80	68	47	40	19	1	503	
E.S. Central	---	---	39450	---	58200	61800	73400	77750	90750	76000	---	64000	
	---	---	38150	46250	46300	53000	44000	62500	71000	64000	---	51650	
	---	---	34075	---	42700	47500	27000	51750	49000	54025	---	44000	
	---	---	37225	46250	52922	55846	48133	64000	70250	64675	---	55446	
	---	---	2980	3182	17040	14805	23475	13736	21624	11458	---	16636	
	0	0	4	2	9	14	3	4	4	4	0	44	
Mid-Atlantic	---	---	43100	50000	55725	62750	70000	79500	79400	72950	---	60000	
	---	---	40000	44300	49200	55000	59250	60000	68500	63000	65000	50000	
	---	---	38000	40250	43000	47000	48500	50000	55300	50000	---	42000	
	---	---	41036	45549	49755	55619	59670	62069	67768	62914	65000	52704	
	---	---	4801	7125	11750	13130	14028	18375	14983	15295	---	14406	
	0	0	85	145	120	108	70	55	53	25	1	662	
So. Atlantic	---	---	41475	50000	54000	64200	65000	69000	80000	78750	---	60825	
	---	---	38450	43600	47500	57950	58000	60000	62700	61400	48000	50000	
	---	---	37075	40000	42000	48825	46000	50000	52300	44500	---	42000	
	---	---	38757	44818	48819	57170	57498	60551	65919	59930	48000	52809	
	---	---	4922	6498	10066	12284	16910	14419	16404	20760	---	14923	
	0	0	46	43	47	54	39	37	31	10	1	308	
New England	---	---	43000	52500	62100	69000	68250	60000	84375	70000	---	63000	
	---	---	40000	44500	50250	59000	60000	50200	76000	60000	39400	53000	
	---	---	37250	38900	43000	53000	52750	47800	53375	50000	---	43000	
	---	---	39940	45212	53814	59735	62432	54689	69975	59222	39400	54737	
	---	---	5244	8815	14001	12048	14857	11993	15917	14757	3677	14846	
	0	0	20	26	36	31	22	19	16	9	2	181	
No Response	---	---	45000	46500	66000	72000	74000	75500	76075	---	---	68000	
	---	---	42000	40750	48100	65000	63500	71000	62150	---	---	56100	
	---	---	35000	35750	43000	51500	49000	49850	59250	---	---	43000	
	---	---	40667	41417	52600	62400	62229	64340	65825	---	---	55892	
	---	---	5132	5953	11376	10621	11499	16309	9726	---	---	13766	
	0	0	3	6	8	5	7	5	4	0	0	38	
TOTAL	43500	---	42075	49000	56800	65000	67375	74500	78500	72478	57000	61000	
	29000	32750	39600	44000	49150	56100	58000	60000	64000	63500	39400	50000	
	21500	---	37500	40000	43350	48000	49000	49950	52000	51075	27425	42000	
	31333	32750	40076	44850	50536	57323	59027	61388	65033	62476	41713	52979	
	11184	1768	5510	7819	11126	13160	14609	16641	15793	15393	14968	14587	
		3	2	274	441	426	392	284	217	195	80	8	2,322

Table 3.1.1

SALARIES of FULL-TIME EMPLOYED B.S. CHEMISTS IN GOVERNMENT  
according to WORK FUNCTION and YEARS SINCE BS  
1986 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	---	---	---	---	---	---	76200	---	---	---	---	59750	- 75th %-ile
	---	---	24000	40100	50300	50000	50000	---	---	---	---	46950	- 50th %-ile
	---	---	---	---	---	---	43900	---	---	---	---	38225	- 25th %-ile
	---	---	24000	40100	50300	50000	56700	---	---	---	---	48100	- Mean
	---	---	---	---	17961	---	17161	---	---	---	---	15998	- Std Dev
	0	0	1	1	2	1	3	0	0	0	0	8	- Count
Basic Research	---	---	---	38850	39500	---	---	43700	---	---	---	40000	
	---	22200	30000	34200	34900	39500	38050	38000	29000	---	---	34800	
	---	---	---	29325	26625	---	---	32900	---	---	---	29500	
	---	22200	30000	34125	33675	39500	38050	38240	29000	---	---	34329	
	---	5940	---	4957	7123	13435	4313	6072	---	---	---	7445	
	0	2	1	4	4	2	2	5	1	0	0	21	
Applied Research	---	---	35850	38900	---	45200	53500	47000	60000	---	---	45650	
	---	21000	27400	36200	34050	41000	48200	40700	57000	34000	---	38000	
	---	---	24500	24800	---	36200	41000	32400	54000	---	---	29200	
	---	21000	29620	32720	34050	40800	47567	40033	57000	34000	---	38115	
	---	---	6098	7342	6010	4503	6274	7323	3000	---	---	10705	
	0	1	5	5	2	3	3	3	3	1	0	26	
General Mgt	---	20800	35000	46000	44000	52050	51800	---	64250	54000	---	48100	
	---	20100	28750	35000	37450	43550	41000	43600	45950	48000	---	38000	
	---	19250	23875	29000	32550	33750	38600	---	38750	28600	---	29000	
	---	20050	29500	36567	39050	43383	44360	43600	49650	43533	---	38202	
	---	823	6017	9389	10716	8926	6956	6505	13844	13276	---	11524	
	0	4	6	9	6	6	5	2	4	3	0	45	
Marketing	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	---	57000	---	---	---	57000	
	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	---	57000	---	---	---	57000	
	0	0	0	0	0	0	0	1	0	0	0	1	
Prod & QC	---	---	31550	27500	---	40875	---	---	---	---	---	33600	
	---	21350	28200	25250	35700	28300	41800	---	---	42000	---	28100	
	---	---	22900	20375	---	23900	---	---	---	---	---	24500	
	---	21350	27550	24375	35700	31025	41800	---	---	42000	---	30079	
	---	6293	4703	3860	5233	9711	11597	---	---	---	---	8779	
	0	2	4	4	2	4	2	0	0	1	0	19	
Forensics	---	23000	24250	31800	40150	38950	47500	---	43550	---	---	35000	
	21000	18900	20000	30000	37000	29000	41000	36150	31800	---	---	26000	
	---	18100	18750	24400	29950	26000	41000	---	28150	---	---	20000	
	21000	19791	22238	29827	35440	31780	43167	36150	34500	---	---	27851	
	---	3049	5682	6247	6288	6693	3753	2616	8542	---	---	8670	
	1	11	13	11	5	5	3	2	4	0	0	55	
Writing	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	35000	---	---	---	---	---	---	---	---	35000	
	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	35000	---	---	---	---	---	---	---	---	35000	
	---	---	4243	---	---	---	---	---	---	---	---	4243	
	0	0	2	0	0	0	0	0	0	0	0	2	
Chemical Information	---	---	---	---	---	---	---	---	---	---	---	53300	
	---	19700	---	---	53300	---	---	---	27000	---	---	27000	
	---	---	---	---	---	---	---	---	---	---	---	19700	
	---	19700	---	---	53300	---	---	---	27000	---	---	33333	
	---	---	---	---	---	---	---	---	---	---	---	17673	
	0	1	0	0	1	0	0	0	1	0	0	3	
Computer	---	---	---	---	---	---	---	---	---	---	---	---	
	---	23650	---	---	---	---	---	---	---	---	---	23650	
	---	---	---	---	---	---	---	---	---	---	---	---	
	---	23650	---	---	---	---	---	---	---	---	---	23650	
	---	8697	---	---	---	---	---	---	---	---	---	8697	
	0	2	0	0	0	0	0	0	0	0	0	2	
Consulting	---	---	---	---	---	---	---	---	---	---	---	31500	
	---	15000	23000	25000	---	27000	---	---	36000	---	---	25000	
	---	---	---	---	---	---	---	---	---	---	---	19000	
	---	15000	23000	25000	---	27000	---	---	36000	---	---	25200	
	---	---	---	---	---	---	---	---	---	---	---	7563	
	0	1	1	1	0	1	0	0	1	0	0	5	
Other	---	27200	32000	37000	37300	38000	---	80800	---	---	---	34925	
	---	23500	26500	31000	31000	37900	21300	48000	26900	33000	---	28900	
	---	16500	24600	23300	29800	28000	---	26525	---	---	---	24625	
	---	22400	26600	30320	32700	34633	21300	51775	26900	33000	---	31975	
	---	5434	6507	7065	4029	5745	---	28708	---	---	---	14019	
	0	3	7	5	3	3	1	4	1	1	0	28	
TOTAL	---	23300	31900	36800	39700	45050	50000	47800	54000	49500	---	40000	
	21000	19700	25750	30500	37000	37900	41100	39000	38000	---	---	32000	
	---	18000	22250	25000	31500	28300	40000	33300	28600	31900	---	24600	
	21000	20563	26440	31788	37508	37024	44479	43229	41767	39933	---	33557	
	---	3822	6353	7594	9296	9158	10951	14819	13636	9787	---	11784	
	1	27	40	40	25	25	19	17	15	6	0	215	

Table 3.1.2

SALARIES of FULL-TIME EMPLOYED M.S. CHEMISTS IN GOVERNMENT  
according to WORK FUNCTION and YEARS SINCE BS  
1986 Survey of ACS Members

WORK FUNCTION	YEARS SINCE BS										No Resp	TOTAL		
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40				
Mgt-R&D	---	---	---	---	---	60000	---	53000	---	---	---	53000	- 75th %-ile	
	---	---	---	36000	34700	49000	54000	53000	---	40500	---	52100	- 50th %-ile	
	---	---	---	---	---	44000	---	52100	---	---	---	41375	- 25th %-ile	
	---	---	---	36000	34700	51000	54000	52640	---	40500	---	48450	- Mean	
	---	---	---	---	---	8185	---	805	---	---	---	7874	- Std Dev	
	0	0	0	1	1	3	1	5	0	1	0	12	- Count	
Basic Research	---	---	32000	---	---	42200	43475	57000	47950	---	---	44200		
	---	25650	14900	39950	38350	36000	41150	45200	44550	---	---	41000		
	---	---	13400	---	---	34800	41000	40000	41750	---	---	33700		
	---	25650	20100	39950	38350	37667	41875	47400	44750	---	---	37822		
	---	919	10333	7425	6576	3972	1556	8711	3264	---	---	10261		
	0	2	3	2	2	3	4	3	4	0	0	23		
Applied Research	---	---	33500	42200	---	42500	60100	---	---	---	---	43500		
	---	29800	28000	38000	42700	39500	46700	19750	50500	---	30700	35400		
	---	---	23850	31100	---	35575	34500	---	---	---	---	31025		
	---	29800	28540	36920	42700	39283	47100	19750	50500	---	30700	37064		
	---	---	5754	5905	10889	3621	14073	18031	2121	---	---	11044		
	0	1	5	5	2	6	4	2	2	0	1	28		
General Mgt	---	---	---	---	42600	48775	---	---	67500	---	---	50000		
	---	30000	26500	32350	32000	39000	41000	63500	58000	47150	---	41500		
	---	---	---	---	26000	35250	---	---	44000	---	---	32000		
	---	30000	26500	32350	33840	40783	41000	63500	56200	47150	---	43054		
	---	---	---	2333	10263	6753	12728	6364	11883	1202	---	13107		
	0	1	1	2	5	6	2	2	5	2	0	26		
Marketing	---	---	---	---	---	---	---	---	---	---	---	---		
	---	---	---	---	---	---	---	---	---	---	---	---		
	---	---	---	---	---	---	---	---	---	---	---	---		
	---	---	---	---	---	---	---	---	---	---	---	---		
	---	---	---	---	---	---	---	---	---	---	---	---		
	0	0	0	0	0	0	0	0	0	0	0	0		
Prod & QC	---	---	28000	---	---	33500	---	---	---	---	---	29375		
	---	---	26300	26500	---	28000	---	39000	20000	---	---	26700		
	---	---	24000	---	---	26400	---	---	---	---	---	25500		
	---	---	26100	26500	---	29300	---	39000	20000	---	---	27820		
	---	---	2007	707	---	3724	---	---	---	---	---	5179		
	0	0	3	2	0	3	0	1	1	0	0	10		
Forensics	---	---	32000	37000	35050	37950	---	---	---	---	---	36500		
	---	22300	26400	27000	31500	30000	---	57000	53000	---	---	31000		
	---	---	24000	26000	29000	24900	---	---	---	---	---	26200		
	---	22300	27467	30829	32060	31140	---	57000	53000	---	---	33097		
	---	---	4105	6978	4822	6744	---	---	15556	---	---	9637		
	0	1	3	7	10	5	0	1	2	0	0	29		
Writing	---	---	---	---	---	---	---	---	---	---	---	---		
	---	---	---	29000	---	---	---	39000	---	---	---	34000		
	---	---	---	---	---	---	---	---	---	---	---	---		
	---	---	---	29000	---	---	---	39000	---	---	---	34000		
	---	---	---	---	---	---	---	---	---	---	---	7071		
	0	0	0	1	0	0	0	1	0	0	0	2		
Chemical Information	---	---	---	---	---	---	---	---	---	---	---	---		
	---	---	---	---	---	---	---	---	61000	---	---	61000		
	---	---	---	---	---	---	---	---	---	---	---	---		
	---	---	---	---	---	---	---	---	61000	---	---	61000		
	---	---	---	---	---	---	---	---	---	---	---	---		
	0	0	0	0	0	0	0	0	1	0	0	1		
Computer	---	---	---	---	---	---	---	---	---	---	---	45100		
	---	---	36050	---	35800	47600	---	---	---	---	---	36700		
	---	---	---	---	---	---	---	---	---	---	---	34825		
	---	---	36050	---	35800	47600	---	---	---	---	---	38875		
	---	---	2192	---	---	---	---	---	---	---	---	5954		
	0	0	2	0	1	1	0	0	0	0	0	4		
Consulting	---	---	---	35800	---	---	---	---	---	---	---	35800		
	---	---	---	25000	---	---	---	---	---	---	---	25000		
	---	---	---	23900	---	---	---	---	---	---	---	23900		
	---	---	---	28233	---	---	---	---	---	---	---	28233		
	---	---	---	6576	---	---	---	---	---	---	---	6576		
	0	0	0	3	0	0	0	0	0	0	0	3		
Other	---	---	---	---	---	---	---	---	51333	---	---	43525		
	---	---	24000	34900	39650	34300	30700	27300	31600	36500	---	31150		
	---	---	---	---	---	---	---	---	18000	---	---	25000		
	---	---	24000	34900	39650	34300	30700	27300	33644	36500	---	33095		
	---	---	1414	11455	7707	---	---	---	16760	16263	---	10159		
	0	0	2	2	2	1	1	1	3	2	0	14		
TOTAL	---	29900	32000	37500	35800	43550	53000	56000	58750	48000	---	44350		
	---	26300	26500	32700	34700	36500	41150	52100	47450	46300	30700	35500		
	---	23650	24000	26900	30000	33700	34500	39000	41750	32750	---	29000		
	---	26680	26858	32700	34857	38282	43550	45888	47163	41560	30700	37362		
	---	3275	6386	6771	7165	8162	10056	14845	14152	9757	---	11471		
	---	---	---	---	---	---	---	---	---	---	---	---	---	
	0	5	19	25	23	28	12	16	18	5	1	152		

Table 3.1.3

SALARIES of FULL-TIME EMPLOYED Ph.D. CHEMISTS IN GOVERNMENT  
according to WORK FUNCTION and YEARS SINCE BS  
1986 Survey of ACS Members

WORK FUNCTION	YEARS SINCE BS										No Resp	TOTAL	
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>=40			
Mgt-R&D	---	---	---	55000	56500	57950	63100	66200	68500	---	---	64800	- 75th %-ile
	---	---	---	41000	53000	54000	56500	60900	67000	68000	---	56500	- 50th %-ile
	---	---	---	29000	45000	46150	51900	43200	61350	---	---	50000	- 25th %-ile
	---	---	---	41667	51256	52952	57938	56136	65208	68000	---	55953	- Mean
	---	---	---	13013	6765	6573	7791	12560	5092	---	---	9519	- Std Dev
	0	0	0	3	9	25	13	11	13	1	0	75	- Count
Basic Research	---	---	38000	45750	50150	52000	56300	55000	65500	64500	---	54850	
	---	---	35000	40250	42600	45500	48700	50000	57800	55850	28000	47000	
	---	---	31600	34350	36850	39000	43500	45000	53350	47750	---	39000	
	---	---	35933	39765	43752	45862	50632	52384	57315	54350	28000	47056	
	---	---	5934	7765	8300	8854	8580	10953	11684	11222	---	11119	
	0	0	15	20	25	29	19	31	13	12	1	165	
Applied Research	---	---	44975	42300	47650	53000	48000	56250	62000	69475	---	52000	
	---	28500	32850	41300	42600	45000	39500	50400	54900	61950	---	45000	
	---	---	25750	37600	34550	39500	37900	46425	47025	37250	---	38000	
	---	28500	35350	40657	41277	48010	42830	51679	54138	56225	---	45632	
	---	---	9888	2756	8584	12225	7371	8302	9149	17911	---	11089	
	0	1	8	7	13	10	10	14	8	4	0	75	
General Mgt	---	---	---	---	46375	58850	52250	66525	65500	55000	---	55350	
	---	---	44000	47000	41350	51000	46050	50000	52000	53000	---	47050	
	---	---	---	---	33700	45000	40350	39625	39000	35000	---	40000	
	---	---	44000	47000	40467	52333	47317	52050	51760	47667	---	48726	
	---	---	---	---	8162	9399	8752	14642	14430	11015	---	10911	
	0	0	1	1	6	9	12	4	10	3	0	46	
Marketing	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	---	---	---	---	---	---	
	0	0	0	0	0	0	0	0	0	0	0	0	
Prod & QC	---	---	---	---	---	---	---	---	---	---	---	52525	
	---	---	---	---	42000	---	49350	---	---	38000	---	42500	
	---	---	---	---	---	---	---	---	---	---	---	39000	
	---	---	---	---	42000	---	49350	---	---	38000	---	44675	
	---	---	---	---	---	---	8980	---	---	---	---	7661	
	0	0	0	0	1	0	2	0	0	1	0	4	
Forensics	---	---	---	---	37350	44000	---	---	---	---	---	45000	
	---	---	28000	---	30000	39000	49500	44000	25000	---	---	34650	
	---	---	---	---	25750	29000	---	---	---	---	---	28375	
	---	---	28000	---	31240	38114	49500	44000	25000	---	---	36833	
	---	---	---	---	7339	10044	2121	9192	---	---	---	10057	
	0	0	1	0	5	7	2	2	1	0	0	18	
Writing	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	45000	---	---	---	---	45000	
	---	---	---	---	---	---	45000	---	---	---	---	45000	
	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	---	---	---	---	---	---	
	0	0	0	0	0	0	1	0	0	0	0	1	
Chemical Information	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	26000	---	35000	---	---	---	---	---	---	30500	
	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	26000	---	35000	---	---	---	---	---	---	30500	
	---	---	---	---	---	---	---	---	---	---	---	6364	
	0	0	1	0	1	0	0	0	0	0	0	2	
Computer	---	---	---	---	---	---	---	---	---	---	---	52000	
	---	---	---	28000	42000	48000	---	39000	57000	---	---	44000	
	---	---	---	---	---	---	---	---	---	---	---	36000	
	---	---	---	28000	42000	48000	---	39000	57000	---	---	43429	
	---	---	---	---	8485	5657	---	---	---	---	---	9931	
	0	0	0	1	2	2	0	1	1	0	0	7	
Consulting	---	---	---	---	---	---	---	---	---	---	---	44400	
	---	---	44400	---	---	37600	---	---	---	38700	---	38700	
	---	---	---	---	---	---	---	---	---	---	---	37600	
	---	---	44400	---	---	37600	---	---	---	38700	---	40233	
	---	---	---	---	---	---	---	---	---	---	---	3650	
	0	0	1	0	0	1	0	0	0	1	0	3	
Other	---	---	---	---	49400	54000	67050	---	56000	---	---	57000	
	---	---	---	---	44500	48000	51500	39000	48900	54000	---	48000	
	---	---	---	---	44500	43150	40250	---	47000	---	---	42850	
	---	---	---	---	46133	48460	52750	39000	50633	54000	---	49886	
	---	---	---	---	2829	6277	13190	---	4744	---	---	9197	
	0	0	0	0	3	5	8	1	3	1	0	21	
No Response	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	22200	---	---	---	---	---	---	---	---	22200	
	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	22200	---	---	---	---	---	---	---	---	22200	
	---	---	---	---	---	---	---	---	---	---	---	---	
	0	0	1	0	0	0	0	0	0	0	0	1	
TOTAL	---	---	42625	45000	50000	55950	56500	60675	67000	66000	---	56000	
	---	28500	34350	40750	42600	48000	49100	50650	57800	54000	28000	47550	
	---	---	28250	36600	35300	41250	42000	45000	48450	38700	---	40000	
	---	28500	35046	39997	42925	48268	50388	52173	56682	52991	28000	48006	
	---	---	7744	7482	8868	9457	9686	10881	11913	12422	---	11484	
	0	1	28	32	65	88	67	64	49	23	1	418	



Table 4.1.1

SALARIES of FULL-TIME EMPLOYED Ph.D. CHEMISTS IN COLLEGE/UNIVERSITY  
according to ACADEMIC RANK and TYPE OF INSTITUTION  
1986 Survey of ACS Members

SCHOOL	ACADEMIC RANK							TOTAL	
	Full prof.	Assoc. prof.	Asst. prof.	Instr.	Res. Assoc.	Unranked	No Resp.		
Medical or prof. School	73600	48945	39800	39000	35675	56894	44600	56000	- 75th %-ile
	60000	41000	34000	32800	23000	41067	40000	42000	- 50th %-ile
	50000	39000	30000	27000	20000	31900	40000	33900	- 25th %-ile
	61613	42383	35971	33305	26983	45314	41533	46407	- Mean
	15595	7643	11936	7820	9235	17405	2656	17764	- Std Dev
	56	25	23	19	12	13	3	151	- Count
Associate	46139	47167	34283	---	---	48278	---	46483	
	39356	36667	29667	37584	---	43695	50950	39111	
	34833	31961	27409	---	---	39028	---	33703	
	40882	39187	29799	37584	---	43627	50950	40173	
	9880	8958	4844	23767	---	7295	6152	9626	
	16	14	8	2	0	20	2	62	
Bachelors	48889	39111	30556	27684	---	24444	---	43542	
	42717	34283	27500	26278	22000	23222	40000	36667	
	36667	30770	25667	24933	---	13200	---	29333	
	43670	34864	28014	26794	22000	20289	40000	37572	
	9616	6630	3779	3402	---	6169	28284	10379	
	164	88	63	9	1	3	2	330	
Masters	52830	42167	32756	36728	---	---	---	50028	
	47728	37033	29333	26000	32350	---	69500	43328	
	42778	33000	27011	24444	---	---	---	34806	
	48043	38808	29612	29669	32350	---	69500	42818	
	7375	8886	3764	8323	21708	---	---	10565	
	100	33	25	5	2	0	1	166	
Doctorate	67222	46239	35458	35000	36000	---	57250	59945	
	57444	40333	32395	30556	29000	42000	47900	47667	
	49622	36667	29731	27300	22000	---	34600	36361	
	58881	41220	32901	32375	29148	42000	46258	48747	
	14085	7128	4576	7064	8682	---	13459	16523	
	363	113	86	31	47	1	12	653	
TOTAL	62333	43511	34000	35625	36000	48889	57325	53289	
	51333	38500	30556	29667	28200	41555	47200	42655	
	43633	33000	27289	25917	20750	33306	40000	33336	
	53569	38882	31221	31835	28717	42283	46555	44667	
	14297	7866	6181	7747	9047	13259	13712	15204	
	699	273	205	66	62	37	20	1,362	

Table 4.1.2

SALARIES of FULL-TIME Ph.D. ACADEMIC CHEMISTS  
according to ACADEMIC RANK and GEOGRAPHIC REGION  
1986 Survey of ACS Members

GEOGRAPHIC REGION	ACADEMIC RANK							TOTAL	
	Full prof.	Assoc. prof.	Asst. prof.	Instr.	Res. Assoc.	Unranked	No Resp		
Pacific	77391	50000	42778	54389	45700	58667	---	67466	- 90th %-ile
	53778	37278	34711	35500	30500	45222	44100	46444	- 50th %-ile
	40547	29297	22150	---	19150	---	---	27720	- 10th %-ile
	55407	39899	33160	35835	30783	47191	46550	46899	- Mean
	14203	8526	6660	10830	9652	5219	7885	15085	- Std Dev
	75	22	14	9	12	9	4	145	- Count
Mountain	67000	47300	36147	---	---	---	---	58667	
	48889	38945	29333	30556	25000	37750	28000	40944	
	37155	28583	24666	---	---	---	---	27556	
	50364	38231	29985	29419	30233	37311	28000	42253	
	10726	6055	4017	3974	15526	3832	---	12451	
	39	12	13	3	3	4	1	75	
W.N. Central	72367	40272	35873	---	---	---	---	65200	
	47055	33306	31067	26523	24000	44978	48400	36667	
	34564	27250	23895	---	---	---	---	25226	
	50803	34209	31119	28408	28500	46322	48400	41674	
	15728	5259	10783	6002	11930	12490	---	15675	
	62	24	24	8	4	4	1	127	
W.S. Central	77222	45900	39800	---	---	---	---	65322	
	51000	39478	31778	25972	28400	39111	40000	40333	
	30778	28655	27500	---	---	---	---	28342	
	52821	38651	32279	32731	27680	40519	40000	44226	
	16098	6358	3727	12627	6076	4669	---	15210	
	64	26	19	6	5	6	1	127	
E.N. Central	73013	47099	42850	45900	---	---	---	67222	
	47667	37945	30189	31389	26600	32306	40400	41600	
	37889	30532	26168	23433	---	---	---	27700	
	51855	39497	32041	32430	26025	41989	40400	44566	
	14968	9313	6158	6998	6320	23541	10748	15466	
	125	38	32	12	8	6	2	223	
E.S. Central	62560	49600	---	---	---	---	---	60000	
	49000	35444	28356	26500	---	45834	46750	39111	
	35933	28211	---	---	---	---	---	26889	
	49147	37287	29511	28778	---	45834	46750	42657	
	11716	8266	5466	5962	---	18149	32173	12895	
	47	27	8	5	0	2	2	91	
Mid-Atlantic	70584	51370	38231	---	43740	---	---	67222	
	52278	40267	30556	27500	29167	---	58000	44000	
	40289	30312	25667	---	22690	---	---	27000	
	54608	40591	31213	30764	30761	---	58000	45142	
	13062	8003	5532	8070	7301	---	4243	14672	
	114	48	43	8	12	0	2	227	
So. Atlantic	73333	48498	37267	---	39140	---	---	65924	
	55000	39111	29972	32800	22000	44000	40000	42778	
	40516	30605	22620	---	10800	---	---	26771	
	55831	39048	30213	32075	26431	38842	40000	45060	
	13359	6947	5406	3413	11091	19887	20000	15701	
	112	53	36	5	13	5	3	227	
New England	78678	52849	39111	46000	---	---	---	69911	
	55244	41006	29972	30000	32000	24300	47800	46039	
	42800	26449	26472	---	---	---	---	28600	
	58238	40845	31122	33427	29400	24300	54300	46935	
	14619	9182	3967	6360	9044	---	12312	16476	
	50	22	14	9	5	1	3	104	
No Response	86534	---	---	---	---	---	---	73700	
	58667	28111	29639	26278	---	---	55300	54389	
	16000	---	---	---	---	---	---	21395	
	55657	28111	29639	26278	---	---	55300	48824	
	20054	---	4753	---	---	---	---	20450	
	11	1	2	1	0	0	1	16	
TOTAL	72800	48889	37522	44385	40560	58667	67750	66000	
	51333	38500	30556	29667	28200	41555	47200	42655	
	37889	30091	25000	24311	18000	24415	24400	27153	
	53569	38882	31221	31835	28717	42283	46555	44667	
	14297	7866	6181	7747	9047	13259	13712	15204	
	699	273	205	66	62	37	20	1,362	

Table 4.1.3

SALARIES of FULL-TIME EMPLOYED Ph.D. ACADEMIC CHEMISTS  
according to YEARS SINCE BS and ACADEMIC RANK  
1986 Survey of ACS Members

ACADEMIC RANK	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			
Full Professor	---	---	---	---	54939	55367	58361	63555	67130	77634	---	62333	- 75th %-ile
	---	---	---	52555	46750	48889	48889	52739	53534	61967	59400	51333	- 50th %-ile
	---	---	---	---	39783	42778	40639	45000	45417	55000	---	43633	- 25th %-ile
	---	---	---	52555	48823	49706	50134	55219	55769	64842	59400	53569	- Mean
	---	---	---	---	15120	11888	12448	14382	14747	14689	---	14297	- Std Dev
	0	0	0	1	40	161	153	154	116	73	1	699	- Count
Associate Professor	---	---	---	41278	42778	42778	46083	47392	50111	42408	---	43511	
	---	---	---	36667	36606	37889	39617	41350	43000	37095	---	38500	
	---	---	---	31594	32725	31778	35444	36792	37889	34041	---	33000	
	---	---	---	36667	37866	38130	40728	41363	43332	37909	---	38882	
	---	---	---	6518	7797	7234	9353	6993	9734	6802	---	7866	
	0	0	0	29	74	83	36	30	15	6	0	273	
Assistant Professor	---	---	33000	33750	34000	35444	37556	---	---	51250	---	34000	
	---	---	30556	30000	29944	33611	33900	30972	---	39834	---	30556	
	---	---	26889	27194	27200	30067	31778	---	---	29417	---	27289	
	---	---	30448	30646	30640	34768	34513	30972	---	40167	---	31221	
	---	---	5482	5467	4650	10747	3069	1454	---	11328	---	6181	
	0	0	50	84	43	17	5	2	0	4	0	205	
Instructor	---	---	34333	34000	33767	39000	40950	---	---	---	---	35625	
	---	---	27550	27384	28000	35500	30500	34711	27000	38461	---	29667	
	---	---	25542	24444	26650	27000	29050	---	---	---	---	25917	
	---	---	29144	30968	29878	33694	35130	34711	27000	38461	---	31835	
	---	---	4549	9545	4615	6772	9272	13137	---	8006	---	7747	
	0	0	8	20	13	11	9	2	1	2	0	66	
Research Associate	---	---	26125	36000	37500	35475	---	43950	---	---	---	36000	
	---	7000	22400	25200	30000	31250	30000	34400	33900	45000	---	28200	
	---	---	19125	20000	22000	23475	---	25750	---	---	---	20750	
	---	7000	22767	27426	30512	30380	30000	34700	33900	45000	---	28717	
	---	---	4165	9239	8626	7862	---	9700	---	---	---	9047	
	0	1	8	19	17	10	1	4	1	1	0	62	
Unranked	---	---	---	41000	61417	43267	51150	46139	88000	---	---	48889	
	---	---	13200	33611	51823	40028	42778	43389	58667	48889	---	41555	
	---	---	---	27172	44703	33500	34250	37000	48889	---	---	33306	
	---	---	13200	36011	52647	38460	42715	41815	65185	48889	---	42283	
	---	---	---	10406	9191	8313	9124	6296	20354	---	---	13259	
	0	0	1	9	4	8	5	6	3	1	0	37	
No Response	---	---	---	40000	---	48100	68500	---	58000	---	---	57325	
	---	---	40000	32800	46600	43900	61000	64750	55300	44600	---	47200	
	---	---	---	28000	---	23000	43600	---	55000	---	---	40000	
	---	---	40000	33600	46600	38033	57700	64750	56100	44600	---	46555	
	---	---	---	6040	---	12870	12774	6718	1652	---	---	13712	
	0	0	1	3	1	6	3	2	3	1	0	20	
TOTAL	---	---	32875	36361	42945	49359	55000	60000	62800	73253	---	53289	
	---	7000	29167	30556	35444	42778	46444	50056	52555	59945	59400	42655	
	---	---	25542	26945	30000	35458	39000	41666	44500	48917	---	33336	
	---	7000	29278	31852	37692	43814	47368	51976	54273	60648	59400	44667	
	---	---	6133	7672	11600	12227	12631	14594	14927	16576	---	15204	
	0	1	68	165	192	296	212	200	139	88	1	1,362	

Table 4.1.4

SALARIES of FULL-TIME Ph.D. ACADEMIC CHEMISTS  
according to ACADEMIC RANK and WORK FUNCTION  
1986 Survey of ACS Members

ACADEMIC WORK FUNCTION	ACADEMIC RANK							TOTAL	
	Full prof.	Assoc. prof.	Asst. prof.	Instr.	Res. Assoc.	Unranked	No Resp		
Teaching	50111	40333	30556	31167	---	47055	---	45314	- 75th %-ile
	43694	36300	28056	26767	---	42167	---	37889	- 50th %-ile
	37917	31656	25728	24933	---	34653	---	30556	- 25th %-ile
	44485	36348	28377	30079	---	40654	---	38756	- Mean
	9973	7232	3989	8491	---	10923	---	10582	- Std Dev
	252	133	88	29	0	22	0	524	- Count
Teaching/ research	64778	43542	35261	---	---	---	---	59889	
	55000	40400	33000	29000	---	41067	---	48445	
	49500	36514	29822	---	---	---	---	37878	
	57336	40494	32947	29000	---	41067	---	49039	
	10707	6745	4265	2828	---	---	---	13832	
	83	26	26	2	0	1	0	138	
Research	68853	49000	38122	36000	36000	42000	49800	51925	
	59945	43000	33745	31650	28400	32800	43600	40000	
	50111	37889	30000	27475	20000	29900	34000	31000	
	60600	42569	34110	32092	28642	34857	42240	43097	
	14503	7755	5333	6588	9040	7259	9722	16639	
	90	43	48	24	55	7	5	272	
Research/ administration	92250	---	---	---	---	---	---	85500	
	79500	---	---	48000	21000	33000	48400	69000	
	71000	---	---	---	---	---	---	44250	
	81000	---	---	48000	21000	33000	48400	63640	
	12410	---	---	---	---	---	---	25412	
	6	0	0	1	1	1	1	10	
Administration	73400	52500	---	40250	---	79964	60750	67767	
	59000	47450	48500	33850	28250	52372	56650	55450	
	50250	35017	---	28425	---	41472	47850	47592	
	61785	46218	48500	34175	28250	57936	55775	56864	
	13703	14520	7778	6207	3889	21202	7990	15550	
	56	10	2	4	2	4	8	86	
Teaching/ administration	53334	43722	---	---	---	---	---	51833	
	49500	34956	---	---	---	---	---	45811	
	42195	28056	---	---	---	---	---	41139	
	48787	35578	---	---	---	---	---	46145	
	7101	8381	---	---	---	---	---	8960	
	16	4	0	0	0	0	0	20	
No Response	65000	44550	34100	42225	44775	---	47125	59859	
	55867	39844	31778	36750	29000	60133	36400	48000	
	48000	35750	28750	28375	21925	---	23000	38000	
	57627	40222	32008	35983	31900	60133	37550	49964	
	14219	5925	8285	7301	12443	3111	17228	16049	
	196	57	41	6	4	2	6	312	
TOTAL	62333	43511	34000	35625	36000	48889	57325	53289	
	51333	38500	30556	29667	28200	41555	47200	42655	
	43633	33000	27289	25917	20750	33306	40000	33336	
	53569	38882	31221	31835	28717	42283	46555	44667	
	14297	7866	6181	7747	9047	13259	13712	15204	
	699	273	205	66	62	37	20	1,362	

Table 4.2.1

SALARIES OF FULL-TIME EMPLOYED Ph.D. INSTRUCTORS OR OTHER NON-TENURE TRACK RANK  
according to YEARS SINCE BS and WORK SPECIALTY  
1986 Survey of ACS Members

WORK 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	---	---	---	36750	40500	---	45900	---	---	---	---	---	36000	- 75th %ile
	---	---	31250	29000	35000	29500	30000	---	---	---	32800	---	30000	- 50th %ile
	---	---	---	24861	30000	---	29000	---	---	---	---	---	27250	- 25th %ile
	---	---	31250	31074	35167	29500	34967	---	---	---	32800	---	32420	- Mean
	---	---	6718	7667	5252	9192	9482	---	---	---	---	---	6761	- Std Dev
	0	0	2	6	3	2	3	0	0	1	0	17	- Count	
Biotechnology	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	34000	---	---	---	---	---	---	---	---	---	34000
	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	34000	---	---	---	---	---	---	---	---	---	34000
	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	0	0	0	1	0	0	0	0	0	0	0	1		
General chemistry	---	---	---	---	---	---	---	---	---	---	---	---	41800	
	---	---	25667	25384	31167	---	40334	---	---	---	44122	---	27134	
	---	---	---	---	---	---	---	---	---	---	---	---	25820	
	---	---	25667	25384	31167	---	40334	---	---	---	44122	---	32945	
	---	---	---	1957	5185	---	19877	---	---	---	---	---	10913	
	0	0	1	2	2	0	2	0	0	1	0	8		
Analytical chemistry	---	---	---	48000	31706	---	---	---	---	---	---	---	33150	
	---	---	31000	29333	28361	34500	30500	---	---	---	---	---	29917	
	---	---	---	24444	27475	---	---	---	---	---	---	---	27825	
	---	---	31000	33926	29181	34500	30500	---	---	---	---	---	31450	
	---	---	---	12431	2417	---	---	---	---	---	---	---	6464	
	0	0	1	3	4	1	1	0	0	0	0	10		
Inorganic chemistry	---	---	---	---	---	---	---	---	---	---	---	---	51250	
	---	---	28600	49500	---	31778	---	---	---	---	---	---	38889	
	---	---	---	---	---	---	---	---	---	---	---	---	29395	
	---	---	28600	49500	---	31778	---	---	---	---	---	---	39845	
	---	---	---	4950	---	---	---	---	---	---	---	---	11583	
	0	0	1	2	0	1	0	0	0	0	0	4		
Organic chemistry	---	---	---	---	27744	---	---	---	---	---	---	---	33028	
	---	---	24444	25667	26000	37250	29100	---	---	---	---	---	27744	
	---	---	---	---	25667	---	---	---	---	---	---	---	25056	
	---	---	24444	25667	26470	37250	29100	---	---	---	---	---	28754	
	---	---	---	6914	1116	2475	---	---	---	---	---	---	5637	
	0	0	1	2	3	2	1	0	0	0	0	9		
Polymer chemistry	---	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	35444	26278	---	---	---	---	---	---	---	---	30861	
	---	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	35444	26278	---	---	---	---	---	---	---	---	30861	
	---	---	---	---	---	---	---	---	---	---	---	---	6481	
	0	0	1	1	0	0	0	0	0	0	0	2		
Pharmaceutical chemistry	---	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	23000	---	---	36000	---	---	---	---	---	29500	
	---	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	23000	---	---	36000	---	---	---	---	---	29500	
	---	---	---	---	---	---	---	---	---	---	---	---	9192	
	0	0	0	1	0	0	1	0	0	0	0	2		
Medicinal/clinical chemistry	---	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	38000	---	---	---	---	---	---	38000	
	---	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	38000	---	---	---	---	---	---	38000	
	---	---	---	---	---	---	---	---	---	---	---	---	---	
	0	0	0	0	0	1	0	0	0	0	0	1		
Theoretical chemistry	---	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	27000	---	---	---	---	---	---	27000	
	---	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	27000	---	---	---	---	---	---	27000	
	---	---	---	---	---	---	---	---	---	---	---	---	---	
	0	0	0	0	0	1	0	0	0	0	0	1		
Environmental chemistry	---	---	---	---	---	---	---	---	---	---	---	---	42000	
	---	---	---	---	---	42000	---	25422	27000	---	---	---	27000	
	---	---	---	---	---	---	---	---	---	---	---	---	25422	
	---	---	---	---	---	42000	---	25422	27000	---	---	---	31474	
	---	---	---	---	---	---	---	---	---	---	---	---	9150	
	0	0	0	0	0	1	0	1	1	0	0	3		
Agricultural/food chemistry	---	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	---	44000	---	---	---	---	44000	
	---	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	---	44000	---	---	---	---	44000	
	---	---	---	---	---	---	---	---	---	---	---	---	---	
	0	0	0	0	0	0	0	1	0	0	0	1		
Physical chemistry	---	---	---	---	24444	---	---	---	---	---	---	---	24444	
	---	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	24444	---	---	---	---	---	---	---	24444	
	---	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	---	---	---	---	---	---	---	
	0	0	0	0	1	0	0	0	0	0	0	1		
Other chemistry	---	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	25500	25667	---	---	---	---	---	---	---	---	25584	
	---	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	25500	25667	---	---	---	---	---	---	---	---	25584	
	---	---	---	---	---	---	---	---	---	---	---	---	118	
	0	0	1	1	0	0	0	0	0	0	0	2		
Non-chemistry	---	---	---	---	---	---	---	---	---	---	---	---	39500	
	---	---	---	21100	---	31928	35000	---	---	---	---	---	28928	
	---	---	---	---	---	---	---	---	---	---	---	---	21539	
	---	---	---	21100	---	31928	35000	---	---	---	---	---	29989	
	---	---	---	---	---	12830	---	---	---	---	---	---	9596	
	0	0	0	1	0	2	1	0	0	0	0	4		
TOTAL	---	---	34333	34000	33767	39000	40950	---	---	---	---	---	35625	
	---	---	27550	27384	28000	35500	30500	34711	27000	38461	---	---	29667	
	---	---	25542	24444	26550	27000	29050	---	---	---	---	---	25917	
	---	---	29144	30968	29878	33694	35130	34711	27000	38461	---	---	31835	
	---	---	4549	9545	4615	6772	9272	13137	---	8006	---	---	7747	
	---	---	0	0	8	20	13	11	9	2	1	2	0	66

Table 4.2.2

SALARIES of FULL-TIME EMPLOYED Ph.D. INSTRUCTORS OR OTHER NON-TENURE TRACK RANK according to YEARS SINCE BS and TYPE OF INSTITUTION  
1986 Survey of ACS Members

SCHOOL	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			
Medical or prof. school	---	---	---	45250	---	38750	45900	---	---	---	---	39000	- 75th %-ile
	---	---	31250	29000	35250	37000	36000	---	27000	32800	---	32800	- 50th %-ile
	---	---	---	22525	---	26250	29000	---	---	---	---	27000	- 25th %-ile
	---	---	31250	32183	35250	34000	36967	---	27000	32800	---	33305	- Mean
	---	---	6718	10813	7425	7439	8491	---	---	---	---	7820	- Std Dev
	0	0	2	6	2	4	3	0	1	1	0	19	- Count
Associate	---	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	20778	---	---	54389	---	---	---	---	---	37584
	---	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	20778	---	---	54389	---	---	---	---	---	37584
	---	---	---	---	---	---	---	---	---	---	---	---	23767
	0	0	0	1	0	0	1	0	0	0	0	2	
Bachelors	---	---	28600	---	---	---	---	---	---	---	---	---	27684
	---	---	25667	26523	34833	22856	26278	25422	---	---	---	---	26278
	---	---	24444	---	---	---	---	---	---	---	---	---	24933
	---	---	26237	26523	34833	22856	26278	25422	---	---	---	---	26794
	---	---	2136	346	---	---	---	---	---	---	---	---	3402
	0	0	3	2	1	1	1	1	0	0	0	9	
Masters	---	---	---	---	---	---	---	---	---	---	---	---	36728
	---	---	---	26889	25222	---	---	---	---	44122	---	---	26000
	---	---	---	---	---	---	---	---	---	---	---	---	24444
	---	---	---	26889	25222	---	---	---	---	44122	---	---	29669
	---	---	---	3457	1100	---	---	---	---	---	---	---	8323
	0	0	0	2	2	0	0	0	0	1	0	5	
Doctorate	---	---	35444	41000	31706	41250	33875	---	---	---	---	---	35000
	---	---	31000	30556	27872	35000	30250	44000	---	---	---	---	30556
	---	---	25500	24722	27350	30584	29325	---	---	---	---	---	27300
	---	---	30648	33185	29079	35296	31150	44000	---	---	---	---	32375
	---	---	4981	10634	3129	5645	2631	---	---	---	---	---	7064
	0	0	3	9	8	6	4	1	0	0	0	31	
TOTAL	---	---	34333	34000	33767	39000	40950	---	---	---	---	---	35625
	---	---	27550	27384	28000	35500	30500	34711	27000	38461	---	---	29667
	---	---	25542	24444	26650	27000	29050	---	---	---	---	---	25917
	---	---	29144	30968	29878	33694	35130	34711	27000	38461	---	---	31835
	---	---	4549	9545	4615	6772	9272	13137	---	8006	---	---	7747
	0	0	8	20	13	11	9	2	1	2	0	66	

Table 4.2.3

SALARIES of FULL-TIME EMPLOYED Ph.D. INSTRUCTORS OR OTHER NON-TENURE TRACK RANK  
according to YEARS SINCE BS and SEX  
1986 Survey of ACS Members

SEX	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			
Men	---	---	35722	45000	32700	40000	45900	---	---	---	---	38250	- 75th %-ile
	---	---	31000	28000	27744	36000	35000	34711	---	44122	---	30778	- 50th %-ile
	---	---	26000	24000	26000	30750	29100	---	---	---	---	26445	- 25th %-ile
	---	---	30889	31897	29517	35095	36738	34711	---	44122	---	32969	- Mean
	---	---	4878	9956	4760	6353	10048	13137	---	---	---	7958	- Std Dev
	0	0	5	11	11	9	7	2	0	1	0	46	- Count
Women	---	---	28600	33000	---	---	---	---	---	---	---	31778	
	---	---	25667	27500	31861	27389	29500	---	27000	32800	---	28722	
	---	---	24444	24583	---	---	---	---	---	---	---	25000	
	---	---	26237	30278	31861	27389	29500	---	27000	32800	---	29381	
	---	---	2136	10032	4439	6207	707	---	---	---	---	6856	
	0	0	3	8	2	2	2	0	1	1	0	19	
No Response	---	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	26278	---	---	---	---	---	---	---	26278	
	---	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	26278	---	---	---	---	---	---	---	26278	
	---	---	---	---	---	---	---	---	---	---	---	---	---
	0	0	0	1	0	0	0	0	0	0	0	1	
TOTAL	---	---	34333	34000	33767	39000	40950	---	---	---	---	35625	
	---	---	27550	27384	28000	35500	30500	34711	27000	38461	---	29667	
	---	---	25542	24444	26650	27000	29050	---	---	---	---	25917	
	---	---	29144	30968	29878	33694	35130	34711	27000	38461	---	31835	
	---	---	4549	9545	4615	6772	9272	13137	---	8006	---	7747	
	0	0	8	20	13	11	9	2	1	2	0	66	

Table 4.3.1

SALARIES OF FULL-TIME EMPLOYED Ph.D. ASSISTANT PROFESSORS  
According to YEARS SINCE BS and WORK SPECIALTY  
1986 Survey of ACS Members

WORK 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	---	---	42500	34375	37125	39800	---	---	---	---	---	35000	75th %ile
	---	---	33000	30278	34500	34000	33900	32000	---	---	---	32450	50th %ile
	---	---	26300	27186	30128	33800	---	---	---	---	---	28700	25th %ile
	---	---	33933	30301	34001	35867	33900	32000	---	---	---	32037	Mean
	---	---	8140	7544	3848	3408	---	---	---	---	---	6525	Std Dev
	0	0	3	20	8	3	1	1	0	0	0	36	Count
Biotechnology	---	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	38200	---	---	---	---	---	---
	---	---	---	---	---	---	38200	---	---	---	---	---	---
	0	0	0	0	0	0	1	0	0	0	0	1	---
General chemistry	---	---	---	30000	32389	---	---	---	---	---	---	30597	---
	---	---	21750	29333	27500	28356	---	---	---	---	---	27928	---
	---	---	---	28356	26889	---	---	---	---	---	---	21875	---
	---	---	21750	29230	28926	28356	---	---	---	---	---	27468	---
	---	---	354	827	3015	10025	---	---	---	---	---	4747	---
	0	0	2	3	3	2	0	0	0	0	0	10	---
Analytical chemistry	---	---	33245	33153	36667	35444	---	---	---	---	---	34711	---
	---	---	30862	28723	28722	33611	36911	29944	---	36667	---	30556	---
	---	---	26278	25056	26600	26278	---	---	---	---	---	26439	---
	---	---	29683	29142	30576	31778	36911	29944	---	36667	---	30338	---
	---	---	4950	5074	5870	4850	---	---	---	---	---	5046	---
	0	0	10	10	7	3	1	1	0	1	0	33	---
Inorganic chemistry	---	---	31778	32000	34833	---	---	---	---	---	---	32695	---
	---	---	30556	28667	32389	28111	---	---	---	---	---	29944	---
	---	---	26889	26889	24444	---	---	---	---	---	---	26889	---
	---	---	30944	29463	30555	28111	---	---	---	---	---	30091	---
	---	---	4837	3197	5432	---	---	---	---	---	---	3982	---
	0	0	11	14	3	1	0	0	0	0	0	29	---
Organic chemistry	---	---	33917	30556	28234	---	---	---	---	---	---	31167	---
	---	---	29411	29456	25667	---	33000	---	---	---	---	28967	---
	---	---	25055	27378	23894	---	---	---	---	---	---	26217	---
	---	---	29538	29331	26570	---	33000	---	---	---	---	28826	---
	---	---	4612	3098	3945	---	---	---	---	---	---	3965	---
	0	0	12	15	9	0	1	0	0	0	0	37	---
Polymer chemistry	---	---	45222	39111	---	---	---	---	---	---	---	39111	---
	---	---	39111	35500	32511	---	---	---	---	---	---	39111	---
	---	---	39111	31167	---	---	---	---	---	---	---	32511	---
	---	---	41148	35259	32511	---	---	---	---	---	---	37390	---
	---	---	3528	3977	---	---	---	---	---	---	---	4767	---
	0	0	3	3	1	0	0	0	0	0	0	7	---
Pharmaceutical chemistry	---	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	42500	---	34500	---	---	---	---	---	38500	---
	---	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	42500	---	34500	---	---	---	---	---	38500	---
	---	---	---	---	---	---	---	---	---	---	---	5657	---
	0	0	0	1	0	1	0	0	0	0	0	2	---
Medicinal/clinical chemistry	---	---	---	37000	---	---	---	---	---	---	---	37000	---
	---	---	---	34500	31600	29333	---	---	---	54000	---	34500	---
	---	---	---	34000	---	---	---	---	---	---	---	29333	---
	---	---	---	35167	31600	29333	---	---	---	54000	---	36005	---
	---	---	---	1607	5091	---	---	---	---	---	---	8567	---
	0	0	0	3	2	1	0	0	0	1	0	7	---
Theoretical chemistry	---	---	---	---	40000	---	---	---	---	---	---	34750	---
	---	---	---	30750	30800	33000	---	---	---	---	---	30800	---
	---	---	---	---	30189	---	---	---	---	---	---	30572	---
	---	---	---	30750	33663	33000	---	---	---	---	---	32582	---
	---	---	---	71	5496	---	---	---	---	---	---	3764	---
	0	0	0	2	3	1	0	0	0	0	0	6	---
Environmental chemistry	---	---	---	40333	---	---	---	---	---	---	---	40333	---
	---	---	---	40333	---	---	---	---	---	---	---	40333	---
	---	---	---	36667	---	---	---	---	---	---	---	36667	---
	---	---	---	39111	---	---	---	---	---	---	---	39111	---
	---	---	---	2117	---	---	---	---	---	---	---	2117	---
	0	0	0	3	0	0	0	0	0	0	0	3	---
Agricultural/food chemistry	---	---	---	---	---	---	---	---	---	---	---	36092	---
	---	---	---	31750	37000	33367	---	---	---	---	---	32934	---
	---	---	---	---	---	---	---	---	---	---	---	31375	---
	---	---	---	31750	37000	33367	---	---	---	---	---	33467	---
	---	---	---	1061	---	---	---	---	---	---	---	2550	---
	0	0	2	1	1	0	0	0	0	0	0	4	---
Physical chemistry	---	---	31500	33000	33245	33000	---	---	---	---	---	32400	---
	---	---	28000	27317	29333	33000	30556	---	---	27000	---	29333	---
	---	---	25911	26584	29028	30800	---	---	---	---	---	27000	---
	---	---	28354	30087	30775	32267	30556	---	---	27000	---	29880	---
	---	---	2639	6918	2274	1270	---	---	---	---	---	3997	---
	0	0	7	6	5	3	1	0	0	1	0	23	---
Other chemistry	---	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	30556	---	---	---	---	---	---	---	30556	---
	---	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	30556	---	---	---	---	---	---	---	30556	---
	---	---	---	---	---	---	---	---	---	---	---	---	---
	0	0	0	1	0	0	0	0	0	0	0	1	---
Non-chemistry	---	---	---	---	---	---	---	---	---	---	---	50500	---
	---	---	---	28000	29944	54834	---	---	---	43000	---	33306	---
	---	---	---	---	---	---	---	---	---	---	---	28250	---
	---	---	---	28000	29944	54834	---	---	---	43000	---	39769	---
	---	---	---	707	---	25691	---	---	---	---	---	17311	---
	0	0	0	2	1	2	0	0	0	1	0	6	---
TOTAL	---	---	33000	33750	34000	35444	37556	---	---	51250	---	34000	---
	---	---	30556	30000	29944	33611	33900	30972	---	39834	---	30556	---
	---	---	26889	27194	27200	30067	31778	---	---	29417	---	27289	---
	---	---	30448	30646	30640	34768	34513	30972	---	40167	---	31221	---
	---	---	5482	5467	4650	10747	3069	1454	---	11328	---	6181	---
	0	0	50	84	43	17	5	2	0	4	0	205	---



Table 4.3.2

SALARIES of FULL-TIME EMPLOYED Ph.D. ASSISTANT PROFESSORS  
according to YEARS SINCE BS and TYPE OF INSTITUTION  
1986 Survey of ACS Members

SCHOOL	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			
Medical or prof. school	---	---	---	38375	40000	48100	---	---	---	---	---	39800	- 75th %-ile
	---	---	---	32000	35000	34250	36050	32000	---	54000	---	34000	- 50th %-ile
	---	---	---	28125	28000	33600	---	---	---	---	---	30000	- 25th %-ile
	---	---	---	31814	34333	41350	36050	32000	---	54000	---	35971	- Mean
	---	---	---	11182	6028	15696	3041	---	---	---	---	11936	- Std Dev
	0	0	0	10	3	6	2	1	0	1	0	23	- Count
Associate	---	---	---	30000	---	35444	---	---	---	---	---	34283	
	---	---	36667	27500	30800	29333	---	---	---	---	---	29667	
	---	---	---	27378	---	21267	---	---	---	---	---	27409	
	---	---	36667	28293	30800	28681	---	---	---	---	---	29799	
	---	---	---	1480	---	7111	---	---	---	---	---	4844	
	0	0	1	3	1	3	0	0	0	0	0	8	
Bachelors	---	---	29639	30556	29944	35750	---	---	---	---	---	30556	
	---	---	26595	27928	27500	31900	30556	---	---	36667	---	27500	
	---	---	23450	26889	24444	27409	---	---	---	---	---	25667	
	---	---	26180	28501	27877	31686	30556	---	---	36667	---	28014	
	---	---	3535	3009	3676	4342	---	---	---	---	---	3779	
	0	0	18	20	19	4	1	0	0	1	0	63	
Masters	---	---	31778	30372	33978	---	---	---	---	---	---	32756	
	---	---	28478	27133	32511	33306	36911	29944	---	---	---	29333	
	---	---	25667	24445	28234	---	---	---	---	---	---	27011	
	---	---	28775	27609	31387	33306	36911	29944	---	---	---	29612	
	---	---	3087	3627	3160	432	---	---	---	---	---	3764	
	0	0	7	9	5	2	1	1	0	0	0	25	
Doctorate	---	---	36850	35000	36667	---	---	---	---	---	---	35458	
	---	---	32750	31350	33489	31778	33000	---	---	35000	---	32395	
	---	---	30667	29425	29333	---	---	---	---	---	---	29731	
	---	---	33878	32208	33141	31778	33000	---	---	35000	---	32901	
	---	---	4821	4322	4390	5185	---	---	---	11314	---	4576	
	0	0	24	42	15	2	1	0	0	2	0	86	
TOTAL	---	---	33000	33750	34000	35444	37556	---	---	51250	---	34000	
	---	---	30556	30000	29944	33611	33900	30972	---	39834	---	30556	
	---	---	26889	27194	27200	30067	31778	---	---	29417	---	27289	
	---	---	30448	30646	30640	34768	34513	30972	---	40167	---	31221	
	---	---	5482	5467	4650	10747	3069	1454	---	11328	---	6181	
	0	0	50	84	43	17	5	2	0	4	0	205	

Table 4.3.3

SALARIES of FULL-TIME EMPLOYED Ph.D. ASSISTANT PROFESSORS  
according to YEARS SINCE BS and SEX  
1986 Survey of ACS Members

SEX	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			
Men	---	---	33489	34000	34000	35444	37878	---	---	---	---	34056	- 75th %-ile
	---	---	30556	30000	29944	33306	34956	29944	---	31834	---	30556	- 50th %-ile
	---	---	26889	27500	27200	28783	31167	---	---	---	---	27334	- 25th %-ile
	---	---	30790	30862	30491	32327	34667	29944	---	31834	---	30966	- Mean
	---	---	5465	5723	4399	5049	3521	---	---	6836	---	5284	- Std Dev
	0	0	45	71	35	12	4	1	0	2	0	170	- Count
Women	---	---	31389	33611	37461	53500	---	---	---	---	---	34056	
	---	---	30556	28800	30067	33800	33900	32000	---	48500	---	30900	
	---	---	21750	26000	25666	31167	---	---	---	---	---	27100	
	---	---	27367	29631	31289	40627	33900	32000	---	48500	---	32610	
	---	---	5149	3841	5929	18195	---	---	---	7778	---	9511	
	0	0	5	12	8	5	1	1	0	2	0	34	
No Response	---	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	27500	---	---	---	---	---	---	---	27500	---
	---	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	27500	---	---	---	---	---	---	---	27500	---
	---	---	---	---	---	---	---	---	---	---	---	---	---
	0	0	0	1	0	0	0	0	0	0	0	1	---
TOTAL	---	---	33000	33750	34000	35444	37556	---	---	51250	---	34000	
	---	---	30556	30000	29944	33611	33900	30972	---	39834	---	30556	
	---	---	26889	27194	27200	30067	31778	---	---	29417	---	27289	
	---	---	30448	30646	30640	34768	34513	30972	---	40167	---	31221	
	---	---	5482	5467	4650	10747	3069	1454	---	11328	---	6181	
	0	0	50	84	43	17	5	2	0	4	0	205	



Table 4.4.2

SALARIES of FULL-TIME EMPLOYED Ph.D. ASSOCIATE PROFESSORS  
according to YEARS SINCE BS and TYPE OF INSTITUTION  
1986 Survey of ACS Members

SCHOOL	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			
Medical or prof. school	---	---	---	---	51700	46500	47920	50322	---	---	---	48945	- 75th %-ile
	---	---	---	37500	50000	44000	41239	44795	37600	49000	---	41000	- 50th %-ile
	---	---	---	---	38000	34972	40200	31925	---	---	---	39000	- 25th %-ile
	---	---	---	37500	46567	42090	43120	42347	37600	49000	---	42383	- Mean
	---	---	---	4950	7467	9354	4638	9918	3677	---	---	7643	- Std Dev
	0	0	0	2	3	9	4	4	2	1	0	25	- Count
Associate	---	---	---	---	---	44917	47000	---	---	---	---	47167	
	---	---	---	24200	38256	36667	44611	56000	---	36055	---	36667	
	---	---	---	---	---	31961	35444	---	---	---	---	31961	
	---	---	---	24200	38256	38134	42352	56000	---	36055	---	39187	
	---	---	---	---	14346	6440	6100	---	---	---	---	8958	
	0	0	0	1	2	6	3	1	0	1	0	14	
Bachelors	---	---	---	42411	34955	39111	40028	42961	---	---	---	39111	
	---	---	---	31594	32939	35967	33611	41167	27278	38745	---	34283	
	---	---	---	23511	30556	30587	26375	36792	---	---	---	30770	
	---	---	---	32505	32488	35654	34102	40171	27278	38745	---	34864	
	---	---	---	10202	5178	6757	7143	4705	4636	2074	---	6630	
	0	0	0	4	24	36	10	10	2	2	0	88	
Masters	---	---	---	36667	38195	44000	46900	46200	---	---	---	42167	
	---	---	---	35000	33000	37278	39111	43511	42778	36911	---	37033	
	---	---	---	30556	31350	32389	35444	40455	---	---	---	33000	
	---	---	---	34074	34221	38639	44103	43389	42778	36911	---	38808	
	---	---	---	3159	4341	6792	15565	2874	3457	---	---	8886	
	0	0	0	3	9	8	7	3	2	1	0	33	
Doctorate	---	---	---	42000	44367	45986	48233	47667	54939	---	---	46239	
	---	---	---	37889	40333	40333	42195	39556	49500	28000	---	40333	
	---	---	---	36055	36973	35292	38195	33061	40500	---	---	36667	
	---	---	---	38520	41616	40188	43079	40302	48296	28000	---	41220	
	---	---	---	5381	7183	6585	5983	7681	7714	---	---	7128	
	0	0	0	19	36	24	12	12	9	1	0	113	
TOTAL	---	---	---	41278	42778	42778	46083	47392	50111	42408	---	43511	
	---	---	---	36667	36606	37889	39617	41350	43000	37095	---	38500	
	---	---	---	31594	32725	31778	35444	36792	37889	34041	---	33000	
	---	---	---	36667	37866	38130	40728	41363	43332	37909	---	38882	
	---	---	---	6518	7797	7234	9353	6993	9734	6802	---	7866	
	0	0	0	29	74	83	36	30	15	6	0	273	

Table 4.4.3

SALARIES of FULL-TIME EMPLOYED Ph.D. ASSOCIATE PROFESSORS  
according to YEARS SINCE BS and SEX  
1986 Survey of ACS Members

SEX	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			
Men	---	---	---	41555	42778	44000	45722	47575	50111	46070	---	44000	- 75th %-ile
	---	---	---	36667	36606	39111	40000	41739	45222	36667	---	38745	- 50th %-ile
	---	---	---	32144	32725	34222	35444	34597	38000	30014	---	33891	- 25th %-ile
	---	---	---	36830	37761	38871	40896	41389	45375	37583	---	39215	- Mean
	---	---	---	6667	7821	7052	9593	7241	7556	8653	---	7860	- Std Dev
	0	0	0	27	62	67	33	28	11	4	0	232	- Count
Women	---	---	---	---	44856	40000	47000	---	52125	---	---	41097	
	---	---	---	34467	38194	34222	36667	41000	35378	38561	---	36667	
	---	---	---	---	32145	30556	33000	---	25639	---	---	31166	
	---	---	---	34467	38408	35243	38889	41000	37714	38561	---	37128	
	---	---	---	4840	7993	7590	7260	1414	13947	2333	---	7781	
	0	0	0	2	12	15	3	2	4	2	0	40	
No Response	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	31778	---	---	---	---	---	31778	
	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	31778	---	---	---	---	---	31778	
	---	---	---	---	---	---	---	---	---	---	---	---	
	0	0	0	0	0	1	0	0	0	0	0	1	
TOTAL	---	---	---	41278	42778	42778	46083	47392	50111	42408	---	43511	
	---	---	---	36667	36606	37889	39617	41350	43000	37095	---	38500	
	---	---	---	31594	32725	31778	35444	36792	37889	34041	---	33000	
	---	---	---	36667	37866	38130	40728	41363	43332	37909	---	38882	
	---	---	---	6518	7797	7234	9353	6993	9734	6802	---	7866	
	0	0	0	29	74	83	36	30	15	6	0	273	

Table 4.5.1

SALARIES OF FULL-TIME EMPLOYED Ph.D. FULL PROFESSORS  
according to YEARS SINCE BS and WORK SPECIALTY  
1986 Survey of ACS Members

WORK 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	---	---	---	---	54755	59000	65075	78333	79722	80657	---	74416	- 75th %ile	
	---	---	---	---	52000	50000	61167	58722	66855	74000	---	58667	- 50th %ile	
	---	---	---	---	41189	43755	45989	46567	56500	60000	---	47750	- 25th %ile	
	---	---	---	---	51778	52801	58889	61330	66773	71461	---	60398	- Mean	
	---	---	---	---	17066	14890	13458	19528	13687	11086	---	16489	- Std Dev	
	0	0	0	0	11	23	18	24	17	15	0	108	- Count	
Biotechnology	---	---	---	---	---	61111	82000	72000	---	---	---	75200		
	---	---	---	---	10000	61111	66000	60000	80000	76267	---	61111		
	---	---	---	---	---	55000	42167	37155	---	---	---	45375		
	---	---	---	---	10000	59074	63389	56385	80000	76267	---	58568		
	---	---	---	---	---	3528	20044	17702	---	---	---	20608		
	0	0	0	0	1	3	3	3	1	1	0	12		
General chemistry	---	---	---	---	38317	51972	50325	51333	55611	83000	---	51333		
	---	---	---	---	35445	43389	41739	44000	44000	67222	---	42411		
	---	---	---	---	32417	36483	35872	37908	36667	51333	---	36330		
	---	---	---	---	34933	44254	42078	44704	44698	67185	---	44177		
	---	---	---	---	4415	10397	7649	10568	12624	15834	---	11743		
	0	0	0	0	6	8	12	10	11	3	0	50		
Analytical chemistry	---	---	---	---	---	49500	55834	63416	55978	61967	---	56711		
	---	---	---	---	52555	53778	47667	48400	56650	52555	---	49500		
	---	---	---	---	---	45100	38011	48278	42778	40578	---	42961		
	---	---	---	---	52555	53778	50232	47289	55310	50964	---	50526		
	---	---	---	---	---	9475	16977	10276	9419	12077	---	12064		
	0	0	0	1	1	17	17	12	11	3	0	62		
Inorganic chemistry	---	---	---	---	67222	50570	53167	61386	68750	61111	---	59881		
	---	---	---	---	44000	45467	46078	49945	54817	55761	---	45956		
	---	---	---	---	40333	41800	39967	43725	33584	44075	---	42381		
	---	---	---	---	49809	48081	46588	53422	49828	56435	---	50157		
	---	---	---	---	14474	9361	10343	14811	24938	14567	---	13596		
	0	0	0	0	7	18	17	16	6	8	0	72		
Organic chemistry	---	---	---	---	58636	50111	50750	58178	60806	66733	---	57750		
	---	---	---	---	46995	45222	53778	51944	51333	59889	---	50111		
	---	---	---	---	42778	37684	42564	42655	40578	52922	---	41555		
	---	---	---	---	49470	44918	52435	51403	51003	62268	---	50579		
	---	---	---	---	8720	9696	12366	9654	12859	12858	---	11904		
	0	0	0	0	4	41	38	31	28	11	0	153		
Polymer chemistry	---	---	---	---	---	67222	60867	78000	78834	80666	---	67806		
	---	---	---	---	50722	67222	50111	59278	69000	66000	---	61634		
	---	---	---	---	---	55000	39722	52250	47025	63800	---	51639		
	---	---	---	---	50722	63825	50400	65407	65717	70156	---	61512		
	---	---	---	---	2592	7124	9712	17882	16632	10359	---	13692		
	0	0	0	0	2	7	7	6	6	4	0	32		
Pharmaceutical chemistry	---	---	---	---	---	---	---	---	---	---	---	60945		
	---	---	---	---	---	49000	40000	38000	70889	51000	---	49000		
	---	---	---	---	---	---	---	---	---	---	---	39000		
	---	---	---	---	---	49000	40000	38000	70889	51000	---	49778		
	---	---	---	---	---	---	---	---	---	---	---	13059		
	0	0	0	0	0	1	1	1	1	1	0	5		
Medicinal/clinical chemistry	---	---	---	---	65000	65000	56000	59000	---	---	---	58100		
	---	---	---	---	55000	48000	52000	46000	49400	---	---	50000		
	---	---	---	---	43500	40000	41433	42000	---	---	---	41858		
	---	---	---	---	54500	51000	49811	49000	49400	---	---	50838		
	---	---	---	---	10759	12767	7526	8888	11879	---	---	8891		
	0	0	0	0	0	3	3	3	3	2	0	14		
Theoretical chemistry	---	---	---	---	---	73333	56222	74770	---	91667	---	68169		
	---	---	---	---	68745	66611	49200	56772	46444	71011	---	59911		
	---	---	---	---	---	54022	42778	44550	---	55000	---	48511		
	---	---	---	---	68745	64264	50489	58697	46444	72559	---	59597		
	---	---	---	---	18589	10828	9733	15947	---	18382	---	14407		
	0	0	0	0	2	5	7	4	1	3	0	22		
Environmental chemistry	---	---	---	---	67000	62730	---	70975	65695	---	---	66475		
	---	---	---	---	55000	45878	51700	60950	59889	79444	---	56000		
	---	---	---	---	51089	40367	---	48000	45850	---	---	45550		
	---	---	---	---	57696	49746	51700	59975	56596	79444	---	56279		
	---	---	---	---	8291	11948	---	11930	10642	---	---	11712		
	0	0	0	0	3	6	1	4	5	1	0	20		
Agricultural/food chemistry	---	---	---	---	---	---	---	81022	---	69217	---	68722		
	---	---	---	---	---	49500	62000	47800	59500	63600	---	58500		
	---	---	---	---	---	---	---	41750	---	57000	---	47950		
	---	---	---	---	---	49500	62000	58669	59500	63272	---	59031		
	---	---	---	---	---	2121	---	21729	12021	6516	---	13668		
	0	0	0	0	0	2	1	5	2	4	0	14		
Physical chemistry	---	---	---	---	58300	56417	48889	65389	61111	85250	---	60836		
	---	---	---	---	47055	48889	46628	51333	55000	72100	59400	50111		
	---	---	---	---	46078	44445	39408	47395	50111	80258	---	46261		
	---	---	---	---	50478	48473	44804	54612	57591	74102	59400	53578		
	---	---	---	---	6792	13704	6479	13189	12057	14572	---	14368		
	0	0	0	0	3	22	20	25	15	10	1	96		
Other chemistry	---	---	---	---	---	---	63555	73333	---	68444	---	63555		
	---	---	---	---	53167	47000	55000	---	52678	---	---	52678		
	---	---	---	---	---	44500	51333	---	51333	---	---	48889		
	---	---	---	---	53167	52622	60866	---	57485	---	---	56415		
	---	---	---	---	6049	10039	12295	---	9515	---	---	10075		
	0	0	0	0	0	2	5	5	0	3	0	15		
Non-chemistry	---	---	---	---	60000	64000	66450	71956	73750	---	---	63875		
	---	---	---	---	48000	51000	59155	62500	51000	---	---	56500		
	---	---	---	---	37155	39844	47056	50000	32083	---	---	45750		
	---	---	---	---	48385	51615	57233	61135	52278	---	---	56062		
	---	---	---	---	11427	12090	11450	12746	21598	---	---	13687		
	0	0	0	0	0	3	3	5	9	4	0	24		
TOTAL	---	---	---	---	54939	55367	58361	63555	67130	77634	---	62333		
	---	---	---	---	52555	46750	48889	48889	52739	53534	61967	59400	51333	
	---	---	---	---	---	39783	42778	40639	45000	45417	55000	---	43633	
	---	---	---	---	52555	48823	49706	50134	55219	55769	64842	59400	53569	
	---	---	---	---	15120	11888	12448	14382	14747	14689	---	14297		
	0	0	0	1	40	161	153	154	116	73	1	699		

Table 4.5.2

SALARIES of FULL-TIME EMPLOYED Ph.D. FULL PROFESSORS  
according to YEARS SINCE BS and TYPE OF INSTITUTION  
1986 Survey of ACS Members

SCHOOL	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			
Medical or prof. school	---	---	---	---	---	62800	67625	72550	83150	82834	---	73600	- 75th %-ile
	---	---	---	---	51211	50000	63050	58000	58000	75000	---	60000	- 50th %-ile
	---	---	---	---	---	43500	49750	51500	47000	66000	---	50000	- 25th %-ile
	---	---	---	---	51211	54779	61133	61886	63660	73235	---	61613	- Mean
	---	---	---	---	---	16243	13997	15396	18687	11181	---	15595	- Std Dev
	0	0	0	0	1	15	12	14	5	9	0	56	- Count
Associate	---	---	---	---	39600	54389	---	47667	57078	---	---	46139	
	---	---	---	---	37889	45222	35200	34222	44000	---	---	39356	
	---	---	---	---	27000	39723	---	23700	39111	---	---	34833	
	---	---	---	---	34830	46689	35200	35196	46730	---	---	40882	
	---	---	---	---	6834	9522	2075	12013	9289	---	---	9880	
	0	0	0	0	3	5	2	3	3	0	0	16	
Bachelors	---	---	---	---	44000	47025	46444	50111	52739	60561	---	48889	
	---	---	---	---	36667	41922	40333	44428	46322	52128	---	42717	
	---	---	---	---	34222	36789	36667	40486	35078	42380	---	36667	
	---	---	---	---	38849	42190	41327	45434	45185	51263	---	43670	
	---	---	---	---	6363	8643	7523	9684	12269	10831	---	9616	
	0	0	0	0	7	44	43	34	22	14	0	164	
Masters	---	---	---	---	46811	51333	55000	54389	51986	---	---	52830	
	---	---	---	---	44428	47911	48278	51000	47667	40578	---	47728	
	---	---	---	---	42778	42778	42778	43872	44125	---	---	42778	
	---	---	---	---	44672	47168	48781	48988	48649	40578	---	48043	
	---	---	---	---	2223	8038	6988	8500	6662	---	---	7375	
	0	0	0	0	4	31	27	17	20	1	0	100	
Doctorate	---	---	---	---	59889	63139	62367	68683	70431	79444	---	67222	
	---	---	---	52555	53000	53961	53778	58423	62167	64200	59400	57444	
	---	---	---	---	44350	48889	47361	49725	50778	57622	---	49622	
	---	---	---	52555	53864	54984	54672	59933	61267	67675	59400	58881	
	---	---	---	---	16547	11401	12745	13880	14361	13549	---	14085	
	0	0	0	1	25	66	69	86	66	49	1	363	
TOTAL	---	---	---	---	54939	55367	58361	63555	67130	77634	---	62333	
	---	---	---	52555	46750	48889	48889	52739	53534	61967	59400	51333	
	---	---	---	---	39783	42778	40639	45000	45417	55000	---	43633	
	---	---	---	52555	48823	49706	50134	55219	55769	64842	59400	53569	
	---	---	---	---	15120	11888	12448	14382	14747	14689	---	14297	
	0	0	0	1	40	161	153	154	116	73	1	699	

Table 4.5.3

SALARIES of FULL-TIME EMPLOYED Ph.D. FULL PROFESSORS  
 according to YEARS SINCE BS and SEX  
 1986 Survey of ACS Members

SEX	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			
Men	---	---	---	---	55300	56222	58514	63555	67130	79111	---	62400	- 75th %-ile
	---	---	---	52555	48889	48889	49811	52555	54389	63034	59400	51700	- 50th %-ile
	---	---	---	---	39967	42778	40609	45000	45417	56350	---	44000	- 25th %-ile
	---	---	---	52555	49750	49845	50486	55144	56054	65456	59400	53864	- Mean
	---	---	---	---	15208	12105	11818	14442	14548	14643	---	14223	- Std Dev
	0	0	0	1	37	151	144	151	108	70	1	663	- Count
Women	---	---	---	---	---	53870	52834	---	65572	56000	---	53870	
	---	---	---	---	34095	47789	42778	57189	48834	52922	---	47100	
	---	---	---	---	---	41250	37583	---	42050	42655	---	41097	
	---	---	---	---	34095	47600	44500	57189	51914	50526	---	47822	
	---	---	---	---	10033	8061	20240	17269	17872	6988	---	14977	
	0	0	0	0	2	10	9	2	8	3	0	34	
No Response	---	---	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	44000	---	---	62700	---	---	---	53350	
	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	44000	---	---	62700	---	---	---	53350	
	---	---	---	---	---	---	---	---	---	---	---	13223	
	0	0	0	0	1	0	0	1	0	0	0	2	
TOTAL	---	---	---	---	54939	55367	58361	63555	67130	77634	---	62333	
	---	---	---	52555	46750	48889	48889	52739	53534	61967	59400	51333	
	---	---	---	---	39783	42778	40639	45000	45417	55000	---	43633	
	---	---	---	52555	48823	49706	50134	55219	55769	64842	59400	53569	
	---	---	---	---	15120	11888	12448	14382	14747	14689	---	14297	
	0	0	0	1	40	161	153	154	116	73	1	699	



Table 5.1.1

STIPENDS of POST-DOCTORAL FELLOWS  
according to INSTITUTIONAL CONTROL and WORK FIELD  
1986 Survey of ACS Members

WORK FIELD	INSTITUTIONAL CONTROL			TOTAL	
	Public	Private	No Resp		
Chemical engineering	24000	---	---	24000	- 75th %-ile
	22000	---	---	22000	- 50th %-ile
	10200	---	---	10200	- 25th %-ile
	18733	---	---	18733	- Mean
	7457	---	---	7457	- Std Dev
	3	0	0	3	- Count
Biochemistry	21500	20500	19500	20000	
	19050	17500	18000	18000	
	16000	15625	16700	16000	
	18894	17883	18080	18403	
	3240	2448	1460	2736	
	16	12	5	33	
Chemistry	20000	18100	17250	18500	
	17000	17000	16000	17000	
	15675	15000	16000	15525	
	17362	17042	16400	17158	
	3600	3309	1246	3325	
	50	29	9	88	
Non-chemistry	---	---	---	---	
	25000	---	---	25000	
	---	---	---	---	
	25000	---	---	25000	
	7071	---	---	7071	
	2	0	0	2	
No Response	16000	23000	---	16000	
	15000	16000	15000	15000	
	12222	15000	---	15000	
	14407	18000	15000	16032	
	1957	4359	---	3323	
	3	3	1	7	
TOTAL	20000	18800	18000	20000	
	17000	17000	16600	17000	
	15925	15100	16000	15650	
	17836	17337	16867	17561	
	3936	3118	1553	3479	
	74	44	15	133	

Table 6.1.1

SALARIES of FULL-TIME EMPLOYED NON-ACADEMIC CHEMICAL ENGINEERS  
according to YEARS SINCE BS and HIGHEST DEGREE  
1986 Survey of ACS Members

HIGHEST DEGREE	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			
Bachelors	---	31900	41550	51000	57250	71000	54900	70750	68300	54000	---	54675	- 75th %-ile
	23500	29300	35750	42600	46900	48000	46700	54650	58000	51000	---	43900	- 50th %-ile
	---	25950	30925	35525	35525	33400	42600	42250	45000	43800	---	34325	- 25th %-ile
	23500	29367	36346	43725	45731	52486	49691	55800	57746	50942	---	45918	- Mean
	6364	9702	8277	11412	10842	23081	11423	17559	15636	13016	---	16076	- Std Dev
	2	21	26	20	16	7	11	20	26	19	0	168	- Count
Masters	---	30000	42875	48225	53900	61000	63000	66000	65000	68550	---	59850	
	30800	29500	37300	42750	44700	55000	53400	53000	55500	58000	---	48000	
	---	24000	33000	38050	39000	46700	41000	50000	44775	48000	---	39850	
	30800	27833	38714	43095	48568	55300	50400	57720	57533	58389	---	49768	
	---	3329	7689	9742	11617	12499	15241	10813	16069	12564	---	14181	
	1	3	22	20	19	17	11	15	24	9	0	141	
Doctorate	---	---	46000	53250	64675	75000	76500	75000	78475	75375	---	70125	
	---	---	41600	48950	56000	62400	68400	64600	66600	66500	---	59400	
	---	---	40000	42375	48800	50000	56000	55500	57900	51956	---	47925	
	---	---	42364	47323	57821	62658	64248	64595	64858	63532	---	59071	
	---	---	10163	12120	9867	16818	17923	10656	16837	14343	---	15908	
	0	0	11	30	28	31	31	21	24	10	0	186	
No Response	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	---	---	---	---	40900	40900	
	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	---	---	---	---	---	---	40900	40900	
	---	---	---	---	---	---	---	---	---	---	5515	5515	
	0	0	0	0	0	0	0	0	0	0	2	2	
TOTAL	30800	30725	42500	51000	60000	70000	72450	72000	70700	65500	---	63250	
	28000	29400	38300	45000	51500	58000	57000	59550	60400	53450	40900	50000	
	19000	25475	33000	39925	43900	47000	46000	50000	49000	45000	---	40000	
	25933	29175	38351	45087	51960	59089	58353	59613	59984	56019	40900	51913	
	6165	9115	8582	11296	11793	16736	17466	13903	16309	14016	5515	16475	
	3	24	59	70	63	55	53	56	74	38	2	497	







Table 8.1.2

EMPLOYMENT STATUS of CHEMISTS - WOMEN Only  
according to HIGHEST DEGREE  
1986 Survey of ACS Members

HIGHEST DEGREE	EMPLOYMENT STATUS						TOTAL	
	Employed full-time	Employed part-time	Postdoc. or other fellow.	Un- employed seeking	Un- employed Not seek.	No Response		
Bachelors	488 89.9% 36.3%	18 3.3% 25.0%	0 0.0% 0.0%	13 2.4% 41.9%	21 3.9% 53.8%	3 0.6% 50.0%	543	-Count 100.0% 35.7%
Masters	352 89.1% 26.2%	23 5.8% 31.9%	0 0.0% 0.0%	7 1.8% 22.6%	10 2.5% 25.6%	3 0.8% 50.0%	395	100.0% 25.9%
Doctorate	495 86.7% 36.8%	30 5.3% 41.7%	29 5.1% 100.0%	9 1.6% 29.0%	8 1.4% 20.5%	0 0.0% 0.0%	571	100.0% 37.5%
No Response	11 78.6% 0.8%	1 7.1% 1.4%	0 0.0% 0.0%	2 14.3% 6.5%	0 0.0% 0.0%	0 0.0% 0.0%	14	100.0% 0.9%
TOTAL	1,346 88.4% 100.0%	72 4.7% 100.0%	29 1.9% 100.0%	31 2.0% 100.0%	39 2.6% 100.0%	6 0.4% 100.0%	1,523	100.0% 100.0%











Table 8.5.1

EMPLOYMENT STATUS of INDUSTRIAL CHEMISTS  
according to TYPE OF INDUSTRY  
1986 Survey of ACS Members

TYPE OF INDUSTRY	EMPLOYMENT STATUS						TOTAL	
	Employed Full-time	Employed Part-time	Postdoc. or other fellow.	Un-employed seeking	Un-employed Not seek.	No Response		
Agricultural chemicals	381 96.2% 7.1%	1 0.3% 2.7%	0 0.0% 0.0%	6 1.5% 4.8%	8 2.0% 13.6%	0 0.0% 0.0%	396	-Count 100.0% 7.0%
Coatings	317 95.8% 5.9%	3 0.9% 8.1%	0 0.0% 0.0%	5 1.5% 4.0%	5 1.5% 8.5%	1 0.3% 6.3%	331	100.0% 5.9%
Food	202 95.7% 3.7%	1 0.5% 2.7%	0 0.0% 0.0%	4 1.9% 3.2%	4 1.9% 6.8%	0 0.0% 0.0%	211	100.0% 3.7%
Metals	151 93.8% 2.8%	0 0.0% 0.0%	0 0.0% 0.0%	7 4.3% 5.6%	3 1.9% 5.1%	0 0.0% 0.0%	161	100.0% 2.9%
Paper	87 98.9% 1.6%	0 0.0% 0.0%	0 0.0% 0.0%	1 1.1% 0.8%	0 0.0% 0.0%	0 0.0% 0.0%	88	100.0% 1.6%
Petroleum	345 95.0% 6.4%	2 0.6% 5.4%	0 0.0% 0.0%	8 2.2% 6.4%	4 1.1% 6.8%	4 1.1% 25.0%	363	100.0% 6.4%
Pharmaceuticals	963 97.1% 17.8%	5 0.5% 13.5%	1 0.1% 33.3%	13 1.3% 10.4%	6 0.6% 10.2%	4 0.4% 25.0%	992	100.0% 17.6%
Rubber	130 97.0% 2.4%	0 0.0% 0.0%	0 0.0% 0.0%	3 2.2% 2.4%	0 0.0% 0.0%	1 0.7% 6.3%	134	100.0% 2.4%
Soaps	139 97.9% 2.6%	0 0.0% 0.0%	0 0.0% 0.0%	2 1.4% 1.6%	1 0.7% 1.7%	0 0.0% 0.0%	142	100.0% 2.5%
Biochemical products	210 95.5% 3.9%	1 0.5% 2.7%	2 0.9% 66.7%	7 3.2% 5.6%	0 0.0% 0.0%	0 0.0% 0.0%	220	100.0% 3.9%
Electronics	289 94.8% 5.4%	1 0.3% 2.7%	0 0.0% 0.0%	11 3.6% 8.8%	2 0.7% 3.4%	2 0.7% 12.5%	305	100.0% 5.4%
Other chemicals	879 94.7% 16.3%	6 0.6% 16.2%	0 0.0% 0.0%	28 3.0% 22.4%	12 1.3% 20.3%	3 0.3% 18.8%	928	100.0% 16.6%
Other products	899 95.9% 16.7%	9 1.0% 24.3%	0 0.0% 0.0%	17 1.8% 13.6%	11 1.2% 18.6%	1 0.1% 6.3%	937	100.0% 16.6%
Non-mfg	403 94.4% 7.5%	8 1.9% 21.6%	0 0.0% 0.0%	13 3.0% 10.4%	3 0.7% 5.1%	0 0.0% 0.0%	427	100.0% 7.6%
No Response	0 ***.0% 0.0%	0 ***.0% 0.0%	0 ***.0% 0.0%	0 ***.0% 0.0%	0 ***.0% 0.0%	0 ***.0% 0.0%	0	***.0% 0.0%
TOTAL	5,395 95.7% 100.0%	37 0.7% 100.0%	3 0.1% 100.0%	125 2.2% 100.0%	59 1.0% 100.0%	16 0.3% 100.0%	5,635	100.0% 100.0%









Table 9.1.0

LENGTH of UNEMPLOYMENT of CHEMISTS UNEMPLOYED on MARCH 1, 1986  
according to HIGHEST DEGREE  
1986 Survey of ACS Members

HIGHEST DEGREE	MONTHS UNEMPLOYED					No Response	TOTAL	
	<=1	1-3	4-6	7-12	>=12			
Bachelors	11 11.0% 45.8%	22 22.0% 36.1%	11 11.0% 37.9%	15 15.0% 38.5%	31 31.0% 37.8%	10 10.0% 34.5%	100	-Count
Masters	4 7.7% 16.7%	8 15.4% 13.1%	4 7.7% 13.8%	12 23.1% 30.8%	18 34.6% 22.0%	6 11.5% 20.7%	52	
Doctorate	9 8.3% 37.5%	30 27.5% 49.2%	14 12.8% 48.3%	12 11.0% 30.8%	31 28.4% 37.8%	13 11.9% 44.8%	109	
No Response	0 0.0% 0.0%	1 33.3% 1.6%	0 0.0% 0.0%	0 0.0% 0.0%	2 66.7% 2.4%	0 0.0% 0.0%	3	
TOTAL	24 9.1% 100.0%	61 23.1% 100.0%	29 11.0% 100.0%	39 14.8% 100.0%	82 31.1% 100.0%	29 11.0% 100.0%	264	





Table 9.1.2

LENGTH of UNEMPLOYMENT of CHEMISTS UNEMPLOYED on MARCH 1, 1986 - WOMEN Only  
according to HIGHEST DEGREE  
1986 Survey of ACS Members

HIGHEST DEGREE	MONTHS UNEMPLOYED					No Response	TOTAL
	<=1	1-3	4-6	7-12	>=12		
Bachelors	2 5.9% 66.7%	6 17.6% 46.2%	3 8.8% 50.0%	4 11.8% 40.0%	15 44.1% 48.4%	4 11.8% 57.1%	34 -Count 100.0% -% of Row 48.6% -% of Col
Masters	0 0.0% 0.0%	1 5.9% 7.7%	2 11.8% 33.3%	4 23.5% 40.0%	9 52.9% 29.0%	1 5.9% 14.3%	17 100.0% 24.3%
Doctorate	1 5.9% 33.3%	5 29.4% 38.5%	1 5.9% 16.7%	2 11.8% 20.0%	6 35.3% 19.4%	2 11.8% 28.6%	17 100.0% 24.3%
No Response	0 0.0% 0.0%	1 50.0% 7.7%	0 0.0% 0.0%	0 0.0% 0.0%	1 50.0% 3.2%	0 0.0% 0.0%	2 100.0% 2.9%
TOTAL	3 4.3% 100.0%	13 18.6% 100.0%	6 8.6% 100.0%	10 14.3% 100.0%	31 44.3% 100.0%	7 10.0% 100.0%	70 100.0% 100.0%

Table 9.2.0

LENGTH of UNEMPLOYMENT of CHEMISTS UNEMPLOYED on MARCH 1, 1986  
according to AGE  
1986 Survey of ACS Members

AGE LEVEL	MONTHS UNEMPLOYED					No Response	TOTAL	
	<=1	1-3	4-6	7-12	>=12			
20-24	2 66.7% 8.3%	1 33.3% 1.6%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	3	-Count 100.0% 1.1%
25-29	2 8.7% 8.3%	3 13.0% 4.9%	6 26.1% 20.7%	4 17.4% 10.3%	5 21.7% 6.1%	3 13.0% 10.3%	23	100.0% 8.7%
30-34	3 9.4% 12.5%	9 28.1% 14.8%	3 9.4% 10.3%	4 12.5% 10.3%	12 37.5% 14.6%	1 3.1% 3.4%	32	100.0% 12.1%
35-39	3 9.1% 12.5%	7 21.2% 11.5%	3 9.1% 10.3%	6 18.2% 15.4%	8 24.2% 9.8%	6 18.2% 20.7%	33	100.0% 12.5%
40-44	5 15.6% 20.8%	10 31.3% 16.4%	3 9.4% 10.3%	7 21.9% 17.9%	7 21.9% 8.5%	0 0.0% 0.0%	32	100.0% 12.1%
45-49	0 0.0% 0.0%	6 35.3% 9.8%	5 29.4% 17.2%	2 11.8% 5.1%	3 17.6% 3.7%	1 5.9% 3.4%	17	100.0% 6.4%
50-54	2 9.1% 8.3%	3 13.6% 4.9%	2 9.1% 6.9%	2 9.1% 5.1%	11 50.0% 13.4%	2 9.1% 6.9%	22	100.0% 8.3%
55-59	4 9.3% 16.7%	10 23.3% 16.4%	2 4.7% 6.9%	7 16.3% 17.9%	18 41.9% 22.0%	2 4.7% 6.9%	43	100.0% 16.3%
60-64	2 5.0% 8.3%	8 20.0% 13.1%	5 12.5% 17.2%	5 12.5% 12.8%	11 27.5% 13.4%	9 22.5% 31.0%	40	100.0% 15.2%
65-69	1 6.7% 4.2%	3 20.0% 4.9%	0 0.0% 0.0%	1 6.7% 2.6%	6 40.0% 7.3%	4 26.7% 13.8%	15	100.0% 5.7%
>=70	0 ***.0% 0.0%	0 ***.0% 0.0%	0 ***.0% 0.0%	0 ***.0% 0.0%	0 ***.0% 0.0%	0 ***.0% 0.0%	0	***.0% 0.0%
No Response	0 0.0% 0.0%	1 25.0% 1.6%	0 0.0% 0.0%	1 25.0% 2.6%	1 25.0% 1.2%	1 25.0% 3.4%	4	100.0% 1.5%
TOTAL	24 9.1% 100.0%	61 23.1% 100.0%	29 11.0% 100.0%	39 14.8% 100.0%	82 31.1% 100.0%	29 11.0% 100.0%	264	100.0% 100.0%

Table 9.3.0

LENGTH of UNEMPLOYMENT of CHEMISTS UNEMPLOYED on MARCH 1, 1986  
according to NON-ACADEMIC WORK FUNCTION  
1986 Survey of ACS Members

WORK FUNCTION	MONTHS UNEMPLOYED					No Response	TOTAL	
	<=1	1-3	4-6	7-12	>=12			
Mgt-R&D	3 9.7% 13.0%	8 25.8% 15.1%	4 12.9% 14.3%	2 6.5% 6.7%	8 25.8% 13.1%	6 19.4% 27.3%	31	-Count
							100.0%	-% of Row
							14.3%	-% of Col
Basic Research	2 11.8% 8.7%	4 23.5% 7.5%	2 11.8% 7.1%	3 17.6% 10.0%	4 23.5% 6.6%	2 11.8% 9.1%	17	
Applied Research	6 10.3% 26.1%	14 24.1% 26.4%	5 8.6% 17.9%	10 17.2% 33.3%	18 31.0% 29.5%	5 8.6% 22.7%	58	
General Mgt	2 7.7% 8.7%	3 11.5% 5.7%	5 19.2% 17.9%	4 15.4% 13.3%	9 34.6% 14.8%	3 11.5% 13.6%	26	
Marketing	3 18.8% 13.0%	5 31.3% 9.4%	2 12.5% 7.1%	3 18.8% 10.0%	2 12.5% 3.3%	1 6.3% 4.5%	16	
Prod & QC	4 13.3% 17.4%	9 30.0% 17.0%	5 16.7% 17.9%	3 10.0% 10.0%	7 23.3% 11.5%	2 6.7% 9.1%	30	
Forensics	0 0.0% 0.0%	0 0.0% 0.0%	3 25.0% 10.7%	1 8.3% 3.3%	6 50.0% 9.8%	2 16.7% 9.1%	12	
Writing	0 0.0% 0.0%	1 50.0% 1.9%	0 0.0% 0.0%	0 0.0% 0.0%	1 50.0% 1.6%	0 0.0% 0.0%	2	
Chemical Information	0 0.0% 0.0%	2 50.0% 3.8%	0 0.0% 0.0%	1 25.0% 3.3%	0 0.0% 0.0%	1 25.0% 4.5%	4	
Computer	0 ***. ** 0.0%	0 ***. ** 0.0%	0 ***. ** 0.0%	0 ***. ** 0.0%	0 ***. ** 0.0%	0 ***. ** 0.0%	0	
Consulting	0 0.0% 0.0%	2 28.6% 3.8%	1 14.3% 3.6%	3 42.9% 10.0%	1 14.3% 1.6%	0 0.0% 0.0%	7	
Other	3 23.1% 13.0%	5 38.5% 9.4%	0 0.0% 0.0%	0 0.0% 0.0%	5 38.5% 8.2%	0 0.0% 0.0%	13	
No Response	0 0.0% 0.0%	0 0.0% 0.0%	1 100.0% 3.6%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	1	
TOTAL	23 10.6% 100.0%	53 24.4% 100.0%	28 12.9% 100.0%	30 13.8% 100.0%	61 28.1% 100.0%	22 10.1% 100.0%	217	

Table 9.4.0

LENGTH of UNEMPLOYMENT of CHEMISTS UNEMPLOYED on MARCH 1, 1986  
according to WORK SPECIALTY  
1986 Survey of ACS Members

WORK SPECIALTY	MONTHS UNEMPLOYED					No	TOTAL	
	<=1	1-3	4-6	7-12	>=12	Response		
Biochemistry	1 9.1% 4.2%	1 9.1% 1.6%	1 9.1% 3.4%	1 9.1% 2.6%	7 63.6% 8.5%	0 0.0% 0.0%	11 100.0% 4.2%	-Count -% of Row -% of Col
Biotechnology	0 0.0% 0.0%	1 14.3% 1.6%	3 42.9% 10.3%	0 0.0% 0.0%	2 28.6% 2.4%	1 14.3% 3.4%	7 100.0% 2.7%	
General chemistry	1 4.8% 4.2%	5 23.8% 8.2%	0 0.0% 0.0%	5 23.8% 12.8%	9 42.9% 11.0%	1 4.8% 3.4%	21 100.0% 8.0%	
Analytical chemistry	6 12.2% 25.0%	10 20.4% 16.4%	8 16.3% 27.6%	9 18.4% 23.1%	12 24.5% 14.6%	4 8.2% 13.8%	49 100.0% 18.6%	
Inorganic chemistry	2 12.5% 8.3%	6 37.5% 9.8%	2 12.5% 6.9%	3 18.8% 7.7%	1 6.3% 1.2%	2 12.5% 6.9%	16 100.0% 6.1%	
Organic chemistry	7 17.9% 29.2%	10 25.6% 16.4%	2 5.1% 6.9%	9 23.1% 23.1%	9 23.1% 11.0%	2 5.1% 6.9%	39 100.0% 14.8%	
Polymer chemistry	2 6.7% 8.3%	7 23.3% 11.5%	7 23.3% 24.1%	2 6.7% 5.1%	7 23.3% 8.5%	5 16.7% 17.2%	30 100.0% 11.4%	
Pharmaceutical chemistry	0 0.0% 0.0%	2 25.0% 3.3%	0 0.0% 0.0%	2 25.0% 5.1%	3 37.5% 3.7%	1 12.5% 3.4%	8 100.0% 3.0%	
Medicinal/clinical chemistry	0 0.0% 0.0%	1 10.0% 1.6%	2 20.0% 6.9%	1 10.0% 2.6%	5 50.0% 6.1%	1 10.0% 3.4%	10 100.0% 3.8%	
Theoretical chemistry	0 ***. ** 0.0%	0 ***. ** 0.0%	0 ***. ** 0.0%	0 ***. ** 0.0%	0 ***. ** 0.0%	0 ***. ** 0.0%	0 ***. ** 0.0%	
Environmental chemistry	2 10.5% 8.3%	4 21.1% 6.6%	1 5.3% 3.4%	0 0.0% 0.0%	9 47.4% 11.0%	3 15.8% 10.3%	19 100.0% 7.2%	
Agricultural/food chemistry	0 0.0% 0.0%	2 50.0% 3.3%	1 25.0% 3.4%	0 0.0% 0.0%	0 0.0% 0.0%	1 25.0% 3.4%	4 100.0% 1.5%	
Physical chemistry	1 5.6% 4.2%	7 38.9% 11.5%	0 0.0% 0.0%	2 11.1% 5.1%	4 22.2% 4.9%	4 22.2% 13.8%	18 100.0% 6.8%	
Other chemistry	0 0.0% 0.0%	3 21.4% 4.9%	0 0.0% 0.0%	2 14.3% 5.1%	7 50.0% 8.5%	2 14.3% 6.9%	14 100.0% 5.3%	
Non-chemistry	2 11.1% 8.3%	2 11.1% 3.3%	2 11.1% 6.9%	3 16.7% 7.7%	7 38.9% 8.5%	2 11.1% 6.9%	18 100.0% 6.8%	
TOTAL	24 9.1% 100.0%	61 23.1% 100.0%	29 11.0% 100.0%	39 14.8% 100.0%	82 31.1% 100.0%	29 11.0% 100.0%	264 100.0% 100.0%	



Table 10.1.0

ALL RESPONDENTS  
according to SEX and HIGHEST DEGREE  
1986 Survey of ACS Members

SEX	HIGHEST DEGREE				TOTAL	
	Bachelors	Masters	Doctorate	No Response		
Men	2,055	1,629	5,345	64	9,093	-Count
	22.6%	17.9%	58.8%	0.7%	100.0%	-% of Row
	77.9%	78.2%	89.4%	67.4%	84.2%	-% of Col
Women	581	449	621	17	1,668	
	34.8%	26.9%	37.2%	1.0%	100.0%	
	22.0%	21.5%	10.4%	17.9%	15.5%	
No Response	3	6	11	14	34	
	8.8%	17.6%	32.4%	41.2%	100.0%	
	0.1%	0.3%	0.2%	14.7%	0.3%	
TOTAL	2,639	2,084	5,977	95	10,795	
	24.4%	19.3%	55.4%	0.9%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	

Table 10.2.0

ALL RESPONDENTS  
according to AGE and HIGHEST DEGREE  
1986 Survey of ACS Members

AGE LEVEL	HIGHEST DEGREE				TOTAL	
	Bachelors	Masters	Doctorate	No Response		
20-24	191	15	9	0	215	-Count
	88.8%	7.0%	4.2%	0.0%	100.0%	-% of Row
	7.2%	0.7%	0.2%	0.0%	2.0%	-% of Col
25-29	492	238	351	7	1,088	
	45.2%	21.9%	32.3%	0.6%	100.0%	
	18.6%	11.4%	5.9%	7.4%	10.1%	
30-34	419	386	857	11	1,673	
	25.0%	23.1%	51.2%	0.7%	100.0%	
	15.9%	18.5%	14.3%	11.6%	15.5%	
35-39	306	344	908	9	1,567	
	19.5%	22.0%	57.9%	0.6%	100.0%	
	11.6%	16.5%	15.2%	9.5%	14.5%	
40-44	290	344	1,238	13	1,885	
	15.4%	18.2%	65.7%	0.7%	100.0%	
	11.0%	16.5%	20.7%	13.7%	17.5%	
45-49	149	140	657	14	960	
	15.5%	14.6%	68.4%	1.5%	100.0%	
	5.6%	6.7%	11.0%	14.7%	8.9%	
50-54	192	164	697	7	1,060	
	18.1%	15.5%	65.8%	0.7%	100.0%	
	7.3%	7.9%	11.7%	7.4%	9.8%	
55-59	296	241	650	6	1,193	
	24.8%	20.2%	54.5%	0.5%	100.0%	
	11.2%	11.6%	10.9%	6.3%	11.1%	
60-64	208	142	380	11	741	
	28.1%	19.2%	51.3%	1.5%	100.0%	
	7.9%	6.8%	6.4%	11.6%	6.9%	
65-69	61	44	151	2	258	
	23.6%	17.1%	58.5%	0.8%	100.0%	
	2.3%	2.1%	2.5%	2.1%	2.4%	
>=70	0	0	7	0	7	
	0.0%	0.0%	100.0%	0.0%	100.0%	
	0.0%	0.0%	0.1%	0.0%	0.1%	
No Response	35	26	72	15	148	
	23.6%	17.6%	48.6%	10.1%	100.0%	
	1.3%	1.2%	1.2%	15.8%	1.4%	
TOTAL	2,639	2,084	5,977	95	10,795	
	24.4%	19.3%	55.4%	0.9%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	



Table 10.2.1

RESPONDENTS - Men only  
according to AGE and HIGHEST DEGREE  
1986 Survey of ACS Members

AGE LEVEL	HIGHEST DEGREE				TOTAL	
	Bachelors	Masters	Doctorate	No Response		
20-24	102	6	5	0	113	-Count
	90.3%	5.3%	4.4%	0.0%	100.0%	-% of Row
	5.0%	0.4%	0.1%	0.0%	1.2%	-% of Col
25-29	313	142	270	6	731	
	42.8%	19.4%	36.9%	0.8%	100.0%	
	15.2%	8.7%	5.1%	9.4%	8.0%	
30-34	301	284	717	7	1,309	
	23.0%	21.7%	54.8%	0.5%	100.0%	
	14.6%	17.4%	13.4%	10.9%	14.4%	
35-39	253	269	797	6	1,325	
	19.1%	20.3%	60.2%	0.5%	100.0%	
	12.3%	16.5%	14.9%	9.4%	14.6%	
40-44	242	275	1,121	9	1,647	
	14.7%	16.7%	68.1%	0.5%	100.0%	
	11.8%	16.9%	21.0%	14.1%	18.1%	
45-49	129	110	591	14	844	
	15.3%	13.0%	70.0%	1.7%	100.0%	
	6.3%	6.8%	11.1%	21.9%	9.3%	
50-54	169	136	659	6	970	
	17.4%	14.0%	67.9%	0.6%	100.0%	
	8.2%	8.3%	12.3%	9.4%	10.7%	
55-59	269	220	611	5	1,105	
	24.3%	19.9%	55.3%	0.5%	100.0%	
	13.1%	13.5%	11.4%	7.8%	12.2%	
60-64	189	126	360	9	684	
	27.6%	18.4%	52.6%	1.3%	100.0%	
	9.2%	7.7%	6.7%	14.1%	7.5%	
65-69	59	40	145	2	246	
	24.0%	16.3%	58.9%	0.8%	100.0%	
	2.9%	2.5%	2.7%	3.1%	2.7%	
>=70	0	0	6	0	6	
	0.0%	0.0%	100.0%	0.0%	100.0%	
	0.0%	0.0%	0.1%	0.0%	0.1%	
No Response	29	21	63	0	113	
	25.7%	18.6%	55.8%	0.0%	100.0%	
	1.4%	1.3%	1.2%	0.0%	1.2%	
TOTAL	2,055	1,629	5,345	64	9,093	
	22.6%	17.9%	58.8%	0.7%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	

Table 10.2.2

RESPONDENTS - Women only  
according to AGE and HIGHEST DEGREE  
1986 Survey of ACS Members

AGE LEVEL	HIGHEST DEGREE				TOTAL	
	Bachelors	Masters	Doctorate	No Response		
20-24	89	9	2	0	100	-Count
	89.0%	9.0%	2.0%	0.0%	100.0%	-% of Row
	15.3%	2.0%	0.3%	0.0%	6.0%	-% of Col
25-29	178	96	81	1	356	
	50.0%	27.0%	22.8%	0.3%	100.0%	
	30.6%	21.4%	13.0%	5.9%	21.3%	
30-34	117	102	140	4	363	
	32.2%	28.1%	38.6%	1.1%	100.0%	
	20.1%	22.7%	22.5%	23.5%	21.8%	
35-39	53	75	110	3	241	
	22.0%	31.1%	45.6%	1.2%	100.0%	
	9.1%	16.7%	17.7%	17.6%	14.4%	
40-44	48	68	115	4	235	
	20.4%	28.9%	48.9%	1.7%	100.0%	
	8.3%	15.1%	18.5%	23.5%	14.1%	
45-49	20	30	66	0	116	
	17.2%	25.9%	56.9%	0.0%	100.0%	
	3.4%	6.7%	10.6%	0.0%	7.0%	
50-54	23	28	37	1	89	
	25.8%	31.5%	41.6%	1.1%	100.0%	
	4.0%	6.2%	6.0%	5.9%	5.3%	
55-59	27	19	39	1	86	
	31.4%	22.1%	45.3%	1.2%	100.0%	
	4.6%	4.2%	6.3%	5.9%	5.2%	
60-64	18	15	20	2	55	
	32.7%	27.3%	36.4%	3.6%	100.0%	
	3.1%	3.3%	3.2%	11.8%	3.3%	
65-69	2	4	6	0	12	
	16.7%	33.3%	50.0%	0.0%	100.0%	
	0.3%	0.9%	1.0%	0.0%	0.7%	
>=70	0	0	1	0	1	
	0.0%	0.0%	100.0%	0.0%	100.0%	
	0.0%	0.0%	0.2%	0.0%	0.1%	
No Response	6	3	4	1	14	
	42.9%	21.4%	28.6%	7.1%	100.0%	
	1.0%	0.7%	0.6%	5.9%	0.8%	
TOTAL	581	449	621	17	1,668	
	34.8%	26.9%	37.2%	1.0%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	

Table 10.3.0

ALL RESPONDENTS  
according to WORK SPECIALTY and HIGHEST DEGREE  
1986 Survey of ACS Members

WORK SPECIALTY	HIGHEST DEGREE				TOTAL	
	Bachelors	Masters	Doctorate	No Response		
Chemical engineering	207 29.3% 7.8%	177 25.1% 8.5%	318 45.0% 5.3%	4 0.6% 4.2%	706	-Count 100.0% 6.5% -% of Row -% of Col
Biochemistry	54 8.6% 2.0%	58 9.2% 2.8%	514 81.7% 8.6%	3 0.5% 3.2%	629	100.0% 5.8%
Biotechnology	28 14.7% 1.1%	33 17.3% 1.6%	129 67.5% 2.2%	1 0.5% 1.1%	191	100.0% 1.8%
General chemistry	119 25.2% 4.5%	151 31.9% 7.2%	201 42.5% 3.4%	2 0.4% 2.1%	473	100.0% 4.4%
Analytical chemistry	734 39.2% 27.8%	429 22.9% 20.6%	703 37.5% 11.8%	7 0.4% 7.4%	1,873	100.0% 17.4%
Inorganic chemistry	64 13.0% 2.4%	45 9.1% 2.2%	381 77.1% 6.4%	4 0.8% 4.2%	494	100.0% 4.6%
Organic chemistry	215 16.7% 8.1%	192 14.9% 9.2%	872 67.7% 14.6%	9 0.7% 9.5%	1,288	100.0% 11.9%
Polymer chemistry	325 28.5% 12.3%	207 18.1% 9.9%	598 52.4% 10.0%	11 1.0% 11.6%	1,141	100.0% 10.6%
Pharmaceutical chemistry	88 28.7% 3.3%	51 16.6% 2.4%	165 53.7% 2.8%	3 1.0% 3.2%	307	100.0% 2.8%
Medicinal/clinical chemistry	44 13.3% 1.7%	52 15.7% 2.5%	233 70.2% 3.9%	3 0.9% 3.2%	332	100.0% 3.1%
Theoretical chemistry	3 3.8% 0.1%	2 2.5% 0.1%	73 91.3% 1.2%	2 2.5% 2.1%	80	100.0% 0.7%
Environmental chemistry	202 33.4% 7.7%	155 25.7% 7.4%	241 39.9% 4.0%	6 1.0% 6.3%	604	100.0% 5.6%
Agricultural/food chemistry	61 19.6% 2.3%	53 17.0% 2.5%	194 62.4% 3.2%	3 1.0% 3.2%	311	100.0% 2.9%
Physical chemistry	57 9.0% 2.2%	51 8.1% 2.4%	521 82.3% 8.7%	4 0.6% 4.2%	633	100.0% 5.9%
Other chemistry	83 24.7% 3.1%	89 26.5% 4.3%	161 47.9% 2.7%	3 0.9% 3.2%	336	100.0% 3.1%
Non-chemistry	227 25.3% 8.6%	226 25.2% 10.8%	436 48.7% 7.3%	7 0.8% 7.4%	896	100.0% 8.3%
No Response	128 25.5% 4.9%	113 22.6% 5.4%	237 47.3% 4.0%	23 4.6% 24.2%	501	100.0% 4.6%
TOTAL	2,639 24.4% 100.0%	2,084 19.3% 100.0%	5,977 55.4% 100.0%	95 0.9% 100.0%	10,795	100.0% 100.0% 100.0%

Table 10.4.0

ALL RESPONDENTS  
according to RACE/ETHNICITY and HIGHEST DEGREE  
1986 Survey of ACS Members

RACE/ETHNICITY	HIGHEST DEGREE				TOTAL	
	Bachelors	Masters	Doctorate	No Response		
Black	30	31	58	1	120	-Count
	25.0%	25.8%	48.3%	0.8%	100.0%	-% of Row
	1.1%	1.5%	1.0%	1.1%	1.1%	-% of Col
Hispanic	38	23	54	0	115	
	33.0%	20.0%	47.0%	0.0%	100.0%	
	1.4%	1.1%	0.9%	0.0%	1.1%	
American Indian	7	1	8	0	16	
	43.8%	6.3%	50.0%	0.0%	100.0%	
	0.3%	0.0%	0.1%	0.0%	0.1%	
Asian	72	91	445	6	614	
	11.7%	14.8%	72.5%	1.0%	100.0%	
	2.7%	4.4%	7.4%	6.3%	5.7%	
White	2,467	1,887	5,299	71	9,724	
	25.4%	19.4%	54.5%	0.7%	100.0%	
	93.5%	90.5%	88.7%	74.7%	90.1%	
Other Race	6	19	33	2	60	
	10.0%	31.7%	55.0%	3.3%	100.0%	
	0.2%	0.9%	0.6%	2.1%	0.6%	
No Response	19	32	80	15	146	
	13.0%	21.9%	54.8%	10.3%	100.0%	
	0.7%	1.5%	1.3%	15.8%	1.4%	
TOTAL	2,639	2,084	5,977	95	10,795	
	24.4%	19.3%	55.4%	0.9%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	

Table 10.5.0

ALL RESPONDENTS  
according to RACE/ETHNICITY and SEX  
1986 Survey of ACS Members

RACE/ETHNICITY	SEX			TOTAL	
	Men	Women	No Response		
Black	96	22	2	120	-Count
	80.0%	18.3%	1.7%	100.0%	-% of Row
	1.1%	1.3%	5.9%	1.1%	-% of Col
Hispanic	83	31	1	115	
	72.2%	27.0%	0.9%	100.0%	
	0.9%	1.9%	2.9%	1.1%	
American Indian	15	1	0	16	
	93.8%	6.3%	0.0%	100.0%	
	0.2%	0.1%	0.0%	0.1%	
Asian	511	103	0	614	
	83.2%	16.8%	0.0%	100.0%	
	5.6%	6.2%	0.0%	5.7%	
White	8,230	1,484	10	9,724	
	84.6%	15.3%	0.1%	100.0%	
	90.5%	89.0%	29.4%	90.1%	
Other Race	50	10	0	60	
	83.3%	16.7%	0.0%	100.0%	
	0.5%	0.6%	0.0%	0.6%	
No Response	108	17	21	146	
	74.0%	11.6%	14.4%	100.0%	
	1.2%	1.0%	61.8%	1.4%	
TOTAL	9,093	1,668	34	10,795	
	84.2%	15.5%	0.3%	100.0%	
	100.0%	100.0%	100.0%	100.0%	

Table 10.6.0

ALL RESPONDENTS  
according to RACE/ETHNICITY and CITIZENSHIP  
1986 Survey of ACS Members

CITIZENSHIP	ETHNICITY							TOTAL	
	Black	Hispanic	American Indian	Asian	White	Other Race	No Response		
U.S. Native	92 1.0% 76.7%	69 0.7% 60.0%	14 0.1% 87.5%	97 1.0% 15.8%	9,005 95.7% 92.6%	25 0.3% 41.7%	104 1.1% 71.2%	9,406 100.0% 87.1%	-Count -% of Row -% of Col
U.S. Naturalized	7 0.8% 5.8%	30 3.5% 26.1%	0 0.0% 0.0%	338 39.1% 55.0%	461 53.3% 4.7%	18 2.1% 30.0%	11 1.3% 7.5%	865 100.0% 8.0%	
U.S. Permanent Visa	9 2.3% 7.5%	12 3.1% 10.4%	0 0.0% 0.0%	138 35.8% 22.5%	205 53.2% 2.1%	15 3.9% 25.0%	6 1.6% 4.1%	385 100.0% 3.6%	
Other Visa	0 0.0% 0.0%	1 1.2% 0.9%	1 1.2% 6.3%	38 46.3% 6.2%	39 47.6% 0.4%	2 2.4% 3.3%	1 1.2% 0.7%	82 100.0% 0.8%	
No Response	12 21.1% 10.0%	3 5.3% 2.6%	1 1.8% 6.3%	3 5.3% 0.5%	14 24.6% 0.1%	0 0.0% 0.0%	24 42.1% 16.4%	57 100.0% 0.5%	
TOTAL	120 1.1% 100.0%	115 1.1% 100.0%	16 0.1% 100.0%	614 5.7% 100.0%	9,724 90.1% 100.0%	60 0.6% 100.0%	146 1.4% 100.0%	10,795 100.0% 100.0%	

Table 10.7.0

ALL RESPONDENTS  
according to LOCAL SECTION and WORK SPECIALTY  
1986 Survey of ACS Members

LOCAL SECTION	WORK SPECIALTY																	TOTAL	
	Chem. eng.	Bio-chem.	Bio-tech.	Gen. chem.	Anal. chem.	Inorg. chem.	Org. chem.	Polymer chem.	Pharm. chem.	Med/clin. chemistry	Theore. chem.	Environ. chem.	Agri/food chemistry	Phys. chem.	Other chem.	Non-chem.	No Response		
Orange Cty	12 6.5% 1.7%	9 4.9% 1.4%	2 1.1% 1.0%	10 5.4% 2.1%	39 21.1% 2.1%	8 4.3% 1.6%	12 6.5% 0.9%	16 8.6% 1.4%	5 2.7% 1.6%	6 3.2% 1.8%	2 1.1% 2.5%	10 5.4% 1.7%	3 1.6% 1.0%	9 4.9% 1.4%	2 1.1% 0.6%	33 17.8% 3.7%	7 3.8% 1.4%	185 100.0% 1.7%	-Count -% of Row -% of Col
Santa Clara	13 5.7% 1.8%	9 3.9% 1.4%	11 4.8% 5.8%	8 3.5% 1.7%	48 21.1% 2.6%	12 5.3% 2.4%	18 7.9% 1.4%	17 7.5% 1.5%	7 3.1% 2.3%	7 3.1% 2.1%	2 0.9% 2.5%	11 4.8% 1.8%	9 3.9% 2.9%	19 8.3% 3.0%	8 3.5% 2.4%	21 9.2% 2.3%	8 3.5% 1.6%	228 100.0% 2.1%	
Southern California	18 6.9% 2.5%	24 9.3% 3.8%	8 3.1% 4.2%	14 5.4% 3.0%	40 15.4% 2.1%	9 3.5% 1.8%	22 8.5% 1.7%	22 8.5% 1.9%	2 0.8% 0.7%	7 2.7% 2.1%	2 0.7% 2.5%	19 7.3% 3.1%	4 1.5% 1.3%	21 8.1% 3.3%	8 3.1% 2.4%	27 10.4% 3.0%	12 4.6% 2.4%	259 100.0% 2.4%	
California	19 6.8% 2.7%	16 5.7% 2.5%	9 3.2% 4.7%	15 5.4% 3.2%	47 16.8% 2.5%	12 4.3% 2.4%	32 11.4% 2.5%	13 4.6% 1.1%	4 1.4% 1.3%	6 2.1% 1.8%	2 0.7% 2.5%	19 6.8% 3.1%	14 5.0% 4.5%	15 5.4% 2.4%	14 5.0% 4.2%	27 9.6% 3.0%	16 5.7% 3.2%	280 100.0% 2.6%	
Chicago	30 5.4% 4.2%	27 4.9% 4.3%	11 2.0% 5.8%	19 3.4% 4.0%	99 17.9% 5.3%	32 5.8% 6.5%	54 9.7% 4.2%	63 11.4% 5.5%	19 3.4% 6.2%	22 4.0% 6.6%	3 0.5% 3.8%	24 4.3% 4.0%	27 4.9% 8.7%	27 4.9% 4.3%	17 3.1% 5.1%	55 9.9% 5.0%	25 4.5% 5.0%	554 100.0% 5.1%	
Cleveland	12 8.1% 1.7%	3 2.0% 0.5%	3 2.0% 1.6%	8 5.4% 1.7%	24 16.1% 2.0%	10 6.7% 2.0%	14 9.4% 1.1%	24 16.1% 2.1%	2 1.3% 0.7%	2 1.3% 0.6%	1 0.7% 1.3%	4 2.7% 1.0%	3 2.0% 2.1%	13 8.7% 2.1%	5 3.4% 1.5%	14 9.4% 1.5%	7 4.7% 1.4%	149 100.0% 4.7%	
Minnesota	12 6.7% 1.7%	6 3.4% 1.0%	3 1.7% 1.6%	7 3.9% 1.5%	30 16.9% 1.6%	7 3.9% 1.4%	22 12.4% 1.7%	36 20.2% 3.2%	1 0.6% 0.3%	3 1.7% 0.9%	1 0.6% 1.3%	3 1.7% 0.5%	9 5.1% 2.9%	7 3.9% 1.1%	3 1.7% 0.9%	16 9.0% 1.8%	12 6.7% 2.4%	178 100.0% 1.6%	
New York	19 4.2% 2.7%	27 5.9% 4.3%	6 1.3% 3.1%	19 4.2% 4.0%	78 17.1% 4.2%	16 3.5% 3.2%	53 11.6% 4.1%	37 8.1% 3.2%	18 3.9% 5.9%	32 7.0% 9.6%	7 1.5% 8.8%	25 5.5% 4.1%	9 2.0% 2.9%	31 6.8% 4.9%	14 3.1% 4.2%	43 9.4% 4.8%	22 4.8% 4.4%	456 100.0% 4.2%	
Northeastern	38 6.3% 5.4%	54 8.9% 8.6%	19 3.1% 9.9%	19 3.1% 4.0%	81 13.3% 4.3%	29 4.8% 5.9%	83 13.7% 6.4%	89 14.7% 7.8%	20 3.3% 6.5%	19 3.1% 5.7%	0 0.0% 0.0%	24 4.0% 4.0%	7 1.2% 2.3%	38 6.3% 6.0%	8 1.3% 2.4%	42 6.9% 4.7%	37 6.1% 7.4%	607 100.0% 5.6%	
North Jersey	46 6.9% 6.5%	29 4.3% 4.6%	15 2.2% 7.9%	25 3.7% 5.3%	116 17.3% 6.2%	20 3.0% 4.0%	83 12.4% 6.4%	78 11.7% 6.8%	39 5.8% 12.7%	26 3.9% 7.8%	3 0.4% 3.8%	20 3.0% 3.3%	16 2.4% 5.1%	36 5.4% 5.7%	24 3.6% 7.1%	61 9.1% 6.8%	32 4.8% 6.4%	669 100.0% 6.2%	
Philadelphia	30 5.9% 4.2%	25 4.0% 4.0%	4 0.8% 2.1%	19 3.7% 4.0%	77 15.1% 4.1%	25 4.9% 5.1%	77 15.1% 6.0%	75 14.7% 6.6%	20 3.9% 6.5%	31 6.1% 9.3%	4 0.8% 5.0%	24 4.7% 4.0%	21 4.1% 6.8%	16 3.1% 2.5%	7 1.4% 2.1%	29 5.7% 3.2%	25 4.9% 5.0%	509 100.0% 4.7%	
Pittsburgh	21 12.0% 3.0%	3 1.7% 0.5%	0 0.0% 0.0%	7 4.0% 1.5%	32 18.3% 1.7%	6 3.4% 1.2%	20 11.4% 1.6%	34 19.4% 3.0%	1 0.6% 0.3%	4 2.3% 1.2%	1 0.6% 1.3%	11 6.3% 1.8%	0 0.0% 0.0%	8 4.6% 1.3%	6 3.4% 1.8%	17 9.7% 1.9%	4 2.3% 0.8%	175 100.0% 1.6%	
Southeastern Texas	30 10.9% 4.2%	12 4.4% 1.9%	4 1.5% 2.1%	10 3.6% 2.1%	50 18.2% 2.7%	12 4.4% 2.4%	36 13.1% 2.8%	24 8.8% 2.1%	5 1.8% 1.6%	3 1.1% 0.9%	1 0.4% 1.3%	22 8.0% 3.6%	4 1.5% 1.3%	13 4.7% 2.1%	7 2.6% 2.1%	29 10.6% 3.2%	12 4.4% 2.4%	274 100.0% 2.5%	
St. Louis	10 5.2% 1.4%	17 8.8% 2.7%	6 3.1% 3.1%	11 5.7% 2.3%	29 15.0% 1.5%	7 3.6% 1.4%	33 17.1% 2.6%	14 7.3% 1.2%	3 1.6% 1.0%	5 2.6% 1.5%	0 0.0% 0.0%	4 2.1% 0.7%	18 9.3% 5.8%	11 5.7% 1.7%	5 2.6% 1.5%	11 5.7% 1.2%	9 4.7% 1.8%	193 100.0% 1.8%	
Washington, D.C.	16 4.0% 2.3%	37 9.2% 5.9%	9 2.2% 4.7%	23 5.7% 4.9%	58 14.4% 3.1%	13 3.2% 2.6%	26 6.5% 2.0%	14 3.5% 1.2%	12 3.0% 3.9%	12 3.0% 3.6%	2 0.5% 2.5%	35 8.7% 5.8%	14 3.5% 4.5%	35 8.7% 5.5%	22 5.5% 6.5%	58 14.4% 6.5%	17 4.2% 3.4%	403 100.0% 3.7%	
Other Local Section	342 6.6% 48.4%	303 5.8% 48.2%	72 1.4% 37.7%	243 4.7% 51.4%	967 18.5% 51.6%	261 5.0% 52.8%	647 12.4% 50.2%	553 10.6% 48.5%	137 2.6% 44.6%	132 2.5% 39.8%	47 0.9% 58.8%	320 6.1% 53.0%	142 2.7% 45.7%	301 5.8% 47.6%	162 3.1% 48.2%	378 7.2% 42.2%	210 4.0% 41.9%	5,217 100.0% 48.3%	
No Response	38 8.3% 5.4%	28 6.1% 4.5%	9 2.0% 4.7%	16 3.5% 3.4%	58 12.6% 3.1%	15 3.3% 3.0%	56 12.2% 4.3%	32 7.0% 2.8%	12 2.6% 3.9%	15 3.3% 4.5%	2 0.4% 2.5%	29 6.3% 4.8%	11 2.4% 3.5%	33 7.2% 5.2%	24 5.2% 7.1%	35 7.6% 3.9%	46 10.0% 9.2%	459 100.0% 4.3%	
TOTAL	706 6.5% 100.0%	629 4.9% 100.0%	191 1.8% 100.0%	473 4.4% 100.0%	1,873 17.4% 100.0%	494 4.6% 100.0%	1,288 11.9% 100.0%	1,141 10.6% 100.0%	307 2.8% 100.0%	332 3.1% 100.0%	80 0.7% 100.0%	604 5.6% 100.0%	311 2.9% 100.0%	633 5.9% 100.0%	336 3.1% 100.0%	896 8.3% 100.0%	501 4.6% 100.0%	10,795 100.0% 100.0%	

Table 10.8.0

ALL RESPONDENTS  
according to LOCAL SECTION and EMPLOYMENT STATUS  
1986 Survey of ACS Members

LOCAL SECTION	EMPLOYMENT STATUS						TOTAL	
	Employed full-time	Employed part-time	Postdoc. or other fellow.	Un-employed seeking	Un-employed Not seek.	No Response		
Orange Cty	166 89.7% 1.7%	8 4.3% 4.5%	0 0.0% 0.0%	3 1.6% 1.6%	1 0.5% 0.7%	7 3.8% 11.9%	185	-Count -% of Row -% of Col
Santa Clara	217 95.2% 2.2%	1 0.4% 0.6%	5 2.2% 2.7%	4 1.8% 2.1%	0 0.0% 0.0%	1 0.4% 1.7%	228	100.0% 2.1%
Southern California	238 91.9% 2.4%	5 1.9% 2.8%	6 2.3% 3.2%	5 1.9% 2.6%	3 1.2% 2.1%	2 0.8% 3.4%	259	100.0% 2.4%
California	258 92.1% 2.6%	4 1.4% 2.3%	6 2.1% 3.2%	5 1.8% 2.6%	7 2.5% 4.8%	0 0.0% 0.0%	280	100.0% 2.6%
Chicago	513 92.6% 5.1%	5 0.9% 2.8%	17 3.1% 9.2%	11 2.0% 5.8%	8 1.4% 5.5%	0 0.0% 0.0%	554	100.0% 5.1%
Cleveland	141 94.6% 1.4%	2 1.3% 1.1%	2 1.3% 1.1%	3 2.0% 1.6%	1 0.7% 0.7%	0 0.0% 0.0%	149	100.0% 1.4%
Minnesota	170 95.5% 1.7%	1 0.6% 0.6%	3 1.7% 1.6%	2 1.1% 1.1%	2 1.1% 1.4%	0 0.0% 0.0%	178	100.0% 1.6%
New York	435 95.4% 4.3%	7 1.5% 4.0%	4 0.9% 2.2%	6 1.3% 3.2%	1 0.2% 0.7%	3 0.7% 5.1%	456	100.0% 4.2%
Northeastern	558 91.9% 5.6%	12 2.0% 6.8%	20 3.3% 10.8%	8 1.3% 4.2%	9 1.5% 6.2%	0 0.0% 0.0%	607	100.0% 5.6%
North Jersey	625 93.4% 6.2%	8 1.2% 4.5%	4 0.6% 2.2%	25 3.7% 13.2%	6 0.9% 4.1%	1 0.1% 1.7%	669	100.0% 6.2%
Philadelphia	476 93.5% 4.7%	11 2.2% 6.3%	9 1.8% 4.9%	9 1.8% 4.8%	3 0.6% 2.1%	1 0.2% 1.7%	509	100.0% 4.7%
Pittsburgh	159 90.9% 1.6%	3 1.7% 1.7%	3 1.7% 1.6%	5 2.9% 2.6%	4 2.3% 2.7%	1 0.6% 1.7%	175	100.0% 1.6%
Southeastern Texas	244 89.1% 2.4%	2 0.7% 1.1%	7 2.6% 3.8%	14 5.1% 7.4%	6 2.2% 4.1%	1 0.4% 1.7%	274	100.0% 2.5%
St. Louis	177 91.7% 1.8%	2 1.0% 1.1%	3 1.6% 1.6%	6 3.1% 3.2%	5 2.6% 3.4%	0 0.0% 0.0%	193	100.0% 1.8%
Washington, D.C.	378 93.8% 3.8%	5 1.2% 2.8%	8 2.0% 4.3%	6 1.5% 3.2%	4 1.0% 2.7%	2 0.5% 3.4%	403	100.0% 3.7%
Other Local Section	4,892 93.8% 48.7%	86 1.6% 48.9%	77 1.5% 41.6%	72 1.4% 38.1%	76 1.5% 52.1%	14 0.3% 23.7%	5,217	100.0% 48.3%
No Response	393 85.6% 3.9%	14 3.1% 8.0%	11 2.4% 5.9%	5 1.1% 2.6%	10 2.2% 6.8%	26 5.7% 44.1%	459	100.0% 4.3%
TOTAL	10,040 93.0% 100.0%	176 1.6% 100.0%	185 1.7% 100.0%	189 1.8% 100.0%	146 1.4% 100.0%	59 0.5% 100.0%	10,795	100.0% 100.0%



Table 10.9.0

ALL RESPONDENTS  
according to LOCAL SECTION and SEX  
1986 Survey of ACS Members

LOCAL SECTION	SEX			TOTAL	
	Men	Women	No Response		
Orange Cty	155	30	0	185	-Count
	83.8%	16.2%	0.0%	100.0%	-% of Row
	1.7%	1.8%	0.0%	1.7%	-% of Col
Santa Clara	180	47	1	228	
	78.9%	20.6%	0.4%	100.0%	
	2.0%	2.8%	2.9%	2.1%	
Southern California	208	50	1	259	
	80.3%	19.3%	0.4%	100.0%	
	2.3%	3.0%	2.9%	2.4%	
California	234	46	0	280	
	83.6%	16.4%	0.0%	100.0%	
	2.6%	2.8%	0.0%	2.6%	
Chicago	465	87	2	554	
	83.9%	15.7%	0.4%	100.0%	
	5.1%	5.2%	5.9%	5.1%	
Cleveland	127	22	0	149	
	85.2%	14.8%	0.0%	100.0%	
	1.4%	1.3%	0.0%	1.4%	
Minnesota	155	23	0	178	
	87.1%	12.9%	0.0%	100.0%	
	1.7%	1.4%	0.0%	1.6%	
New York	379	77	0	456	
	83.1%	16.9%	0.0%	100.0%	
	4.2%	4.6%	0.0%	4.2%	
Northeastern	496	111	0	607	
	81.7%	18.3%	0.0%	100.0%	
	5.5%	6.7%	0.0%	5.6%	
North Jersey	556	112	1	669	
	83.1%	16.7%	0.1%	100.0%	
	6.1%	6.7%	2.9%	6.2%	
Philadelphia	421	87	1	509	
	82.7%	17.1%	0.2%	100.0%	
	4.6%	5.2%	2.9%	4.7%	
Pittsburgh	155	20	0	175	
	88.6%	11.4%	0.0%	100.0%	
	1.7%	1.2%	0.0%	1.6%	
Southeastern Texas	231	42	1	274	
	84.3%	15.3%	0.4%	100.0%	
	2.5%	2.5%	2.9%	2.5%	
St. Louis	160	32	1	193	
	82.9%	16.6%	0.5%	100.0%	
	1.8%	1.9%	2.9%	1.8%	
Washington, D.C.	321	82	0	403	
	79.7%	20.3%	0.0%	100.0%	
	3.5%	4.9%	0.0%	3.7%	
Other Local Section	4,468	739	10	5,217	
	85.6%	14.2%	0.2%	100.0%	
	49.1%	44.3%	29.4%	48.3%	
No Response	382	61	16	459	
	83.2%	13.3%	3.5%	100.0%	
	4.2%	3.7%	47.1%	4.3%	
TOTAL	9,093	1,668	34	10,795	
	84.2%	15.5%	0.3%	100.0%	
	100.0%	100.0%	100.0%	100.0%	

Table 10.10.0

ALL RESPONDENTS  
according to LOCAL SECTION and AGE LEVEL  
1986 Survey of ACS Members

LOCAL SECTION	AGE LEVEL											No Response	TOTAL	-Count -% of Row -% of Col	
	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	>=70				
Orange Cty	7 3.8% 3.3%	16 8.6% 1.5%	26 14.1% 1.6%	32 17.3% 2.0%	31 16.8% 1.6%	17 9.2% 1.8%	15 8.1% 1.4%	18 9.7% 1.5%	14 7.6% 1.9%	6 3.2% 2.3%	0 0.0% 0.0%	3 1.6% 2.0%	185 100.0% 1.7%		
Santa Clara	3 1.3% 1.4%	29 12.7% 2.7%	37 16.2% 2.2%	44 19.3% 2.8%	43 18.9% 2.3%	20 8.8% 2.1%	13 5.7% 1.2%	14 6.1% 1.2%	15 6.6% 2.0%	5 2.2% 1.9%	0 0.0% 0.0%	5 2.2% 3.4%	228 100.0% 2.1%		
Southern California	5 1.9% 2.3%	32 12.4% 2.9%	49 18.9% 2.9%	35 13.5% 2.2%	38 14.7% 2.0%	24 9.3% 2.5%	25 9.7% 2.4%	24 9.3% 2.0%	17 6.6% 2.3%	9 3.5% 3.5%	0 0.0% 0.0%	1 0.4% 0.7%	259 100.0% 2.4%		
California	4 1.4% 1.9%	29 10.4% 2.7%	48 17.1% 2.9%	52 18.6% 3.3%	48 17.1% 2.5%	19 6.8% 2.0%	29 10.4% 2.7%	30 10.7% 2.5%	15 5.4% 2.0%	1 0.4% 0.4%	0 0.0% 0.0%	5 1.8% 3.4%	280 100.0% 2.6%		
Chicago	18 3.2% 8.4%	61 11.0% 5.6%	102 18.4% 6.1%	77 13.9% 4.9%	86 15.5% 4.6%	41 7.4% 4.3%	51 9.2% 4.8%	58 10.5% 4.9%	44 7.9% 5.9%	13 2.3% 5.0%	0 0.0% 0.0%	3 0.5% 2.0%	554 100.0% 5.1%		
Cleveland	11 7.4% 5.1%	17 11.4% 1.6%	27 18.1% 1.6%	19 12.8% 1.2%	22 14.8% 1.2%	10 6.7% 1.0%	10 6.7% 0.9%	19 12.8% 1.6%	8 5.4% 1.1%	3 2.0% 1.2%	0 0.0% 0.0%	3 2.0% 2.0%	149 100.0% 1.4%		
Minnesota	1 0.6% 0.5%	18 10.1% 1.7%	27 15.2% 1.6%	37 20.8% 2.4%	45 25.3% 2.4%	14 7.9% 1.5%	13 7.3% 1.2%	10 5.6% 0.8%	5 2.8% 0.7%	3 1.7% 1.2%	1 0.6% 14.3%	4 2.2% 2.7%	178 100.0% 1.6%		
New York	13 2.9% 6.0%	48 10.5% 4.4%	59 12.9% 3.5%	64 14.0% 4.1%	68 14.9% 3.6%	34 7.5% 3.5%	46 10.1% 4.3%	53 11.6% 4.4%	41 9.0% 5.5%	24 5.3% 9.3%	0 0.0% 0.0%	6 1.3% 4.1%	456 100.0% 4.2%		
Northeastern	26 4.3% 12.1%	67 11.0% 6.2%	110 18.1% 6.6%	90 14.8% 5.7%	89 14.7% 4.7%	45 7.4% 4.7%	51 8.4% 4.8%	69 11.4% 5.8%	49 8.1% 6.6%	9 1.5% 3.5%	0 0.0% 0.0%	2 0.3% 1.4%	607 100.0% 5.6%		
North Jersey	16 2.4% 7.4%	57 8.5% 5.2%	109 16.3% 6.5%	106 15.8% 6.8%	107 16.0% 5.7%	40 6.0% 4.2%	72 10.8% 6.8%	76 11.4% 6.4%	56 8.4% 7.6%	18 2.7% 7.0%	1 0.1% 14.3%	11 1.6% 7.4%	669 100.0% 6.2%		
Philadelphia	15 2.9% 7.0%	58 11.4% 5.3%	85 16.7% 5.1%	85 16.7% 5.4%	68 13.4% 3.6%	41 8.1% 4.3%	39 7.7% 3.7%	59 11.6% 4.9%	38 7.5% 5.1%	15 2.9% 5.8%	0 0.0% 0.0%	6 1.2% 4.1%	509 100.0% 4.7%		
Pittsburgh	1 0.6% 0.5%	15 8.6% 1.4%	30 17.1% 1.8%	21 12.0% 1.3%	30 17.1% 1.6%	13 7.4% 1.4%	19 10.9% 1.8%	21 12.0% 1.8%	19 10.9% 2.6%	3 1.7% 1.2%	1 0.6% 14.3%	2 1.1% 1.4%	175 100.0% 1.6%		
Southeastern Texas	6 2.2% 2.8%	37 13.5% 3.4%	48 17.5% 2.9%	46 16.8% 2.9%	37 13.5% 2.0%	26 9.5% 2.7%	22 8.0% 2.1%	34 12.4% 2.8%	8 2.9% 1.1%	5 1.8% 1.9%	0 0.0% 0.0%	5 1.8% 3.4%	274 100.0% 2.5%		
St. Louis	5 2.6% 2.3%	21 10.9% 1.9%	41 21.2% 2.5%	31 16.1% 2.0%	39 20.2% 2.1%	8 4.1% 0.8%	10 5.2% 0.9%	16 8.3% 1.3%	14 7.3% 1.9%	3 1.6% 1.2%	0 0.0% 0.0%	5 2.6% 3.4%	193 100.0% 1.8%		
Washington, D.C.	7 1.7% 3.3%	39 9.7% 3.6%	37 9.2% 2.2%	50 12.4% 3.2%	77 19.1% 4.1%	43 10.7% 4.5%	63 15.6% 5.9%	44 10.9% 3.7%	25 6.2% 3.4%	12 3.0% 4.7%	1 0.2% 14.3%	5 1.2% 3.4%	403 100.0% 3.7%		
Other Local Section	70 1.3% 32.6%	498 9.5% 45.8%	779 14.9% 46.6%	717 13.7% 45.8%	980 18.8% 52.0%	525 10.1% 54.7%	541 10.4% 51.0%	587 11.3% 49.2%	340 6.5% 45.9%	116 2.2% 45.0%	3 0.1% 42.9%	61 1.2% 41.2%	5,217 100.0% 48.3%		
No Response	7 1.5% 3.3%	46 10.0% 4.2%	59 12.9% 3.5%	61 13.3% 3.9%	77 16.8% 4.1%	40 8.7% 4.2%	41 8.9% 3.9%	61 13.3% 5.1%	33 7.2% 4.5%	13 2.8% 5.0%	0 0.0% 0.0%	21 4.6% 14.2%	459 100.0% 4.3%		
TOTAL	215 2.0% 100.0%	1,088 10.1% 100.0%	1,673 15.5% 100.0%	1,567 14.5% 100.0%	1,885 17.5% 100.0%	960 8.9% 100.0%	1,060 9.8% 100.0%	1,193 11.1% 100.0%	741 6.9% 100.0%	258 2.4% 100.0%	7 0.1% 100.0%	148 1.4% 100.0%	10,795 100.0% 100.0%		

Table 10.11.0

ALL RESPONDENTS  
according to LOCAL SECTION and HIGHEST DEGREE  
1986 Survey of ACS Members

LOCAL SECTION	HIGHEST DEGREE				TOTAL	
	Bachelors	Masters	Doctorate	No Response		
Orange Cty	44 23.8% 1.7%	41 22.2% 2.0%	98 53.0% 1.6%	2 1.1% 2.1%	185 100.0% 1.7%	-Count -% of Row -% of Col
Santa Clara	53 23.2% 2.0%	43 18.9% 2.1%	131 57.5% 2.2%	1 0.4% 1.1%	228 100.0% 2.1%	
Southern California	69 26.6% 2.6%	67 25.9% 3.2%	121 46.7% 2.0%	2 0.8% 2.1%	259 100.0% 2.4%	
California	62 22.1% 2.3%	44 15.7% 2.1%	167 59.6% 2.8%	7 2.5% 7.4%	280 100.0% 2.6%	
Chicago	161 29.1% 6.1%	96 17.3% 4.6%	294 53.1% 4.9%	3 0.5% 3.2%	554 100.0% 5.1%	
Cleveland	61 40.9% 2.3%	25 16.8% 1.2%	63 42.3% 1.1%	0 0.0% 0.0%	149 100.0% 1.4%	
Minnesota	39 21.9% 1.5%	32 18.0% 1.5%	106 59.6% 1.8%	1 0.6% 1.1%	178 100.0% 1.6%	
New York	102 22.4% 3.9%	105 23.0% 5.0%	238 52.2% 4.0%	11 2.4% 11.6%	456 100.0% 4.2%	
Northeastern	151 24.9% 5.7%	116 19.1% 5.6%	336 55.4% 5.6%	4 0.7% 4.2%	607 100.0% 5.6%	
North Jersey	168 25.1% 6.4%	151 22.6% 7.2%	346 51.7% 5.8%	4 0.6% 4.2%	669 100.0% 6.2%	
Philadelphia	145 28.5% 5.5%	96 18.9% 4.6%	264 51.9% 4.4%	4 0.8% 4.2%	509 100.0% 4.7%	
Pittsburgh	54 30.9% 2.0%	32 18.3% 1.5%	88 50.3% 1.5%	1 0.6% 1.1%	175 100.0% 1.6%	
Southeastern Texas	83 30.3% 3.1%	47 17.2% 2.3%	141 51.5% 2.4%	3 1.1% 3.2%	274 100.0% 2.5%	
St. Louis	45 23.3% 1.7%	45 23.3% 2.2%	101 52.3% 1.7%	2 1.0% 2.1%	193 100.0% 1.8%	
Washington, D.C.	77 19.1% 2.9%	60 14.9% 2.9%	264 65.5% 4.4%	2 0.5% 2.1%	403 100.0% 3.7%	
Other Local Section	1,223 23.4% 46.3%	993 19.0% 47.6%	2,970 56.9% 49.7%	31 0.6% 32.6%	5,217 100.0% 48.3%	
No Response	102 22.2% 3.9%	91 19.8% 4.4%	249 54.2% 4.2%	17 3.7% 17.9%	459 100.0% 4.3%	
TOTAL	2,639 24.4% 100.0%	2,084 19.3% 100.0%	5,977 55.4% 100.0%	95 0.9% 100.0%	10,795 100.0% 100.0%	

Table 11.1.0

POSTDOCTORAL RESPONDENTS  
according to CITIZENSHIP and RACE/ETHNICITY  
1986 Survey of ACS Members

RACE/ETHNICITY	CITIZENSHIP					TOTAL	
	U.S. Native	U.S. Natural- ized	U.S. Perm. Visa	Other Visa	No Response		
Black	0 0.0% 0.0%	0 0.0% 0.0%	1 100.0% 7.7%	0 0.0% 0.0%	0 0.0% 0.0%	1	-Count -% of Row -% of Col
Hispanic	2 66.7% 1.5%	0 0.0% 0.0%	1 33.3% 7.7%	0 0.0% 0.0%	0 0.0% 0.0%	3	
American Indian	0 ***. *% 0.0%	0 ***. *% 0.0%	0 ***. *% 0.0%	0 ***. *% 0.0%	0 ***. *% 0.0%	0	
Asian	4 12.5% 3.0%	3 9.4% 50.0%	5 15.6% 38.5%	20 62.5% 62.5%	0 0.0% 0.0%	32	
White	127 86.4% 95.5%	3 2.0% 50.0%	5 3.4% 38.5%	11 7.5% 34.4%	1 0.7% 100.0%	147	
Other Race	0 0.0% 0.0%	0 0.0% 0.0%	1 100.0% 7.7%	0 0.0% 0.0%	0 0.0% 0.0%	1	
No Response	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	1 100.0% 3.1%	0 0.0% 0.0%	1	
TOTAL	133 71.9% 100.0%	6 3.2% 100.0%	13 7.0% 100.0%	32 17.3% 100.0%	1 0.5% 100.0%	185	

Table 11.2.0

POSTDOCTORAL RESPONDENTS  
according to SEX and DEGREE FIELD  
1986 Survey of ACS Members

DEGREE FIELD	SEX			TOTAL	
	Men	Women	No Response		
Chemical engineering	4 100.0% 2.6%	0 0.0% 0.0%	0 0.0% 0.0%	4 100.0% 2.2%	-Count -% of Row -% of Col
Biochemistry	32 80.0% 21.2%	8 20.0% 24.2%	0 0.0% 0.0%	40 100.0% 21.6%	
Chemistry	114 82.0% 75.5%	24 17.3% 72.7%	1 0.7% 100.0%	139 100.0% 75.1%	
Non-Chemistry	1 50.0% 0.7%	1 50.0% 3.0%	0 0.0% 0.0%	2 100.0% 1.1%	
No Response	0 ***. **% 0.0%	0 ***. **% 0.0%	0 ***. **% 0.0%	0 ***. **% 0.0%	
TOTAL	151 81.6% 100.0%	33 17.8% 100.0%	1 0.5% 100.0%	185 100.0% 100.0%	

Table 12.1.0

ACADEMIC RESPONDENTS  
according to TENURE STATUS and AGE LEVEL  
1986 Survey of ACS Members

AGE LEVEL	TENURE STATUS			TOTAL	
	Yes	No	No Response		
20-24	0 0.0% 0.0%	20 90.9% 2.3%	2 9.1% 2.9%	22 100.0% 1.0%	-Count -% of Row -% of Col
25-29	2 1.2% 0.1%	144 87.3% 16.8%	19 11.5% 27.9%	165 100.0% 7.2%	
30-34	33 10.8% 2.4%	257 84.0% 30.0%	16 5.2% 23.5%	306 100.0% 13.4%	
35-39	125 43.1% 9.2%	157 54.1% 18.3%	8 2.8% 11.8%	290 100.0% 12.7%	
40-44	337 72.6% 24.9%	114 24.6% 13.3%	13 2.8% 19.1%	464 100.0% 20.4%	
45-49	218 80.4% 16.1%	51 18.8% 5.9%	2 0.7% 2.9%	271 100.0% 11.9%	
50-54	217 81.9% 16.0%	43 16.2% 5.0%	5 1.9% 7.4%	265 100.0% 11.6%	
55-59	218 86.2% 16.1%	34 13.4% 4.0%	1 0.4% 1.5%	253 100.0% 11.1%	
60-64	129 84.3% 9.5%	22 14.4% 2.6%	2 1.3% 2.9%	153 100.0% 6.7%	
65-69	53 88.3% 3.9%	7 11.7% 0.8%	0 0.0% 0.0%	60 100.0% 2.6%	
>=70	4 100.0% 0.3%	0 0.0% 0.0%	0 0.0% 0.0%	4 100.0% 0.2%	
No Response	17 65.4% 1.3%	9 34.6% 1.0%	0 0.0% 0.0%	26 100.0% 1.1%	
TOTAL	1,353 59.4% 100.0%	858 37.6% 100.0%	68 3.0% 100.0%	2,279 100.0% 100.0%	

Table 12.2.0

ACADEMIC RESPONDENTS  
according to TENURE STATUS and SEX  
1986 Survey of ACS Members

SEX	TENURE STATUS			TOTAL	
	Yes	No	No Response		
Men	1,202	633	46	1,881	-Count
	63.9%	33.7%	2.4%	100.0%	-% of Row
	88.8%	73.8%	67.6%	82.5%	-% of Col
Women	145	222	22	389	
	37.3%	57.1%	5.7%	100.0%	
	10.7%	25.9%	32.4%	17.1%	
No Response	6	3	0	9	
	66.7%	33.3%	0.0%	100.0%	
	0.4%	0.3%	0.0%	0.4%	
TOTAL	1,353	858	68	2,279	
	59.4%	37.6%	3.0%	100.0%	
	100.0%	100.0%	100.0%	100.0%	

Table 12.3.0

ACADEMIC RESPONDENTS  
according to SEX and AGE LEVEL  
1986 Survey of ACS Members

AGE LEVEL	SEX			TOTAL	
	Men	Women	No Response		
20-24	13	9	0	22	-Count
	59.1%	40.9%	0.0%	100.0%	-% of Row
	0.7%	2.3%	0.0%	1.0%	-% of Col
25-29	116	49	0	165	
	70.3%	29.7%	0.0%	100.0%	
	6.2%	12.6%	0.0%	7.2%	
30-34	244	62	0	306	
	79.7%	20.3%	0.0%	100.0%	
	13.0%	15.9%	0.0%	13.4%	
35-39	227	62	1	290	
	78.3%	21.4%	0.3%	100.0%	
	12.1%	15.9%	11.1%	12.7%	
40-44	384	79	1	464	
	82.8%	17.0%	0.2%	100.0%	
	20.4%	20.3%	11.1%	20.4%	
45-49	226	45	0	271	
	83.4%	16.6%	0.0%	100.0%	
	12.0%	11.6%	0.0%	11.9%	
50-54	238	26	1	265	
	89.8%	9.8%	0.4%	100.0%	
	12.7%	6.7%	11.1%	11.6%	
55-59	226	27	0	253	
	89.3%	10.7%	0.0%	100.0%	
	12.0%	6.9%	0.0%	11.1%	
60-64	128	24	1	153	
	83.7%	15.7%	0.7%	100.0%	
	6.8%	6.2%	11.1%	6.7%	
65-69	54	6	0	60	
	90.0%	10.0%	0.0%	100.0%	
	2.9%	1.5%	0.0%	2.6%	
≥70	4	0	0	4	
	100.0%	0.0%	0.0%	100.0%	
	0.2%	0.0%	0.0%	0.2%	
No Response	21	0	5	26	
	80.8%	0.0%	19.2%	100.0%	
	1.1%	0.0%	55.6%	1.1%	
TOTAL	1,881	389	9	2,279	
	82.5%	17.1%	0.4%	100.0%	
	100.0%	100.0%	100.0%	100.0%	



Table 12.4.0

ACADEMIC RESPONDENTS  
according to SEX and HIGHEST DEGREE  
1986 Survey of ACS Members

HIGHEST DEGREE	SEX			TOTAL	
	Men	Women	No Response		
Bachelors	47	48	0	95	-Count
	49.5%	50.5%	0.0%	100.0%	-% of Row
	2.5%	12.3%	0.0%	4.2%	-% of Col
Masters	152	105	3	260	
	58.5%	40.4%	1.2%	100.0%	
	8.1%	27.0%	33.3%	11.4%	
Doctorate	1,676	234	5	1,915	
	87.5%	12.2%	0.3%	100.0%	
	89.1%	60.2%	55.6%	84.0%	
No Response	6	2	1	9	
	66.7%	22.2%	11.1%	100.0%	
	0.3%	0.5%	11.1%	0.4%	
TOTAL	1,881	389	9	2,279	
	82.5%	17.1%	0.4%	100.0%	
	100.0%	100.0%	100.0%	100.0%	

Table 12.5.0

ACADEMIC RESPONDENTS  
according to SEX and RACE/ETHNICITY  
1986 Survey of ACS Members

RACE/ETHNICITY	SEX			TOTAL	
	Men	Women	No Response		
Black	26	3	0	29	-Count
	89.7%	10.3%	0.0%	100.0%	-% of Row
	1.4%	0.8%	0.0%	1.3%	-% of Col
Hispanic	20	4	1	25	
	80.0%	16.0%	4.0%	100.0%	
	1.1%	1.0%	11.1%	1.1%	
American Indian	3	0	0	3	
	100.0%	0.0%	0.0%	100.0%	
	0.2%	0.0%	0.0%	0.1%	
Asian	96	19	0	115	
	83.5%	16.5%	0.0%	100.0%	
	5.1%	4.9%	0.0%	5.0%	
White	1,704	357	2	2,063	
	82.6%	17.3%	0.1%	100.0%	
	90.6%	91.8%	22.2%	90.5%	
Other Local Section	9	1	0	10	
	90.0%	10.0%	0.0%	100.0%	
	0.5%	0.3%	0.0%	0.4%	
No Response	23	5	6	34	
	67.6%	14.7%	17.6%	100.0%	
	1.2%	1.3%	66.7%	1.5%	
TOTAL	1,881	389	9	2,279	
	82.5%	17.1%	0.4%	100.0%	
	100.0%	100.0%	100.0%	100.0%	



Table 12.7.0

ACADEMIC RESPONDENTS  
according to TYPE OF INSTITUTION and WORK SPECIALTY  
1986 Survey of ACS Members

WORK SPECIALTY	INSTITUTION TYPE							TOTAL	
	High School	Medical or Prof. School	Associate	Bachelors	Masters	Doctorate	No Response		
Chemical engineering	0 0.0% 0.0%	0 0.0% 0.0%	1 1.1% 0.6%	0 0.0% 0.0%	5 5.7% 2.3%	81 93.1% 7.3%	0 0.0% ***. **	87 100.0% 3.8%	-Count -% of Row -% of Col
Biochemistry	2 0.6% 1.4%	125 38.7% 54.1%	4 1.2% 2.6%	27 8.4% 6.4%	18 5.6% 8.1%	147 45.5% 13.3%	0 0.0% ***. **	323 100.0% 14.2%	
Biotechnology	0 0.0% 0.0%	7 25.0% 3.0%	0 0.0% 0.0%	0 0.0% 0.0%	2 7.1% 0.9%	19 67.9% 1.7%	0 0.0% ***. **	28 100.0% 1.2%	
General chemistry	80 30.8% 54.4%	1 0.4% 0.4%	69 26.5% 44.8%	60 23.1% 14.2%	20 7.7% 9.0%	30 11.5% 2.7%	0 0.0% ***. **	260 100.0% 11.4%	
Analytical chemistry	1 0.5% 0.7%	8 4.0% 3.5%	3 1.5% 1.9%	61 30.5% 14.5%	34 17.0% 15.4%	93 46.5% 8.4%	0 0.0% ***. **	200 100.0% 8.8%	
Inorganic chemistry	10 4.9% 6.8%	2 1.0% 0.9%	10 4.9% 6.5%	52 25.6% 12.3%	22 10.8% 10.0%	107 52.7% 9.7%	0 0.0% ***. **	203 100.0% 8.9%	
Organic chemistry	3 0.8% 2.0%	10 2.7% 4.3%	29 7.9% 18.8%	97 26.4% 23.0%	54 14.7% 24.4%	175 47.6% 15.9%	0 0.0% ***. **	368 100.0% 16.1%	
Polymer chemistry	0 0.0% 0.0%	1 1.5% 0.4%	0 0.0% 0.0%	6 9.0% 1.4%	5 7.5% 2.3%	55 82.1% 5.0%	0 0.0% ***. **	67 100.0% 2.9%	
Pharmaceutical chemistry	1 4.2% 0.7%	13 54.2% 5.6%	0 0.0% 0.0%	0 0.0% 0.0%	1 4.2% 0.5%	9 37.5% 0.8%	0 0.0% ***. **	24 100.0% 1.1%	
Medicinal/clinical chemistry	0 0.0% 0.0%	30 57.7% 13.0%	1 1.9% 0.6%	2 3.8% 0.5%	0 0.0% 0.0%	19 36.5% 1.7%	0 0.0% ***. **	52 100.0% 2.3%	
Theoretical chemistry	0 0.0% 0.0%	1 2.0% 0.4%	1 2.0% 0.6%	4 8.0% 0.9%	2 4.0% 0.9%	42 84.0% 3.8%	0 0.0% ***. **	50 100.0% 2.2%	
Environmental chemistry	0 0.0% 0.0%	2 3.0% 0.9%	3 4.5% 1.9%	10 14.9% 2.4%	4 6.0% 1.8%	48 71.6% 4.3%	0 0.0% ***. **	67 100.0% 2.9%	
Agricultural/food chemistry	2 5.4% 1.4%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	35 94.6% 3.2%	0 0.0% ***. **	37 100.0% 1.6%	
Physical chemistry	4 2.0% 2.7%	3 1.5% 1.3%	3 1.5% 1.9%	58 28.4% 13.7%	25 12.3% 11.3%	111 54.4% 10.1%	0 0.0% ***. **	204 100.0% 9.0%	
Other chemistry	11 20.4% 7.5%	5 9.3% 2.2%	5 9.3% 3.2%	4 7.4% 0.9%	5 9.3% 2.3%	24 44.4% 2.2%	0 0.0% ***. **	54 100.0% 2.4%	
Non-chemistry	14 11.6% 9.5%	15 12.4% 6.5%	13 10.7% 8.4%	19 15.7% 4.5%	17 14.0% 7.7%	43 35.5% 3.9%	0 0.0% ***. **	121 100.0% 5.3%	
No Response	19 14.2% 12.9%	8 6.0% 3.5%	12 9.0% 7.8%	22 16.4% 5.2%	7 5.2% 3.2%	66 49.3% 6.0%	0 0.0% ***. **	134 100.0% 5.9%	
TOTAL	147 6.5% 100.0%	231 10.1% 100.0%	154 6.8% 100.0%	422 18.5% 100.0%	221 9.7% 100.0%	1,104 48.4% 100.0%	0 0.0% ***. **	2,279 100.0% 100.0%	



# American Chemical Society

OFFICE OF THE  
EXECUTIVE DIRECTOR

1155 SIXTEENTH STREET, N.W.  
WASHINGTON, D.C. 20036  
Phone (202) 872-4600

February 24, 1986

Dear Member:

Each year the American Chemical Society studies the economic status of the U.S. chemical profession by surveying a sample of ACS members. You are one of about 22,000 members I am asking to participate in this survey, conducted under the aegis of the Joint-Board Council Committee on Economic Status.

Because a high response rate is needed to assure accurate results, your participation is an important service to our colleagues. Please take a few minutes now to complete the questionnaire and return it in the enclosed business reply envelope. The procedure is confidential, and the information you provide will be reported only as a part of aggregated data.

Findings will be reported to ACS members in several ways. Preliminary results will be presented at the spring meeting in New York, and early in the summer the ACS will publish detailed analyses as Salaries 1986. At about the same time, Chemical and Engineering News will publish a cover story on the salaries and employment status of chemists and chemical engineers.

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,

A handwritten signature in cursive script that reads "John K. Crum".

John K. Crum

Encl.

## AMERICAN CHEMICAL SOCIETY

## 1986 Comprehensive Salary and Employment Status Survey

## I. EDUCATION AND EMPLOYMENT STATUS

## A. PLEASE INDICATE THE YEAR IN WHICH YOU EARNED ANY OF THE FOLLOWING DEGREES:

Bachelor's 19   1-2  
 Master's 19   3-4  
 Doctorate 19   5-6

## B. PLEASE CHECK THE APPROPRIATE BOX IN EACH COLUMN.

	Field of highest degree	ONE specialty most related to your current or most recent job	
Chemical engineering	<input type="checkbox"/> 01	<input type="checkbox"/> 01	
Biochemistry	<input type="checkbox"/> 02	<input type="checkbox"/> 02	
Biotechnology	<input type="checkbox"/> 03	<input type="checkbox"/> 03	
General chemistry	<input type="checkbox"/> 04	<input type="checkbox"/> 04	
Analytical chemistry	<input type="checkbox"/> 05	<input type="checkbox"/> 05	
Inorganic chemistry	<input type="checkbox"/> 06	<input type="checkbox"/> 06	
Organic chemistry	<input type="checkbox"/> 07	<input type="checkbox"/> 07	
Polymer chemistry	<input type="checkbox"/> 08	<input type="checkbox"/> 08	
Pharmaceutical chemistry	<input type="checkbox"/> 09	<input type="checkbox"/> 09	
Medicinal/clinical chemistry	<input type="checkbox"/> 10	<input type="checkbox"/> 10	
Theoretical chemistry	<input type="checkbox"/> 11	<input type="checkbox"/> 11	
Environmental chemistry	<input type="checkbox"/> 12	<input type="checkbox"/> 12	
Agricultural/food chemistry	<input type="checkbox"/> 13	<input type="checkbox"/> 13	
Physical chemistry	<input type="checkbox"/> 14	<input type="checkbox"/> 14	
Other chemical science	<input type="checkbox"/> 15	<input type="checkbox"/> 15	
Non-chemistry	<input type="checkbox"/> 16	<input type="checkbox"/> 16	7-10

## C. Please check the ACS LOCAL SECTION to which you belong.

Orange County	<input type="checkbox"/> 01	Northeastern	<input type="checkbox"/> 09	
Santa Clara	<input type="checkbox"/> 02	North Jersey	<input type="checkbox"/> 10	
Southern California	<input type="checkbox"/> 03	Philadelphia	<input type="checkbox"/> 11	
California	<input type="checkbox"/> 04	Pittsburgh	<input type="checkbox"/> 12	
Chicago	<input type="checkbox"/> 05	Southeastern Texas	<input type="checkbox"/> 13	
Cleveland	<input type="checkbox"/> 06	St. Louis	<input type="checkbox"/> 14	
Minnesota	<input type="checkbox"/> 07	Washington, D.C.	<input type="checkbox"/> 15	
New York	<input type="checkbox"/> 08	Other Local Section	<input type="checkbox"/> 16	11-12

## D. PLEASE ENTER YOUR PRIMARY EMPLOYMENT STATUS AS OF MARCH 1, 1986. CHOOSE THE ONE CATEGORY THAT BEST FITS YOUR SITUATION.

Employed full-time (35 hours or more per week)  1  
 Employed part-time  2  
 Postdoctoral or other fellowship  3  
 Not employed but actively seeking employment  4  
 Not employed and NOT seeking employment  5 13

## E. If you were UNEMPLOYED on March 1, how long had you been unemployed?

Less than 1 month  1  
 1 to 3 months  2  
 4 to 6 months  3  
 7 to 12 months  4  
 More than 1 year  5 14

## II. QUESTIONS ABOUT YOURSELF

## A. Your sex:

Male  1 Female  2 15

## B. Your marital status:

Single  1 Married  2 16

## C. Age at last birthday before March 1, 1986:

years old 17-18

## D. Citizenship or visa status:

U.S. native  1  
 U.S. naturalized  2  
 U.S. permanent resident visa  3  
 Other visa  4 19

## E. Racial or ethnic group:

Black (not of Hispanic origin)  1  
 Hispanic  2  
 American Indian or Alaskan Native  3  
 Asian or Pacific Islander  4  
 White  5  
 Other race or ethnic group  6 20-21

## F. Please enter the two-letter post office abbreviation for the STATE in which you live.

22-23

IF YOU ARE NOT CURRENTLY EMPLOYED, PLEASE SKIP TO SECTION IV, MOST RECENT OR CURRENT JOB.

## III. CURRENT INCOME

## A. If you are CURRENTLY EMPLOYED, how long have you worked for your current employer?

years   months 24-27

## B. BASE ANNUAL SALARY from PRINCIPAL JOB as of March 1, 1986. (DO NOT INCLUDE payments for bonus, second job, overtime work, summer teaching, or other supplemental earnings or employment.) If zero, please indicate.

\$     0 0 per year 28-31

## C. SUPPLEMENTAL INCOME from PRINCIPAL EMPLOYER during calendar year 1985. (INCLUDE payments for bonus, overtime work, grants administered by your employer, summer teaching, or other supplemental earnings.) If zero, please indicate.

\$     0 0 per year 32-35

## D. SUPPLEMENTAL INCOME from OTHER PROFESSIONAL WORK during calendar year 1985. (INCLUDE payments for second jobs, consulting, contracting, or other supplemental employment in your profession.) If zero, please indicate.

\$     0 0 per year 36-39

**IV. DESCRIBE YOUR MOST RECENT OR CURRENT JOB.**

**IF YOUR MOST RECENT OR CURRENT EMPLOYER IS NOT AN ACADEMIC INSTITUTION, GO TO SECTION V AT THE TOP OF THE NEXT COLUMN.**

**MOST RECENT OR CURRENT EMPLOYMENT IS IN AN ACADEMIC INSTITUTION.**

**A. Current (or most recent) principal employer.**

- 1. Public institution  1      Private institution  2      40
- 2. High school  1
- Medical or professional school  2
- College or university where the highest degree offered in chemical science is:
  - Associate  3
  - Bachelor's  4
  - Master's  5
  - Doctorate  6      41

**B. Your academic rank:**

- Full professor  1
- Associate professor  2
- Assistant professor, tenure track  3
- Instructor, lecturer, or non-tenure track  4
- Non-teaching research associate  5
- My institution does not have ranks  6      42

**C. Have you been granted tenure?**

- Yes  1      No  2      43

**D. Your basic contract is for a period of:**

- 9 or 10 months  1
- 11 or 12 months  2      44

**E. About what fraction of your total academic year assignment is devoted to:**

	1/4 or less	1/3	1/2	2/3	3/4	full-time	
Teaching	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	45
Research	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	46
Administration	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	47
Other	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6	48

**F. What was your principal professional activity during the SUMMER OF 1985?**

- Teaching  1
- Funded research or study  2
- Unpaid scholarly/academic  3
- Administration  4
- Consulting  5
- Non-academic employment  6
- Other  7      49

**V. MOST RECENT OR CURRENT EMPLOYMENT IS NOT IN AN ACADEMIC INSTITUTION.**

**A. Current (or more recent) principal employer.**

- Private industry
  - Manufacturing
    - Agricultural chemicals  01
    - Coatings and paints  02
    - Food  03
    - Metals, minerals  04
    - Paper  05
    - Petroleum/natural gas  06
    - Pharmaceuticals, personal care  07
    - Rubber  08
    - Soaps, detergents, surfactants  09
    - Biochemical products, biotechnology  10
    - Electronics  11
    - Other chemicals  12
    - Other products  13
  - Non-manufacturing  14
- Government non-academic
  - Federal  15
  - State or local  16
  - Military  17
- Other non-academic
  - Hospital, independent laboratory  18
  - Other non-profit organization, other research institution  19
  - Self-employed  20
  - Other employment  21      50-51

**B. Check the ONE work function that best describes your job.**

- Research and Development
  - Management or administration of R&D  01
  - Basic research  02
  - Applied research, development, design  03
- General management, administration (other than research and development)  04
- Marketing, sales, purchasing, technical service, economic evaluation  05
- Production, quality control  06
- Forensic analysis, other laboratory analysis  07
- Writing, editing, abstracting  08
- Chemistry information services  09
- Computer programming, analysis, design  10
- Consulting  11
- Other  12      52-53

**C. Were you eligible for a bonus during calendar 1985?**

- Yes  1      No  2      54

**D. Did you receive a bonus during calendar 1985?**

- Yes  1      No  2      55

If yes, please indicate amount

\$     0 0

GO TO SECTION VI ON THE BACK PAGE

Section V Continued

E. How many people do you supervise, directly or indirectly? Please enter the actual number if it is between 0 and 99; 99 if the number is 100 or more.

Professionals .....	<input type="text"/>	<input type="text"/>	59-60
Technicians .....	<input type="text"/>	<input type="text"/>	61-62
Others, including production workers .....	<input type="text"/>	<input type="text"/>	63-64

F. What is the highest level at which you make decisions concerning equipment purchase or capital investment?

None .....	<input type="checkbox"/> 1		
My own equipment .....	<input type="checkbox"/> 2		
Department equipment .....	<input type="checkbox"/> 3		
Plant-wide equipment .....	<input type="checkbox"/> 4		
Firm-wide investments .....	<input type="checkbox"/> 5		65

G. Do you have the authority to influence the pay of others?

Yes	<input type="checkbox"/> 1	
No	<input type="checkbox"/> 2	66

H. Do you have the authority to hire, transfer, or remove other employees?

Yes	<input type="checkbox"/> 1	
No	<input type="checkbox"/> 2	67

VI. THE FOLLOWING QUESTIONS CONCERN SATISFACTION WITH YOUR CURRENT JOB.

A. Please indicate whether you agree or disagree: If I had it to do over, I would take the same job I have now.

Strongly agree .....	<input type="checkbox"/> 1	
Agree .....	<input type="checkbox"/> 2	
No opinion .....	<input type="checkbox"/> 3	
Disagree .....	<input type="checkbox"/> 4	
Strongly disagree .....	<input type="checkbox"/> 5	68

B. Please rate your current job on the following:

	Excellent	Good	No Opinion	Poor	Extremely Poor	
Pay .....	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	69
Fringe benefits ..	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	70
Job security .....	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	71
Chances for advancement ..	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	72
Control over own work .....	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	73

C. Are you actively seeking a new job?

Yes	<input type="checkbox"/> 1	No	<input type="checkbox"/> 2	74
-----	----------------------------	----	----------------------------	----

If you answered "NO", then STOP. You have completed the questionnaire.

1. I am primarily considering a job in:

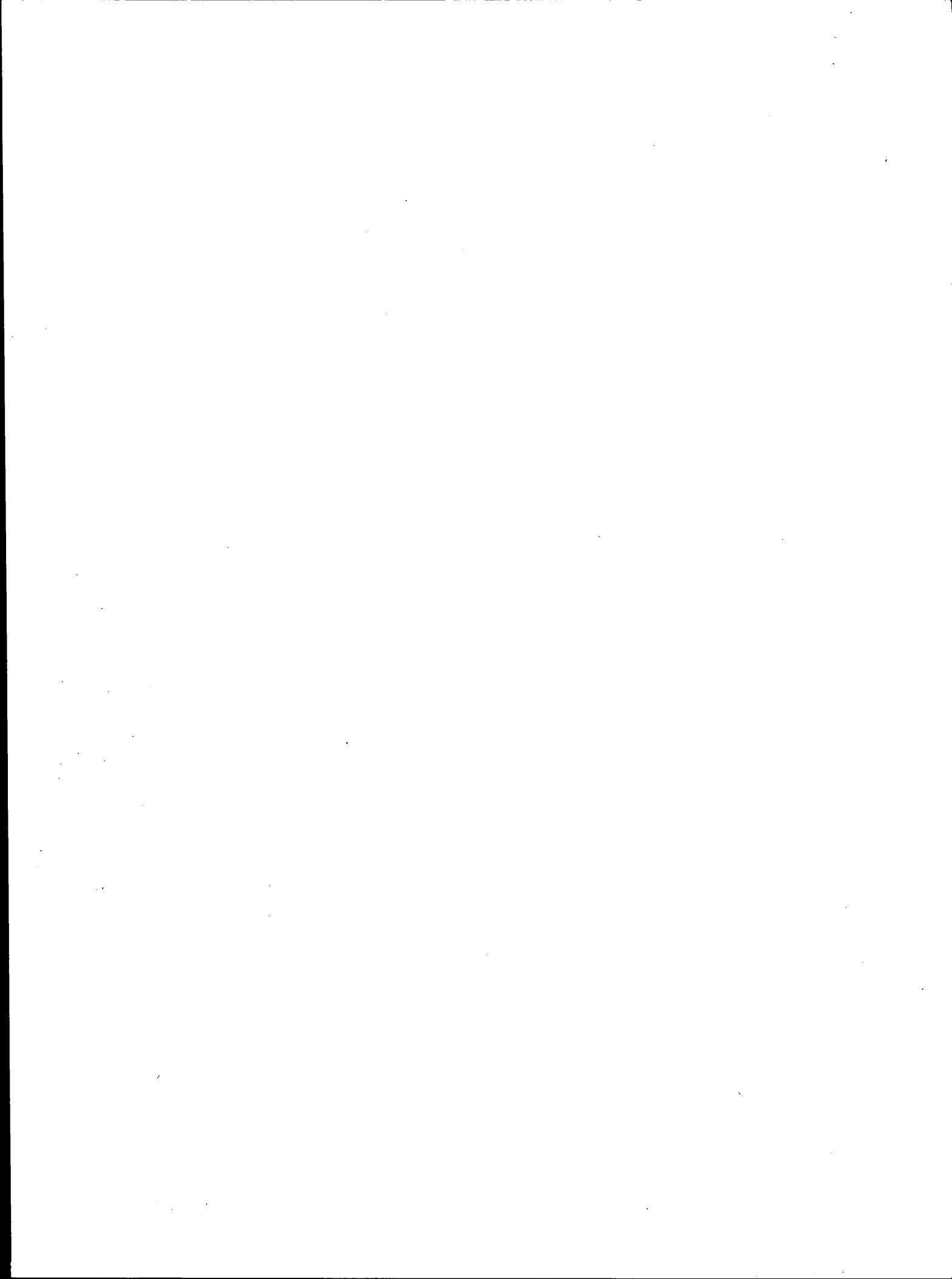
Academia .....	<input type="checkbox"/> 1	
Private industry .....	<input type="checkbox"/> 2	
Government .....	<input type="checkbox"/> 3	
Consulting .....	<input type="checkbox"/> 4	
Other (specify) _____	<input type="checkbox"/> 5	75

2. Please rate the position you expect to obtain:

	Excellent	Good	No Opinion	Poor	Extremely Poor	
Pay .....	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	76
Fringe benefits ..	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	77
Job security .....	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	78
Chances for advancement ..	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	79
Control over own work .....	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	80

THANK YOU FOR YOUR PARTICIPATION.  
 PLEASE RETURN THIS QUESTIONNAIRE TO  
 ACS STATISTICAL SERVICES,  
 Room 202, 1155 16th Street NW, Washington, DC 20036







ACS OFFICE OF STATISTICAL SERVICES PUBLICATIONS

Salaries: The Office of Statistical Services 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, employer, work function and specialty, salaries, and demographic characteristics.

Reports are available for each year from 1973 through the current year.

Starting Salaries: The Office of Statistical Services also surveys new graduates in chemistry and chemical engineering each summer, 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 the current year.

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 are available for each year from 1975 through 1978, and combined reports for 1979-1980, 1981-82, and 1983-84. The 1985-86 report will be available at the end of 1986.

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.

Women Chemists 1985: A supplemental report on the ACS's 1985 Survey of Salaries and Employment.

For prices and ordering information, please call or write\*

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

Toll Free No.: (800) 424-6747

ISBN 8412-0993-6