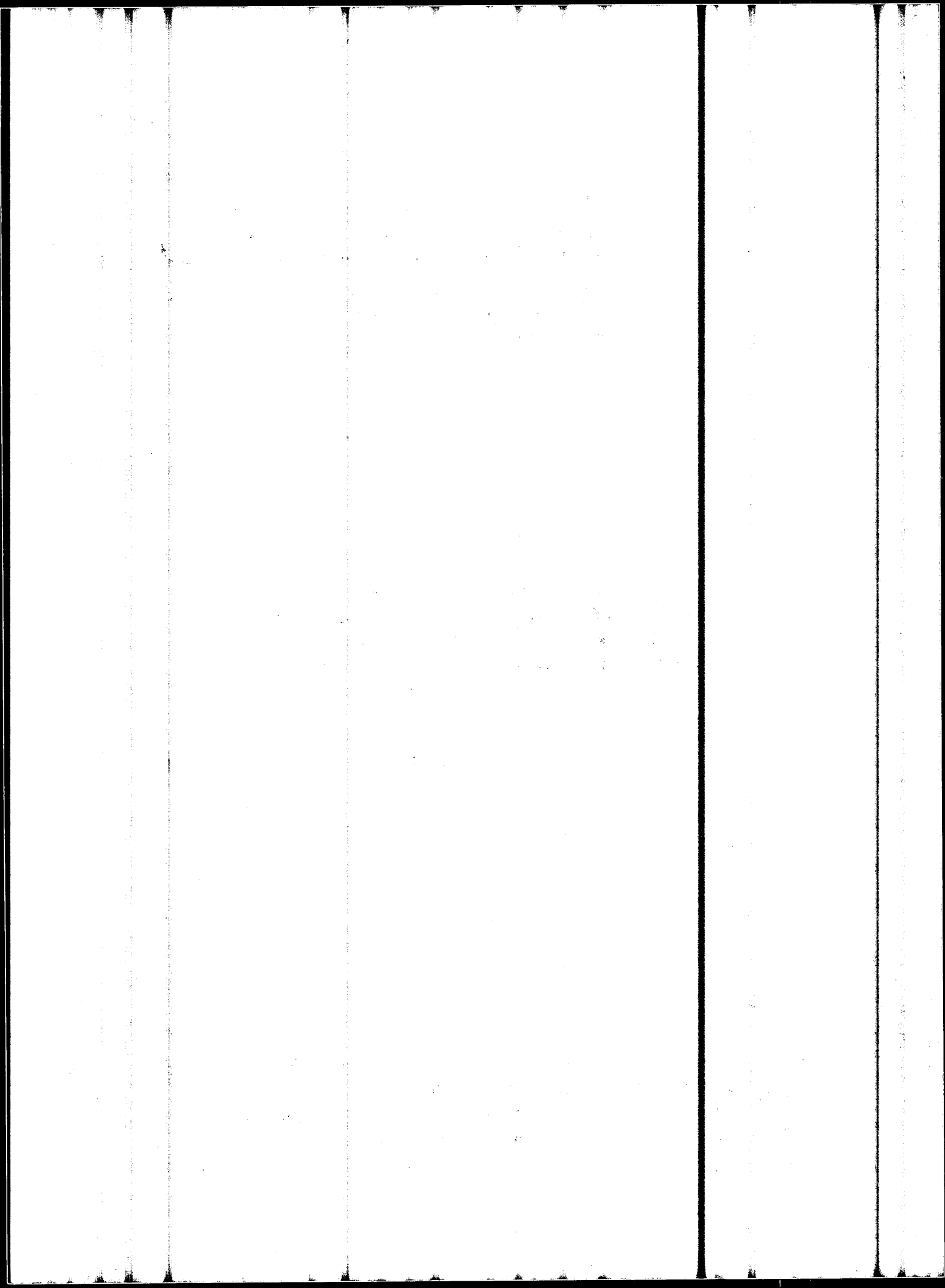


SALARIES 1998

**ANALYSIS OF THE
AMERICAN CHEMICAL SOCIETY'S
1998 COMPREHENSIVE SALARY
AND EMPLOYMENT STATUS SURVEY**



AMERICAN CHEMICAL SOCIETY
COMMITTEE ON ECONOMIC AND PROFESSIONAL AFFAIRS
DEPARTMENT OF CAREER SERVICES



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American Chemical Society
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Washington, DC 20036

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ACKNOWLEDGMENTS

This report presents detailed results of the 1998 ACS Comprehensive Salary and Employment Status Survey. A summary of the survey findings was published in the July 29, 1998 issue of *Chemical & Engineering News* and the August 1998 issue of *Today's Chemist at Work*.

The ACS Council Committee on Economic and Professional Affairs, chaired by James D. Burke, and its Subcommittee on Surveys, chaired by James Long, planned and provided general oversight of the survey and its analysis in 1998. The committee is grateful to the nearly 10,000 members who provided a valuable service to the profession by completing the survey questionnaire.

Mary Jordan, Senior Research Analyst, conducted this year's survey and wrote the following summary, with assistance from Cyril Ogbenna, Inroads intern and Kemie Smith, Program Assistant.

Jean Parr, Head
Department of Career Services

1998 Summary and Comment

The great economic improvement for member chemists in 1997 did not carry over into 1998. Unemployment for chemists rose from 2.0 percent in 1997 to 2.3 percent in 1998, at a time when the U.S. economy as a whole was experiencing a continuing decline in the unemployment rate. The rise in unemployment was even more pronounced for chemical engineers, from 0.6 percent in 1997 to 3.3 percent in 1998. Salaries for chemists and chemical engineers alike showed weaker gains between 1997 and 1998 than between 1996 and 1997.

Salaries

Industrial Chemical Engineers

The vast majority of chemical engineers work in industry and usually show higher salaries than chemists. However, the 1998 salaries of Ph.D.s in both disciplines are relatively more comparable (Table 4, p. 2). Except at the master's degree level, chemical engineers in industry showed little or no gain in current dollars and losses when including inflation factors.¹ Chemical engineers at the master's degree level gained the highest proportion -- almost 8 percent.

Table 1. Change in Industrial Chemical Engineers' Salaries 1997-1998

<i>Degree</i>	<i>Median Salary 1998 (1997)</i>	<i>% Change from 1997 (current dollars)</i>	<i>% Change from 1997 (constant dollars)</i>
Bachelor's	\$60,000 (60,000)	even 0.0%	down 1.4%
Master's	\$75,500 (70,000)	up 7.9%	up 6.5%
Doctorate	\$79,800 (79,750)	even 0.0%	down 1.4%

All Chemists

Median base salaries for all chemists increased in current dollars. Chemists with M.S. and Ph.D. degrees continued to outstrip the 1.4 percent increase in the Consumer Price Index (CPI) from March 1, 1997 to March 1, 1998. The median base salaries of bachelor degree chemists failed to show any appreciable increase between 1997 and 1998, actually posting losses in "constant" dollars.

Table 2. Change in All Chemists' Salaries 1997-1998

<i>Degree</i>	<i>Median Salary 1998 (1997)</i>	<i>% Change from 1997 (current dollars)</i>	<i>% Change from 1997 (constant dollars)</i>
Bachelor's	\$49,600 (49,400)	up 0.4%	down 1.0%
Master's	\$57,700 (56,200)	up 2.7%	up 1.3%
Doctorate	\$73,300 (71,000)	up 3.2%	up 2.8%

1. The adjustment for inflation used the Consumer Price Index-Urban (CPI-U), which increased a very low 1.4 percent from March 1997 to March 1998. The CPI-U serves as an approximation for national inflation.

Academic Chemists

Academic chemists showed increases at all ranks between 1997 and 1998. The increases were the greatest at the lower ranks, both proportionately and in current dollars. Only one group, full professors working on 11/12-month contracts, had increases that fell behind the inflation rate.

Table 3. Change in Academic Chemists' Salaries 1997-1998

<i>Rank/ Contract</i>	<i>Median Salary 1998 (1997)</i>	<i>% Change from 1997 (current dollars)</i>	<i>% Change from 1997 (constant dollars)</i>
Full 9/10	\$66,200 (65,000)	up 1.8%	up 0.4%
Full 11/12	\$94,000 (93,100)	up 0.1%	down 1.3%
Assoc 9/10	\$47,200 (46,000)	up 2.6%	up 1.2%
Assoc 11/12	\$65,000 (63,000)	up 3.2%	up 1.8%
Asst 9/10	\$41,000 (39,400)	up 4.1%	up 2.7%
Asst 11/12	\$52,900 (50,300)	up 5.2%	up 3.8%

Industrial Chemists

Industrial chemists showed very weak increases between 1997 and 1998. After finally showing strong increases last year, salaries of bachelor degree chemists showed no increase this year and fell in constant dollars. As in most other areas, Ph.D. chemists continued to show the most increase -- the \$80,000 median salary represents the strongest median salary growth for industrial chemists.

Table 4. Change in Industrial Chemists' Salaries 1997-1998

<i>Degree</i>	<i>Median Salary 1998 (1997)</i>	<i>% Change from 1997 (current dollars)</i>	<i>% Change from 1997 (constant dollars)</i>
Bachelor's	\$50,000 (50,000)	even 0.0%	down 1.4%
Master's	\$61,000 (60,000)	up 1.6%	up 0.2%
Doctorate	\$80,000 (78,115)	up 2.4%	up 1.0%

In general, industrial chemists earn higher basic salaries than chemists in other economic sectors. Several factors prevail in setting industrial salaries. Chief among them is that industrial chemists involved in the manufacturing of a product tend to dominate the upper proportion of basic salary ranges. Other factors include length of experience, amount of responsibility, and size of company.

Figure 1 (p. 3) shows 1998 salaries factored by degree and experience, as measured by years since receipt of the bachelor's degree. As expected, salaries rose continuously throughout careers except for the most experienced. Usually the upward curve flattens somewhat past 30 years. However, in 1998 sharper declines in median salaries appeared at the higher end of the experience range for all three degrees. **Figure 1** also shows that throughout their careers, Ph.D. chemists earn considerably more, while those with masters' and bachelor's degrees have salaries much closer to each other.

Figure 1. 1998 Median Salaries of Industrial Chemists
By Degree and Experience

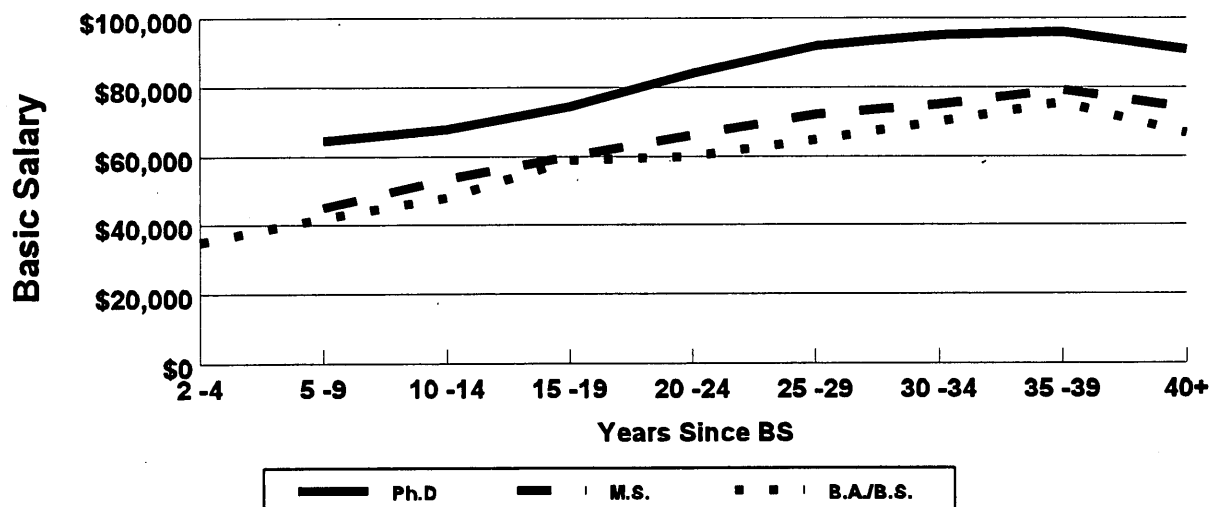
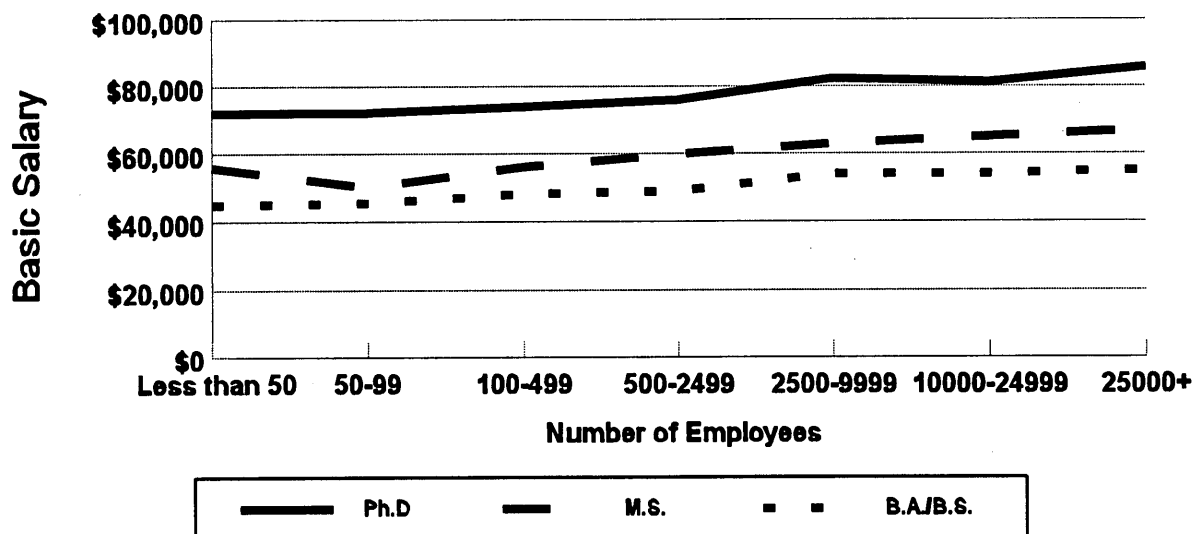


Figure 2. 1998 Median Salaries of Industrial Chemists
By Degree and Size of Company



Regardless of experience and degree, there is a direct positive correlation between the size of the company and basic salary. This is due in part to the function of many of the smaller companies employing chemists. In 1998, ACS members working for small companies tended to be in non-manufacturing businesses, the single largest category being analytical laboratories. More than 50 percent of the chemists who are working in analytical laboratories work in laboratories with fewer than 100 employees. The correlation between company size and basic salary is most consistent across degrees in the manufacturing sector, and least consistent for Ph.D.s in the non-manufacturing sector.

Individual Chemists' Salaries

Median increases for chemists as a group or by degree are not the same as individual raises. Grouped medians can be affected by many factors, including the aging of the workforce and the mix of ages and employers from year to year.

To determine the increase in individual chemists' salaries, the survey asked for base salary on March 1, 1998 and March 1, 1997. While overall salary increases were not as impressive as in 1997, individual chemists who worked for the same employer for more than one year still showed impressive raises in base salary from 1997 to 1998. Collectively, the individual median increase for chemists was 4.7 percent. Chemists working in all sectors--government, education and industry--showed median raises of 4.0 percent or better, considerable gains in a year that saw the CPI increase only 1.4 percent.

The highest individual raises were in industry, with a 5.0 percent increase. Industrial chemists gained median raises of 5.1 percent for B.S. chemists, 4.8 percent for M.S. chemists and 5.0 for Ph.D. chemists. Age also factored in the proportions allotted for individual raises. The general rule was that raises were inversely correlated to age: 25-29 year-olds received 7.7 percent; 30-39 year-olds received 5.8 percent; 40-49 year-olds received 4.7 percent; 50-59 year-olds received 3.9 percent and 60-69 year-olds received 3.3 percent median raises.

Non-Salary Income

Base salary is only one source of income for chemists. Most chemists have access to other sources of professional income. Major sources of non-salary professional income are bonuses for industrial and government chemists and consulting fees for academic chemists. Questions in the survey each year address both the eligibility and receipt of bonuses in the prior year (1997), plus the amount of consulting fees earned by the respondent in the prior year.

Bonuses were far more prevalent in industry than in either government or academia. Almost two-thirds (63 percent) of industrial chemists claimed they were eligible for bonuses. Of those who were eligible for bonuses, 93 percent received them, making a total of 59 percent of all industrial chemists reporting bonuses in 1997 -- a 3 percent increase over 1996. The median bonus for industrial chemists remained unchanged from 1997 at \$5,000.

Over one-third (35 percent) of government chemists indicated they were eligible for a bonus in 1997. Of those who claimed they were eligible, 78 percent received a bonus. The median bonus for government chemists was \$1,000. Less than 10 percent of academic chemists

were even eligible for bonuses. Academic chemists who received bonuses showed a median bonus of \$2,000.

Consulting as a source of professional income is predominately an academic pursuit. Over 28 percent of academic chemists claimed consulting income in 1997. This is a decline from 31 percent in 1996. Less than 5 percent of industrial chemists consulted in 1997. Government chemists claimed 6 percent consulted in the prior year. The vast majority of chemists who consulted (62 percent) do so less than 10 hours per month. Only about 9 percent of consulting chemists spent more than 100 hours per month consulting.

Even though academics are more apt to consult, industrial chemists had higher median consulting incomes -- \$3,000 for academic chemists and \$4,000 for industrial chemists.

Chemists' Total Professional Income

Total compensation, opposed to basic salary, has gained importance in the past decade. Rapid increases in health care and Social Security costs have combined with productivity rewards to change the ways in which large segments of the workforce gain professional income. In many cases, base salary has become an ever-shrinking proportion of total compensation, while benefit costs, such as health care, have increased.

Benefits

In 1998, a section on benefits was added to the survey for that year only². Respondents were asked if certain benefits were available, and how much of the benefit was paid by the employer. The respondents reflected a growing change in benefits packaging -- "flexible benefits," or options to determine the apportionment of benefits. **Table 5** shows that for those who had benefits packages, 61 percent of industrial chemists had flexible benefits programs. Industrial chemists were followed by academic chemists at 54 percent, and 41 percent of government chemists had flexible benefits spending.

Table 5. Proportion of Chemists Who have Benefits Provided under a Flexible Program?
(That is, where chemists determine how a benefits package is apportioned).

Of the respondents who answered Yes	
Industry	61%
Academic	54%
Government	41%

Table 6 reflects the benefits available to 1998 respondents. Overall, industrial chemists had the most benefits available to them. However, the majority of industrial chemists also had to choose how to spend their benefits compensation. So even if available, they may not have chosen the benefits. The relatively lower availability of benefits to academics may be a result of the increasing amount and proportion of non-tenure positions in academia.

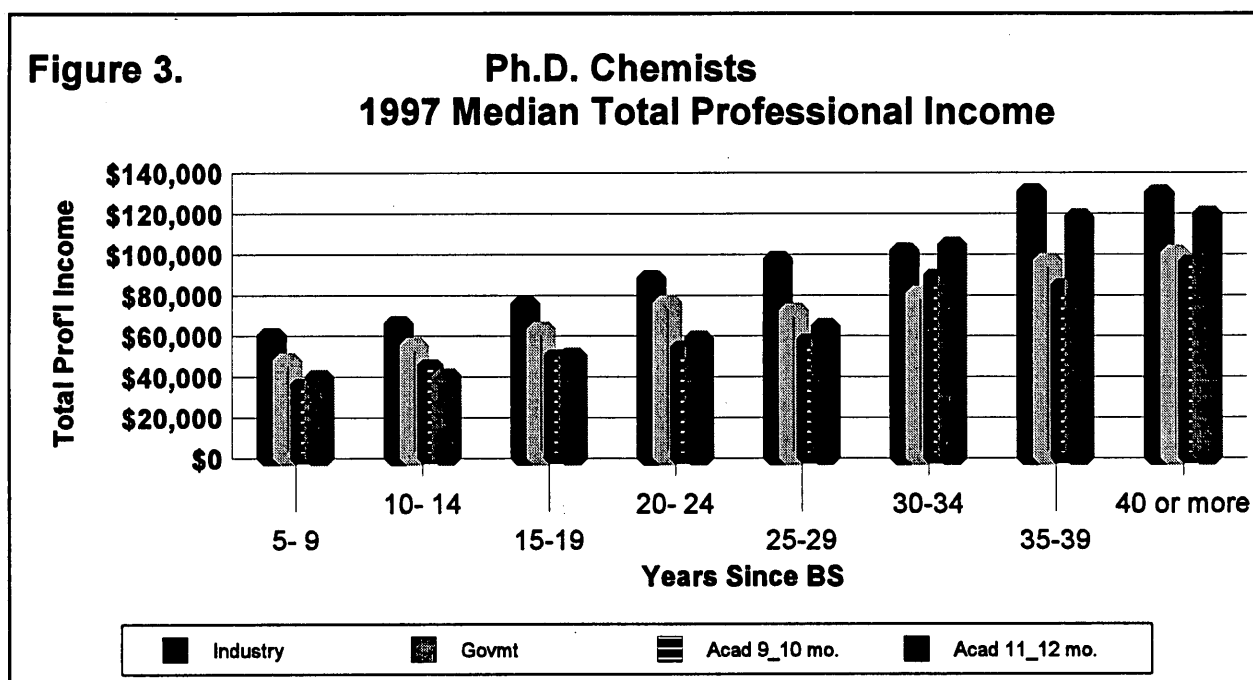
2. The benefits will be further explored in a forthcoming ACS Employment Bulletin.

Table 6. Benefits by Employer Sector as of March 1, 1998

<u>Availability of benefits</u>	<u>Industry</u>	<u>Employer Government</u>	<u>Academia</u>	<u>Total</u>
<i>Paid Leave</i>				
Holiday	99.4%	99.8%	89.8%	96.8%
Vacations	99.1	100.0	72.2	93.2
Sick Leave	95.4	99.0	90.9	94.1
Sick family	65.9	86.3	63.1	66.8
<i>Retirement/savings</i>				
Savings plans	94.9	82.4	84.3	91.2
Stock ownership	60.2	6.3	4.2	45.5
Matching savings	78.7	55.5	48.9	70.1
Profit sharing	44.9	1.9	2.4	33.3
Stock options	45.3	3.8	5.0	34.0
<i>Medical Plans</i>				
Medical for employee	99.1	99.5	99.1	98.7
Medical for family	98.4	99.3	97.6	97.8
Dental for employee	94.9	85.3	88.7	92.2
Dental for family	94.0	85.2	86.1	90.9
Vision for employee	63.5	65.8	63.1	63.0
Vision for family	58.4	63.1	60.1	58.5
Prescription Drug plan	91.6	89.1	89.1	90.3
Annual physical	63.3	63.0	56.2	61.2
Wellness/fitness	50.1	51.9	46.5	48.8
<i>Insurance</i>				
Life for employee	95.0	96.3	92.4	93.8
Life for family	60.9	53.4	44.1	55.8
Long-term care	59.4	37.2	50.7	55.1
Accidental death	88.1	74.4	76.7	83.6
Short-term disability	84.0	51.2	69.0	77.5
Long-term disability	87.3	54.3	78.1	82.1
<i>Professional</i>				
College tuition	84.6	63.8	60.1	76.6
Professional dues	76.1	23.8	24.6	59.9
Sabbatical leave	11.4	26.6	77.1	28.3
<i>Other</i>				
Flexible hours	66.0	81.4	52.9	64.3
Job sharing	14.5	12.1	6.5	12.3
Off-site child care	11.9	15.3	11.1	11.9
On-site child care	6.6	22.6	26.7	12.2

The employer sector does make a difference. While industrial chemists traditionally have higher base salaries and are more apt to receive bonuses, academic chemists are more likely to have shorter annual contracts, consult, and earn income from sources outside of their primary employer. As a result, there has long been a debate as to whether industrial chemists truly earn more than academic chemists with the same experience.

This year, total professional income was examined in context of experience, sector and contract length for academics. Total professional income included all sources of income derived from professional labor in 1997, including bonuses, consulting, etc. **Figure 3** shows the 1997 total professional incomes for Ph.D. chemists. With only one exception, ages 30 through 34, chemists working in industry earn higher total incomes than those working in other sectors. The difference lessens with 11-12 month academic chemists as they progress through their careers, but increases with 9-10 month academic and government chemists throughout their careers. This dynamic showed consistently across degrees, sectors and throughout careers. In other words, B.S. chemists working in industry continually showed higher total incomes than those in the educational/academic or government sectors with the same amount of experience.

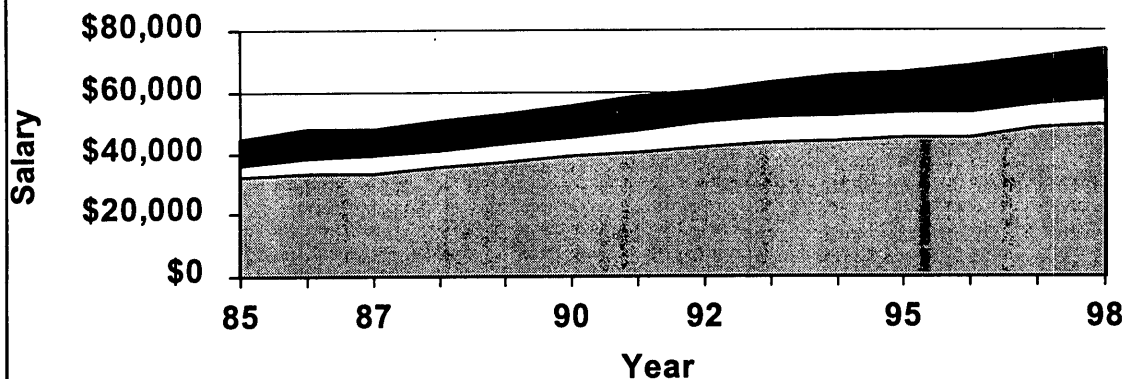


Trends in Chemists' Salaries

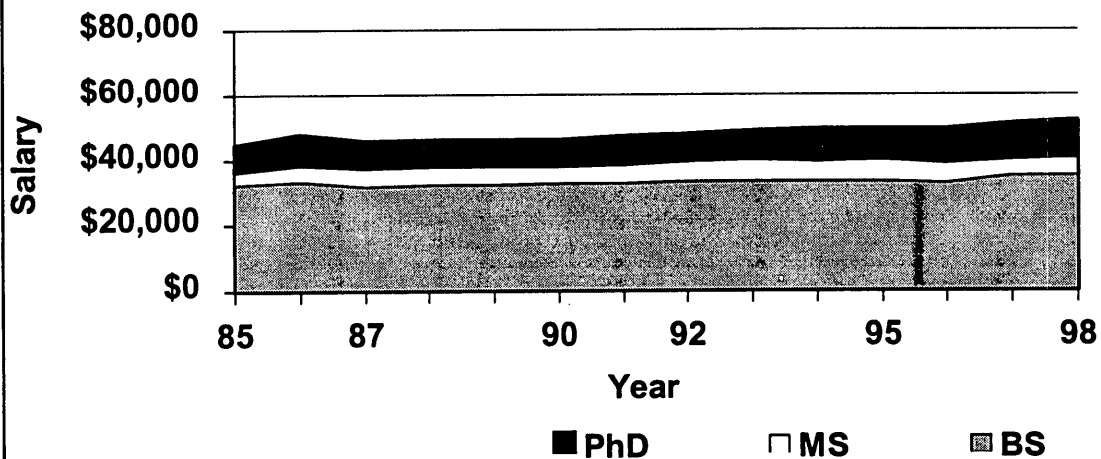
In general, chemists' median salaries continue to grow in current dollars, but perform less well in 1984 constant dollar values. Again, while making a significant recovery in 1997, B.S. chemists again fell behind in 1998, with no gain in real dollars and a loss in constant dollars. Since 1987, Ph.D. chemists tend to have fared best, with consistent increases outpacing inflation.

Figure 4
Trends in Chemists' Median Salaries
1985-1998

(in current year dollars)



(in constant 1984 dollars)



Employment and Unemployment

The precipitous drops in unemployment rates in 1997 did not continue into 1998 for both chemists and chemical engineers. Chemists and chemical engineers showed higher unemployment and lower full-time employment rates on March 1, 1998 than on March 1, 1997. These changes are shown in **Table 6**.

Chemical engineers showed an extremely high proportion of full-time employment in 1997 at almost 94 percent. At the same time they showed an unusually low percent unemployed and seeking work in 1997. On March 1, 1998, the proportion of chemical engineers who were unemployed and seeking work rose sharply to 3.2% from 0.6% in 1997.

Table 6

Employment Status by Work Specialty: 1995-1998

Status	Chemical Engineering				Chemistry			
	1995	1996	1997	1998	1995	1996	1997	1998
Full-time	90.3%	90.7%	93.9%	91.6%	88.8%	89.3%	90.5%	89.8%
Part-time	2.4%	3.0%	1.5%	1.7%	2.7%	2.7%	2.1%	2.4%
Postdoc & fellowship	1.1%	0.8%	0.6%	0.6%	3.5%	2.7%	2.3%	2.2%
Unemployed & seeking	2.9%	2.3%	0.6%	3.2%	2.5%	2.9%	1.9%	2.3%
Not seeking employment	3.2%	3.2%	0.8%	1.1%	2.6%	2.3%	0.8%	0.9%
Fully Retired*			2.7%	1.7%			2.8%	2.4%
Total number in category	2,703	473	525	464	45,314	8787	9723	8750

* "Fully Retired" status added to survey in 1997.

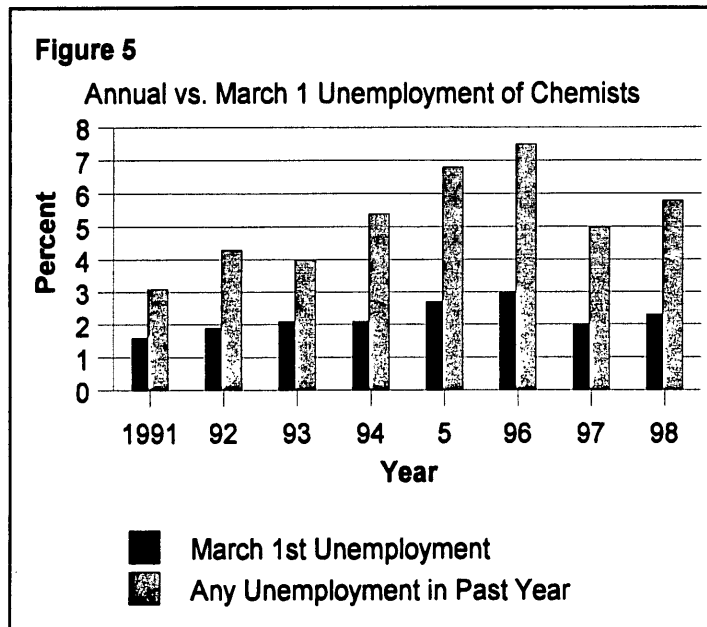
Further, marked improvement in chemists' employment statuses in 1997 did not continue into 1998. Full-time employment declined, part-time employment increased, and the percent seeking employment rose again.

Unemployment

The overall unemployment rate for chemists rose to 2.3 percent, up from 2.0 in 1997. The rise in unemployment for both chemists and chemical engineers was heavily influenced by a rise in unemployment in the primary employment industrial sector for both chemists and chemical engineers.

Chemists above the age of 45 continue to have relatively higher unemployment rates. For chemists under the age of 45, the 1998 unemployment rate was 1.7 percent. For chemists between ages 45 and 70, the unemployment rate was 2.9 percent. Women chemists also continue to have higher unemployment rates.

The unemployment rate reflects the “unemployed but seeking” population on a particular day – for chemists, March 1st each year. Another gage of unemployment is how many chemists had any period where they were unemployed and seeking work in the entire past year. As can be seen in **Figure 5**, the percentage of chemists who had a period of unemployment in the past year exceeds the March 1 (one-day) unemployment rate by a certain multiple (factor). The factor between the March 1st vs. annual unemployment has increased in the 1990s. In 1991, the factor was slightly less than 2, whereas the factor exceeds 2 in most years since 1991.



Regional Unemployment for Chemists

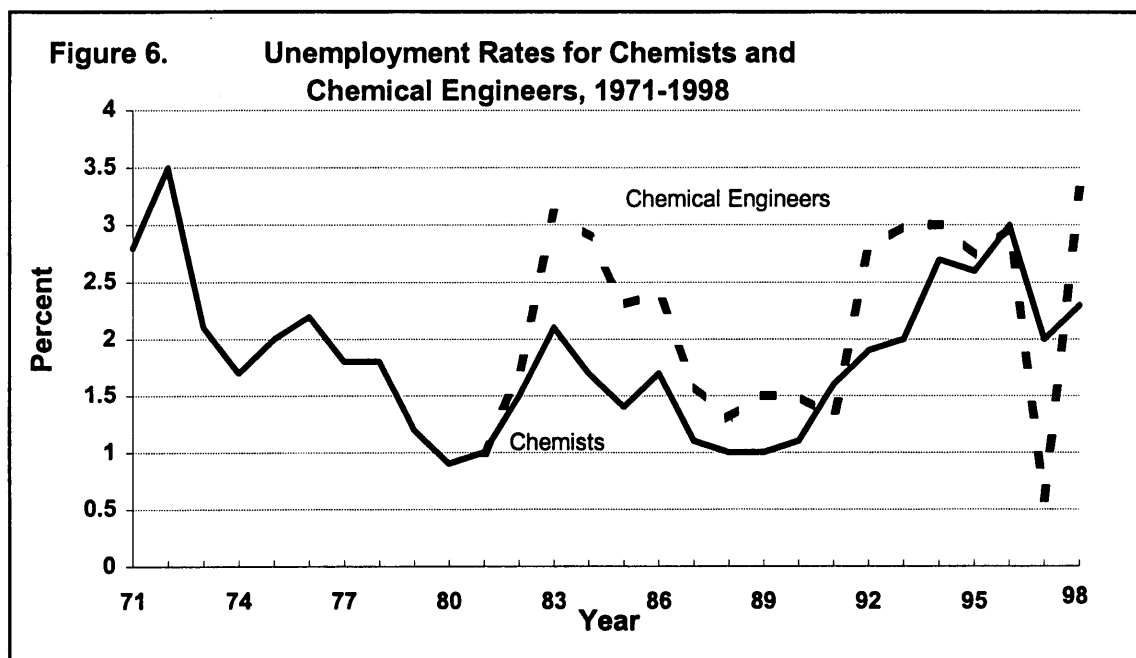
In the early part of the 1990s, the Pacific region showed the highest unemployment rates. The rapid growth of pharmaceutical, electronics, and biotech employment of chemists accounts for Pacific’s drop from the highest regional unemployment of 4.2 percent in 1994 to 2.1 percent (below the national average) in 1998. The size of a region also affects how its unemployment rate is apt to affect the whole. A slight rise in the unemployment rate of a populous region, for example, the Middle Atlantic, will offset a larger opposing movement in a smaller populous region, like the Mountain Region.

Table 7. Regional Unemployment for All Chemists: 1997-1998

Region ³	1997	1998
Pacific	2.5%	2.1%
Mountain	2.5%	4.2%
W. North Central	1.5%	1.8%
W. South Central	1.0%	2.5%
E. North Central	2.4%	2.5%
E. South Central	1.1%	2.6%
Middle Atlantic	2.2%	2.1%
South Atlantic	1.5%	1.7%
New England	1.1%	2.7%
Total	2.0%	2.3%

3. States are listed by region on page 14.

Unemployment Trends



Generally, chemical engineers show higher and more volatile unemployment rates and this certainly holds true for this year. Last year was only the second time in nearly two decades where the unemployment rate for chemical engineers fell below chemists. The unemployment rates for chemists continue at rates about twice as high as those in the mid-1980s.

TECHNICAL NOTES

The Sample

Traditionally, the target population of the *ACS Comprehensive Salary and Employment Status Survey* is ACS members under the age of 70 who have U.S. mailing addresses and have neither student, retired, nor emeritus membership status. This year, a general sample was drawn from a database consisting of all members meeting the above criteria. The survey questionnaires were mailed to 20,000 members by first-class mail on February 27, 1998. The second mailing consisted of a reminder postcard mailed about a week after the first mailing. A follow-up third mailing consisting of the survey questionnaire was sent to nonrespondents on March 27. By the May 8th cut-off date, 9564 usable questionnaires (48 percent of the original mailing) had been returned. The 48 percent response rate represents a drop of 5 percent. This drop is thought to be partly due to the addition of a complex benefits section to the 1998 questionnaire and to the long-term and continued decline in response rates in general.

Definitions

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

Chemist: A respondent who indicated a work specialty of chemistry or biochemistry (categories 2 through 15 of Part 1, Question 3 of the questionnaire) or, if a non-chemistry work specialty (categories 16 through 19 of the same question), a degree field of chemistry or biochemistry.

Chemical Engineer: A respondent who indicated a work specialty of chemical engineering (category 1 of Part 1, Question 3 of the questionnaire).

Nonchemist: A respondent whose work specialty category is other than chemistry or chemical engineering.

Academic: Pertaining to a college or university, i.e., a private or public institution that awards a degree of associate or higher.

Unemployed: A respondent who was not employed and was seeking employment (category 4 of Part 1, Question 4 of the questionnaire). The unemployment rate calculated to compare with the national rate, drops those "not seeking" or "fully retired" from the labor force.

Respondents indicated their employment status, base annual salaries, and ages as of March 1, 1998. The respondent's place of employment (current or most recent) determines geographic region. The listing of states by geographic regions follows this section. (p. 14)

Discrepancies Among Tables

Some pairs of tables contain totals that should be identical but are not. For example, two tables that represent information about Ph.D. respondents should show the same total number of PhDs. However, they might show different totals. This phenomenon is generally caused by missing response items in a survey. Not every respondent answers all questions all of the time. To illustrate, if one table groups the Ph.D.s according to specialty and another groups them according to work function, the totals will differ unless the number who did not indicate their specialty is the same number (or person even) that did not indicate their work function.

Comparing Salaries

Questions arise frequently about salary comparisons, such as between degrees or men and women. All such comparisons require caution. The salaries here represent the medians and means of ACS members. Most of the statistics in this report are descriptive in nature, not analytical.

Tests of significance should be performed on any salary discrepancies to see whether the observed salary differences between groups are mere chance resulting from some peculiarity of the sample itself. The significance of a difference between subpopulations depends on multiple factors. These factors include, among other things, the magnitude of the difference within the sample and between sample groups, and sample size.

Nonresponse Bias

One source of sample error may arise from a response bias. Members who respond may be different than members who do not respond. Past comparisons of ACS membership records showed no bias in terms of age, sex, employer, or geographic region. In addition, a telephone follow-up of 388 nonrespondents to the 1991 survey showed the nonrespondents' salaries were virtually the same as the respondents. The mean salary for the respondents was \$57,007; for nonrespondents it was \$57,982. A t-test of the difference between the mean salaries of the two groups resulted in no significant difference between the means. Student's t^4 was only 0.57 between the two groups. The percent in both groups that were unemployed was also the same -- 1.6%.

⁴Student's t, or the distribution of t, is a test statistic that evaluates the randomness of a given distribution. In this case, the sample of the nonrespondents vs. responders of the 1991 Comprehensive Survey was tested with the Student' t of .057 showing very closely aligned groups.

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

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Table 1.1.1

SALARIES of BS CHEMISTS employed FULL-TIME
by EMPLOYER TYPE and YEARS SINCE BS
1998 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
EMPLOYER TYPE						
Industry						
Total	1424	55,412	23,484	40,000	50,000	65,000
2-4	185	35,573	9,097	30,000	35,000	40,440
5-9	266	43,699	20,032	37,000	42,000	48,000
10-14	229	49,466	11,990	42,000	48,000	55,600
15-19	202	60,697	19,085	49,527	58,910	69,274
20-24	192	61,584	17,220	49,600	60,000	72,650
25-29	139	69,824	27,111	51,200	64,850	82,885
30-34	110	72,431	27,654	54,000	70,000	90,000
35-39	64	81,698	26,829	61,345	75,500	97,110
40 or more	28	70,897	30,989	51,000	66,750	83,315
Government						
Total	127	49,443	16,282	38,600	48,000	58,316
15-19	30	46,791	12,758	36,000	43,390	55,508
20-24	18	50,339	13,305	40,000	51,075	63,100
25-29	22	54,132	15,767	41,818	51,547	65,000
Other Nonacademic						
Total	61	60,006	62,126	36,192	47,500	63,000
High School						
Total	21	35,372	12,209	25,653	31,900	41,000
College or University						
Total	40	39,712	10,511	33,157	37,250	46,753

Note: Categories with fewer than 15 cases have been suppressed.

Table 1:1.2

SALARIES of MS CHEMISTS employed FULL-TIME
by EMPLOYER TYPE and YEARS SINCE BS
1998 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
EMPLOYER TYPE						
Industry						
Total	936	65,604	27,620	50,000	61,000	75,895
5-9	127	45,274	10,175	40,240	45,000	50,400
10-14	133	53,945	12,890	45,000	53,484	59,500
15-19	170	64,656	39,885	51,000	59,925	70,296
20-24	143	68,764	22,343	57,000	66,120	77,500
25-29	153	74,853	23,534	59,642	72,000	84,000
30-34	97	76,387	23,663	63,000	75,000	85,000
35-39	74	82,891	27,763	63,000	79,150	100,000
40 or more	29	77,112	22,461	57,000	73,866	92,016
Government						
Total	119	56,355	17,131	42,700	52,000	68,000
15-19	16	53,881	10,904	47,256	54,211	61,840
20-24	21	55,039	14,344	45,282	50,000	60,050
25-29	23	62,788	19,393	47,000	60,000	76,089
30-34	21	58,392	14,699	51,750	60,000	71,000
Other Nonacademic						
Total	56	68,385	44,943	41,600	55,000	89,850
High School						
Total	58	43,774	11,997	34,768	43,473	50,800
30-34	16	46,737	11,570	39,403	43,150	54,500
College or University						
Total	115	43,052	15,677	32,000	42,350	53,000
10-14	16	35,922	14,001	28,500	34,655	40,000
25-29	18	47,197	18,425	39,472	45,750	54,700
30-34	18	44,986	16,197	36,022	45,950	50,143
35-39	15	46,469	16,606	34,384	46,142	60,000

Note: Categories with fewer than 15 cases have been suppressed.

Table 1.1.3

SALARIES of PhD CHEMISTS employed FULL-TIME
by EMPLOYER TYPE and YEARS SINCE BS
1998 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
EMPLOYER TYPE						
Industry						
Total	2428	85,969	29,887	68,175	80,000	96,450
5-9	128	63,945	10,369	59,000	64,450	69,950
10-14	381	68,827	13,618	60,008	67,867	75,000
15-19	495	76,701	17,684	65,900	74,520	85,000
20-24	437	86,199	20,922	73,000	84,000	95,400
25-29	365	95,594	34,364	79,000	92,000	105,000
30-34	329	101,600	33,692	80,000	95,000	117,000
35-39	203	105,015	41,076	82,500	95,940	117,280
40 or more	90	100,581	43,927	74,200	90,800	112,500
Government						
Total	315	76,064	19,860	62,000	72,758	90,000
10-14	33	58,230	8,888	50,832	58,600	63,431
15-19	39	64,779	13,578	58,530	65,296	72,000
20-24	38	78,144	12,823	70,500	77,150	87,500
25-29	53	78,124	18,444	66,498	73,000	91,416
30-34	64	84,428	20,171	69,871	82,594	98,216
35-39	43	84,566	16,547	70,893	84,000	99,875
40 or more	31	85,179	23,665	63,400	91,870	101,000
Other Nonacademic						
Total	172	84,079	39,070	60,000	78,500	100,000
10-14	15	61,383	18,520	45,000	60,000	75,250
15-19	24	59,802	24,912	45,000	59,724	72,500
20-24	24	79,658	29,352	60,050	80,600	95,293
25-29	25	92,420	35,135	69,060	88,000	100,050
30-34	33	90,724	39,400	65,000	82,000	100,000
35-39	31	97,660	31,081	75,530	96,000	113,500
High School						
Total	18	43,839	12,193	38,851	41,545	50,000
College or University						
Total	1442	63,496	27,778	43,571	56,600	75,736
5-9	68	39,708	10,720	32,000	36,000	44,500
10-14	162	43,389	10,674	36,980	42,000	48,400
15-19	179	49,288	14,224	40,100	47,000	55,000
20-24	210	57,377	21,603	42,800	52,120	67,000
25-29	168	61,179	21,564	45,000	56,000	72,070
30-34	241	74,601	29,388	53,315	68,000	87,500
35-39	251	76,232	30,588	55,000	72,000	90,000
40 or more	163	83,245	30,485	62,028	77,894	97,000

Note: Categories with fewer than 15 cases have been suppressed.

Table 2.1.1

SALARIES of INDUSTRIAL CHEMISTS employed FULL-TIME
by DEGREE and YEARS SINCE BS
1998 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
HIGHEST DEGREE						
BS						
Total	1424	55,412	23,484	40,000	50,000	65,000
2-4	185	35,573	9,097	30,000	35,000	40,440
5-9	266	43,699	20,032	37,000	42,000	48,000
10-14	229	49,466	11,990	42,000	48,000	55,600
15-19	202	60,697	19,085	49,527	58,910	69,274
20-24	192	61,584	17,220	49,600	60,000	72,650
25-29	139	69,824	27,111	51,200	64,850	82,885
30-34	110	72,431	27,654	54,000	70,000	90,000
35-39	64	81,698	26,829	61,345	75,500	97,110
40 or more	28	70,897	30,989	51,000	66,750	83,315
MS						
Total	936	65,604	27,620	50,000	61,000	75,895
5-9	127	45,274	10,175	40,240	45,000	50,400
10-14	133	53,945	12,890	45,000	53,484	59,500
15-19	170	64,656	39,885	51,000	59,925	70,296
20-24	143	68,764	22,343	57,000	66,120	77,500
25-29	153	74,853	23,534	59,642	72,000	84,000
30-34	97	76,387	23,663	63,000	75,000	85,000
35-39	74	82,891	27,763	63,000	79,150	100,000
40 or more	29	77,112	22,461	57,000	73,866	92,016
PhD						
Total	2428	85,969	29,887	68,175	80,000	96,450
5-9	128	63,945	10,369	59,000	64,450	69,950
10-14	381	68,827	13,618	60,008	67,867	75,000
15-19	495	76,701	17,684	65,900	74,520	85,000
20-24	437	86,199	20,922	73,000	84,000	95,400
25-29	365	95,594	34,364	79,000	92,000	105,000
30-34	329	101,600	33,692	80,000	95,000	117,000
35-39	203	105,015	41,076	82,500	95,940	117,280
40 or more	90	100,581	43,927	74,200	90,800	112,500

Note: Categories with fewer than 15 cases have been suppressed.

Table 2.1.2

SALARIES of MEN CHEMISTS employed FULL-TIME in INDUSTRY
by DEGREE and YEARS SINCE BS
1998 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
HIGHEST DEGREE						
BS						
Total	1011	58,715	25,088	42,000	53,000	70,000
2-4	104	36,910	10,032	30,430	35,000	41,050
5-9	157	45,304	24,814	37,925	43,000	48,500
10-14	147	50,108	12,398	42,300	47,880	55,600
15-19	145	61,676	18,884	49,811	59,548	73,000
20-24	159	61,765	17,570	50,000	60,000	73,000
25-29	123	70,420	27,914	51,200	64,850	82,885
30-34	86	77,568	27,362	60,000	75,000	94,000
35-39	58	83,177	27,172	61,445	77,000	99,000
40 or more	27	71,671	31,303	52,000	68,000	86,629
MS						
Total	680	68,404	23,106	52,785	65,000	79,000
5-9	68	47,041	10,074	41,500	46,250	52,100
10-14	86	55,665	13,374	48,100	54,900	59,500
15-19	117	62,900	18,160	52,000	60,313	73,000
20-24	112	69,893	19,442	59,345	68,982	77,950
25-29	122	76,443	21,903	63,100	73,368	85,000
30-34	78	78,630	24,534	64,688	75,000	86,230
35-39	64	86,827	26,980	66,340	82,088	101,100
40 or more	25	79,337	23,268	61,111	79,200	95,000
PhD						
Total	2121	87,523	30,775	69,600	81,920	98,200
5-9	90	64,524	11,024	59,868	65,000	70,000
10-14	313	69,184	14,066	60,330	68,000	75,000
15-19	415	77,684	18,148	67,000	75,000	85,800
20-24	383	86,011	19,922	73,000	84,100	95,400
25-29	330	96,531	35,269	79,899	92,440	105,000
30-34	312	102,366	34,223	80,449	95,000	119,500
35-39	194	106,234	41,455	83,200	96,500	120,000
40 or more	84	102,268	44,792	75,090	92,380	116,500

Note: Categories with fewer than 15 cases have been suppressed.

Table 2.1.3

SALARIES of WOMEN CHEMISTS employed FULL-TIME in INDUSTRY
by DEGREE and YEARS SINCE BS
1998 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
HIGHEST DEGREE						
BS						
Total	411	47,296	16,425	36,587	44,556	55,100
2-4	81	33,858	7,449	28,500	33,758	38,484
5-9	108	41,399	9,323	36,050	40,419	46,540
10-14	82	48,315	11,203	40,500	48,700	55,896
15-19	57	58,208	19,533	48,000	55,000	64,582
20-24	33	60,714	15,641	46,000	56,800	72,000
25-29	16	65,244	19,987	51,850	61,857	82,088
30-34	24	54,025	20,127	43,958	53,000	68,540
MS						
Total	253	58,190	36,249	44,300	52,260	64,800
5-9	59	43,237	9,988	39,370	43,500	49,000
10-14	47	50,799	11,429	44,000	48,000	60,000
15-19	52	68,792	67,046	50,050	57,600	67,750
20-24	30	64,639	31,222	51,000	59,750	70,000
25-29	30	69,283	28,876	51,120	66,000	77,500
30-34	19	67,178	17,322	56,000	68,000	78,000
PhD						
Total	300	75,115	19,658	63,000	70,960	84,544
5-9	38	62,574	8,603	58,900	61,575	66,000
10-14	67	67,481	11,085	59,700	66,875	71,280
15-19	80	71,601	14,077	63,725	70,000	81,080
20-24	52	88,460	27,076	73,604	83,230	97,527
25-29	32	85,299	23,180	70,100	78,690	97,150
30-34	17	87,540	16,865	79,000	87,964	99,900

Note: Categories with fewer than 15 cases have been suppressed.

Table 2.2.1

SALARIES of BS CHEMISTS employed FULL-TIME in INDUSTRY
by WORK SPECIALTY and YEARS SINCE BS
1998 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
SPECIALTY						
Ag/Food chemistry						
Total	49	48,171	19,214	36,500	46,000	57,000
Analytical chemistry						
Total	430	51,635	19,137	39,000	47,800	60,100
2-4	61	35,094	7,780	30,000	32,490	40,200
5-9	88	41,233	7,157	37,000	41,550	45,481
10-14	84	48,312	11,539	41,038	48,250	54,728
15-19	61	56,858	15,927	44,000	57,050	66,200
20-24	54	57,426	17,879	44,500	58,110	67,550
25-29	32	63,786	19,045	53,043	61,950	73,532
30-34	24	73,643	22,079	57,925	70,984	95,500
35-39	20	74,802	22,378	60,186	63,979	93,246
Biochemistry						
Total	21	49,927	13,123	41,000	51,000	56,500
Biotechnology						
Total	25	50,711	18,476	35,395	46,080	62,000
Environmental chemistry						
Total	111	53,964	22,443	40,000	48,600	62,000
5-9	18	38,546	10,234	33,000	37,128	46,000
10-14	25	47,312	10,884	41,965	47,334	51,857
15-19	22	59,951	19,762	43,720	54,000	68,000
20-24	19	60,654	18,694	46,500	57,600	75,000
General chemistry						
Total	89	56,195	21,116	43,500	54,500	65,300
5-9	17	43,363	6,982	37,015	44,000	45,985
Inorganic chemistry						
Total	28	56,559	33,151	41,913	49,400	56,650
Materials science						
Total	50	66,919	24,689	46,000	62,560	86,629
Medicinal-Pharmaceutical						
Total	107	48,812	15,607	39,900	45,000	56,700
2-4	23	37,912	5,799	33,362	38,484	43,000
5-9	27	44,107	10,533	39,000	44,100	51,000
10-14	27	51,349	11,263	44,000	51,200	60,000
Organic chemistry						
Total	135	57,464	22,492	40,230	51,000	71,000
2-4	22	36,713	6,053	32,000	37,850	40,900
5-9	28	45,231	8,755	39,500	44,329	50,800
10-14	16	45,060	6,677	41,750	44,850	47,950
25-29	19	72,571	24,906	58,200	65,000	86,000

(continued)

Note: Categories with fewer than 15 cases have been suppressed.

Table 2.2.1 (Continued)

SALARIES of BS CHEMISTS employed FULL-TIME in INDUSTRY
by WORK SPECIALTY and YEARS SINCE BS
1998 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
SPECIALTY						
Polymer chemistry						
Total	181	58,543	22,377	43,000	53,502	73,000
2-4	26	36,178	6,056	32,000	34,684	41,000
5-9	25	43,009	8,533	38,000	43,400	49,895
10-14	24	53,323	11,163	46,317	53,500	60,500
15-19	21	59,307	13,360	49,000	57,780	70,000
20-24	26	60,489	14,521	52,000	60,385	73,000
25-29	17	68,567	19,965	50,000	67,260	82,885
30-34	22	75,289	25,208	62,764	74,375	82,264
Other Chemical science						
Total	43	59,835	50,059	38,000	50,440	59,280
Business Administration						
Total	35	81,708	32,998	55,492	70,000	100,000
Computer science						
Total	15	68,185	24,667	54,450	67,075	85,000
Other nonchemistry						
Total	78	57,945	25,195	41,000	52,000	67,000
5-9	15	43,171	10,106	36,000	41,000	48,360

Note: Categories with fewer than 15 cases have been suppressed.

Table 2.2.2

SALARIES of BS CHEMISTS employed FULL-TIME in INDUSTRY
by WORK FUNCTION and YEARS SINCE BS
1998 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
WORK FUNCTION						
Analytical services						
Total	337	48,597	22,924	36,000	44,504	57,000
2-4	48	33,140	8,295	26,021	31,950	38,281
5-9	72	43,603	35,936	34,014	40,000	44,000
10-14	70	45,711	11,982	36,000	45,380	50,400
15-19	48	54,958	13,455	43,510	54,350	65,000
20-24	46	53,289	16,271	42,800	52,970	60,000
25-29	21	56,166	13,224	48,500	53,160	64,500
Chemical info						
Total	20	60,175	19,239	48,250	53,000	73,540
Consulting						
Total	24	64,395	27,942	40,983	61,500	78,500
General mgmt						
Total	85	72,755	33,843	50,440	63,000	84,000
25-29	20	79,394	36,203	53,000	66,376	94,250
Health & Safety						
Total	68	62,482	21,430	49,136	58,833	75,998
15-19	15	63,757	19,286	50,000	56,484	65,655
20-24	15	67,871	18,099	49,880	66,000	82,500
Marketing, sales						
Total	99	64,671	25,617	43,100	60,888	82,000
10-14	16	48,356	11,241	42,700	45,000	52,614
15-29	16	80,929	27,628	67,700	82,942	93,300
Production, QC						
Total	267	50,516	19,199	37,020	47,880	59,000
2-4	42	34,390	5,624	31,200	33,750	37,500
5-9	47	41,133	7,832	35,000	40,000	48,000
10-14	43	49,126	9,546	42,200	49,390	55,600
15-19	41	58,754	20,626	44,584	54,550	66,960
20-24	36	54,399	12,657	47,100	55,540	63,150
25-29	23	66,506	34,774	50,000	57,772	72,000
30-34	17	65,255	24,130	43,800	64,020	85,739
Applied Research						
Total	312	52,655	17,474	40,000	49,092	61,547
2-4	57	37,344	11,636	31,000	37,000	41,000
5-9	71	44,255	7,227	39,000	43,800	49,030
10-14	49	50,422	11,498	42,864	48,900	55,896
15-19	37	57,264	11,614	51,000	56,200	62,000
20-24	38	62,995	16,035	50,369	63,250	73,447
25-29	24	62,563	16,844	51,780	59,550	68,630
30-34	23	73,298	16,851	62,764	70,000	82,264

(continued)

Note: Categories with fewer than 15 cases have been suppressed.

Table 2.2.2 (Continued)

SALARIES of BS CHEMISTS employed FULL-TIME in INDUSTRY
by WORK FUNCTION and YEARS SINCE BS
1998 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
WORK FUNCTION						
Basic Research						
Total	61	49,205	14,012	39,900	47,000	56,700
2-4	16	37,167	6,386	31,330	38,950	41,975
5-9	15	46,867	9,945	41,912	47,600	51,000
R&D mgmt						
Total	61	79,588	27,398	58,000	75,000	97,000
Other function						
Total	68	55,827	20,374	40,353	51,552	70,000
5-9	16	40,683	11,435	34,500	40,353	45,750

Note: Categories with fewer than 15 cases have been suppressed.

Table 2.2.3

SALARIES of BS CHEMISTS employed FULL-TIME in INDUSTRY
by INDUSTRY and YEARS SINCE BS
1998 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
NONACADEMIC EMPLOYER						
Analytical serv lab						
Total	85	41,487	16,398	30,160	39,325	46,500
5-9	23	34,311	6,680	29,000	34,000	39,325
10-14	18	39,497	8,322	30,160	41,000	46,034
Contract res firm						
Total	27	48,088	18,392	35,380	42,000	57,000
Utility						
Total	23	59,315	16,833	46,696	56,375	74,000
Other nonmanuf						
Total	61	60,088	27,882	41,965	52,000	70,000
10-14	15	49,337	9,969	42,500	46,800	60,000
Aerospace						
Total	18	62,179	16,773	50,000	58,800	77,376
Ag chemicals						
Total	28	57,838	21,536	39,000	54,280	70,150
Basic chemicals						
Total	43	60,539	20,798	48,000	57,000	72,500
Biochemical prods						
Total	19	52,821	22,396	36,400	51,000	57,000
Coatings, paints						
Total	91	58,040	25,116	43,160	52,348	67,500
10-14	20	49,975	11,516	44,080	49,543	54,500
Electronics						
Total	32	51,405	14,575	41,717	50,000	58,300
Food						
Total	48	55,286	20,488	39,538	51,000	65,588
Instruments						
Total	21	65,642	39,478	42,000	46,700	79,000
Medical devices						
Total	53	56,161	18,235	41,200	52,000	67,300
Metals						
Total	29	47,205	15,075	37,020	44,200	52,000
Personal Care						
Total	22	59,124	28,161	39,000	49,500	67,550
Petroleum						
Total	46	68,688	47,141	44,950	59,510	76,800
Pharmaceuticals						
Total	301	51,445	17,392	39,600	47,700	59,000
2-4	59	36,580	6,381	32,178	36,750	41,444
5-9	73	45,227	9,193	39,000	44,100	50,600
10-14	58	51,148	11,496	44,592	49,350	57,000
15-19	45	61,031	20,367	53,700	58,926	66,200
20-24	26	62,307	19,128	46,950	58,620	75,000
25-29	18	64,406	15,049	54,350	63,510	73,600
Plastics						
Total	57	59,563	25,363	40,972	55,000	76,000

(continued)

Note: Categories with fewer than 15 cases have been suppressed.

Table 2.2.3 (Continued)

SALARIES of BS CHEMISTS employed FULL-TIME in INDUSTRY
by INDUSTRY and YEARS SINCE BS
1998 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
NONACADEMIC EMPLOYER						
Rubber						
Total	41	61,058	23,773	45,000	59,000	73,058
Soaps						
Total	27	54,548	23,530	38,400	54,000	60,000
Specialty chems'						
Total	194	57,397	22,647	42,350	52,000	69,576
2-4	22	35,429	7,430	31,000	33,555	40,000
5-9	37	42,937	8,042	38,000	43,800	47,000
10-14	26	51,528	11,840	43,100	49,850	55,100
15-19	37	59,827	13,037	50,000	60,888	67,910
20-24	22	60,724	11,608	50,369	59,625	72,000
25-29	21	78,042	39,426	55,000	71,400	77,570
30-34	17	74,942	18,168	64,000	69,450	92,000
Other manufacturing						
Total	145	56,267	23,866	39,500	51,426	67,300
2-4	17	34,392	10,465	29,500	32,490	40,000
5-9	21	44,072	8,361	38,000	42,000	52,000
10-14	20	43,389	11,013	34,700	41,750	47,930
15-19	23	60,010	20,338	49,560	52,000	65,000
20-24	20	63,391	12,581	51,754	62,000	74,700
25-29	17	72,276	26,429	57,300	70,000	83,000

Note: Categories with fewer than 15 cases have been suppressed.

Table 2.2.4

SALARIES of BS CHEMISTS employed FULL-TIME in INDUSTRY
by GEOGRAPHIC REGION and YEARS SINCE BS
1998 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
GEOGRAPHIC REGION						
Pacific						
Total	136	55,712	23,092	40,000	50,000	65,425
5-9	29	46,471	9,529	39,200	44,500	53,000
10-14	27	48,909	15,900	40,000	48,000	57,000
20-24	19	62,668	13,034	49,880	64,000	72,024
Mountain						
Total	54	51,722	19,525	38,000	47,290	62,000
West North Central						
Total	105	49,900	23,940	36,000	45,000	57,600
2-4	16	33,524	8,679	26,642	32,467	38,557
5-9	19	41,045	10,038	32,000	40,000	47,500
10-14	27	44,497	8,204	36,500	44,699	50,000
15-19	15	52,255	12,561	39,500	53,000	65,000
West South Central						
Total	112	59,736	22,663	45,750	54,750	69,750
15-19	18	62,021	19,797	49,811	58,800	68,520
20-24	16	56,770	14,333	48,475	59,692	62,500
East North Central						
Total	331	55,065	22,025	40,400	50,000	65,400
2-4	41	36,310	6,876	31,500	36,000	42,060
5-9	59	40,700	6,997	36,000	40,332	45,000
10-14	49	47,611	9,880	41,100	47,334	52,000
15-19	49	61,238	17,320	50,000	59,000	70,000
20-24	57	61,617	17,236	52,000	60,840	72,000
25-29	38	67,073	24,107	53,502	62,750	72,800
30-34	24	72,414	33,805	48,900	65,057	79,100
East South Central						
Total	59	53,405	40,726	36,000	44,116	61,958
Middle Atlantic						
Total	291	56,926	21,629	42,000	52,000	68,100
2-4	34	37,074	6,410	32,000	37,950	40,900
5-9	58	43,328	8,775	37,925	43,616	48,000
10-14	47	52,240	11,336	45,760	50,400	61,200
15-19	45	65,439	20,705	52,000	61,300	73,000
20-24	33	61,896	16,761	50,369	57,600	74,250
25-29	24	64,278	22,504	48,000	58,050	76,664
30-34	28	76,708	24,673	64,250	73,711	93,500
35-39	15	78,450	24,936	61,244	82,164	100,000
South Atlantic						
Total	228	55,452	23,744	39,001	50,000	65,338
2-4	28	35,841	16,145	29,986	32,125	37,425
5-9	47	42,758	8,915	37,050	43,680	47,800
10-14	33	50,807	12,032	41,835	49,951	60,000
15-19	34	58,369	21,582	44,584	54,706	64,400
20-24	26	65,902	18,918	50,350	61,750	82,000
25-29	24	71,147	22,642	51,750	66,410	94,150
30-34	19	68,731	32,289	47,052	68,580	90,000
New England						
Total	94	55,223	20,920	40,000	49,000	69,800
2-4	19	36,446	6,696	30,600	37,500	41,600
5-9	15	41,122	8,798	37,015	42,350	47,630

Note: Categories with fewer than 15 cases have been suppressed.

Table 2.2.5

SALARIES of BS CHEMISTS employed FULL-TIME in INDUSTRY
by TOTAL SUBORDINATES and YEARS SINCE BS
1998 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
TOTAL SUPERVISED						
None						
Total	385	50,821	18,791	38,000	48,000	59,100
1-2	22	49,675	13,628	39,300	45,986	60,000
2-4	62	34,880	5,790	30,600	34,584	39,100
5-9	75	41,803	9,465	36,000	41,500	47,800
10-14	58	46,165	10,464	39,600	46,500	52,862
15-19	52	55,596	12,621	48,126	53,000	63,700
20-24	49	57,362	15,575	48,500	57,600	69,500
25-29	33	62,444	17,982	50,000	59,100	70,000
30-34	28	63,215	23,733	42,269	66,170	75,600
35-39	16	77,193	30,954	52,688	66,189	90,175
3-9						
Total	963	55,871	23,737	40,230	50,600	65,194
2-4	118	35,806	10,493	30,000	34,750	41,100
5-9	183	44,594	23,335	37,280	42,350	48,250
10-14	163	50,254	12,159	42,400	48,900	56,375
15-19	137	60,581	19,177	49,344	59,644	69,274
20-24	134	63,058	17,372	50,000	61,159	75,000
25-29	94	69,781	27,395	52,000	64,675	79,980
30-34	69	73,166	26,989	54,060	70,000	90,000
35-39	43	83,486	25,436	63,000	78,540	100,000
40 or more	15	65,064	24,185	52,000	68,000	75,200
10-14						
Total	49	77,077	26,342	60,000	73,000	90,000

Note: Categories with fewer than 15 cases have been suppressed.

Table 2.2.6

SALARIES of BS CHEMISTS employed FULL-TIME in INDUSTRY
by EMPLOYER SIZE and YEARS SINCE BS
1998 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
EMPLOYER SIZE						
Less than 50						
Total	134	50,548	26,286	33,742	44,792	58,000
2-4	17	29,568	7,626	24,000	30,000	32,000
5-9	26	38,644	9,075	33,000	37,713	42,000
10-14	23	46,244	11,812	40,000	45,000	51,200
20-24	18	54,137	21,930	39,000	47,503	60,000
50 to 99						
Total	92	49,784	19,883	36,000	45,250	60,000
5-9	18	36,869	10,500	30,404	36,000	41,000
10-14	17	46,483	11,222	40,000	45,500	50,000
20-24	19	59,768	14,990	50,000	60,000	70,000
100 to 499						
Total	242	53,197	23,830	37,800	48,000	60,650
2-4	34	35,739	15,575	29,680	33,000	37,500
5-9	49	42,857	9,262	37,000	43,000	48,000
10-14	37	47,258	15,074	37,800	45,000	50,000
15-19	37	56,632	19,111	47,600	49,772	64,500
20-24	35	58,404	17,118	46,700	56,790	66,700
25-29	19	68,065	36,908	47,164	58,000	70,000
35-39	15	85,616	36,517	60,650	70,379	105,000
500 to 2,499						
Total	271	53,077	20,638	40,000	48,500	61,248
2-4	36	34,585	7,170	29,205	32,339	39,275
5-9	52	42,275	7,521	37,630	41,590	47,007
10-14	46	49,259	11,447	41,965	47,357	58,000
15-19	44	58,345	14,331	50,000	59,250	66,455
20-24	31	63,941	18,266	52,000	60,000	74,250
25-29	23	61,085	19,000	47,000	60,000	82,885
30-34	21	75,120	40,609	47,052	59,850	82,264
2,500 to 9,999						
Total	266	58,198	22,094	42,000	54,000	70,000
2-4	31	36,831	5,516	32,490	36,032	41,444
5-9	42	44,781	7,568	39,000	44,150	48,996
10-14	47	50,073	11,712	42,400	51,000	57,000
15-19	41	63,462	21,617	52,000	62,000	75,000
20-24	35	67,776	15,504	58,000	67,500	75,287
25-29	30	69,459	23,589	50,000	64,750	85,500
30-34	24	74,654	27,093	65,750	75,600	95,250
10,000 to 24,999						
Total	156	59,977	31,072	44,000	54,000	69,750
2-4	20	37,151	6,654	30,670	37,850	41,485
5-9	30	53,170	54,117	38,168	44,808	51,000
10-14	19	53,894	11,826	47,000	51,100	59,800
15-19	18	67,521	24,439	51,304	59,458	74,880
20-24	26	58,286	15,848	46,000	57,490	70,939
25-29	22	74,837	23,184	58,476	71,750	77,376

(continued)

Note: Categories with fewer than 15 cases have been suppressed.

Table 2.2.6 (Continued)
 SALARIES of BS CHEMISTS employed FULL-TIME in INDUSTRY
 by EMPLOYER SIZE and YEARS SINCE BS
 1998 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
EMPLOYER SIZE						
25,000 or more						
Total	248	59,576	20,540	44,000	55,140	72,000
2-4	33	38,279	6,498	34,195	39,524	43,000
5-9	43	45,189	7,989	39,000	45,000	51,600
10-14	37	52,080	9,903	45,640	50,100	57,600
15-19	35	65,411	16,384	54,550	62,000	68,520
20-24	28	64,293	15,602	55,041	61,420	75,198
25-29	25	71,157	16,428	59,100	66,432	87,420
30-34	26	77,552	18,016	69,450	74,475	91,000

Note: Categories with fewer than 15 cases have been suppressed.

Table 2.3.1

SALARIES of MS CHEMISTS employed FULL-TIME in INDUSTRY
by WORK SPECIALTY and YEARS SINCE BS
1998 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
SPECIALTY						
Ag/Food chemistry						
Total	271	63,587	34,049	49,000	60,000	72,000
5-9	31	45,274	11,287	41,800	45,000	52,000
10-14	40	53,013	8,761	45,850	52,000	59,390
15-19	46	67,271	71,088	49,000	54,500	64,800
20-24	44	65,138	17,740	55,357	65,000	70,475
25-29	47	67,192	18,312	55,000	65,000	77,500
30-34	31	74,718	15,720	65,220	75,000	82,764
35-39	21	72,226	24,962	60,828	70,000	85,000
Biochemistry						
Total	18	65,343	17,713	52,000	61,014	78,000
Biotechnology						
Total	30	73,832	32,356	55,000	66,082	90,000
General chemistry						
Total	27	60,120	22,279	42,900	58,000	77,000
Inorganic chemistry						
Total	18	65,577	18,862	52,100	66,000	77,750
Materials science						
Total	39	71,356	21,010	56,100	69,000	80,000
Medicinal-Pharmaceutical						
Total	120	62,246	23,156	47,900	55,900	71,671
5-9	33	45,971	5,904	42,000	45,000	50,100
10-14	21	53,313	8,742	50,000	54,000	58,000
15-19	20	67,283	28,759	49,850	58,625	74,240
25-29	15	83,707	27,996	65,200	77,000	90,000
Organic chemistry						
Total	96	62,349	20,267	48,050	60,000	75,000
5-9	19	44,814	7,385	43,800	46,000	49,000
10-14	18	51,996	9,325	44,210	51,050	56,760
15-19	16	60,458	10,427	51,900	61,250	66,850
Polymer chemistry						
Total	108	71,903	28,137	52,630	66,266	85,000
15-19	18	63,077	16,337	51,000	62,300	78,000
20-24	21	76,277	24,969	66,000	71,210	85,428
25-29	18	77,565	28,922	55,250	68,500	91,000
Other chemical science						
Total	120	62,694	20,902	50,000	60,719	75,000
5-9	18	41,994	11,021	35,175	39,304	50,000
15-19	21	61,891	15,883	52,000	59,850	71,000
20-24	19	64,548	15,983	53,000	60,437	80,100
25-29	21	75,827	14,675	71,500	75,000	82,000
Business Administration						
Total	18	81,978	31,537	63,500	71,256	95,800
Other nonchemistry						
Total	41	74,006	31,399	57,200	65,000	85,000

Note: Categories with fewer than 15 cases have been suppressed.

Table 2.3.2

SALARIES of MS CHEMISTS employed FULL-TIME in INDUSTRY
by WORK FUNCTION and YEARS SINCE BS
1998 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
WORK FUNCTION						
Analytical services						
Total	169	57,449	17,514	44,900	56,900	67,000
5-9	27	42,832	11,811	37,500	42,500	47,000
10-14	25	48,667	9,336	44,226	49,000	54,800
15-19	30	55,479	12,072	45,000	54,000	62,000
20-24	25	64,945	12,931	59,690	65,000	69,984
25-29	28	62,729	14,044	53,550	61,371	73,500
30-34	17	68,070	16,751	57,000	66,950	78,329
Chemical info						
Total	16	59,196	15,518	48,212	60,000	67,059
Consulting						
Total	29	62,293	20,534	47,768	62,500	72,000
General mgmt						
Total	56	79,424	28,799	63,750	73,470	87,575
Health & Safety						
Total	47	69,777	20,203	55,587	65,000	82,000
Other function						
Total	598	66,821	30,373	50,000	62,000	77,200
5-9	86	46,648	9,810	42,500	46,913	50,808
10-14	90	54,764	13,753	45,150	53,946	60,000
15-19	114	66,645	47,482	51,000	60,000	70,296
20-24	86	68,013	20,261	56,000	68,290	79,000
25-29	94	77,741	24,936	64,000	73,368	85,200
30-34	54	80,248	26,512	66,352	76,750	90,800
35-39	47	84,967	28,314	64,600	80,000	100,000
40 or more	22	78,247	24,151	57,000	72,933	95,800

Note: Categories with fewer than 15 cases have been suppressed.

Table 2.3.3

SALARIES of MS CHEMISTS employed FULL-TIME in INDUSTRY
by INDUSTRY and YEARS SINCE BS
1998 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
NONACADEMIC EMPLOYER						
Analytical serv lab						
Total	39	49,809	20,724	37,000	46,800	58,000
Contract res firm						
Total	24	60,684	19,816	42,300	60,482	74,500
Other nonmanuf						
Total	70	63,615	22,946	47,768	60,550	78,000
Ag chemicals						
Total	28	66,230	22,949	52,582	61,605	73,836
Basic chemicals						
Total	28	68,200	18,953	55,900	65,421	75,500
Biochemical prods						
Total	17	62,155	19,771	51,120	64,000	70,000
Coatings, paints						
Total	51	63,666	21,240	47,112	62,500	73,000
Electronics						
Total	25	62,604	15,840	50,000	61,000	73,440
Food						
Total	26	62,457	24,506	45,204	60,000	73,000
Instruments						
Total	26	64,859	26,179	53,000	59,750	71,880
Medical devices						
Total	32	70,603	26,710	51,200	68,528	79,690
Metals						
Total	17	69,729	22,374	55,000	62,540	82,900
Petroleum						
Total	31	77,918	22,078	60,000	77,500	90,000
Pharmaceuticals						
Total	261	64,066	35,282	49,600	57,000	72,500
5-9	61	46,837	8,732	43,500	47,700	51,700
10-14	45	53,865	8,266	49,000	54,000	58,000
15-19	46	72,212	70,506	52,000	58,514	75,321
20-24	33	66,378	17,934	55,000	66,000	74,316
25-29	33	84,084	28,206	70,000	77,000	90,000
30-34	23	73,349	14,653	63,000	68,428	82,764
Plastics						
Total	30	73,651	16,943	60,500	73,168	87,000
Rubber						
Total	19	70,055	15,437	59,040	69,000	80,000
Specialty chems'						
Total	110	68,116	29,641	47,100	63,000	82,000
15-19	22	56,190	15,975	46,900	52,350	63,070
25-29	17	73,840	27,618	52,100	68,300	91,000
35-39	16	91,405	35,947	62,198	89,500	103,100
Other manufacturing						
Total	81	69,548	27,022	55,000	65,000	78,555
20-24	16	75,040	35,101	59,200	64,750	71,125
25-29	17	71,065	24,599	58,000	68,000	80,000

Note: Categories with fewer than 15 cases have been suppressed.

Table 2.3.4

SALARIES of MS CHEMISTS employed FULL-TIME in INDUSTRY
by GEOGRAPHIC REGION and YEARS SINCE BS
1998 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
GEOGRAPHIC REGION						
Pacific						
Total	100	66,245	23,926	48,227	64,400	77,750
5-9	15	49,606	13,706	41,500	44,800	56,000
15-19	19	59,644	14,314	48,010	61,262	68,000
25-29	21	80,047	23,170	70,400	77,000	85,000
Mountain						
Total	38	60,208	17,319	46,500	56,000	73,000
West North Central						
Total	47	65,226	31,283	46,800	57,000	76,000
West South Central						
Total	56	70,095	22,639	54,000	66,071	82,854
East North Central						
Total	178	63,749	21,329	49,370	59,821	75,000
5-9	26	43,561	8,307	38,900	43,560	48,500
10-14	20	52,692	8,882	49,386	52,106	57,380
15-19	32	64,156	15,655	52,000	64,300	75,500
20-24	22	62,413	14,436	55,587	65,500	73,000
25-29	34	68,732	20,833	52,500	61,655	77,200
30-34	18	75,845	19,374	63,000	74,120	90,800
35-39	16	86,707	33,010	63,090	82,825	106,000
East South Central						
Total	27	63,032	21,040	44,000	66,900	78,300
Middle Atlantic						
Total	234	67,280	37,813	50,700	60,950	73,866
5-9	38	47,866	8,264	43,500	48,384	51,700
10-14	34	53,461	9,927	45,000	54,346	60,000
15-19	44	70,955	72,221	49,861	56,650	69,528
20-24	34	68,398	13,791	60,000	66,344	77,500
25-29	25	82,242	30,000	65,000	72,000	93,000
30-34	30	75,787	30,787	61,428	67,964	78,475
35-39	19	82,600	21,503	64,200	80,000	103,900
South Atlantic						
Total	139	62,363	21,205	48,424	60,000	74,400
5-9	15	44,112	9,311	40,000	45,000	50,400
10-14	20	53,619	20,762	40,000	52,342	60,168
15-19	24	61,255	26,334	50,050	55,254	64,900
20-24	30	64,442	17,424	55,000	60,000	74,000
25-29	25	68,271	15,424	60,000	72,500	79,872
New England						
Total	107	69,323	25,641	54,600	65,136	78,555
10-14	23	60,780	15,375	47,250	57,680	70,000
15-19	21	69,630	18,485	58,836	63,700	73,500
20-24	15	79,529	22,807	66,000	72,000	91,400

Note: Categories with fewer than 15 cases have been suppressed.

Table 2.3.5

SALARIES of MS CHEMISTS employed FULL-TIME in INDUSTRY
by TOTAL SUBORDINATES and YEARS SINCE BS
1998 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
TOTAL SUPERVISED						
1-2						
Total	251	59,684	34,902	45,204	55,800	66,000
5-9	39	45,046	11,557	41,500	45,204	50,000
10-14	56	50,921	9,427	44,218	50,250	57,000
15-19	39	68,387	76,687	47,000	54,000	64,800
20-24	32	60,696	17,504	47,700	59,415	71,924
25-29	33	62,919	23,071	48,424	60,210	72,500
30-34	24	69,737	19,017	58,500	66,800	79,050
35-39	19	72,620	22,919	59,000	68,775	85,000
3-9						
Total	633	66,072	21,890	51,700	63,000	77,700
5-9	87	45,448	9,599	40,240	45,000	50,730
10-14	75	56,098	14,755	47,000	55,000	62,000
15-19	123	62,263	15,776	51,900	60,000	70,680
20-24	100	69,236	18,217	59,595	68,772	77,950
25-29	108	74,961	19,374	63,500	72,950	84,475
30-34	68	77,402	24,827	63,844	75,000	85,250
35-39	47	86,766	26,439	66,500	80,000	100,000
40 or more	18	75,689	23,303	53,700	75,000	92,016
10-14						
Total	30	86,735	28,568	66,842	81,198	106,000

Note: Categories with fewer than 15 cases have been suppressed.

Table 2.3.6

SALARIES of MS CHEMISTS employed FULL-TIME in INDUSTRY
by EMPLOYER SIZE and YEARS SINCE BS
1998 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
EMPLOYER SIZE						
Less than 50						
Total	83	59,324	24,852	42,000	55,000	72,000
10-14	15	59,385	22,622	45,000	54,700	60,000
15-19	15	63,124	26,376	40,740	62,000	71,000
50 to 99						
Total	57	60,661	29,980	43,000	50,000	65,163
100 to 499						
Total	148	61,441	23,494	46,225	56,580	71,940
5-9	19	41,712	10,650	36,500	42,500	47,500
10-14	18	49,960	13,728	40,000	48,625	57,680
15-19	28	61,044	26,451	45,528	54,032	66,220
20-24	16	62,281	19,007	53,307	65,894	73,950
25-29	32	70,851	24,062	55,000	69,129	80,250
500 to 2,499						
Total	147	62,539	21,179	48,000	59,850	72,000
5-9	17	42,116	11,228	37,000	43,100	46,800
10-14	26	50,010	11,267	42,500	47,639	58,900
15-19	28	63,364	12,700	54,000	62,785	73,750
20-24	28	62,798	14,654	55,050	60,000	67,450
25-29	23	70,563	24,000	52,500	65,000	84,450
2,500 to 9,999						
Total	175	67,078	24,077	52,000	63,000	76,500
5-9	26	47,174	8,023	43,500	47,734	52,000
10-14	20	54,105	4,812	49,630	54,698	57,650
15-19	35	62,210	11,890	51,900	61,000	70,000
20-24	23	76,958	31,510	60,000	70,000	86,300
25-29	26	73,900	15,739	63,100	71,089	85,261
30-34	22	79,940	34,139	66,500	74,500	79,000
35-39	16	80,065	26,303	62,198	70,750	92,100
10,000 to 24,999						
Total	104	67,043	19,770	52,156	65,000	77,000
5-9	17	48,781	6,121	43,800	49,500	52,100
15-19	15	67,514	19,223	54,000	60,000	78,450
20-24	19	70,283	14,658	65,000	70,000	73,000
25-29	16	86,142	24,022	69,000	78,750	90,750
25,000 or more						
Total	215	72,573	37,686	55,300	68,000	81,000
5-9	25	49,735	7,996	44,600	49,810	51,700
10-14	27	59,374	8,251	55,770	59,000	63,000
15-19	35	74,732	80,092	51,800	62,000	73,000
20-24	40	72,719	20,876	59,989	69,940	84,850
25-29	39	77,365	20,585	66,000	73,336	82,340
30-34	29	81,406	20,707	66,000	78,475	92,580
35-39	15	96,661	19,524	84,663	90,200	106,000

Note: Categories with fewer than 15 cases have been suppressed.

Table 2.4.1

SALARIES of PhD CHEMISTS employed FULL-TIME in INDUSTRY
by WORK SPECIALTY and YEARS SINCE BS
1998 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
SPECIALTY						
Ag/Food chemistry						
Total	85	87,365	28,024	70,920	82,840	95,940
20-24	20	80,277	11,882	72,000	82,870	88,500
30-34	16	99,562	30,818	79,359	89,950	126,462
35-39	16	99,107	22,405	88,250	96,470	104,000
Analytical chemistry						
Total	397	80,653	22,825	66,000	76,000	93,000
5-9	16	62,558	6,183	58,207	62,670	67,500
10-14	70	67,404	13,857	57,500	65,278	73,000
15-19	87	75,177	14,205	66,000	72,000	84,000
20-24	65	79,482	17,343	70,000	79,200	87,800
25-29	72	88,389	18,954	74,873	86,950	100,000
30-34	50	93,002	27,367	75,000	90,350	110,000
35-39	24	97,210	26,497	76,849	97,250	121,140
Biochemistry						
Total	58	84,308	28,283	66,500	77,812	94,312
15-19	15	74,223	11,721	64,100	71,000	84,000
Biotechnology						
Total	118	89,640	33,718	67,655	81,500	102,600
10-14	20	65,407	11,921	58,000	67,328	74,000
15-19	22	78,307	17,487	68,392	78,150	85,000
20-24	28	94,824	31,782	72,500	86,720	111,500
25-29	17	96,699	32,128	83,130	95,100	103,040
30-34	15	123,911	38,110	95,000	105,000	150,000
Clinical chemistry						
Total	21	84,201	21,786	66,500	82,000	96,000
Environmental chemistry						
Total	72	79,659	27,353	60,500	75,000	92,000
25-29	15	86,309	26,682	63,480	78,252	106,300
General chemistry						
Total	34	84,125	23,905	68,042	78,051	98,000
Inorganic chemistry						
Total	89	80,734	24,362	69,000	76,488	91,400
15-19	27	75,553	12,269	68,000	76,000	81,000
25-29	15	81,332	11,498	72,661	80,683	91,400
Materials science						
Total	161	82,210	23,091	66,420	78,500	95,800
10-14	27	64,822	9,469	60,000	63,900	72,000
15-19	33	72,285	12,326	65,500	70,000	78,240
20-24	28	89,051	19,199	77,500	89,750	99,751
25-29	25	93,929	23,418	80,236	92,000	100,000
30-34	18	103,918	28,994	86,000	104,000	112,000

(continued)

Note: Categories with fewer than 15 cases have been suppressed.

Table 2.4.1 (Continued)
 SALARIES of PhD CHEMISTS employed FULL-TIME in INDUSTRY
 by WORK SPECIALTY and YEARS SINCE BS
 1998 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
SPECIALTY						
Medicinal-Pharmaceutical						
Total	324	91,972	39,084	72,000	84,205	102,300
5-9	27	68,719	11,795	63,000	70,000	73,500
10-14	65	75,554	13,042	67,500	72,600	85,000
15-19	92	83,193	24,291	72,200	82,250	95,250
20-24	56	94,152	25,031	79,610	89,635	106,860
25-29	31	115,688	65,436	81,000	101,000	110,000
30-34	24	127,371	35,350	94,500	130,339	145,000
35-39	16	131,552	78,664	91,000	108,500	141,008
Organic chemistry						
Total	352	82,760	28,096	65,000	78,896	93,644
5-9	21	63,152	6,811	58,650	61,500	70,000
10-14	54	67,118	11,872	60,000	65,000	71,047
15-19	61	74,239	19,772	64,100	69,000	82,000
20-24	64	81,611	17,926	69,840	82,290	90,960
25-29	61	93,038	43,841	74,100	88,270	100,000
30-34	47	94,968	28,488	78,500	89,000	104,772
35-39	28	96,416	22,447	81,547	94,750	108,066
40 or more	16	99,418	25,562	77,750	96,650	110,875
Physical chemistry						
Total	107	82,806	24,587	67,867	76,080	92,000
15-19	24	71,542	7,484	65,000	72,900	76,600
20-24	15	81,533	11,237	73,000	79,500	90,000
30-34	19	103,059	35,833	79,620	99,900	125,000
Polymer chemistry						
Total	346	85,881	23,342	69,400	82,836	96,600
5-9	18	63,943	4,842	61,000	64,687	68,000
10-14	49	67,371	10,116	62,000	65,760	71,280
15-19	57	76,036	14,294	65,238	74,900	84,300
20-24	67	86,977	15,543	76,000	85,000	95,500
25-29	43	94,616	18,579	82,400	94,500	102,050
30-34	58	98,085	32,257	79,100	93,950	111,000
35-39	35	97,386	25,289	78,032	94,949	112,000
40 or more	19	101,853	20,096	83,050	98,890	117,999
Other chemical science						
Total	74	86,032	24,068	67,500	86,506	96,500
20-24	15	79,583	17,162	67,500	76,232	93,480
Business Administration						
Total	49	112,114	39,694	87,610	99,000	135,000
Computer science						
Total	35	80,579	27,016	63,000	79,400	95,600
Other nonchemistry						
Total	97	103,460	48,497	75,000	90,000	120,000
20-24	23	97,728	32,230	75,000	86,400	120,000
25-29	21	105,434	24,133	88,000	105,000	120,000
30-34	19	116,070	48,684	76,336	107,000	150,000

Note: Categories with fewer than 15 cases have been suppressed.

Table 2.4.2

SALARIES of PhD CHEMISTS employed FULL-TIME in INDUSTRY
by WORK FUNCTION and YEARS SINCE BS
1998 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
WORK FUNCTION						
Analytical services						
Total	207	73,825	17,782	63,340	70,622	82,000
10-14	39	64,650	8,640	58,000	64,000	69,900
15-19	41	69,396	12,511	64,500	69,000	74,520
20-24	40	76,784	19,402	66,439	78,800	85,000
25-29	33	84,766	16,190	72,030	82,000	94,400
30-34	25	78,141	25,156	62,900	75,200	90,000
Computers						
Total	31	75,851	23,606	62,275	73,000	85,000
Consulting						
Total	22	82,043	31,916	60,000	74,000	100,000
General mgmt						
Total	81	128,709	66,873	84,200	105,000	155,000
25-29	15	127,629	79,482	80,000	100,000	137,000
30-34	19	149,401	50,505	100,200	151,200	197,000
35-39	18	163,650	86,023	105,000	143,500	184,500
Health & Safety						
Total	34	93,451	33,069	77,500	83,598	98,000
Marketing, sales						
Total	76	85,584	20,071	75,000	83,650	98,000
15-19	17	82,789	15,034	75,000	85,000	98,000
20-24	15	77,092	12,818	69,540	80,000	86,520
25-29	16	90,363	17,602	78,500	88,500	98,000
30-34	15	94,325	30,279	72,100	95,000	112,000
Patents						
Total	17	95,681	24,271	77,000	86,640	105,000
Production, QC						
Total	130	78,034	25,599	62,000	74,850	90,000
10-14	19	62,107	12,266	57,000	59,904	68,000
15-19	22	71,890	17,245	63,360	72,475	81,000
20-24	28	88,094	23,244	73,100	82,965	93,750
25-29	21	83,465	33,858	59,000	77,000	94,700
30-34	22	81,620	21,666	67,322	87,000	92,352
Applied Research						
Total	1153	79,202	22,673	65,004	75,000	89,000
5-9	73	62,716	9,602	58,900	63,000	67,795
10-14	221	67,883	11,726	61,000	67,284	72,500
15-19	270	72,465	13,304	64,200	71,550	79,200
20-24	193	80,160	15,292	70,000	80,000	89,558
25-29	149	91,674	37,145	78,000	87,700	99,990
30-34	120	91,127	23,507	77,682	88,000	102,850
35-39	90	94,995	22,482	81,250	92,610	108,000
40 or more	37	96,196	19,665	83,050	93,789	110,000

(continued)

Note: Categories with fewer than 15 cases have been suppressed.

Table 2.4.2 (Continued)
 SALARIES of PhD CHEMISTS employed FULL-TIME in INDUSTRY
 by WORK FUNCTION and YEARS SINCE BS
 1998 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
WORK FUNCTION						
Basic Research						
Total	200	84,723	20,605	70,000	79,550	96,000
5-9	20	68,248	9,209	62,100	68,000	72,500
10-14	43	71,938	11,388	63,000	71,000	78,000
15-19	47	80,981	14,542	70,000	78,000	90,800
20-24	34	89,128	14,478	77,000	88,000	99,300
25-29	26	95,821	16,295	83,000	97,000	106,140
30-34	16	112,070	26,336	89,000	104,004	138,420
R&D mgmt						
Total	404	105,627	31,357	86,450	100,000	117,500
10-14	25	76,160	19,230	61,854	78,396	84,400
15-19	64	93,075	23,998	81,050	89,500	103,000
20-24	88	102,447	21,823	87,063	97,210	112,877
25-29	77	108,676	23,148	95,000	104,000	116,000
30-34	81	117,382	28,087	97,300	111,000	135,000
35-39	47	113,621	35,315	86,000	109,000	135,000
40 or more	16	136,939	70,679	88,500	121,756	147,782
Other function						
Total	49	86,208	28,274	69,300	84,744	93,480

Note: Categories with fewer than 15 cases have been suppressed.

Table 2.4.3

SALARIES of PhD CHEMISTS employed FULL-TIME in INDUSTRY
by INDUSTRY and YEARS SINCE BS
1998 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
NONACADEMIC EMPLOYER						
Analytical serv						
lab						
Total	40	69,106	33,976	48,565	65,000	75,500
Contract res firm						
Total	91	76,640	24,675	61,854	70,000	84,000
15-19	18	66,882	14,184	63,000	66,010	70,013
20-24	19	82,596	31,488	69,000	75,000	82,000
Other nonmanuf						
Total	84	79,985	28,337	60,165	77,500	92,500
10-14	17	62,962	16,158	48,000	62,400	73,700
25-29	16	86,598	32,069	69,249	88,500	103,900
30-34	17	83,205	25,347	60,535	88,650	100,000
Aerospace						
Total	30	79,281	16,578	66,000	77,000	92,890
Ag chemicals						
Total	87	84,650	20,329	70,000	82,900	95,000
20-24	19	81,381	12,231	72,000	83,160	91,550
30-34	15	94,552	22,892	77,000	95,000	108,000
Basic chemicals						
Total	138	88,579	26,644	72,500	83,260	98,000
10-14	18	68,265	9,488	64,000	70,240	72,500
15-19	31	75,475	9,857	67,900	75,000	80,160
20-24	23	84,049	16,163	71,000	85,440	96,000
25-29	31	94,111	21,530	82,200	90,000	99,200
30-34	18	107,969	28,633	88,000	102,500	118,800
Biochemical prods						
Total	42	86,065	55,278	60,000	74,550	90,000
Coatings, paints						
Total	95	77,701	19,011	64,000	74,000	87,610
10-14	20	63,936	8,408	59,500	63,225	69,850
15-19	15	70,380	11,274	62,000	74,000	77,500
Electronics						
Total	58	86,078	24,198	70,000	82,750	98,000
15-19	15	78,310	10,983	70,000	80,000	88,000
Food						
Total	48	89,720	33,798	69,500	82,151	102,232
Instruments						
Total	68	78,540	19,605	64,020	76,165	89,500
Medical devices						
Total	100	86,923	26,662	68,000	80,670	96,050
15-19	17	69,758	8,343	63,830	67,950	72,450
20-24	18	77,674	10,602	68,670	76,000	85,000
25-29	18	104,119	29,239	88,000	95,750	118,400
30-34	23	106,202	30,387	86,082	100,000	120,000
Metals						
Total	22	79,314	40,132	67,322	74,500	83,820

(continued)

Note: Categories with fewer than 15 cases have been suppressed.

Table 2.4.3 (Continued)
 SALARIES of PhD CHEMISTS employed FULL-TIME in INDUSTRY
 by INDUSTRY and YEARS SINCE BS
 1998 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
NONACADEMIC EMPLOYER						
Paper						
Total	17	97,272	56,249	71,800	86,150	103,500
Personal Care						
Total	28	93,804	55,311	68,372	81,650	97,150
Petroleum						
Total	99	96,119	28,911	76,000	90,600	112,000
25-29	23	99,096	20,310	82,000	99,990	115,000
30-34	17	116,816	40,697	86,000	110,556	131,000
Pharmaceuticals						
Total	652	90,900	34,590	70,305	83,515	102,000
5-9	47	69,063	9,764	63,000	68,000	72,200
10-14	130	75,268	15,592	65,000	71,874	82,000
15-19	183	82,428	22,494	70,000	79,500	94,959
20-24	112	93,891	24,949	79,260	90,000	106,175
25-29	81	109,992	57,060	81,000	100,000	117,000
30-34	49	121,693	39,227	91,200	120,000	147,500
35-39	31	121,181	34,930	93,500	116,412	138,516
40 or more	19	105,647	43,580	74,200	95,000	130,000
Plastics						
Total	132	87,498	25,198	70,500	80,862	100,000
10-14	19	68,759	9,716	63,129	69,000	72,600
15-19	22	76,044	12,022	68,496	76,000	81,000
20-24	20	85,180	13,564	76,800	82,730	94,687
25-29	24	96,532	18,059	80,862	95,600	107,000
30-34	24	102,065	33,036	76,482	102,150	112,784
Rubber						
Total	28	86,712	24,285	66,000	80,395	97,815
Soaps						
Total	35	86,810	27,438	67,500	81,000	100,000
Specialty chems'						
Total	318	82,127	22,094	67,000	79,642	93,500
10-14	40	63,398	8,229	56,200	64,000	69,450
15-19	54	73,823	14,467	64,500	70,000	79,900
20-24	76	83,226	14,318	74,325	85,077	93,000
25-29	50	89,068	20,561	75,000	88,905	98,772
30-34	41	89,743	29,432	75,200	88,250	96,000
35-39	28	98,604	27,658	83,100	94,425	109,750
40 or more	16	96,258	27,696	75,640	93,074	111,000
Other						
manufacturing						
Total	209	83,847	25,176	67,500	78,880	100,000
10-14	25	61,498	10,951	53,000	61,437	65,010
15-19	41	74,829	13,633	67,500	74,000	83,000
20-24	41	86,761	21,586	73,212	84,000	96,000
25-29	32	91,297	18,938	78,428	94,875	105,000
30-34	28	101,314	33,959	77,200	95,960	108,300
35-39	28	94,269	29,479	74,500	91,950	106,780

Note: Categories with fewer than 15 cases have been suppressed.

Table 2.4.4

SALARIES of PhD CHEMISTS employed FULL-TIME in INDUSTRY
by GEOGRAPHIC REGION and YEARS SINCE BS
1998 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
GEOGRAPHIC REGION						
Pacific						
Total	328	86,615	30,290	67,975	79,810	97,650
5-9	23	67,005	7,774	61,650	65,000	71,000
10-14	60	71,678	18,533	61,900	68,513	76,219
15-19	65	81,831	25,223	66,900	75,000	90,000
20-24	62	85,632	27,485	69,540	80,000	93,800
25-29	54	98,156	29,491	81,000	96,000	107,000
30-34	34	105,965	36,697	83,100	100,000	122,000
35-39	15	116,588	52,179	85,000	101,000	125,000
40 or more	15	85,853	20,322	72,000	80,000	98,890
Mountain						
Total	66	79,845	27,682	60,000	73,500	90,000
West North Central						
Total	134	80,798	21,940	67,007	78,000	91,200
15-19	27	72,512	14,031	64,000	75,000	81,000
20-24	30	80,563	15,213	72,000	80,500	88,000
25-29	21	84,219	19,275	70,622	85,000	100,000
30-34	21	92,161	27,089	75,000	84,000	102,000
West South Central						
Total	185	89,809	29,780	69,900	84,000	100,100
10-14	23	68,939	12,694	62,400	63,900	71,000
15-19	32	75,063	12,933	65,380	72,760	81,750
20-24	28	92,967	21,965	77,866	92,331	99,450
25-29	37	91,872	22,633	78,000	92,000	105,000
30-34	36	102,447	37,807	80,449	91,500	109,332
35-39	19	102,006	33,124	82,000	98,900	125,000
East North Central						
Total	479	85,166	26,008	68,000	80,236	96,044
5-9	25	63,724	7,375	60,050	67,000	70,000
10-14	85	67,512	12,275	60,000	67,000	72,500
15-19	86	76,384	15,082	66,000	74,890	85,000
20-24	83	88,343	19,563	73,000	85,000	100,000
25-29	76	87,874	16,308	78,000	87,700	98,691
30-34	66	104,768	33,685	86,500	98,950	118,800
35-39	40	104,986	37,555	82,125	97,500	121,500
40 or more	18	98,275	34,103	72,100	85,500	122,400
East South Central						
Total	53	76,264	19,712	61,500	75,200	86,000
Middle Atlantic						
Total	606	87,348	30,747	70,000	81,000	96,730
5-9	25	63,821	7,046	61,200	64,400	68,000
10-14	93	69,417	11,295	63,000	70,000	75,000
15-19	126	76,199	13,826	68,500	75,000	84,000
20-24	112	87,276	18,770	76,250	86,780	95,000
25-29	79	98,742	41,835	78,000	94,500	110,000
30-34	85	104,353	32,735	81,338	98,020	120,000
35-39	60	107,199	46,175	81,536	99,000	114,006
40 or more	26	92,430	31,717	74,200	89,000	110,000

(continued)

Note: Categories with fewer than 15 cases have been suppressed.

Table 2.4.4 (Continued)

SALARIES of PhD CHEMISTS employed FULL-TIME in INDUSTRY
by GEOGRAPHIC REGION and YEARS SINCE BS
1998 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
GEOGRAPHIC REGION						
South Atlantic						
Total	322	81,013	21,799	67,500	80,000	92,890
5-9	18	60,413	6,744	55,000	59,500	65,000
10-14	45	66,898	10,337	59,000	69,000	74,000
15-19	77	74,748	16,021	64,900	73,700	83,900
20-24	53	83,617	12,063	78,000	83,292	88,500
25-29	44	94,071	30,318	80,000	87,090	102,120
30-34	48	87,821	25,435	70,850	90,000	108,140
35-39	29	91,071	16,533	84,000	92,400	100,000
New England						
Total	238	93,614	43,762	68,000	85,077	104,000
5-9	15	72,300	14,495	64,584	70,050	76,000
10-14	43	69,194	15,568	60,000	65,000	77,100
15-19	52	81,444	24,764	64,050	75,950	95,200
20-24	41	90,977	26,625	75,000	83,850	104,000
25-29	38	112,458	59,606	88,270	99,500	111,400
30-34	22	118,569	35,550	90,000	112,680	147,500
35-39	20	127,241	58,530	91,450	110,500	146,750

Note: Categories with fewer than 15 cases have been suppressed.

Table 2.4.5

SALARIES of PhD CHEMISTS employed FULL-TIME in INDUSTRY
by TOTAL SUBORDINATES and YEARS SINCE BS
1998 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
TOTAL SUPERVISED						
None						
1-2						
Total	710	76,368	18,341	65,000	73,000	86,000
5-9	51	64,465	9,809	59,525	64,000	70,000
10-14	134	67,235	10,771	61,000	66,500	71,000
15-19	177	70,853	12,764	64,500	70,013	77,940
20-24	116	76,847	14,437	69,687	76,750	85,000
25-29	78	87,604	18,655	76,875	87,750	96,400
30-34	77	87,679	25,944	72,303	85,500	102,600
35-39	55	90,664	21,076	75,321	88,000	104,000
40 or more	22	86,279	17,963	74,200	85,000	98,300
3-9						
Total	1595	87,139	28,106	70,000	82,500	98,400
5-9	77	63,601	10,774	58,650	64,500	69,000
10-14	242	69,596	14,907	60,008	69,000	76,000
15-19	309	79,540	19,087	68,100	76,000	89,000
20-24	295	87,623	20,088	75,000	85,000	96,000
25-29	262	95,345	32,563	78,100	92,000	106,140
30-34	223	102,338	32,149	82,000	96,100	118,000
35-39	127	102,632	32,239	84,500	96,000	116,412
40 or more	60	99,727	37,865	72,268	91,980	120,350
10-14						
Total	81	117,713	37,652	95,200	105,000	131,000
20-24	18	110,657	23,874	95,000	101,160	125,000
25-29	19	107,978	24,962	95,200	105,000	120,000
30-34	17	124,188	34,918	98,220	114,950	150,000
15-29						
Total	31	171,140	75,866	120,384	155,000	190,000

Note: Categories with fewer than 15 cases have been suppressed.

Table 2.4.6

SALARIES of PhD CHEMISTS employed FULL-TIME in INDUSTRY
by EMPLOYER SIZE and YEARS SINCE BS
1998 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
EMPLOYER SIZE						
Less than 50						
Total	202	80,134	32,744	57,750	72,200	95,000
10-14	32	60,161	14,497	51,000	57,000	65,000
15-19	30	72,519	22,223	60,000	67,750	83,000
20-24	30	84,056	32,672	69,450	75,000	86,435
25-29	40	85,387	27,618	62,650	83,499	105,000
30-34	28	88,861	43,516	54,400	85,000	101,500
35-39	21	98,906	33,541	75,000	94,500	108,600
50 to 99						
Total	116	79,897	34,133	60,500	72,100	87,450
10-14	24	62,436	11,149	55,050	62,377	71,000
15-19	22	74,333	24,803	63,000	70,250	92,000
20-24	18	78,004	27,803	56,500	79,050	86,500
30-34	16	100,248	41,718	75,000	79,112	125,000
100 to 499						
Total	268	81,982	37,741	63,000	74,000	90,000
5-9	19	64,747	7,092	62,000	65,000	70,050
10-14	58	68,470	12,901	62,000	66,168	75,000
15-19	58	76,119	25,431	61,000	71,750	81,000
20-24	40	84,690	28,939	68,120	80,500	90,000
25-29	25	94,286	62,315	72,800	82,500	94,500
30-34	34	94,576	38,598	65,252	90,000	116,000
35-39	22	107,192	73,278	75,000	90,750	105,000
500 to 2,499						
Total	284	79,836	24,197	64,500	76,000	90,000
5-9	16	60,656	14,490	56,943	61,825	64,750
10-14	48	64,820	10,570	57,000	63,225	71,273
15-19	65	74,787	14,031	66,400	73,608	80,000
20-24	47	81,427	19,246	70,000	82,000	93,800
25-29	42	86,769	20,418	73,100	81,490	96,000
30-34	43	97,176	35,425	77,000	91,000	108,000
35-39	16	98,517	32,424	79,017	86,250	122,500
2,500 to 9,999						
Total	443	86,042	24,716	68,670	82,431	98,000
5-9	23	65,020	11,602	56,000	62,500	71,000
10-14	57	72,219	17,932	60,000	70,000	79,000
15-19	94	73,846	14,899	65,000	71,200	82,000
20-24	79	83,480	19,503	70,000	82,500	95,000
25-29	81	96,055	23,449	80,683	96,000	105,000
30-34	54	103,958	30,800	83,100	94,470	120,000
35-39	40	101,674	21,977	88,750	99,500	111,000
40 or more	15	100,482	28,922	76,100	90,000	129,780

(continued)

Note: Categories with fewer than 15 cases have been suppressed.

Table 2.4.6 (Continued)

SALARIES of PhD CHEMISTS employed FULL-TIME in INDUSTRY
by EMPLOYER SIZE and YEARS SINCE BS
1998 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
EMPLOYER SIZE						
10,000 to 24,999						
Total	347	86,656	26,752	69,925	81,160	95,000
5-9	16	64,058	5,778	58,825	62,425	70,000
10-14	45	68,721	8,824	63,129	68,000	71,300
15-19	66	77,336	12,430	68,000	76,000	85,000
20-24	72	85,657	14,369	73,900	85,756	94,033
25-29	49	89,413	16,523	78,036	87,500	99,000
30-34	45	100,332	27,044	81,700	93,700	112,000
35-39	38	107,019	48,039	80,000	97,067	113,280
40 or more	16	107,365	43,561	85,000	95,000	115,850
25,000 or more						
Total	759	91,748	30,250	73,000	85,700	103,856
5-9	31	65,355	4,447	63,000	65,004	68,000
10-14	117	72,718	12,571	65,000	70,920	78,300
15-19	157	80,581	16,416	71,000	77,500	88,000
20-24	150	91,296	17,478	80,000	88,000	99,500
25-29	121	104,160	41,133	84,720	97,010	110,000
30-34	109	108,362	30,172	88,000	105,000	125,000
35-39	53	109,101	31,233	89,328	100,000	131,000
40 or more	21	121,911	58,172	92,360	111,000	125,000

Note: Categories with fewer than 15 cases have been suppressed.

Table 3.1.1

SALARIES of GOVERNMENTAL CHEMISTS employed FULL-TIME
by DEGREE and YEARS SINCE BS
1998 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
HIGHEST DEGREE						
BS						
Total	127	49,443	16,282	38,600	48,000	58,316
15-19	30	46,791	12,758	36,000	43,390	55,508
20-24	18	50,339	13,305	40,000	51,075	63,100
25-29	22	54,132	15,767	41,818	51,547	65,000
MS						
Total	119	56,355	17,131	42,700	52,000	68,000
15-19	16	53,881	10,904	47,256	54,211	61,840
20-24	21	55,039	14,344	45,282	50,000	60,050
25-29	23	62,788	19,393	47,000	60,000	76,089
30-34	21	58,392	14,699	51,750	60,000	71,000
PhD						
Total	315	76,064	19,860	62,000	72,758	90,000
10-14	33	58,230	8,888	50,832	58,600	63,431
15-19	39	64,779	13,578	58,530	65,296	72,000
20-24	38	78,144	12,823	70,500	77,150	87,500
25-29	53	78,124	18,444	66,498	73,000	91,416
30-34	64	84,428	20,171	69,871	82,594	98,216
35-39	43	84,566	16,547	70,893	84,000	99,875
40 or more	31	85,179	23,665	63,400	91,870	101000

Note: Categories with fewer than 15 cases have been suppressed.

Table 4.1.1

SALARIES of PhD ACADEMIC CHEMISTS employed FULL-TIME
by CONTRACT STATUS and RANK
1998 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
CONTRACT						
9-10 month						
Full professor	469	71,486	22,285	56,000	66,204	80,000
Assoc professor	231	49,060	9,941	41,715	47,200	55,000
Asst professor	208	41,728	7,636	36,000	41,000	46,143
Instructor, adjunct	26	39,786	8,257	33,742	37,700	43,000
No ranks	19	46,335	9,025	40,125	47,591	50,000
11-12 month						
Full professor	200	100,087	33,181	78,000	94,000	116,562
Assoc professor	54	64,428	18,394	52,000	65,000	74,500
Asst professor	46	54,264	16,258	43,000	52,900	60,000
Instructor, adjunct	24	53,889	23,119	34,125	46,330	70,396
Research appt	99	47,660	19,446	30,792	45,900	60,000
Other nonfaculty	51	60,323	28,413	38,415	54,000	76,000

Note: Categories with fewer than 15 cases have been suppressed.

Table 4.2.1

SALARIES of PhD ACADEMIC CHEMISTS employed FULL-TIME
by RANK and YEARS SINCE PhD - 9 or 10 Month Contract
1998 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
RANK						
Full professor						
Total	465	71,521	22,289	56,000	66,228	80,000
10-14	16	57,894	15,478	47,500	57,072	64,200
15-19	58	65,577	20,692	52,040	60,350	72,000
20-24	82	65,875	19,308	53,315	60,728	74,200
25-29	114	73,067	24,883	56,000	66,600	85,480
30-34	112	74,542	22,196	59,150	69,708	84,250
35-39	59	76,396	19,698	63,000	72,000	85,600
40+	21	85,811	20,206	74,900	80,000	100,000
Assoc professor						
Total	231	49,060	9,941	41,715	47,200	55,000
5-9	30	45,690	8,990	38,680	43,580	51,000
10-14	77	50,140	10,562	42,047	48,000	55,000
15-19	48	47,073	7,809	41,357	44,600	52,698
20-24	26	47,329	8,744	40,871	48,083	53,000
25-29	21	51,627	12,717	44,000	46,995	55,842
30-34	20	53,883	9,870	46,215	54,938	61,000
Asst professor						
Total	205	41,599	7,515	36,000	41,000	46,000
2-4	65	39,771	7,890	34,000	39,000	43,220
5-9	97	42,561	6,041	38,133	42,000	46,700
10-14	24	45,919	9,721	40,209	45,250	50,390
Instructor, adjunct						
Total	26	39,786	8,257	33,742	37,700	43,000
Other nonfaculty						
Total	18	45,575	8,639	40,125	47,545	49,500

Note: Categories with fewer than 15 cases have been suppressed.

Table 4.2.2

SALARIES of PhD ACADEMIC CHEMISTS employed FULL-TIME
by RANK and YEARS SINCE PhD - 11 or 12 Month Contract
1998 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
RANK						
Full professor						
Total	197	100,001	33,194	78,000	94,000	116,125
15-19	15	87,143	22,247	72,000	78,000	95,000
20-24	19	95,095	26,989	73,289	94,000	119,000
25-29	52	92,841	30,916	73,605	85,820	107,494
30-34	66	106,638	34,596	79,308	100,674	130,000
35-39	32	100,167	27,824	83,094	96,950	111,850
Assoc professor						
Total	54	64,428	18,394	52,000	65,000	74,500
10-14	15	60,599	14,859	53,441	63,000	68,000
15-19	15	74,216	19,364	65,000	68,000	85,000
Asst professor						
Total	45	54,559	16,317	44,000	53,300	60,000
2-4	7	49,711	7,616	41,859	52,500	56,784
Instructor, adjunct						
Total	24	53,889	23,119	34,125	46,330	70,396
Research appt						
Total	96	47,826	19,569	30,796	45,950	60,019
2-4	23	40,920	18,805	25,600	30,000	62,000
5-9	22	45,194	15,696	33,000	46,500	57,500
10-14	17	44,726	14,893	33,000	43,448	50,000
Other nonfaculty						
Total	50	59,850	28,498	38,415	53,500	75,000

Note: Categories with fewer than 15 cases have been suppressed.

Table 4.3.1

SALARIES of PhD ACADEMIC CHEMISTS employed FULL-TIME
by RANK and ACADEMIC WORK FUNCTION - 9 or 10 Month Contract
1998 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
WORK FUNCTION						
Teaching						
Full professor	319	65,350	17,934	53,716	62,437	74,000
Assoc professor	186	47,485	9,106	40,970	45,940	54,000
Asst professor	158	39,714	6,317	35,000	39,650	43,571
Instructor, adjunct	24	39,568	7,652	34,371	37,700	42,900
No ranks	19	46,335	9,025	40,125	47,591	50,000
Research						
Full professor	101	86,624	25,962	63,400	88,500	106,300
Assoc professor	30	55,474	11,137	48,000	52,659	60,000
Asst professor	43	47,987	7,969	41,700	46,000	54,000
Administration						
Full professor	15	69,574	17,506	64,000	67,000	83,500

Table 4.3.2

SALARIES of PhD ACADEMIC CHEMISTS employed FULL-TIME
by RANK and ACADEMIC WORK FUNCTION - 11 or 12 Month Contract
1998 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
WORK FUNCTION						
Teaching						
Full professor	55	82,396	25,040	65,000	80,000	98,000
Assoc professor	17	51,159	12,702	43,526	50,100	61,000
Asst professor	19	47,109	12,777	40,000	46,700	55,000
Research						
Full professor	72	105,659	34,502	80,260	98,950	119,565
Assoc professor	26	71,382	18,086	62,952	68,917	83,200
Asst professor	21	59,574	16,382	50,000	58,330	60,663
Research appt	88	46,460	19,774	30,000	44,945	57,750
Other nonfaculty	16	45,483	25,255	27,250	35,875	58,844
Administration						
Full professor	52	111,902	32,064	88,100	103,179	129,150
Other nonfaculty	16	80,966	30,907	60,250	78,500	107,500

Note: Categories with fewer than 15 cases have been suppressed.

Table 4.4.1

SALARIES of PhD ACADEMIC CHEMISTS employed FULL-TIME
by RANK and SPECIALTY - 9 or 10 Month Contract
1998 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
SPECIALTY						
Analytical chemistry						
Full professor	42	66,736	19,839	54,700	62,118	75,000
Assoc professor	32	48,551	7,246	42,018	48,000	54,060
Asst professor	18	42,198	7,449	36,700	39,817	46,000
Biochemistry						
Full professor	43	75,803	22,348	58,636	66,450	91,832
Assoc professor	29	49,486	12,385	42,000	48,000	53,000
Asst professor	28	41,416	7,315	36,131	40,152	47,000
Environmental chemistry						
Full professor	26	76,951	22,471	60,000	66,900	93,600
Asst professor	16	49,959	7,070	45,457	47,700	56,000
General chemistry						
Full professor	40	60,048	13,530	50,700	57,332	68,787
Assoc professor	19	47,170	9,888	39,000	43,500	56,952
Asst professor	19	36,134	5,188	32,900	34,700	38,000
No ranks	15	43,360	6,854	37,610	46,844	48,830
Inorganic chemistry						
Full professor	51	74,357	23,432	56,600	69,708	90,000
Assoc professor	35	47,345	8,848	40,724	44,889	55,000
Asst professor	18	40,886	5,880	38,133	40,682	42,636
Medicinal-Pharmaceutical						
Full professor	123	68,783	20,736	53,900	65,000	79,500
Assoc professor	52	47,125	9,169	42,046	46,105	51,500
Asst professor	56	39,839	6,378	35,230	40,050	44,000
Physical chemistry						
Full professor	89	72,361	23,399	58,000	69,030	78,000
Assoc professor	26	48,556	8,100	42,000	47,096	53,500
Asst professor	28	41,367	7,214	35,750	41,300	44,230
Polymer chemistry						
Full professor	19	84,688	28,872	60,000	80,000	103,000

Note: Categories with fewer than 15 cases have been suppressed.

Table 4.4.2

SALARIES of PhD ACADEMIC CHEMISTS employed FULL-TIME
by RANK and SPECIALTY - 11 or 12 Month Contract
1998 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
SPECIALTY						
Biochemistry						
Full professor	49	104,004	27,125	85,000	102,400	114,000
Assoc professor	20	71,362	12,493	65,000	68,917	81,350
Research appt	24	41,092	12,036	30,796	40,758	51,100
Medicinal-Pharmaceutical						
Full professor	18	104,378	46,932	77,836	85,600	121,500
Organic chemistry						
Full professor	20	87,843	24,924	71,396	81,593	98,000
Physical chemistry						
Full professor	15	106,166	46,336	72,100	98,999	151,000

Note: Categories with fewer than 15 cases have been suppressed.

Table 4.5.1

SALARIES of PhD ACADEMIC CHEMISTS employed FULL-TIME
by RANK and TENURE - 9 or 10 Month Contract
1998 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
TENURE						
Yes						
Full professor	459	72,029	22,184	56,407	66,800	81,000
Assoc professor	202	49,928	9,509	42,320	48,000	55,842
Asst professor	15	40,808	8,279	34,900	38,499	45,000
No, in tenure track						
Assoc professor	22	44,403	11,903	38,373	41,000	46,935
Asst professor	172	42,550	7,492	36,730	42,000	47,000
Asst professor	15	34,789	4,847	31,000	34,000	38,000
Instructor, adjunct	22	39,301	8,287	33,742	37,229	43,000

Table 4.5.2

SALARIES of PhD ACADEMIC CHEMISTS employed FULL-TIME
by RANK and TENURE - 11 or 12 Month Contract
1998 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
TENURE						
Yes						
Full professor	182	100,604	32,168	78,641	95,000	117,000
Assoc professor	33	68,173	19,454	52,000	67,000	80,000
No, in tenure track						
Asst professor	25	54,354	13,500	44,030	53,300	58,330
No, no tenure track						
Asst professor	15	47,740	13,326	40,000	48,000	59,000
Instructor, adjunct	20	52,961	24,375	34,000	43,079	70,396
Research appt	48	48,490	17,363	33,000	48,500	57,750
Other nonfaculty	15	56,643	26,543	38,000	50,000	72,000
Not applicable						
Research appt	47	44,034	18,306	27,500	40,250	60,039
Other nonfaculty	30	56,721	25,643	38,415	51,540	64,688

Note: Categories with fewer than 15 cases have been suppressed.

Table 4.6.1

SALARIES of PhD ACADEMIC CHEMISTS employed FULL-TIME
by RANK and INSTITUTIONAL CONTROL - 9 or 10 Month Contract
1998 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
INSTITUTIONAL CONTROL						
Public						
Full professor	294	72,395	22,049	58,000	66,830	79,500
Assoc professor	150	50,484	9,985	42,320	48,296	57,589
Asst professor	132	42,083	6,905	36,642	41,650	46,185
Instructor, adjunct	16	41,536	9,475	34,871	38,129	49,749
No ranks	19	46,335	9,025	40,125	47,591	50,000
Private						
Full professor	174	69,780	22,599	53,315	65,000	83,000
Assoc professor	81	46,424	9,359	40,000	45,000	52,000
Asst professor	76	41,111	8,779	34,470	40,050	45,643

Table 4.6.2

SALARIES of PhD ACADEMIC CHEMISTS employed FULL-TIME
by RANK and INSTITUTIONAL CONTROL - 11 or 12 Month Contract
1998 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
INSTITUTIONAL CONTROL						
Public						
Full professor	149	101,792	30,323	79,308	96,600	117,000
Assoc professor	40	63,575	14,099	53,720	65,000	72,300
Asst professor	27	54,812	18,164	44,000	53,300	60,000
Instructor, adjunct	15	57,474	26,848	33,250	52,871	84,857
Research appt	68	47,529	20,881	30,796	45,438	59,000
Other nonfaculty	40	60,622	28,021	39,207	55,450	75,500
Private						
Full professor	49	94,143	40,188	65,000	87,000	116,000
Asst professor	18	53,125	13,832	43,000	50,400	58,330
Research appt	29	48,167	16,061	36,000	48,000	60,000

Note: Categories with fewer than 15 cases have been suppressed.

Table 4.7.1

SALARIES of PhD ACADEMIC CHEMISTS employed FULL-TIME
by RANK and TYPE OF INSTITUTION - 9 or 10 Month Contract
1998 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
TYPE OF INSTITUTION						
NonPhD-granting						
Full professor	240	60,364	12,814	51,877	58,818	69,639
Assoc professor	132	45,376	8,283	40,000	43,650	48,850
Asst professor	120	38,271	5,490	34,000	37,522	42,000
Instructor, adjunct	15	39,266	8,341	33,500	38,000	42,452
No ranks	19	46,335	9,025	40,125	47,591	50,000
PhD-granting						
Full professor	217	82,976	24,545	65,000	77,000	97,000
Assoc professor	96	54,077	10,011	47,000	53,747	62,125
Asst professor	85	46,606	7,485	41,700	45,500	50,100

Table 4.7.2

SALARIES of PhD ACADEMIC CHEMISTS employed FULL-TIME
by RANK and TYPE OF INSTITUTION - 11 or 12 Month Contract
1998 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
TYPE OF INSTITUTION						
NonPhD-granting						
Full professor	43	78,547	22,815	61,500	78,000	95,000
PhD-granting						
Full professor	105	104,664	31,798	79,930	99,000	121,500
Assoc professor	15	67,063	20,433	59,000	67,000	73,000
Research appt	77	48,721	21,221	30,000	48,000	62,000
Other nonfaculty	41	58,144	24,713	40,000	53,000	75,000
Medical school						
Full professor	52	108,658	36,004	83,459	99,616	125,000
Assoc professor	26	71,676	13,705	61,000	70,717	83,200
Asst professor	19	62,972	18,145	53,747	58,837	77,000
Research appt	21	43,371	10,695	36,000	43,448	49,000

Note: Categories with fewer than 15 cases have been suppressed.

Table 4.8.1

SALARIES of PhD ACADEMIC CHEMISTS employed FULL-TIME
by RANK, INST CONTROL and TYPE OF INSTITUTION - 9 or 10 Month Contract
1998 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
CONTROL & TYPE INSTITUTION						
Public						
NonPhD-granting						
Full professor	130	60,818	11,050	54,200	60,000	68,000
Assoc professor	69	46,135	8,102	41,000	44,009	49,500
Asst professor	66	38,819	5,269	35,200	38,156	42,000
No ranks	19	46,335	9,025	40,125	47,591	50,000
PhD-granting						
Full professor	154	81,131	24,672	63,221	75,000	93,400
Assoc professor	79	54,296	10,086	46,431	53,395	62,250
Asst professor	63	45,516	6,567	41,198	45,000	48,800
Private						
NonPhD-granting						
Full professor	109	59,450	14,183	49,500	56,600	70,000
Assoc professor	63	44,545	8,462	39,200	43,000	48,122
Asst professor	54	37,600	5,726	33,900	36,600	42,000
PhD-granting						
Full professor	63	87,487	23,824	67,000	88,632	102,990
Assoc professor	17	53,059	9,890	48,000	54,000	56,000
Asst professor	22	49,728	9,111	42,000	49,950	58,000

Table 4.8.2

SALARIES of PhD ACADEMIC CHEMISTS employed FULL-TIME
by RANK, INST CONTROL, and TYPE OF INSTITUTION - 11 or 12 Month Contract
1998 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
CONTROL & TYPE INSTITUTION						
Public						
NonPhD-granting						
Full professor	24	83,907	19,049	67,896	79,958	98,000
PhD-granting						
Full professor	88	105,200	30,738	79,965	99,000	122,750
Research appt	54	48,912	22,575	30,000	45,950	60,510
Other nonfaculty	33	58,706	26,262	38,415	54,900	75,000
Medical school						
Full professor	37	105,287	31,793	83,418	98,500	118,000
Assoc professor	19	69,767	12,684	61,000	68,000	80,000
Private						
NonPhD-granting						
Full professor	19	71,777	25,773	53,000	65,000	90,564
PhD-granting						
Full professor	17	101,890	37,750	79,000	98,000	116,000
Research appt	21	48,608	18,147	30,000	50,000	62,000

Note: Categories with fewer than 15 cases have been suppressed.

Table 4.9.1

SALARIES of PhD ACADEMIC CHEMISTS employed FULL-TIME
by RANK and SEX - 9 or 10 Month Contract
1998 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
SEX						
Men						
Full professor	426	71,766	22,032	56,247	66,314	82,000
Assoc professor	176	49,166	9,515	42,000	47,000	55,141
Asst professor	134	42,074	7,411	36,700	41,580	46,000
Instructor, adjunct	16	40,473	9,249	34,250	37,700	44,500
Women						
Full professor	39	64,589	19,724	50,400	60,501	75,000
Assoc professor	54	48,847	11,354	40,724	48,413	55,000
Asst professor	73	41,212	8,040	35,000	40,000	46,285

Table 4.9.2

SALARIES of PhD ACADEMIC CHEMISTS employed FULL-TIME
by RANK and SEX - 11 or 12 Month Contract
1998 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
SEX						
Men						
Full professor	184	100,795	33,319	78,365	95,800	117,500
Assoc professor	44	64,399	18,849	52,721	65,350	74,750
Asst professor	29	56,740	18,782	44,800	53,747	60,000
Instructor, adjunct	15	60,971	24,311	39,600	63,270	84,857
Research appt	76	49,853	19,547	34,000	48,500	60,274
Other nonfaculty	36	61,056	29,234	39,207	53,500	75,500
Women						
Asst professor	17	50,042	9,801	41,539	48,000	58,330
Research appt	22	39,749	17,734	25,600	31,646	50,000
Other nonfaculty	15	58,564	27,241	38,000	54,900	77,361

Note: Categories with fewer than 15 cases have been suppressed.

Table 4.10.1

SALARIES of PhD ACADEMIC CHEMISTS employed FULL-TIME
by RANK and GEOGRAPHIC REGION - 9 or 10 Month Contract
1998 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
GEOGRAPHIC REGION						
Pacific						
Full professor	61	75,373	23,193	62,000	67,000	82,000
Assoc professor	19	52,378	13,667	46,000	51,000	55,488
Mountain						
Full professor	31	73,481	20,533	60,200	67,500	80,000
West North Central						
Full professor	45	66,321	18,898	53,600	61,000	78,453
Assoc professor	27	43,920	8,769	38,900	42,000	46,000
Asst professor	26	37,727	7,194	33,500	36,796	41,000
West South Central						
Full professor	35	67,522	30,453	47,300	59,500	72,590
Assoc professor	23	49,822	10,096	42,299	48,800	54,500
Asst professor	16	40,528	6,156	36,250	40,140	43,290
East North Central						
Full professor	86	69,525	22,968	53,375	65,000	76,000
Assoc professor	34	49,660	9,080	42,497	47,497	54,200
Asst professor	43	41,248	7,444	36,250	39,700	46,600
East South Central						
Full professor	21	60,198	13,619	49,125	59,500	75,000
Assoc professor	19	42,575	5,946	39,000	42,700	46,656
Asst professor	15	39,932	7,280	35,000	39,800	43,571
Middle Atlantic						
Full professor	77	78,386	22,159	60,823	75,736	92,400
Assoc professor	38	52,575	9,205	44,916	51,782	60,000
Asst professor	34	45,070	7,971	41,000	43,850	49,900
South Atlantic						
Full professor	75	67,158	19,248	54,000	61,000	74,900
Assoc professor	44	49,457	9,566	42,205	47,000	54,702
Asst professor	34	39,640	7,012	33,000	39,500	43,220
New England						
Full professor	38	78,619	19,566	65,000	75,991	90,000

Note: Categories with fewer than 15 cases have been suppressed.

Table 4.10.2

SALARIES of PhD ACADEMIC CHEMISTS employed FULL-TIME
by RANK and GEOGRAPHIC REGION - 11 or 12 Month Contract
1998 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
GEOGRAPHIC REGION						
Pacific						
Full professor	31	109,740	40,575	79,930	98,900	124,000
West South Central						
Full professor	22	92,920	27,173	70,788	86,625	109,988
East North Central						
Full professor	26	102,886	30,950	78,000	107,750	121,500
Research appt	18	44,876	17,141	30,600	44,077	56,000
Middle Atlantic						
Full professor	32	89,738	28,585	71,250	82,179	103,000
Research appt	16	51,427	14,838	39,500	52,500	63,262
South Atlantic						
Full professor	44	107,508	32,388	82,750	102,200	122,000

Note: Categories with fewer than 15 cases have been suppressed.

Table 5.1.1

STIPENDS of ACADEMIC POSTDOCTORAL FELLOWS
by INSTITUTIONAL CONTROL and WORK SPECIALTY
1998 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
WORK SPECIALTY						
Chemistry						
Total	148	28,503	25,284	24,000	26,000	28,568
Public	82	26,616	4,193	24,000	26,000	28,536
Private	66	30,848	37,600	24,000	25,800	28,800

Note: Categories with fewer than 15 cases have been suppressed.

Table 6.1.1

SALARIES of CHEMICAL ENGINEERS employed FULL-TIME in INDUSTRY
by DEGREE and YEARS SINCE BS
1998 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
HIGHEST DEGREE						
BS						
Total	90	67,557	40,674	47,000	60,000	75,000
5-9	17	51,399	10,387	45,000	50,200	52,770
15-19	16	74,037	18,298	60,500	72,500	83,250
MS						
Total	91	75,386	23,444	60,000	74,500	86,000
10-14	19	61,933	13,336	51,316	60,000	64,000
20-24	18	76,049	20,908	62,000	76,950	86,000
PhD						
Total	108	84,514	23,936	68,000	79,800	99,966
10-14	23	69,864	14,390	61,000	71,900	75,000
15-19	18	74,004	8,784	70,000	75,900	79,200
20-24	15	92,628	19,546	75,000	93,696	107,160
35-39	21	93,633	32,969	80,000	90,000	101,200

Note: Categories with fewer than 15 cases have been suppressed.

Table 7.1.1

EMPLOYMENT STATUS OF ALL RESPONDENTS
by WORK SPECIALTY
1998 Survey of ACS Members

WORK SPECIALTY	EMPLOYMENT STATUS						Total
	Full-Time	Part-Time	Postdoc	Seeking empl	Not seeking empl	Fully retired	
Chemical engineering	428	8	3	15	5	8	467
Row Percent	91.6%	1.7%	.6%	3.2%	1.1%	1.7%	100.0%
Column Percent	5.0%	3.5%	1.5%	6.4%	5.6%	3.4%	4.9%
Ag/Food chemistry	244	8	1	8	4	5	270
Row Percent	90.4%	3.0%	.4%	3.0%	1.5%	1.9%	100.0%
Column Percent	2.8%	3.5%	.5%	3.4%	4.4%	2.1%	2.8%
Analytical chemistry	1486	28	12	32	16	29	1603
Row Percent	92.7%	1.7%	.7%	2.0%	1.0%	1.8%	100.0%
Column Percent	17.3%	12.2%	6.1%	13.7%	17.8%	12.4%	16.8%
Biochemistry	395	16	41	6	4	16	478
Row Percent	82.6%	3.3%	8.6%	1.3%	.8%	3.3%	100.0%
Column Percent	4.6%	7.0%	20.7%	2.6%	4.4%	6.9%	5.0%
Biotechnology	246	8	7	6	1	1	269
Row Percent	91.4%	3.0%	2.6%	2.2%	.4%	.4%	100.0%
Column Percent	2.9%	3.5%	3.5%	2.6%	1.1%	.4%	2.8%
Clinical chemistry	85	1	0	1	1	0	88
Row Percent	96.6%	1.1%	.0%	1.1%	1.1%	.0%	100.0%
Column Percent	1.0%	.4%	.0%	.4%	1.1%	.0%	.9%
Environmental chemistry	603	24	6	26	10	12	681
Row Percent	88.5%	3.5%	.9%	3.8%	1.5%	1.8%	100.0%
Column Percent	7.0%	10.4%	3.0%	11.2%	11.1%	5.2%	7.1%
General chemistry	426	37	0	7	7	22	499
Row Percent	85.4%	7.4%	.0%	1.4%	1.4%	4.4%	100.0%
Column Percent	5.0%	16.1%	.0%	3.0%	7.8%	9.4%	5.2%
Inorganic chemistry	300	3	16	6	3	9	337
Row Percent	89.0%	.9%	4.7%	1.8%	.9%	2.7%	100.0%
Column Percent	3.5%	1.3%	8.1%	2.6%	3.3%	3.9%	3.5%
Materials science	347	8	11	15	0	11	392
Row Percent	88.5%	2.0%	2.8%	3.8%	.0%	2.8%	100.0%
Column Percent	4.0%	3.5%	5.6%	6.4%	.0%	4.7%	4.1%

(continued)

Table 8.5.2

EMPLOYMENT STATUS OF INDUSTRIAL CHEMISTS
by TYPE OF INDUSTRY
1998 Survey of ACS Members

	EMPLOYMENT STATUS						Total
	Full-time	Part-time	Postdoc	Seeking empl	Not seeking empl	No answer	
NONACADEMIC EMPLOYER							
Analytical serv lab	171	6	0	11	0	0	188
Row Percent	91.0%	3.2%	.0%	5.9%	.0%	.0%	100.0%
Column Percent	3.4%	9.2%	.0%	8.1%	.0%	.0%	3.5%
Contract res firm	149	10	1	7	0	0	167
Row Percent	89.2%	6.0%	.6%	4.2%	.0%	.0%	100.0%
Column Percent	2.9%	15.4%	14.3%	5.1%	.0%	.0%	3.1%
Utility	43	3	0	1	0	0	47
Row Percent	91.5%	6.4%	.0%	2.1%	.0%	.0%	100.0%
Column Percent	.8%	4.6%	.0%	.7%	.0%	.0%	.9%
Other nonmanuf	211	6	0	13	1	0	231
Row Percent	91.3%	2.6%	.0%	5.6%	.4%	.0%	100.0%
Column Percent	4.1%	9.2%	.0%	9.6%	100.0%	.0%	4.3%
Aerospace	64	1	0	2	0	0	67
Row Percent	95.5%	1.5%	.0%	3.0%	.0%	.0%	100.0%
Column Percent	1.3%	1.5%	.0%	1.5%	.0%	.0%	1.3%
Ag chemicals	156	1	1	4	0	0	162
Row Percent	96.3%	1.6%	.6%	2.5%	.0%	.0%	100.0%
Column Percent	3.1%	1.5%	14.3%	2.9%	.0%	.0%	3.0%
Basic chemicals	221	4	0	2	0	0	227
Row Percent	97.4%	1.8%	.0%	.9%	.0%	.0%	100.0%
Column Percent	4.3%	6.2%	.0%	1.5%	.0%	.0%	4.3%
Biochemical prods	85	1	1	1	0	0	88
Row Percent	96.6%	1.1%	.1%	1.1%	.0%	.0%	100.0%
Column Percent	1.7%	1.5%	14.3%	.7%	.0%	.0%	1.7%
Coatings, paints	248	2	0	7	0	0	257
Row Percent	96.5%	.8%	.0%	2.7%	.0%	.0%	100.0%
Column Percent	4.9%	3.1%	.0%	5.1%	.0%	.0%	4.8%
Electronics	123	1	0	1	0	0	125
Row Percent	98.4%	.8%	.0%	.8%	.0%	.0%	100.0%
Column Percent	2.4%	1.5%	.0%	.7%	.0%	.0%	2.4%
Food	130	3	1	6	0	0	140
Row Percent	92.9%	2.1%	.7%	4.3%	.0%	.0%	100.0%
Column Percent	2.5%	4.6%	14.3%	4.4%	.0%	.0%	2.6%
Instruments	124	5	0	1	0	1	131
Row Percent	94.7%	3.8%	.0%	.8%	.0%	.8%	100.0%
Column Percent	2.4%	7.7%	.0%	.7%	.0%	50.0%	2.5%
Medical devices	201	1	0	7	0	0	209
Row Percent	96.2%	.5%	.0%	3.3%	.0%	.0%	100.0%
Column Percent	3.9%	1.5%	.0%	5.1%	.0%	.0%	3.9%
Metals	71	0	0	4	0	0	75
Row Percent	94.7%	.0%	.0%	5.3%	.0%	.0%	100.0%
Column Percent	1.4%	.0%	.0%	2.9%	.0%	.0%	1.4%
Paper	43	0	0	1	0	0	44
Row Percent	97.7%	.0%	.0%	2.3%	.0%	.0%	100.0%
Column Percent	.8%	.0%	.0%	.7%	.0%	.0%	.8%

(continued)

Table 8.6.1

EMPLOYMENT STATUS OF NON-ACADEMIC CHEMISTS
by WORK FUNCTION
1998 Survey of ACS Members

WORK FUNCTION	EMPLOYMENT STATUS						Total
	Full-time	Part-time	Postdoc	Seeking empl	Not seeking empl	No answer	
Analytical services	912	13	0	36	0	0	961
Row Percent	94.9%	1.4%	.0%	3.7%	.0%	.0%	100.0%
Column Percent	15.1%	10.6%	.0%	22.0%	.0%	.0%	15.1%
Chemical info	74	5	0	1	0	0	80
Row Percent	92.5%	6.3%	.0%	1.3%	.0%	.0%	100.0%
Column Percent	1.2%	4.1%	.0%	.6%	.0%	.0%	1.3%
Computers	67	2	1	2	0	0	72
Row Percent	93.1%	2.8%	1.4%	2.8%	.0%	.0%	100.0%
Column Percent	1.1%	1.6%	4.0%	1.2%	.0%	.0%	1.1%
Consulting	142	30	0	12	0	0	184
Row Percent	77.2%	16.3%	.0%	6.5%	.0%	.0%	100.0%
Column Percent	2.4%	24.4%	.0%	7.3%	.0%	.0%	2.9%
Forensics	64	0	0	0	0	0	64
Row Percent	100.0%	.0%	.0%	.0%	.0%	.0%	100.0%
Column Percent	1.1%	.0%	.0%	.0%	.0%	.0%	1.0%
General mgmt	309	5	0	6	0	0	320
Row Percent	96.6%	1.6%	.0%	1.9%	.0%	.0%	100.0%
Column Percent	5.1%	4.1%	.0%	3.7%	.0%	.0%	5.0%
Health & Safety	228	7	0	6	0	0	241
Row Percent	94.6%	2.9%	.0%	2.5%	.0%	.0%	100.0%
Column Percent	3.8%	5.7%	.0%	3.7%	.0%	.0%	3.8%
Marketing, sales	267	8	0	10	0	0	285
Row Percent	93.7%	2.8%	.0%	3.5%	.0%	.0%	100.0%
Column Percent	4.4%	6.5%	.0%	6.1%	.0%	.0%	4.5%
Patents	39	4	0	2	0	0	45
Row Percent	86.7%	8.9%	.0%	4.4%	.0%	.0%	100.0%
Column Percent	.6%	3.3%	.0%	1.2%	.0%	.0%	.7%
Production, QC	558	8	0	14	0	0	580
Row Percent	96.2%	1.4%	.0%	2.4%	.0%	.0%	100.0%
Column Percent	9.2%	6.5%	.0%	8.5%	.0%	.0%	9.1%
Applied Research	1986	19	13	39	1	0	2058
Row Percent	96.5%	.9%	.6%	1.9%	.0%	.0%	100.0%
Column Percent	32.9%	15.4%	52.0%	23.8%	100.0%	.0%	32.4%

(continued)

Table 8.7.1

EMPLOYMENT STATUS OF ALL CHEMISTS
by SPECIALTY
1998 Survey of ACS Members

	EMPLOYMENT STATUS						Total
	Full-time	Part-time	Postdoc	Seeking empl	Not seeking empl	No answer	
WORK SPECIALTY							
Ag/Food chemistry	244	8	1	8	4	5	270
Row Percent	90.4%	3.0%	.4%	3.0%	1.5%	1.9%	100.0%
Column Percent	3.1%	3.7%	.5%	4.0%	5.1%	2.4%	3.1%
Analytical chemistry	1486	28	12	32	16	29	1603
Row Percent	92.7%	1.7%	.7%	2.0%	1.0%	1.8%	100.0%
Column Percent	18.9%	13.1%	6.3%	16.2%	20.5%	13.9%	18.3%
Biochemistry	395	16	41	6	4	16	478
Row Percent	82.6%	3.3%	8.6%	1.3%	.8%	3.3%	100.0%
Column Percent	5.0%	7.5%	21.4%	3.0%	5.1%	7.7%	5.5%
Biotechnology	246	8	7	6	1	1	269
Row Percent	91.4%	3.0%	2.6%	2.2%	.4%	.4%	100.0%
Column Percent	3.1%	3.7%	3.6%	3.0%	1.3%	.5%	3.1%
Clinical chemistry	85	1	0	1	1	0	88
Row Percent	96.6%	1.1%	.0%	1.1%	1.1%	.0%	100.0%
Column Percent	1.1%	.5%	.0%	.5%	1.3%	.0%	1.0%
Environmental chemistry	603	24	6	26	10	12	681
Row Percent	88.5%	3.5%	.9%	3.8%	1.5%	1.8%	100.0%
Column Percent	7.7%	11.2%	3.1%	13.1%	12.8%	5.7%	7.8%
General chemistry	426	37	0	7	7	22	499
Row Percent	85.4%	7.4%	.0%	1.4%	1.4%	4.4%	100.0%
Column Percent	5.4%	17.3%	.0%	3.5%	9.0%	10.5%	5.7%
Inorganic chemistry	300	3	16	6	3	9	337
Row Percent	89.0%	.9%	4.7%	1.8%	.9%	2.7%	100.0%
Column Percent	3.8%	1.4%	8.3%	3.0%	3.8%	4.3%	3.9%
Materials science	347	8	11	15	0	11	392
Row Percent	88.5%	2.0%	2.8%	3.8%	.0%	2.8%	100.0%
Column Percent	4.4%	3.7%	5.7%	7.6%	.0%	5.3%	4.5%
Medicinal-Pharmaceutical	696	8	16	10	3	13	746
Row Percent	93.3%	1.1%	2.1%	1.3%	.4%	1.7%	100.0%
Column Percent	8.9%	3.7%	8.3%	5.1%	3.8%	6.2%	8.5%

(continued)

Table 10.3.1

ALL RESPONDENTS
by WORK SPECIALTY and HIGHEST DEGREE
1998 Survey of ACS Members

WORK SPECIALTY	HIGHEST DEGREE					Total
	Less than BS	BA/BS	MS	PhD	No Answer	
Chemical engineering	110	115	239	3	0	467
Row Percent	23.6%	24.6%	51.2%	.6%	.0%	100.0%
Column Percent	5.1%	6.4%	4.3%	3.7%	.0%	4.9%
Ag/Food chemistry	67	39	160	4	0	270
Row Percent	24.8%	14.4%	59.3%	1.5%	.0%	100.0%
Column Percent	3.1%	2.2%	2.9%	4.9%	.0%	2.8%
Analytical chemistry	573	351	669	10	0	1603
Row Percent	35.7%	21.9%	41.7%	.6%	.0%	100.0%
Column Percent	26.6%	19.7%	12.1%	12.3%	.0%	16.8%
Biochemistry	37	36	404	1	0	478
Row Percent	7.7%	7.5%	84.5%	.2%	.0%	100.0%
Column Percent	1.7%	2.0%	7.3%	1.2%	.0%	5.0%
Biotechnology	30	45	192	2	0	269
Row Percent	11.2%	16.7%	71.4%	.7%	.0%	100.0%
Column Percent	1.4%	2.5%	3.5%	2.5%	.0%	2.8%
Clinical chemistry	18	13	57	0	0	88
Row Percent	20.5%	14.8%	64.8%	.0%	.0%	100.0%
Column Percent	.8%	.7%	1.0%	.0%	.0%	.9%
Environmental chemistry	216	179	281	5	0	681
Row Percent	31.7%	26.3%	41.3%	.7%	.0%	100.0%
Column Percent	10.0%	10.0%	5.1%	6.2%	.0%	7.1%
General chemistry	134	134	223	8	0	499
Row Percent	26.9%	26.9%	44.7%	1.6%	.0%	100.0%
Column Percent	6.2%	7.5%	4.0%	9.9%	.0%	5.2%
Inorganic chemistry	42	29	265	1	0	337
Row Percent	12.5%	8.6%	78.6%	.3%	.0%	100.0%
Column Percent	1.9%	1.6%	4.8%	1.2%	.0%	3.5%
Materials science	68	48	274	2	0	392
Row Percent	17.3%	12.2%	69.9%	.5%	.0%	100.0%
Column Percent	3.2%	2.7%	4.9%	2.5%	.0%	4.1%
Medicinal-Pharmaceutical	132	137	469	8	0	746
Row Percent	17.7%	18.4%	62.9%	1.1%	.0%	100.0%
Column Percent	6.1%	7.7%	8.5%	9.9%	.0%	7.8%

(continued)

Table 10.3.1(Continued)

ALL RESPONDENTS
by WORK SPECIALTY and HIGHEST DEGREE
1998 Survey of ACS Members

	HIGHEST DEGREE					Total
	Less than BS	BA/BS	MS	PhD	No Answer	
WORK SPECIALTY						
Organic chemistry	173	150	779	8	0	1110
Row Percent	15.6%	13.5%	70.2%	.7%	.0%	100.0%
Column Percent	8.0%	8.4%	14.1%	9.9%	.0%	11.6%
Physical chemistry	23	21	414	4	0	462
Row Percent	5.0%	4.5%	89.6%	.9%	.0%	100.0%
Column Percent	1.1%	1.2%	7.5%	4.9%	.0%	4.8%
Polymer chemistry	209	134	469	7	0	819
Row Percent	25.5%	16.4%	57.3%	.9%	.0%	100.0%
Column Percent	9.7%	7.5%	8.5%	8.6%	.0%	8.6%
Other chemical science	67	59	145	2	0	273
Row Percent	24.5%	21.6%	53.1%	.7%	.0%	100.0%
Column Percent	3.1%	3.3%	2.6%	2.5%	.0%	2.9%
Business						
Administration	56	86	90	1	0	233
Row Percent	24.0%	36.9%	38.6%	.4%	.0%	100.0%
Column Percent	2.6%	4.8%	1.6%	1.2%	.0%	2.4%
Computer science	25	23	62	0	0	110
Row Percent	22.7%	20.9%	56.4%	.0%	.0%	100.0%
Column Percent	1.2%	1.3%	1.1%	.0%	.0%	1.2%
Law	14	7	34	8	0	63
Row Percent	22.2%	11.1%	54.0%	12.7%	.0%	100.0%
Column Percent	.6%	.4%	.6%	9.9%	.0%	.7%
Other nonchemistry	153	176	305	6	0	640
Row Percent	23.9%	27.5%	47.7%	.9%	.0%	100.0%
Column Percent	7.1%	9.9%	5.5%	7.4%	.0%	6.7%
No answer	10	2	10	1	1	24
Row Percent	43.5%	8.7%	43.5%	4.3%	4.3%	104.3%
Column Percent	.5%	.1%	.2%	1.2%	---	.3%
Total	2157	1784	5541	81	1	9564
Row Percent	22.6%	18.7%	57.9%	.8%	.0%	100.0%
Column Percent	100.0%	100.0%	100.0%	100.0%	---	100.0%

Table 10.5.1

ALL RESPONDENTS
by RACE/ETHNICITY and SEX
1998 Survey of ACS Members

RACE/ETHNICITY	SEX			Total
	Men	Women	No answer	
Hispanic	140	63	0	203
Row Percent	69.0%	31.0%	.0%	100.0%
Column Percent	1.9%	3.2%	.0%	2.1%
American Indian	16	8	0	24
Row Percent	66.7%	33.3%	.0%	100.0%
Column Percent	.2%	.4%	.0%	.3%
Asian	741	234	2	977
Row Percent	75.8%	24.0%	.2%	100.0%
Column Percent	10.2%	11.7%	.7%	10.2%
Black	113	53	2	168
Row Percent	67.3%	31.5%	1.2%	100.0%
Column Percent	1.6%	2.7%	.7%	1.8%
White	6083	1594	12	7689
Row Percent	79.1%	20.7%	.2%	100.0%
Column Percent	83.6%	79.8%	4.2%	80.4%
Other Non hispanic	108	31	0	139
Row Percent	77.7%	22.3%	.0%	100.0%
Column Percent	1.5%	1.6%	.0%	1.5%
No answer	79	15	270	364
Row Percent	21.7%	4.1%	74.2%	100.0%
Column Percent	1.1%	.8%	94.4%	3.8%
Total	7280	1998	286	9564
Row Percent	76.1%	20.9%	3.0%	100.0%
Column Percent	100.0%	100.0%	100.0%	100.0%

Table 10.8.1

ALL RESPONDENTS
by FUNCTION and REGION
1998 Survey of ACS Members

WORK FUNCTION	GEOGRAPHIC REGION										Total
	Pacific Moun- tain	West		East		Middle		South		New England	
		North	South Central	North Central	South Central	Atlantic	Atlantic	Atlantic	Atlantic		
Analytical services	112	40	80	76	209	47	205	154	58	13	994
Row Percent	11.3%	4.0%	8.0%	7.6%	21.0%	4.7%	20.6%	15.5%	5.8%	1.3%	100.0%
Column Percent	9.7%	13.3%	10.7%	11.9%	13.5%	11.0%	10.1%	7.6%	3.2%	10.4%	
Chemical info	9	0	2	2	26	0	21	21	7	3	91
Row Percent	9.9%	.0%	2.2%	2.2%	28.6%	.0%	23.1%	23.1%	7.7%	3.3%	100.0%
Column Percent	.8%	.0%	.3%	.3%	1.5%	.0%	1.1%	1.4%	.9%	.7%	1.0%
Computers	14	5	3	8	14	2	16	15	9	2	88
Row Percent	15.9%	5.7%	3.4%	9.1%	15.9%	2.3%	18.2%	17.0%	10.2%	2.3%	100.0%
Column Percent	1.2%	1.1%	.5%	1.1%	.8%	.6%	.9%	1.0%	1.2%	.5%	.9%
Consulting	38	15	15	17	23	7	54	53	16	6	244
Row Percent	15.6%	6.1%	6.1%	7.0%	9.4%	2.9%	22.1%	21.7%	6.6%	2.5%	100.0%
Column Percent	3.3%	3.4%	2.5%	2.4%	1.3%	2.0%	2.9%	3.5%	2.1%	1.5%	2.6%
Forensics	8	7	6	6	12	2	11	13	1	1	67
Row Percent	11.9%	10.4%	9.0%	9.0%	17.9%	3.0%	16.4%	19.4%	1.5%	1.5%	100.0%
Column Percent	.7%	1.6%	1.0%	.8%	.7%	.6%	.6%	.9%	.1%	.2%	.7%
General mgmt	43	19	24	41	67	11	79	67	39	4	394
Row Percent	10.9%	4.8%	6.1%	10.4%	17.0%	2.8%	20.1%	17.0%	9.9%	1.0%	100.0%
Column Percent	3.7%	4.3%	4.0%	5.8%	3.8%	3.2%	4.2%	4.4%	5.1%	1.0%	4.1%
Health & Safety	43	14	21	22	44	7	49	62	17	0	279
Row Percent	15.4%	5.0%	7.5%	7.9%	15.8%	2.5%	17.6%	22.2%	6.1%	.0%	100.0%
Column Percent	3.7%	3.2%	3.5%	3.1%	2.5%	2.0%	2.6%	4.1%	2.2%	.0%	2.9%
Marketing sales	43	12	14	28	72	9	58	72	24	2	334
Row Percent	12.9%	3.6%	4.2%	8.4%	21.6%	2.7%	17.4%	21.6%	7.2%	.6%	100.0%
Column Percent	3.7%	2.7%	2.3%	4.0%	4.1%	2.6%	3.1%	4.7%	3.1%	.5%	3.5%
Patents	7	2	3	3	6	0	13	18	7	1	60
Row Percent	11.7%	3.3%	5.0%	5.0%	10.0%	.0%	21.7%	30.0%	11.7%	1.7%	100.0%
Column Percent	.6%	.5%	.5%	.4%	.3%	.0%	.7%	1.2%	.9%	.2%	.6%

(continued)

Table 10.9.1

ALL RESPONDENTS
by WORK SPECIALTY and REGION
1998 Survey of ACS Members

WORK SPECIALTY	GEOGRAPHIC REGION								Total		
	Pacific Northwest	Mountain	West North Central	West South Central	East North Central	East South Central	Middle Atlantic Central	South Atlantic Central		New England	No answer
Chemical engineering	50	26	19	53	77	29	84	84	30	15	467
Row Percent	10.7%	5.6%	4.1%	11.3%	16.5%	6.2%	18.0%	18.0%	6.4%	3.2%	100.0%
Column Percent	4.3%	5.9%	3.2%	7.5%	4.4%	8.3%	4.5%	5.5%	3.9%	3.7%	4.9%
Ag/Food chemistry	29	8	19	21	48	4	48	65	14	14	270
Row Percent	10.7%	3.0%	7.0%	7.8%	17.8%	1.5%	17.8%	24.1%	5.2%	5.2%	100.0%
Column Percent	2.5%	1.8%	3.2%	3.0%	2.7%	1.1%	2.6%	4.3%	1.8%	3.4%	2.8%
Analytical chemistry	171	83	102	122	304	74	324	262	101	60	1603
Row Percent	10.7%	5.2%	6.4%	7.6%	19.0%	4.6%	20.2%	16.3%	6.3%	3.7%	100.0%
Column Percent	14.8%	19.0%	16.9%	17.2%	17.4%	21.2%	17.4%	17.2%	13.2%	14.6%	16.8%
Biochemistry	59	25	43	41	81	18	74	77	33	27	478
Row Percent	12.3%	5.2%	9.0%	8.6%	16.9%	3.8%	15.5%	16.1%	6.9%	5.6%	100.0%
Column Percent	5.1%	5.7%	7.1%	5.8%	4.6%	5.2%	4.0%	5.1%	4.3%	6.6%	5.0%
Biotechnology	75	13	21	9	34	5	32	30	46	4	269
Row Percent	27.9%	4.8%	7.8%	3.3%	12.6%	1.9%	11.9%	11.2%	17.1%	1.5%	100.0%
Column Percent	6.5%	3.0%	3.5%	1.3%	1.9%	1.4%	1.7%	2.0%	6.0%	1.0%	2.8%
Clinical chemistry	14	0	7	10	15	2	15	15	8	2	88
Row Percent	15.9%	.0%	8.0%	11.4%	17.0%	2.3%	17.0%	17.0%	9.1%	2.3%	100.0%
Column Percent	1.2%	.0%	1.2%	1.4%	.9%	.6%	.8%	1.0%	1.0%	.5%	.9%
Environmental chemistry	111	55	38	57	97	21	102	135	37	28	681
Row Percent	16.3%	8.1%	5.6%	8.4%	14.2%	3.1%	15.0%	19.8%	5.4%	4.1%	100.0%
Column Percent	9.6%	12.6%	6.3%	8.1%	5.5%	6.0%	5.5%	8.9%	4.8%	6.8%	7.1%
General chemistry	51	18	42	40	91	28	81	79	34	35	499
Row Percent	10.2%	3.6%	8.4%	8.0%	18.2%	5.6%	16.2%	15.8%	6.8%	7.0%	100.0%
Column Percent	4.4%	4.1%	7.0%	5.6%	5.2%	8.0%	4.4%	5.2%	4.5%	8.5%	5.2%

(continued)

Table 10.9.1 (Continued)

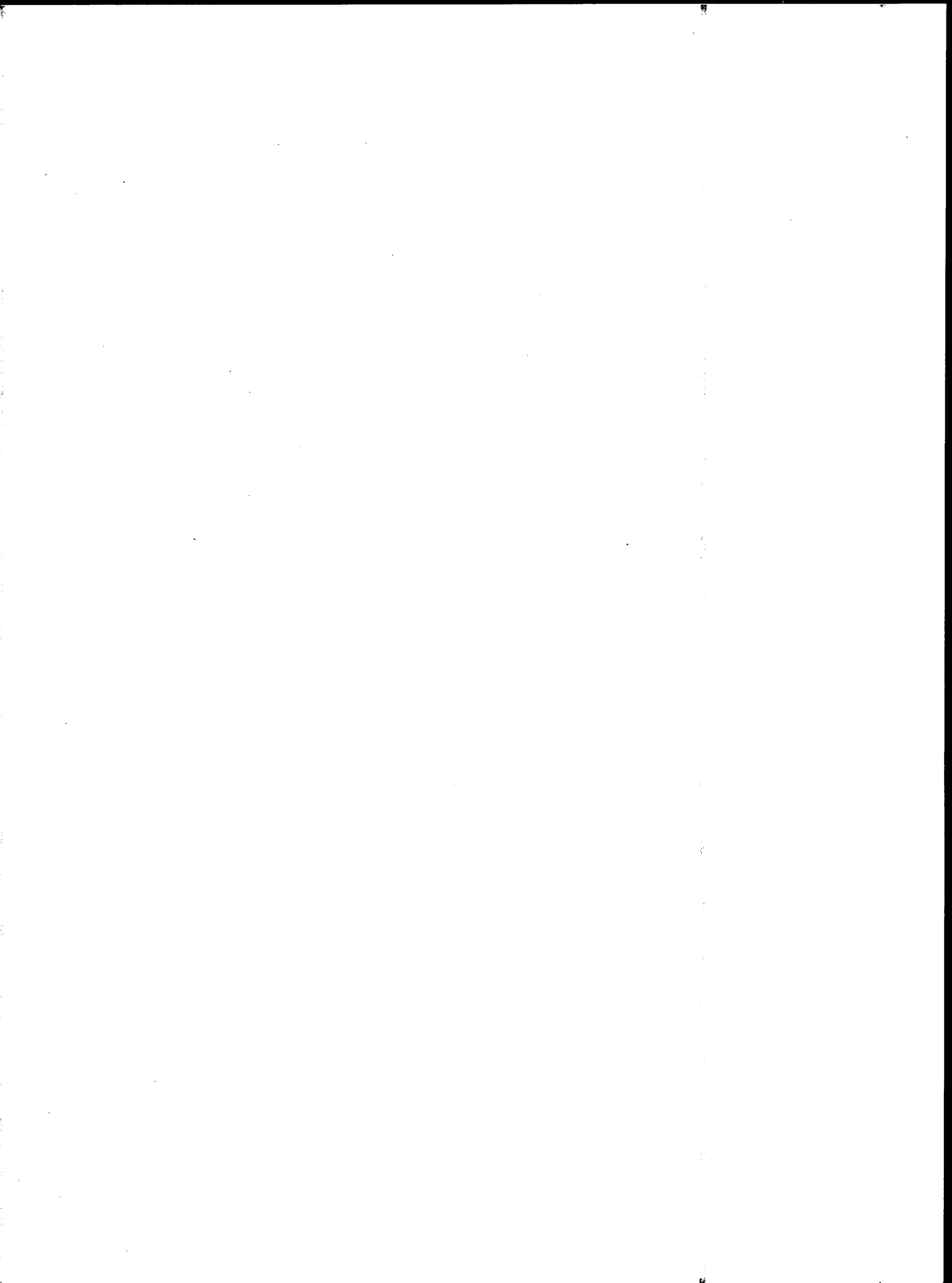
WORK SPECIALTY	ALL RESPONDENTS by WORK SPECIALTY and REGION 1998 Survey of ACS Members											Total
	GEOGRAPHIC REGION											
	Pacific Northwest	Mountain	West North Central	West South Central	East North Central	East South Central	East South Central	Middle Atlantic	South Atlantic	New England	No answer	
Inorganic chemistry	33	21	31	33	67	16	60	45	17	14	337	
Row Percent	9.8%	6.2%	9.2%	9.8%	19.9%	4.7%	17.8%	13.4%	5.0%	4.2%	100.0%	
Column Percent	2.8%	4.8%	5.1%	4.7%	3.8%	4.6%	3.2%	3.0%	2.2%	3.4%	3.5%	
Materials science	41	29	19	31	79	12	70	59	40	12	392	
Row Percent	10.5%	7.4%	4.8%	7.9%	20.2%	3.1%	17.9%	15.1%	10.2%	3.1%	100.0%	
Column Percent	3.5%	6.6%	3.2%	4.4%	4.5%	3.4%	3.8%	3.9%	5.2%	2.9%	4.1%	
Medicinal-Pharmaceutical	114	13	51	21	123	9	189	108	93	25	746	
Row Percent	15.3%	1.7%	6.8%	2.8%	16.5%	1.2%	25.3%	14.5%	12.5%	3.4%	100.0%	
Column Percent	9.8%	3.0%	8.5%	3.0%	7.0%	2.6%	10.2%	7.1%	12.2%	6.1%	7.8%	
Organic chemistry	133	30	68	94	195	39	249	150	106	46	1110	
Row Percent	12.0%	2.7%	6.1%	8.5%	17.6%	3.5%	22.4%	13.5%	9.5%	4.1%	100.0%	
Column Percent	11.5%	6.9%	11.3%	13.3%	11.1%	11.2%	13.4%	9.9%	13.9%	11.2%	11.6%	
Physical chemistry	67	38	43	25	70	18	84	67	35	15	462	
Row Percent	14.5%	8.2%	9.3%	5.4%	15.2%	3.9%	18.2%	14.5%	7.6%	3.2%	100.0%	
Column Percent	5.8%	8.7%	7.1%	3.5%	4.0%	5.2%	4.5%	4.4%	4.6%	3.7%	4.8%	
Polymer chemistry	48	19	38	65	225	27	161	134	70	32	819	
Row Percent	5.9%	2.3%	4.6%	7.9%	27.5%	3.3%	19.7%	16.4%	8.5%	3.9%	100.0%	
Column Percent	4.1%	4.3%	6.3%	9.2%	12.8%	7.7%	8.6%	8.8%	9.2%	7.8%	8.6%	
Other chemical science	31	13	10	20	45	10	58	51	18	17	273	
Row Percent	11.4%	4.8%	3.7%	7.3%	16.5%	3.7%	21.2%	18.7%	6.6%	6.2%	100.0%	
Column Percent	2.7%	3.0%	1.7%	2.8%	2.6%	2.9%	3.1%	3.4%	2.4%	4.1%	2.9%	
Business Administration	18	9	14	16	49	7	60	28	16	16	233	
Row Percent	7.7%	3.9%	6.0%	6.9%	21.0%	3.0%	25.8%	12.0%	6.9%	6.9%	100.0%	
Column Percent	1.6%	2.1%	2.3%	2.3%	2.8%	2.0%	3.2%	1.8%	2.1%	3.9%	2.4%	

(continued)

Table 10.10.1

ALL RESPONDENTS
by REGION and SEX
1998 Survey of ACS Members

	SEX			Total
	Men	Women	No answer	
GEOGRAPHIC REGION				
Pacific	890	258	11	1159
Row Percent	76.8%	22.3%	.9%	100.0%
Column Percent	12.2%	12.9%	3.8%	12.1%
Mountain	348	85	4	437
Row Percent	79.6%	19.5%	.9%	100.0%
Column Percent	4.8%	4.3%	1.4%	4.6%
West North Central	479	121	3	603
Row Percent	79.4%	20.1%	.5%	100.0%
Column Percent	6.6%	6.1%	1.0%	6.3%
West South Central	574	130	4	708
Row Percent	81.1%	18.4%	.6%	100.0%
Column Percent	7.9%	6.5%	1.4%	7.4%
East North Central	1395	345	11	1751
Row Percent	79.7%	19.7%	.6%	100.0%
Column Percent	19.2%	17.3%	3.8%	18.3%
East South Central	285	62	2	349
Row Percent	81.7%	17.8%	.6%	100.0%
Column Percent	3.9%	3.1%	.7%	3.6%
Middle Atlantic	1436	418	8	1862
Row Percent	77.1%	22.4%	.4%	100.0%
Column Percent	19.7%	20.9%	2.8%	19.5%
South Atlantic	1177	334	11	1522
Row Percent	77.3%	21.9%	.7%	100.0%
Column Percent	16.2%	16.7%	3.8%	15.9%
New England	579	178	6	763
Row Percent	75.9%	23.3%	.8%	100.0%
Column Percent	8.0%	8.9%	2.1%	8.0%
No answer	117	67	226	410
Row Percent	28.5%	16.3%	55.1%	100.0%
Column Percent	1.6%	3.4%	79.0%	4.3%
Total	7280	1998	286	9564
Row Percent	76.1%	20.9%	3.0%	100.0%
Column Percent	100.0%	100.0%	100.0%	100.0%





AMERICAN CHEMICAL SOCIETY 1998 Comprehensive Salary and Employment Status Survey

Please complete and return as soon as possible in the envelope provided. Thank you for your participation.

MARKING INSTRUCTIONS

- Use a No. 2 pencil or blue or black ink pen only.
- Do not use felt tip pens.
- Fill the oval completely.
- Do not make stray marks on this form.

INCORRECT MARKS



CORRECT MARK



Dear Member:

Each year, the American Chemical Society studies the employment and economic status of its membership by surveying a sample of the members. The results of this study are the basis for numerous reports about chemists' employment, including the July "Salaries" issue of *C&EN*. I am asking you to participate in this year's study, which is conducted under the guidance of the ACS Committee on Economic and Professional Affairs.

Your participation is essential, as a high response rate is needed to ensure accurate results. It is also important that your specialty and experience be represented. Please take a few minutes to complete the questionnaire and return it in the enclosed envelope. All data will be reported in the aggregate so your answers are strictly confidential.

Thank you for your participation.

John K. Crum, Executive Director

I. EDUCATION AND EMPLOYMENT STATUS

1. What is the highest degree you have received to date? Fill in one.

- Less than Bachelor's
- Bachelor's
- Master's
- Doctorate
- Other (specify) _____

2. Please indicate the year for each degree you have earned.

	Bachelor's		Master's		Doctorate	
	19		19		19	
1	0	0	0	0	0	0
2	1	1	1	1	1	1
3	2	2	2	2	2	2
4	3	3	3	3	3	3
5	4	4	4	4	4	4
6	5	5	5	5	5	5
7	6	6	6	6	6	6
8	7	7	7	7	7	7
9	8	8	8	8	8	8
0	9	9	9	9	9	9

3. Please indicate the one field of the highest degree you have earned and the one specialty most related to your current or most recent job using the appropriate column below. Fill in one response for each column.

	One field of degree	One work specialty
Chemical engineering	01	01
Agricultural/food chemistry	02	02
Analytical chemistry	03	03
Biochemistry	04	04
Biotechnology	05	05
Clinical chemistry	06	06
Environmental chemistry	07	07
General chemistry	08	08
Inorganic chemistry	09	09
Materials science	10	10
Medicinal/pharmaceutical chemistry	11	11
Organic chemistry	12	12
Physical chemistry	13	13
Polymer chemistry	14	14
Other chemical science	15	15
Business administration	16	16
Computer science	17	17
Law	18	18
Other non-chemistry	19	19

4. Please indicate your primary employment status as of March 1, 1998. Choose the one category that best fits your situation.

- Employed full-time (35 hours or more per week) Go to 5
- Employed part-time Go to 5
- Postdoctoral or other fellowship Go to 5
- Not employed but actively seeking employment Go to 7
- Not employed and not seeking employment Go to 8
- Fully retired Stop Here and Return Survey

5. If you are currently employed, how long have you worked for your current employer? Fill in one.

- Less than 1 year
- 1 to 4 years
- 5 to 9 years
- 10 to 19 years
- 20 or more years

6. If you are currently employed, is your job permanent or temporary? Fill in one.

- Permanent - Go to 8
- Temporary - Go to 8
- Agency temp - Go to 8
- Fixed term contract - Go to 8

7. If you were not employed but actively seeking employment on March 1, 1998, how long had you been unemployed? Fill in one.

- Less than 1 month
- 1 to 3 months
- 4 to 6 months
- 7 to 12 months
- More than 1 year

8. Regardless of your current status, was there any period when you were not employed but actively seeking employment in calendar year 1997? Fill in one.

- Yes
- No - Go to 9

If yes, how many total months were you not employed but actively seeking employment in calendar year 1997? Fill in one.

- Less than 1 month
- 1 to 3 months
- 4 to 6 months
- 7 to 11 months
- 12 months

9. What are the first three digits of the zip code of your current or most recent place of employment?

0	0	0
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9

II. CURRENT INCOME AND JOB EVALUATION

- If you are employed, either full-time or part-time, please answer current income and job evaluation.
— OR —
- If you are not currently employed, please go to section III.

In filling out questions, please follow example below:

10. What was your base annual salary from your primary employer as of March 1, 1998? Do not include bonuses, earnings from second employer, overtime work, summer teaching, or other supplemental earnings. If on a 9 or 10 month contract, report the 9 or 10 month salary rather than an annualized salary. If none, enter zero.

EXAMPLE:

\$									
	4	7	3	2	9				
0	1	2	3	4	5	6	7	8	9
1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9	9

\$									
0	1	2	3	4	5	6	7	8	9
1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9	9

11. What was your base annual salary from your primary employer as of March 1, 1997? Do not include bonuses, earnings from second employer, overtime work, summer teaching, or other supplemental earnings. If on a 9 or 10 month contract, report the 9 or 10 month salary rather than an annualized salary. If none, enter zero.

\$									
0	1	2	3	4	5	6	7	8	9
1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9	9

12. What was your total professional income during calendar year 1997? Include consulting fees, base annual salary, bonuses, earnings from second employer, overtime, summer teaching, and other supplemental earnings.

\$									
0	1	2	3	4	5	6	7	8	9
1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9	9

13. Were you eligible for bonus during calendar year 1997?
 Yes No - Go to 14

If Yes, did you receive a bonus?

- Yes No - Go to 14
 If Yes, please indicate amount \$

\$									
0	1	2	3	4	5	6	7	8	9
1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9	9

14. Did you do any consulting in 1997? Fill in one.

Yes No — Go to Section III.

If yes, how many hours did you consult per month? Fill in one.

- Less than 10 hrs 20 - 39 hrs 100 or more hrs
 10 - 19 hrs 40 - 99 hrs

15. If you did any consulting, what was your approximate hourly rate?

\$									
0	1	2	3	4	5	6	7	8	9
1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9	9

16. What was your total consulting income during calendar year 1997?

\$									
0	1	2	3	4	5	6	7	8	9
1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9	9

III. CURRENT OR MOST RECENT PRIMARY JOB

- If your most recent employer is not or was not an academic institution, go to section III. B.

A. Academic employer.

17. Please indicate your current or most recent primary academic employer: Fill in one.

College or university excluding medical schools where the highest degree offered in chemistry or chemical engineering is:

- Associate's 1
- Bachelor's 2
- Master's 3
- Doctorate 4

- University medical or professional school 5
- High school 6

18. What is or was your academic employer? Fill in one.
 Public institution Private institution

19. What is or was your academic rank? Fill in one.

- Full professor 1
- Associate professor 2
- Assistant professor 3
- Visiting or adjunct professor, instructor, lecturer 4
- Non-teaching research appointment 5
- Other non-faculty 6
- My institution does not have ranks 7
- Secondary Teacher 8

20. Have or had you been granted tenure? Fill in one.

- Yes (1)
- Not tenured, in tenure track (2)
- Not tenured, not in tenure track (3)
- Not Applicable (4)

21. What is or was your basic contract period? Fill in one.

- 9 or 10 months
- 11 or 12 months

22. About what fraction of your total working time in your contract period is or was devoted to: Fill in all that apply.

- Teaching**
- 1-25%
 - 26-33%
 - 34-50%
 - 51-66%
 - 67-75%
 - 76-100%
- Research**
- 1-25%
 - 26-33%
 - 34-50%
 - 51-66%
 - 67-75%
 - 76-100%
- Administration**
- 1-25%
 - 26-33%
 - 34-50%
 - 51-66%
 - 67-75%
 - 76-100%
- Other**
- 1-25%
 - 26-33%
 - 34-50%
 - 51-66%
 - 67-75%
 - 76-100%

Go to 28.

B. Non-academic employer.

23. Please indicate current or most recent principal employer: Fill in one.

- Self-employed** (1)
- Non-manufacturing:**
- Analytical service laboratory** (2)
- Contract research firm** (3)
- Utility company** (4)
- Other non-manufacturing** (5)
- Manufacturing company primarily involved in:**
- Aerospace** (6)
- Agricultural chemicals** (7)
- Basic chemicals** (8)
- Biochemical products** (9)
- Coatings, paints, inks** (10)
- Electronics** (11)
- Food** (12)
- Instruments** (13)
- Medical devices/diagnostic products** (14)
- Metals, minerals** (15)
- Paper** (16)
- Personal care** (17)
- Petroleum/natural gas** (18)
- Pharmaceuticals** (19)
- Plastics** (20)
- Rubber** (21)
- Soaps, detergents, surfactants** (22)
- Specialty chemicals** (23)
- Other manufacturing** (24)
- Government:**
- Federal (civilian)** (25)
- Military** (26)
- State or local** (27)
- Other government** (28)
- Other non-academic employer:**
- Hospital or independent laboratory** (29)
- Non-profit organization, other research institution** (30)
- Other non-academic** (31)

24. Employer's approximate number of employees (total for the whole organization):

- Less than 50** (1)
- 50 to 99** (2)
- 100 to 499** (3)
- 500 to 2,499** (4)
- 2,500 to 9,999** (5)
- 10,000 to 24,999** (6)
- 25,000 or more** (7)

25. Please indicate the one work function that best describes your job: Fill in one.

- Analytical services, other than forensics** (1)
- Chemistry information services** (2)
- Computer programming, analysis, design** (3)
- Consulting** (4)
- Forensic analysis** (5)
- General management or administration (other than R&D)** (6)
- Health and safety/regulatory affairs** (7)
- Marketing, sales, purchasing, technical service, economic evaluation** (8)
- Patents, licensing, trademarks** (9)
- Production, quality control** (10)
- Research and Development:**
- Applied research, development, design** (11)
- Basic research** (12)
- Management or administration of R&D** (13)
- Training or teaching** (14)
- Other (specify)** (15)

26. How is your job classified? Fill in one.

- Manager or administrator** (1)
- Scientist or engineer** (2)
- Chemical or engineering technician** (3)
- Other (specify)** (4)

27. How many people do you supervise, directly or indirectly? Fill in all that apply.

- Scientist or engineer**
- 0
 - 1-2
 - 3-9
 - 10-14
 - 15-29
 - 30-49
 - 50 or more
- Chemical or engineering technician**
- 0
 - 1-2
 - 3-9
 - 10-14
 - 15-29
 - 30-49
 - 50 or more
- Others, including production workers**
- 0
 - 1-2
 - 3-9
 - 10-14
 - 15-29
 - 30-49
 - 50 or more

IV. QUESTIONS ABOUT YOURSELF

28. What is your sex? Male Female

29. What is your age on March 1, 1998?

AGE →

0	1
2	3
4	5
6	7
8	9
10	11
12	13
14	15
16	17
18	19
20	21
22	23
24	25
26	27
28	29
30	31
32	33
34	35
36	37
38	39
40	41
42	43
44	45
46	47
48	49
50	51
52	53
54	55
56	57
58	59
60	61
62	63
64	65
66	67
68	69
70	71
72	73
74	75
76	77
78	79
80	81
82	83
84	85
86	87
88	89
90	91
92	93
94	95
96	97
98	99
100	

30. What is your citizenship or visa status? Fill in one.

- U.S. native** (1)
- U.S. naturalized** (2)
- U.S. permanent resident visa** (3)
- Other visa** (4)

31. Are you of Hispanic origin or descent?

- Yes
- No

32. What is your background? Fill in one.

- American Indian or Alaskan Native** (1)
- Asian or Pacific Islander** (2)
- Black** (3)
- White** (4)
- Other** (5)

In a continued effort to observe the changes in the total compensation of ACS members, this section is a follow-up to the fringe benefits questions that appeared on the 1994 Salary Survey. Please take the time to answer the following questions.

33. Paid Leave. Please indicate which of the following types of paid leave are available to you. Available Yes No. Holidays, Vacation/leave, Sick leave, Leave for care of sick family members, Newborn leave, Funeral/bereavement leave, Jury duty leave, Other paid personal leave (specify)

34. Unpaid Leave. Please indicate whether unpaid leave is available to you. Available Yes No

35. Retirement and Savings Programs. Please indicate which of the following types of retirement and savings programs are available to you. Available Yes No. Savings plans e.g. 401(k) or 403(b), Employee stock ownership, Employer matching savings program, Profit sharing plan, Stock options, Flexible spending accounts, Other retirement or savings (specify)

36. Are your benefits provided under a flexible benefits program? This is where you determine how your benefits package is apportioned. Yes No - Go to 37. If yes, simply answer the remaining questions "Yes" or "No", i.e. do not indicate portion of premium "paid by employer".

37. Medical/Dental Plans. Please indicate which of the following types of medical and dental benefits are available to you. If available and not a flexible benefit, what approximate portion of the premium is paid by your employer? Plan or Benefit, Medical coverage for employee, Medical coverage for family, Dental coverage for employee, Dental coverage for family, Vision coverage for employee, Vision coverage for family, Prescription drug program, Annual physical, Wellness/fitness program, Other Medical coverage (specify)

38. Insurance. Please indicate which of the following types of insurance are available to you. If available and not a flexible benefit, what approximate portion of the premium is paid by your employer? Available Yes No. Portion of Premium Paid by Your Employer All Partial None

Type of Insurance: Life insurance for employee, Life insurance for family, Accidental death/dismemberment, Long term care insurance, Short term disability, Long term disability, Other insurance (travel, etc.)

39. Professional Development. Please indicate which of the following types of professional development benefits are available to you. If available and not a flexible benefit, what approximate portion of the cost is paid by your employer? Available Yes No. Portion of Cost Paid by Your Employer All Partial None

Professional Development: College tuition reimbursement, Cultural diversity training, Educational leave, In-house training courses, Outside training/workshops/short courses, Professional assn. dues, Sabbatical leave, Travel to technical meetings, Other prof development (specify)

40. Other Programs. Please indicate which of the following types of programs are available to you. If available and not a flexible benefit, what portion of the cost is paid by your employer? Available Yes No. Portion of Cost Paid by Your Employer All Partial None

Other Programs: Benefit sharing with other employees, Employee assistance program, Ergonomic equipment, Flexible work hours, Job Sharing, Off-site child care, On-site child care, Personal Protective Equipment, Other (specify)

Thank you.

Please provide comments on other fringe benefits.

Please provide any additional comments.

THANK YOU FOR YOUR PARTICIPATION. PLEASE RETURN THIS QUESTIONNAIRE IN THE ENVELOPE PROVIDED

ACS CAREER SERVICES PUBLICATIONS

Salaries: The Society 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: ACS also surveys new graduates in chemistry and chemical engineering each year, and publishes reports detailing the graduates' employment status, post-graduation plans, starting salaries and other employment and demographic characteristics. Reports are available for each year from 1975.

Women Chemists: Every five years, the Society produces a supplemental report on the economic status of women in the ACS. Reports are available for 1975, 1980, 1985, 1990, and 1995.

Current Trends provides information on technology, business, economic, R&D, and hiring trends in the corporate, government, and academic worlds. New edition will be available in the Spring 1999

Employer Mailing List is the mailing list, arranged by state, used to solicit employers for ACS employment services. It is arranged by state,

ACS Career, Employment and Professional Resources: A Catalog of Publications, Programs & Services. This brochure lists all ACS career resources for high school and college students exploring career options; professionals seeking employment in chemistry and allied fields; and individuals facing the challenges of career development, career changes, and retirement.

For prices and ordering information, please call or write:

ACS Office of Society Services
1155 16th Street NW
Washington, DC 20036
Phone: 800/227-5558 or 202/872-4600

ON-LINE CAREER SERVICE EMPLOYMENT PROGRAMS

Department of Career Services information on publications and programs is available through the ChemCenter. Visit the "Build Your Career" section at ChemCenter to view employment information for ACS members. <http://www.ChemCenter.org>.

ONLINE PROFESSIONAL DATA BANK. The Online PDB (Professional Data Bank) is an Internet recruiting tool developed by the American Chemical Society. The Online PDB provides a fast, efficient, and cost-effective way for employers to reach a highly qualified, vertical market of job-seekers. All candidates represented in our profile database are skilled professionals and members of the American Chemical Society, the leading membership society for chemists and chemical engineers.

JOB BANK. The ACS Job Bank includes classified and display ads from the two most recent issues of *Chemical & Engineering News (C&EN)*. The ACS Job Bank is updated weekly. Links to other online job banks and World Wide Web pages of major companies are also included. The Job Bank is available on the ACS Website.

C&EN Situation Wanted Ads. Employed ACS members and student affiliates may place an ad in C&EN at \$6.60 a line per insertion, no minimum charge. Unemployed ACS members, student affiliates, and retired members may place free situations wanted ads; certain restrictions apply.

