SALARIES 1996

ANALYSIS OF THE AMERICAN CHEMICAL SOCIETY'S 1996 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 1155 16th Street, NW Washington, DC 20036 December 1996

Available from the ACS Membership Service Center

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ACKNOWLEDGMENTS

This report presents abbreviated results of the 1996 ACS Comprehensive Salary and Employment Status Survey. A summary of the survey the preliminary findings was published in the July 29, 1996 issue of *Chemical & Engineering News*.

The ACS Council Committee on Economic and Professional Affairs, chaired by James D. Burke, and its Subcommittee on Surveys, chaired by James Visintainer, planned and provided general oversight of the survey and its analysis in 1996. The committee expresses its gratitude to the approximately 10,000 respondents 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.

Mary L. Funke, Head Department of Career Services The American Chemical Society's 1996 Comprehensive Salary and Employment Status Survey was conducted on an incomplete sample drawn from the membership database. The sample was inconsistent with the membership by significantly fewer from the Pacific Region, a larger proportion employed in industry, and a younger age concentration. Extensive cleaning of the data still resulted in data with a lower confidence level than in past surveys. Thus, *Salaries 96* is an abbreviated version of the annual report.¹

Measures have been taken to assure the quality of the sample in future years. The full report will resume in July 1997 with the completion of the 1997 survey.

SUMMARY AND COMMENT

Data from the 1996 survey displayed few signals for any stabilizing of employment in the chemistry profession. Salaries of most full-time categories increased over last year, but lagged behind the inflation rate. Individuals who have remained with an employer for more than a year showed favorable increases in salary. Much of this disparity between lack of overall salary increases and growth of individual salaries, is due to the rapid and significant increases in the a) proportion of chemists experiencing unemployment between 1995 and 1996 and b) those reporting some period of unemployment during 1995.

SALARIES²

Median incomes increased in current dollars between 1995 and 1996 for most chemists and all chemical engineers employed full-time. Chemical engineers at all degree levels gained income increases either even with or exceeding the rate of inflation. Chemists, on the other hand, showed little overall improvement. They fell behind the rate of inflation at the bachelor's and master's levels. Chemists at the doctorate level gained salary increases that essentially stayed even with the inflation rate.

^{1.} The tables supplied with this edition are those that account for age- or experience-specific rates with "years since BS", and rank for academics. It is suggested that the reader use those "years since BS" and rank categories for higher confidence level in the data supplied.

^{2.} For salaries overall, the younger age difference somewhat offsets the increased industrial representativeness. For salaries also, the regional difference is not as significant in this instance, as the Pacific Region generally closely follows the national medians. Thus, the overall salaries are from younger respondents, but at the same time a sample from a more industry-employed group than usual.

Chemists

The rate of increase or decrease in median salary for chemists varied with the highest degree held. Bachelor chemists fell behind their 1995 level and decreased substantially from 1995 when calculated with the rate of inflation. Those chemists with master's degrees slightly gained in current dollars, but failed to keep pace with the rate of inflation. Chemists with doctorate degrees fared best of the chemists, but their increase scarcely outpaced the rate of inflation. As of March 1, 1996, median salaries for chemists were:

Degree	Median Salary	Change fr (current d		Change from 1995 (constant dollars)		
Bachelor's	45,000	down	1.6%	down	3.4%	
Master's	53,600	up	0.2%	down	2.6%	
Doctorate	68,000	up	3.0%	up	0.2%	

Chemical Engineers

For chemical engineers employed full-time, all degree-holders at least kept pace with inflation. Chemical engineers with bachelor's and master's degrees gained salary increases that showed considerable improvement in gains of constant dollar terms also. Median salaries for chemical engineers were:

Degree	Median Salary	Change from 1995 (current dollars)	Change from 1999 (constant dollars	
Bachelor's	58,800	up 5.9%	up 3.1%	
Master's	69,400	up 4.2%	up 1.4%	
Doctorate	76,100	up 2.8%	even	

Academic Chemists

The greatest influences on academic salaries are academic rank, length of contract, school type and work function. Academic salaries are generally higher for full professors, those working in public institutions, those working in departments granting PhDs, and those in research.

^{3.} The adjustment for inflation used the CPI-U, Consumer Price Index-Urban, which increased 2.8 percent from March 1995 to March 1996. The CPI-U serves as an approximation for national inflation.

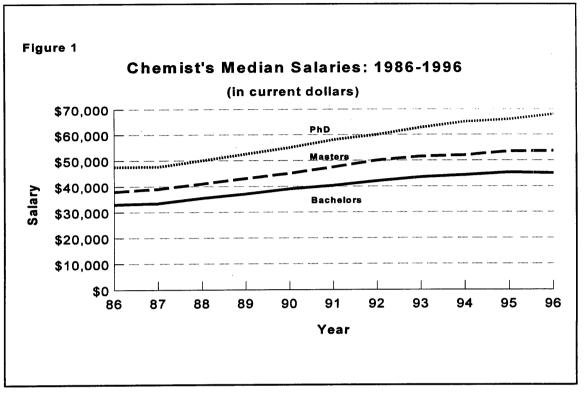
Full professors gained salary increases in current dollars, but those with 9/10 month contracts did not increase in constant dollars. In 1996, the news was poor for associate professors. Both groups of associate professors, those with 9/10 month contracts and those with 11/12 month contracts lost ground to inflation. On the other hand, the previous year, salary increases were greatest for those at the rank of associate professor. The assistant professors fared the best of the academics in 1996. Salaries for assistant professors increased substantially from 1995 to 1996. Their increase was notably greater than the rate of inflation.

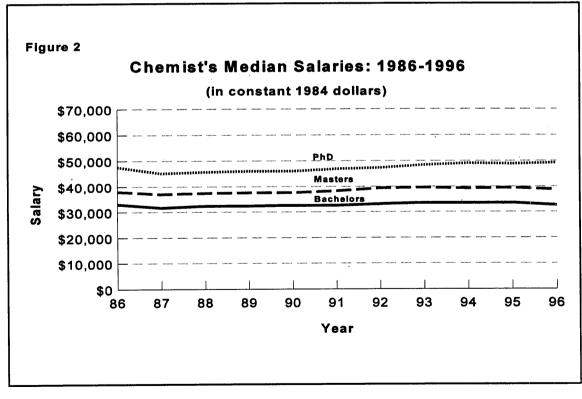
Rank/Contract	Median Salary	Change from 1995 (current dollars)	Change from 1995 (constant dollars)		
Full 9/10	62,000	up 2.1%	down 0.7%		
Full 11/12	89,350	up 5.0%	up 2.2%		
Assoc 9/10	45,000	even	down 2.8%		
Assoc 11/12	60,000	down 1.6%	down 4.4%		
Asst 9/10	38,480	up 13.2%	up 10.4%		
Asst 11/12	50,000	up. 7.3%	up 4.5%		

Trends in Chemists' Salaries

For the past ten years, as shown in Figures 1 and 2, salaries for chemists have generally grown in current dollars and constant dollars for the PhD. Chemists with masters and bachelors degrees rose more gradually until 1996, when the masters' salaries leveled and bachelor chemists lost ground in current salary dollars.

Figure 2 shows chemists salary trends in 1984 constant dollars. After an initial drop in the late-1980s in constant dollar salaries, chemists with doctorates regained their initial loss and have steadily gained in salaries, albeit smaller gains since 1994. The chemists with masters regained their initial late-1980 constant dollar loss and gained until 1992. As stated earlier, this year they fell farther behind inflation for the second straight year. The bachelor chemists salaries barely regained constant dollar losses of the 1980s and have also fallen behind in constant dollar gains for several years.





Other Sources of Income

Consulting was a source of income for over 17 percent of the survey's respondents, down from over 18 percent in 1995. Two-thirds of those who said they consulted, did so less than 10 percent of their time per month. Only seven percent of all those who consulted said they consulted full-time. The majority of chemists with more than 15 years since their BS degrees and who consulted had median hourly rates of \$50 to \$100, depending on highest degree earned. PhDs with more than 15 years since their BS degrees tended to earn a median hourly rate of more than \$100 per hour.

About a third of all respondents received bonuses. The majority of those who received bonuses worked in industry. Over half of the industrial chemists reported receiving a bonus in the past year. The median amount of bonuses reported by industrial chemists was \$4,000, up from \$3,000 the prior year. Industrial bonuses were closely tied to the size of the company, with larger companies giving higher bonuses, but smaller companies giving proportionately more bonuses.

Individual Chemists' Salaries

Overall salaries for chemists may be stagnant or falling, but individual chemists who worked for the same employer for more than one year showed healthy gains in 1996. All analyzed groups of chemists who received raises in the past year showed median salary increases exceeding the inflation factor. Chemists in industry posted the highest raises with and overall median raise of 4.8 percent, followed by an overall four percent raise in academia and a 3.5 percent for government chemists.

Chemists between the ages of 20 and 29 garnered higher salary increases than any other age group with an overall median increase of 6.8 percent. For each group, chemists with bachelor degrees gained larger proportional raises in 1995 to 1996 than did chemists with graduate degrees.

Seemingly contradictory occurrences, such as higher individual salaries and lower overall salaries can have several explanations. One of those is with the methodology of using median salaries as the descriptor, where essentially two differing groups are compared by median. Other explanations are found in the higher movement of chemists between jobs and where new jobs are being created in the industry, as reported in the Employment and Unemployment Section of this report. Also, and with greater frequency, chemists are changing employment and finding jobs in smaller companies that generally pay less than larger companies.

EMPLOYMENT AND UNEMPLOYMENT⁴

The Industry

At the end of 1995 and through 1996, the U.S. Bureau of Labor Statistics (BLS) has released a series of reports⁵ estimating employment through the year 2005 by occupation and by industry. In addition, The National Science Board's *Science & Engineering Indicators 1996* published results from an economic model of the supply side of the science workforce through the year 2005. From these two sources, the overall outlook for continued growth in jobs for chemists is favorable, barring any unexpected labor market downturns or changes.

The chemist occupation is expected to grow in both the chemical manufacturing, by 23.3 percent, and drug industries, by 13.5 percent. This growth is above and beyond replacement. Within the chemical and related industries, the new job opportunities are expected to be greatest in the pharmaceutical and biotechnology firms. *Forbes* magazine estimated this past year that over 60 percent of new jobs will continue to be created in very small firms, most of which have fewer than 100 employees. New employment opportunities for science technicians and chemical engineers are also expected to increase, but at more moderate rates.

Concurrent with new jobs for chemists, overall employment in the chemistry industry is expected to continue to decline by four percent during the period from 1994 to 2005. The loss of jobs in the chemical industry is expected in the areas of production, administration, general management, and production management occupations. Thus, for chemists in any of those occupations, the outlook is less optimistic and employment will continue to decline into the next century.

Employment Statuses

The employment statuses on March 1, 1996 for most of the respondents are presented in Table 1. The unemployment rate for chemical engineers seeking employment declined for the third year in a row, from a peak of 3.5 percent in 1993 to 2.3 percent in 1996. The 2.9 percent unemployment rate for chemists seeking employment rose to levels last seen in the

^{4.} Overall 1996 employment statuses other than full-time may be slightly overstated for the ACS membership in general. This is because, traditionally, younger chemists and chemists employed in industry tend to have higher rates of employment in statuses other than full-time employment.

^{5.} Relevant publications from the U.S. Bureau of Labor Statistics and National Science Foundation are listed at the end of this report with Information Sources.

Table 1						
	Employme	nt Status	by Work Spe	cialty: 1994-199	6	
Status	Chemical Engineering			Chemistry		
	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>
Full-time	91.7%	90.3%	90.7%	90.1%	88.8%	89.3%
Part-time Postdoc &	2.3%	2.4%	3.0%	2.5%	2.7%	2.7%
fellowship Unemployed &	0.4%	1.1%	0.8%	2.9%	3.5%	2.7%
seeking Not seeking	3.1%	2.9%	2.3%	2.6%	2.5%	2.9%
employment	2.5%	3.2%	3.2%	2.0%	2.6%	2.3%
Total number						
in category	557	2,703	473	8,838	45,314	8787

1970s. However, the percentage of those employed full-time for both chemists and chemical engineers rebounded with a slight increase after continuing declines in 1995. The full-time rate for chemical engineers declined by more than one percentage point between 1994 and 1995.

Chemists employed part-time continued as 2.7 percent in 1996. Those in postdocs or fellowships decreased to near-1994 levels, from 2.9 percent in 1994 to 3.5 percent in 1995 and then to 2.7 percent this year. Finally, 2.3 percent of the chemists were not seeking employment in 1996.

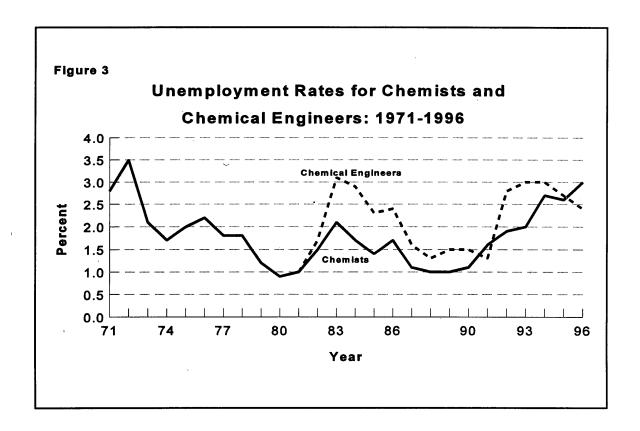
Unemployment Trends for Chemists and Chemical Engineers

Figure 3 shows the unemployment trends for chemists and chemical engineers. Generally, chemical engineers maintain higher unemployment rates. This year the data showed the unemployment rates for chemical engineers falling below that of chemists for the second time in 15 years. In addition, the trends for chemists shows an upward tendency for almost a decade, rivaling that of the late 1960s and early 1970s.

Although the sharp increase in unemployment for chemists was partially a result of the younger age and industrial bias of this year's sample, the recent and relatively high unemployment of ACS members follows a trend that has been developing during the 1990s for members. This also follows the national trend of higher unemployment amongst all professionals, especially for those like chemists who have had traditionally low

unemployment. More telling for chemists is the upward trend in the numbers and proportions of chemists who are unemployed during the previous year.

Chemists		1991	1992	1993	1994	1995	1996
	Unemployment Rate ⁶	1.6%	1.9%	2.0%	2.1%	2.7%	3.0%
	Any Unemployment in the Past Year ⁷	3.1%	4.3%	4.0%	5.4%	6.8%	7.5%



^{6.} Since the early 1990s, the BLS has dropped those unemployed and not seeking from the labor force. Prior to the late 1980s, the not seeking group was so small that they did not statistically affect the unemployment rate.

^{7.} A question on the survey asks for those who are unemployed and seeking work. It does not ask how many changed jobs in the past year. The number who actually change jobs in the past year is a combination of those who experienced unemployment, plus those who go to another job/employer without any period of unemployment.

The rising unemployment rate for the past year indicates the growing volatility of employment for chemists. The unemployment rate for one particular day masks the much larger proportion of chemists who experienced unemployment sometime during the previous year. While the unemployment rate for chemists has risen, the total annual proportion of unemployed chemists has risen by a factor of two or more.

Indeed, even for chemists who were fully employed on March 1, 1996, over five percent had some period of unemployment in the previous year, 1995. This points out the seeming anomaly of job growth, partnered with higher unemployment and increased movement between jobs.

TECHNICAL NOTES

The Sample

Traditionally, the target population of the ACS Comprehensive Salary and Employment Status Survey is those ACS members who had mailing addresses in the U.S. and had neither student, retired, nor emeritus membership status. This year, the sample contained a general sample from the membership database that included any person on that database. The survey questionnaires were mailed to 20,000 by bulk mail on February 23, 1996. A follow-up mailing was sent to nonrespondents on March 23. By the May 19 cut-off date, over 10,500 usable questionnaires (54 percent of the original mailing) had been returned. By the time the data were returned, the weakness of the sample was apparent and steps were taken to "clean" the data by examining and comparing every respondent with his or her membership status. This was done by the assigned identification number, not by name or any other personal information. At all times the identification of the respondent is kept confidential.

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 (category 1 of Part 1, Question 3 of the questionnaire).

Nonchemist: A respondent whose category is other than chemistry or chemical engineering, as above.

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 from the labor force.

Respondents indicated their employment status, base annual salaries, and ages as of March 1, 1996.

Discrepancies Among Tables

Some pairs of tables contain totals that should be identical but are not. For example, two tables that represent information about PhD 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 PhDs according to specialty and the other 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 record showed no bias in terms of age, sex, employer, or geographic region. In addition, a telephone follow-up of 388 nonresponders to the 1991 survey showed the nonresponders' salaries were virtually the same as the responders. The mean salary for the responders was \$57,007; for nonresponders 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 was only 0.57). The percent in both groups that were unemployed was also the same -- 1.6%.

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Total Subordinates		
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Table 1.1.1

SALARIES of BS CHEMISTS employed FULL-TIME by EMPLOYER TYPE and YEARS SINCE BS 1996 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
T11.			-			
Industry Total	1505	E1 002	21 662	25 000	4E COO	CO 000
0-1	1585 76	51,082	31,662	35,000 24,000	45,600	60,000 34,943
2-4	263	33,472 33,333	36,266 26,188	26,250	29,570 31,308	36,000
5-9	282	39,915	8,831	33,800	39,380	45,000
10-14	247	50.454	40,720	41,100	47,000	55,000
15-19	216	57,205	15,284	47,190	56,275	65,204
20-24	180	58.447	34.166	44.650	54,425	67.000
25-29	118	69,598	28,551	53,000	64,500	79.040
30-34	95	67,816	19,623	55,000	65,000	80,000
35-39	60	78,629	38,508	54,430	65,830	92,500
40 or more	48	76,813	45.566	53.250	66,420	86,500
Government		70,010	10,000	00,200	00,120	
Total	142	46,494	15,390	35,007	45,675	57,500
5-9	20	38,686	9,288	30,600	37,896	47,069
10-14	21	38,935	12,190	32,000	36,171	45.154
15-19	28	49,095	15,212	38,439	47.358	59.958
20-24	19	48,874	13,391	38,090	48,326	56,000
25-29	20	57,179	13,255	43,906	58,000	64,939
Other Nonacademic						
Total	77	47,349	23,584	28,008	43,335	62,500
10-14	15	42,049	14,531	33,000	42,000	50,600
High School						
Total	23	28,901	9,366	24,000	28,000	30,000
College or						
University	0.0	00 4/-	47 700			40.055
Total	82	32,445	17,788	20,000	29,070	40,000
2-4	20	20,093	7,479	13,485	17,650	25,500
5-9	16	26,635	11,307	17,461	26,920	30,600

Table 1.1.2

SALARIES of MS CHEMISTS employed FULL-TIME by EMPLOYER TYPE and YEARS SINCE BS 1996 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile	
Industry							
Total	858	62,476	37,020	46,800	57,328	70,620	
2-4	26 111	34,506	7,311	26,888	34,750	40,901	
5-9	111	45,964	39,004	38,500	42,387	49,000	
10-14	147	50,756	11,100	44,600	50,000	56,971	
15-19	147	59,201	14,341	48,300	58,510	66,500	
20-24	150	66,011	17,846	55,000	63,930	76,000	
25-29	124	77,816	71,807	58,250	67,253	80,000	
30-34	9 0	76,284	32,127	60,000	72,000	84,250	
35-39	39	80,928	31,606	62,600	72,000	97,200	
40 or more	124 90 39 24	77,866	17,134	67,750	77,400	88,000	
Government							
Total	9 6	51,837	13,562	43,015	51,539	59,430	
15-19	17 18	52,902	11,371	44,668	53,500	60,500	
20-24	18	52,071	11,088	43,750	52,683	58,276	
25-29	18	56,258	9,998	50,966	54,164	62,000	
Other Nonacademic							
Total	67	57,360	33,562	35,000	55,000	71,000	
30-34	17	80,685	49,338	42,000	69,200	110,000	
High School							
Ťotal	67	45,293	14,329	33,000	44,000	56,000	
25-29	67 16	48,828	14,470	40,776	48,915	57,643	
30-34	15	48,593	16,209	36,500	45,000	57,540	
College or							
University							
Total	103	39,203	13,542	30,000	38,530	50,029	
25-29	1 8	42,576	14,544	31,000	38,829	53,102	
30-34	1 8 2 1	42,884	13,292	34,000	44,042	52,957	

Table 1.1.3

SALARIES of PhD CHEMISTS employed FULL-TIME by EMPLOYER TYPE and YEARS SINCE BS 1996 ACS Salary Survey

	1550 ACS Salary Survey							
	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile		
Industry								
Total	2224	82,146	39,046	63,300	75,000	91,000		
5-9	117	56,921	8,360	53,000	58,000	61,800		
10-14	462	66,087	34,250	58,000	63,081	69,700		
10-14 15-19	415	74,593	16,172	65,000	73,000	83,000		
	343	84.955	38,903	70,519	80,200	92,000		
20-24	323	96,054	56,419	74,000	89,000	102,000		
25-29	323 323	98,587	39,254	77,580	91,925	110,000		
30-34	323 144	94,220	35,784	70,160	91,150	106,000		
35-39	144 97		33,700	70,100	88,000	103,881		
40 or more	97	92,460	33,700	72,000	00,000	103,001		
Government	200	71 146	10 024	E7 7/17	68.729	84,000		
Total	299	71,146	19,834	57,747	53,950	64,000		
10-14	39	55,276	10,072	48,491	61,000	66,000		
15-19	36	59,269	12,506	54,332	76,008	84,000		
20-24	38	76,208	14,170	65,000				
25-29	43	71,407	15,042	59,473	73,261	84,000		
30-34	66	78,938	19,984	63,442	75,965	95,000		
35-39	39	77,730	18,167	64,000	75,000	87,360		
40 or more	26	87,057	22,605	61,679	93,221	98,500		
Other Nonacademic	1.46	04 040	E7 20C	F2 000	CO 0E0	04 526		
Total	146	84,040	57,306	52,000	69,850	94,536		
10-14	15	49,501	14,973	40,000	50,250	60,000 73,000		
15-19	22	65,168	26,516	50,890	63,500			
20-24	19	67,826	25,180	53,494	68,952	81,600		
25-29	21	79,383	51,565	59,100	70,000	78,000 112,260		
30-34	33	99,964	56,917	65,000	92,000			
35-39	19	80,995	36,159	50,000	67,000	100,000		
High School	1.0	44 000	11 570	26 050	40 500	E0 000		
Total	16	44,089	11,578	36,850	42,500	50,000		
College or								
_University		61 005	40.040	40 500	FO COO	70 100		
Total	1406	61,225	42,842	40,500	52,600	70,100		
5-9	89	35,634	9,251	30,000	35,000	40,600		
10-14	213	44,450	46,380	33,895	38,000	45,495		
15-19	171	54,688	58,486	40,000	45,690	53,000		
20-24	140	56,987	22,965	41,062	51,150	64,400		
25-29	187	66,179	50,903	45,000	56,400	77,000		
30-34	255	70,219	44,034	49.350	61,200	79,277		
35-39	217	70,770	26,424	52,919	66,104	82,000		
40 or more	134	78,170	30,496	60,000	72,000	92,500		

Table 2.1.1

SALARIES of INDUSTRIAL CHEMISTS employed FULL-TIME by DEGREE and YEARS SINCE BS 1996 ACS Salary Survey

				•			
	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile	
BS			-				
Total	1585	51,082	31,662	35,000	45,600	60,000	
0-1	76	33,472	36,266	24,000	29,570	34,943	
2-4	263	33,333	26,188	26,250	31,308	36,000	
5-9	282	39,915	8,831	33,800	39,380	45,000	
10-14	247	50,454	40,720	41,100	47,000	55,000	
15-19	216	57,205	15,284	47,190	56,275	65,204	
20-24	180	58,447	34,166	44,650	54,425	67,000	
25-29	1 18	69,598	28,551	53,000	64,500	79,040	,
30-34	95	67,816	19,623	55,000	65,000	80,000	
35-39	60	78,629	38,508	54,430	65,830	92,500	
40 or more	48	76,813	45,566	53,250	66,420	86,500	
MS							
Total	858	62,476	37,020	46,800	57,328	70,620	
2-4	26	34,506	7,311	26,888	34,750	40,901	
5-9	1 11	45,964	39,004	38,500	42,387	49,000	
10-14	1 47	50,756	11,100	44,600	50,000	56,971	
15-19	147	59,201	14,341	48,300	58,510	66,500	
20-24	1 50	66,011	17,846	55,000	63,930	76,000	
25-29	1 24	77,816	71,807	58,250	67,253	80,000	
30-34	90	76,284	32,127	60,000	72,000	84,250	
35-39	39	80,928	31,606	62,600	72,000	97,200	
40 or more	24	77,866	17,134	67,750	77,400	88,000	
PhD							
Total	2224	82,146	39,046	63,300	75,000	91,000	
5-9	117	56,921	8,360	53,000	58,000	61,800	
10-14	462	66,087	34,250	58,000	63,081	69,700	
15-19	415	74,593	16,172	65,000	73,000	83,000	
20-24	343	84,955	38,903	70,519	80,200	92,000	
25-29	323	96,054	56,419	74,000	89,000	102,000	
30-34	323	98,587	39,254	77,580	91,925	110,000	
35-39	144	94,220	35,784	70,160	91,150	106,000	
40 or more	97	92,460	33,700	72,000	88,000	103,881	
	I						

Table 2.1.2

SALARIES of MEN CHEMISTS employed FULL-TIME in INDUSTRY by DEGREE and YEARS SINCE BS
1996 ACS Salary Survey

1990 ACS Salary Survey										
,	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile				
BS										
Total	1115	54,161	29,733	37,100	49,000	64,000				
0-1	40	30,043	8,356	23,720	30,000	33,750				
2-4	144	35,133	34,783	27,805	31,716	36,250				
5-9	168	39,713	9,510	33,098	39,000	44,850				
10-14	168	48,908	11,741	41,950	48,550	55,298				
15-19	171	58,116	15,661	48,000	56,567	65,500				
20-24	152	59,532	36,625	45,000	54,000	69,200				
25-29	98	72,499	29,769	55,200	66,374	80,000.				
30-34	80	69,262	19.723	55,700	65,500	80,000				
35-39	49	82,076	40,374	56,210	68,000	93,000				
40 or more	45	79,691	45,460	62,000	68,000	88,000				
MS		,	,	02,000	55,555	00,000				
Total	644	63,351	22,637	48,980	60,000	74,805				
5-9	71	42,755	8,755	38,700	44,000	49,000				
10-14	95	51,115	10,781	45,000	50,000	57,000				
15-19	115	61,555	13,987	52,500	60,000	68,000				
20-24	117	67,105	17,238	56,080	64,250	78,000				
25-29	106	69,104	21,922	58,000	66,910	80,000				
30-34	73	77,131	31,739	62,000	72,000	84,250				
35-39	34	85,405	30,856	65,460	81,960	100,000				
40 or more	21	80,759	15,918	74,100	80,000	90,000				
PhD		00,.00		,	20,000	55,555				
Total	1929	83,529	39,507	64,692	76,500	92,432				
5-9	85	57,750	8,376	54,000	58,500	62,175				
10-14	363	65,172	28,074	57,500	63,400	70.050				
15-19	358	74,298	15,984	65,000	73,000	83,000				
20-24	297	86,009	41.193	70,750	80,950	92,000				
25-29	297	97,202	58,160	75,000	89,280	102,240				
30-34	303	99.692	39,908	78,900	92,512	111,200				
35-39	138	94,454	34,900	70,896	91,325	106,000				
40 or more	- 88	94,402	34,353	72,500	88,900	112,955				

Table 2.1.3

SALARIES of WOMEN CHEMISTS employed FULL-TIME in INDUSTRY by DEGREE and YEARS SINCE BS 1996 ACS Salary Survey

			•	•			
	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile	
BS							
Total	456	43,417	35,111	31,697	39,500	49.000	
0-1	36	37,281	52,078	24,323	28,600	35,050	
2-4	1 18	31,206	6,921	25,925	31,254	36,000	
5-9	1 13	40,020	7,510	34,890	40,000	46,000	
10-14	78	53,688	70,583	39,000	45,000	54,200	
15-19	41	53,816	13,517	45,000	54,400	63,500	
20-24	27	52,944	14,055	38,025	55,000	65,400	
25-29	19	55,407	15,894	45,000	56,000	66,000	
MS							
Total	206	59,730	64,020	40,200	49,720	62,600	
5-9	40	51,660	64,041	36,930	41,750	48,550	
10-14	50	50,268	11,907	42,000	50,000	54,995	
15-19	31	50,571	12,608	42,000	46,500	61,250	
20-24	33	62,132	19,645	50,000	60,000	68,000	
25-29	15	139,660	192,214	60,000	67,426	103,000	
30-34	16	72,378	35,623	48,425	70,850	85,150	
PhD	272	70 500	25 500	CO 000	CC 000	77 (00	
Total	273	72,599	35,509	60,000	66,000	77,600	
5-9	32 95	54,721 69,107	8,032 51,930	50,600 58,500	56,900 62,580	59,604	
10-14 15-19	53	76,533	17,306	65,000	72,800	67,200 82,680	
20-24	43	78,440	17,300	66,027	78,000	89,880	
25-29	22	82,710	26,656	64,000	77,120	95,000	
30-34	17	82,710	22,466	69,700	72,100	99,000	
00°0 1	1'	02,000	22,700	05,700	72,100	33,000	

Table 2.2.1

SALARIES of BS CHEMISTS employed FULL-TIME in INDUSTRY by TOTAL SUBORDINATES and YEARS SINCE BS 1996 ACS Salary Survey

	•							
	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile		
Subordinates								
None ·								
Total	35	41,076	14,191	29,000	40,800	48,000		
1-2								
Total	194	49,923	19,598	36,500	46,750	58,400		
2-4	27	32,776	7,261	27,850	31,950	39,500		
5-9	40	39,979	9,172	34,650	40,256	45,900		
10-14	33	48,104	9,736	42,000	50,000	54,216		
15-19	23	58,072	13,902	48,000	55,000	64,550		
20-24	19	51,250	17,449	44,000	50,000	63,602		
25-29	18	60,511	15,268	46,500	61,200	72,050		
3-9								
Total	1282	49,902	31,739	34,500	45,000	58,452		
0-1	67	34,148	38,549	24,000	29,640	35,000		
2-4	222	33,604	28,333	26,500	31,375	36,000		
5-9	230	39,698	8,498	33,675	39,000	45,000		
10-14	202	50,576	44,769	40,200	46,234	55,000		
15-19	179	56,348	15,062	46,471	56,000	65,000		
20-24	147	58,174	36,463	44,429	54,850	65,600		
25-29	86	67,812	22,376	54,500	65,140	78,000		
30-34	74	67,474	17,000	55,300	64,737	79,000		
35-39	42	68,713	31,127	51,000	62,552	81,000		
40 or more	33	76,702	40,134	62,000	66,840	88,000		
10-14								
Total	56	65,680	26,069	45,000	64,500	88,500		
15-29								
Total	18	121,636	65,086	70,200	107,500	135,000		

Table 2.2.2

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

1996 ACS Salary Survey

25th 50th 75th Count Mean Std Dev %-ile %-ile %-ile EMPLOYER SIZE Less than 500 Tota1 512 44,756 22,834 30,590 40,000 53,000 0 - 131 26,073 7,318 21,000 25,500 30,000 2-4 103 28,848 24,960 28,980 5,692 32,030 5-9 37,482 91 10,091 31,000 36,500 42,000 10-14 86 47,087 12,407 38,400 46,550 54,950 54,098 15-19 67 15,925 43,000 51,840 65,000 20-24 55 48,058 15,424 39,000 45,000 53.000 25-29 22 61,358 28,100 55,818 43,486 70,000 22 30-34 61,182 21,527 49.000 59.000 69,060 21 35-39 79,675 48,406 54,000 62,604 92,000 500 to 2,499 Total 321 51,303 35.813 34.000 43,368 59,400 5β 65 2-4 39,972 56,278 28,500 32,000 35,000 5-9 38,832 8,866 32,000 37,500 42,500 10-14 49 46,301 11,878 36,780 44,694 52,000 15-19 43 54,573 12,602 45,812 52.800 62,600 20-24 32 59,772 18,936 46,215 58.100 71,500 79,270 71,224 25-29 63,515 62,500 24 33,506 50,000 21 61,276 21,758 30-34 45.000 75,000 2,500 to 9,999 275 Total 54.912 24.605 39,600 50,000 65,000 2-4 30.000 34 35,144 8.173 35,500 40,000 43 5-9 42,034 36,250 40,000 7,906 47,100 47 48,154 10-14 9,461 42,000 48,876 55,596 36 15-19 58,452 13,750 49,550 56,664 65,670 20-24 41 58,075 19,990 46,125 56,880 68,100 25-29 27 73,450 35,772 55,764 66,500 78.000 30-34 15 71,599 14,395 63,000 69.000 85,000 10,000 to 24,999 35,826 Total 158 56,009 40.004 50.082 63.900 20 27 34,638 2-4 8,500 29,442 35.680 39.350 5-9 41,692 5,162 38.100 41,160 46,000 10-14 27 49,969 44,100 8,657 48,360 57.000 21 15-19 62,095 15,536 55,000 57,985 63.900 20-24 24 77,424 80,242 48,219 63,850 70,487 25,000 or more 302 Total 56,076 40,834 39,500 50,350 65,400 0-1 17 30,554 6,961 28,000 30,000 34,800 2-4 47 33,824 8,549 38,500 46,300 28,500 34,368 5-9 54 42,387 7,117 38,000 43,000 34 69,971 105,267 10-14 45,600 51,213 55,000 59,000 15-19 47 61,208 15,991 50,500 71,000 20-24 28 14,898 61,616 53,020 58,314 69,300 25-29 35 71,778 22,091 56,000 70,000 83,000 75.670 30-34 24 16,926 60,827 70,000 90,000

Table 2.3.1

SALARIES of MS CHEMISTS employed FULL-TIME in INDUSTRY by TOTAL SUBORDINATES and YEARS SINCE BS 1996 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
Subordinates						
None .						
Total	15	54,830	16,618	41,460	53,287	68,600
1-2						
Total	120	58,167	18,265	46,150	57,330	70,100
10-14	23	47,165	12,637	37,500	48,500	55,776
15-19	23	60,643	15,766	49,740	58,740	71,000
20-24	25	62,077	14,184	55,000	60,191	71,000
25-29	17	58,665	22,621	49,400	55,000	66,400
3-9						
Total	681	61,527	38,295	46,500	56,971	70,000
2-4	25	34,126	7,196	26,888	32,500	40,200
5-9	99	46,927	41,026	38,600	43,000	49,200
10-14	118	51,476	10,710	45,000	50,000	57.000
15-19	114	58,551	14,106	48,000	57,880	65,500
20-24	119	66,050	17,218	54,350	64,000	76,000
25-29	99	80,488	78,932	60,000	68,552	80,520
30-34	66	71,808	20.812	60,000	72,000	80,300
35-39	25	74,589	22,785	62,600	69,000	88,360
40 or more 10-14	16	76,245	15,079	67,320	78,400	85,237
Total	30	81,028	36,407	57,200	67,300	99,500

Table 2.3.2

SALARIES of MS CHEMISTS employed FULL-TIME in INDUSTRY by EMPLOYER SIZE and YEARS SINCE BS 1996 ACS Salary Survey

	•							
	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile		
EMPLOYER SIZE								
Less than 500								
Total	205	56,456	26,544	40,000	50,000	68,000		
5-9	24	36,703	7,092	32,795	37,980	42,000		
10-14	33	47,745	13,710	38,000	45,000	56,971		
15-19	38	55,261	13,468	45,720	55,825	65,000		
20-24	34	61,738	17,418	48,960	60,500	68,000		
25-29	28	59,104	24,630	45,404	59,000	77,500		
30-34	19	76,843	50,958	42,000	63,000	100,000		
500 to 2,499								
Total	155	60,194	37,620	45,000	54,600	65,000		
5-9	27	56,950	77,727	38,600	43,400	50,000		
10-14	28	47,297	12,158	38,868	46,120	52,370		
15-19	30	58,197	14,720	48,000	54,800	61,200		
20-24	32	62,015	15,362	50,980	60,095	66,000		
25-29	17	76,326	25,376	64,000	68,400	80,000		
2,500 to 9,999	1-0	65 105	01 740	50.000	60 500	75 000		
Total	153	65,105	21,743	50,000	62,500	75,000		
10-14	26	53,859	10,747	46,000	49,670	62.500		
15-19	31	61,735 69,728	17,477 15,078	50,000 53,100	62,000 70,000	71,000 79,500		
20-24 25-29	23 27	73,575	23,250	56,650	64,850	92,000		
30-34	22	77,213	29,230	63,000	73,000	81,592		
10,000 to 24,999	22	11,213	L3,3/1	00,000	70,000	01,032		
Total	119	62,542	18,561	49,200	57,000	70,200		
10-14	28	54,247	7,057	48,550	53,000	57,000		
15-19	16	60,773	12,281	52,150	57,410	65,285		
20-24	24	69,504	20,663	53,818	66,000	79,000		
25,000 or more			•	•				
Total	221	68,104	55,695	50,000	60,000	74,731		
5-9	31	46,118	9,430	41,460	47,500	51,000		
10-14	32	51,311	9,009	46,880	53,144	54.372		
15-19	31	62,210	11,793	55,000	61,000	70,450		
20-24	36	69,088	19,401	57,773	64,375	78,000		
25-29	38	97,672	123,604	63,000	68,563	78,300		
30-34	26	75,038	19,518	63,000	74,913	79,200		

Table 2.4.1

SALARIES of PhD CHEMISTS employed FULL-TIME in INDUSTRY by TOTAL SUBORDINATES and YEARS SINCE BS 1996 ACS Salary Survey

		75,839 44,396 61,150 69,523 81,950 24 56,349 9,538 51,800 56,800 61,500 28 63,317 8,160 57,650 62,610 68,140 29 68,838 12,940 60,250 67,524 77,500 20 82,967 53,927 65,000 74,000 88,000 20 82,967 53,927 65,000 74,000 88,000 21 86,467 33,677 67,022 82,150 99,000 22 86,300 21,201 71,400 87,540 98,000 23 79,597 33,418 63,400 75,000 90,000 24 56,300 58,000 61,517					
	Count	Mean	Std Dev				
Subordinates							
1-2							
Total	402		44,396	61,150			
5-9	24	56,349	9,538	51,800			
10-14	108	63,317	8,160	57,650	62,610	68,140	
15-19	84	68,838	12,940	60,250	67,524	77,500	
20-24	50	82,967	53,927	65,000	74,000	88,000	
25-29	48	99,179	99,554	71,460	77,970	90,000	
30-34	51		33,677	67,022		99,000	
35-39	18	86.438		68.800	72.494	94,500	
40 or more	19					98.000	
3-9							
Total	1639	79.597	33.418	63,400	75.000	90.000	
5-9	89						
10-14	344	66,895	39,312	58,000	63,514	70,075	
15-19	313	75,168	15,453	66,000	73,800	84,500	
20-24	272	83,388	35,670	71,000	80,490	90,114	
25-29	229	89.672	42,276	74,000	88,000	100,000	
30-34	222	92,212	25,749	75,024	89,678	105,000	
35-39	104	88,461	25,392	70,160	90,000	100,574	
40 or more	66	90,123	32,610	70,000	88,900	103,000	
10-14		30,120	02,020	, ,,,,,,	,		
Total	110	108.628	40.040	81,686	100,000	128,077	
25-29	27	107,095	30,775	83,000	99,960	129,700	
30-34	25	123,733	43,966	93,000	114.660	149,000	
35-39	17	122,825	56,635	100,000	110,000	138,240	
15-29		122,020	00,000	200,000	,	200,270	
Total	60	147,618	62,353	105,125	132,500	174,000	
25-29	17	158,176	54.051	119,000	135,000	200,000	
30-34	23	161,094	75,014	119,808	135,000	181,000	
33 3 .	_0	,	,	,	, - 3 0	,	

Table 2.4.2

SALARIES of PhD CHEMISTS employed FULL-TIME in INDUSTRY by EMPLOYER SIZE and YEARS SINCE BS 1996 ACS Salary Survey

		2000 1100 521213						
	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile		
EMPLOYER SIZE Less than 500 Total 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40 or more 500 to 2,499	431	81,016	52,380	56,000	70,000	90,000		
	19	53,401	9,220	48,500	50,850	62,000		
	86	66,287	56,188	51,000	58,550	67,000		
	76	71,433	20,042	56,813	70,000	82,400		
	66	84,782	55,564	63,400	72,750	90,080		
	58	98,822	79,989	62,700	86,453	105,000		
	59	98,122	42,582	72,000	85,000	120,000		
	40	88,515	53,335	55,000	70,984	99,000		
	27	78,394	27,138	58,416	74,500	100,000		
Total 5-9 10-14 15-19 20-24 25-29 30-34 35-39 2,500 to 9,999	312	80.119	45.454	61.000	72,000	88,130		
	18	52.172	13.364	49.000	53,816	60,000		
	65	69.638	61.950	56.000	61,000	68,280		
	53	69.796	13.743	63.000	69,000	75,960		
	50	78.239	20.640	66.027	78,167	85,500		
	48	91.509	57.507	68.710	81,575	94,738		
	46	98.080	53.204	70.745	86,000	105,000		
	21	97.965	32.324	75.000	96,000	116,292		
Total 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40 or more	402	80,744	39.158	63,000	74,994	88.400		
	19	57,326	5.259	54,000	57,000	60.000		
	86	64,098	10.167	58,000	62,750	69.300		
	84	75,031	13.607	65,500	74,994	81.593		
	53	83,553	22.256	70,533	81,000	92.432		
	64	102,271	79.460	75,000	85,650	102.300		
	53	90,511	34.309	71,000	82,400	105.000		
	25	88,796	24.511	68,712	87,840	100.000		
	18	86,898	31.286	64,500	89,500	96.000		
10,000 to 24,999 Total 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40 or more	333	81,464	27.174	66,000	75.024	89,500		
	16	60,103	3.567	57,620	60.050	62,088		
	69	64,234	8.863	59,575	64.575	70,050		
	59	73,556	14.870	65,000	72.000	81,000		
	59	82,701	18.426	72,390	80.900	89,000		
	42	88,354	28.735	74,160	83.437	90,400		
	53	97,870	35.625	82,680	92.500	101,400		
	18	100,637	28.142	85,200	97.148	113,300		
	17	106,177	42.554	84,000	90.000	102,200		
25,000 or more Total 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40 or more	737 43 155 140 115 111 110 39 24	84,836 58,549 66,383 78,105 89,776 95,901 103,611 99,807 105,157	30.756 6.118 8.544 16.011 46.383 24.641 34.463 21.014 34.148	66,500 54,500 61,800 69,250 75,000 81,000 85,000 85,200 83,748	80,000 58,500 65,000 75,300 85,000 92,000 100,000 98,000 95,750	96,000 61,860 70,608 86,050 96,000 117,000 110,000 119,000		

Table 3.1.1

SALARIES of PhD ACADEMIC CHEMISTS employed FULL-TIME by CONTRACT STATUS and RANK 1996 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
9-10 month			<u></u>			
Full professor	462	67,190	33,532	52.240	62,000	74,745
Assoc professor	188	47.918	30,784	38,656	45,000	51,046
Asst professor	208	40.014	14.696	34,942	38,483	42,000
Instructor	33	37,926	17.042	28.766	32,200	40,000
11-12 month	-	,				
Full professor	214	95,011	34,488	72,000	89,353	110,000
Assoc professor	57	72,263	82,890	50.000	60,000	69,000
Asst professor	54	50.276	14,087	42.000	50,000	59,410
Instructor	28	51,791	30,456	33.000	47,039	56.250
Research appt	108	41.859	42.653	26,940	32,162	48,000
Other nonfaculty	42	48.786	18,359	33.467	44,445	65,084

Table 3.2.1

SALARIES of PhD ACADEMIC CHEMISTS employed FULL-TIME
by RANK and INSTITUTIONAL CONTROL - 9 or 10 Month Contract
1996 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
Public						
Full professor	310	68.335	38.200	54,000	62,733	74.120
Assoc professor	110	50.557	39,378	40,300	45,149	52,400
Asst professor	124	39.702	6.154	35.100	39,200	42,774
Instructor	22	34,527	10,003	28,000	30,660	40,000
Private		•			•	•
Full professor	151	64,753	20,971	50,040	61,000	76,325
Assoc professor	76	44.280	9.161	36,500	43,673	50.880
Asst professor	84	40,474	21,958	33,500	37,683	42,000

Table 3.2.2

SALARIES of PhD ACADEMIC CHEMISTS employed FULL-TIME
by RANK and INSTITUTIONAL CONTROL - 11 or 12 Month Contract
1996 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
Public						
Full professor	148	90,935	26,806	71,646	86,750	103,578
Assoc professor	35	76,429	103,242	51,000	61,500	65,975
Asst professor	30	51,963	15,882	45,000	50,000	56,250
Instructor	20	47,667	21,813	30,750	42,312	54,750
Research appt	68	44,580	52,681	26,000	32,445	49.864
Other nonfaculty	23	46,602	18,204	32,008	44.600	61,818
Private						
Full professor	63	104,754	47,316	72,400	100,000	135,000
Assoc professor	22	65,636	31,458	39,500	53,500	87,000
Asst professor	24	48,166	11,441	38,000	49,155	59,705
Research appt	38	37,654	13,971	28,000	32,663	45,000
Other nonfaculty	19	51,430	18,687	36,000	44.290	72,000

Table 3.3.1

SALARIES of PhD ACADEMIC CHEMISTS employed FULL-TIME by RANK and TYPE OF INSTITUTION - 9 or 10 Month Contract 1996 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
NonPhD-granting						
Full professor	249	59,268	40,059	48,500	56,451	64,145
Assoc professor	112	42.341	8,204	36,475	40,900	47,000
Asst professor	126	38.147	17,883	34,000	36,055	39,970
Instructor	20	36,456	12,819	28,241	31,660	39,150
PhD-granting			•			
Full professor	209	76,224	20,230	61,000	73,400	88,488
Assoc professor	75	56.194	46,659	44,000	49,000	56,237
Asst professor	82	42,883	6,681	39.000	42,000	45,000

Table 3.3.2

SALARIES of PhD ACADEMIC CHEMISTS employed FULL-TIME by RANK and TYPE OF INSTITUTION - 11 or 12 Month Contract 1996 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
NonPhD-granting					42 022	04.000
Full professor	46	70,206	22,892	55,000	67,877	84,000
PhD-granting		404 507	00 004	70 077	00 000	117 000
Full professor	97	101,537	33,934	79,277	92,000	117,000
Assoc professor	29	79,873	113,857	51,000	60,000	63,228
Asst professor	23	47,284	11,125	43,500	48,000	51,384
Instructor	18	57,363	35,511	33,000	51,289	68,154
Research appt	93	42,521	45.541	26,200	33,000	48,000
Other nonfaculty	34	47.011	16.960	33,467	43.658	60,660
Medical school	•	,	,	,	•	•
Full professor	71	102,166	34,466	79,000	98,000	115,000
Assoc professor	18	74,139	24,533	54,875	64,500	93,000
Asst professor	23	58,015	14,168	49.534	59,000	61,000

Men

Women

Assoc professor

Asst professor

Full professor

Asst professor

Assoc professor

Instructor

Table 3.4.1

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

142

133

21

44

46

73

1996 ACS Salary Survey 25th 50th 75th Count Mean Std Dev %-ile %-ile %-ile Full professor 413 68,389 34,942 53,686 63,000 76,000

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32,000

54,232

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42,000

36,000

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49,000

42,500

49,241

40,980

36,261

55,975

43,834

38,203

Table 3.4.2	
	SALARIES of PhD ACADEMIC CHEMISTS employed FULL-TIME
	by RANK and SEX - 11 or 12 Month Contract
	1996 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
Men						
Full professor	198	94,957	34,220	72,000	90.000	110,000
Assoc professor	53	74,958	85,364	51,000	61,000	69,825
Asst professor	43	51,502	13,890	43,500	50,000	59,939
Instructor	19	57,632	34,628	28,500	52,750	70,000
Research appt	83	43,561	47,875	26,200	32,890	50,000
Other nonfaculty	30	52,841	19,143	39,500	49,000	68,000
Women						.,
Research appt	25	36,210	15,380	27,000	31,540	40,500

Table 4.1.1

STIPENDS of ACADEMIC POSTDOCTORAL FELLOWS
by INSTITUTIONAL CONTROL and WORK SPECIALTY
1996 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
WORK SPECIALTY						•
Biochemistry						
Total	37	25,294	4,179	22,500	25,000	28,044
Public	19	24,660	4,373	20,700	25,200	28,044
Private	18	25,964	3,977	22,500	25,000	28,950
Chemistry						
Total	105	26.519	20.162	22,000	24.000	27.000
Public	68	27,232	24.672	22,000	24,000	27.000
Private	37	25,208	6,222	23,850	25,000	27,000

Note: Categories with fewer than 15 cases are not shown.

Table 5.1.1

SALARIES of CHEMICAL ENGINEERS employed FULL-TIME in INDUSTRY by DEGREE and YEARS SINCE BS
1996 ACS Salary Survey

	Count	Mean	Std Dev	25th %-ile	50th %-ile	75th %-ile
HIGHEST DEGREE BS						
Total	105	60,463	24,289	47,700	58,800	69,480
2-4	15	36,425	8,796	26,250	36,250	42,000
10-14	18	60,774	12,151	58,000	61,589	66,000
20-24	18	66,136	20,224	51,500	59,820	71,900
MS						
Total	78	72,375	24,471	55,000	69,400	83,350
15-19	16	77,189	16,268	68,170	76,170	85,500
20-24	20	74,492	13,735	66,100	70,000	81,100
PhD						
Total	133	82,577	27,297	66,900	76,100	93,000
10-14	26	68,185	7,434	62,000	69,000	74.000
15-19	18	67,592	19,685	60,000	70,875	79,000
20-24	22	83,625	18.804	69.000	83,340	95,000
25-29	21	93,004	18,318	83.318	86,000	108,000
30-34	19	106.186	40.399	83.950	94.050	120,000

Note: Categories with fewer than 15 cases are not shown.

Table 6.1.1

EMPLOYMENT STATUS OF ALL CHEMISTS by EMPLOYER TYPE 1996 Survey of ACS Members

	EMPLOYMENT STATUS					Total	
	Full- time	Part- time	Postdoc	Seeking empl	Not seeking empl	No Answer	
EMPLOYER TYPE							
Industry	5006	50	22	170	100	0	5348
Row Percent	93.6%	.9%	. 4%	3.2%	1.9%	.0%	100.0%
Column Percent	63.8%	21.5%	9.3%	65.9%	49.0%	.0%	60.9%
Government	571	10	28	13	12	0	634
Row Percent	90.1%	1.6%	4.4%	2.1%	1.9%	.0%	100.0%
Column Percent	7.3%	4.3%	11.8%	5.0%	5.9%	.0%	7.2%
Other Nonacademic	334	54	6	28	27	1	450
Row Percent	74.2%	12.0%	1.3%	6.2%	6.0%	.2%	100.0%
Column Percent	4.3%	23.2%	2.5%	10.9%	13.2%	16.7%	5.1%
High School	113	10	0	2	9	0	134
Row Percent	84.3%	7.5%	.0%	1.5%	6.7%	.0%	100.0%
Column Percent	1.4%	4.3%	.0%	.8%	4.4%	.0%	1.5%
College or							
University	1710	106	174	38	39	2	2069
Row Percent	82.6%	5.1%	8.4%	1.8%	1.9%	.1%	100.0%
Column Percent	21.8%	45.5%	73.4%	14.7%	19.1%	33.3%	23.5%
No answer	115	3	7	7	17	3	152
Row Percent	75.7%	2.0%	4.6%	4.6%	11.2%	2.0%	100.0%
Column Percent	1.5%	1.3%	3.0%	2.7%	8.3%	50.0%	1.7%
Total	7849	233	237	258	204	6	8787
Row Percent	89.3%	2.7%	2.7%	2.9%	2.3%	.1%	100.0%
Column Percent	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Table 6.1.2

EMPLOYMENT STATUS OF ALL CHEMISTS by HIGHEST DEGREE 1996 Survey of ACS Members

	EMPLOYMENT STATUS					Total	
	Full- time	Part- time	Postdoc	Seeking empl	Not seeking empl	No Answer	
HIGHEST DEGREE							
BS	2012	65	14	77	75	1	2244
Row Percent	89.7%	2.9%	. 6%	3.4%	3.3%	. 0%	100.0%
Column Percent	25.7%	28.0%	5.9%	30.2%	37.1%	16.7%	25.6%
MS.	1337	53	9	41	47	1	1488
Row Percent	89.9%	3.6%	. 6%	2.8%	3.2%	. 1%	100.0%
Column Percent	17.1%	22.8%	3.8%	16.1%	23.3%	16.7%	17.0%
PhD	4474	114	214	137	80	4	5023
Row Percent	89.1%	2.3%	4.3%	2.7%	1.6%	. 1%	100.0%
Column Percent	57.2%	49.1%	90.3%	53.7%	39.6%	66.7%	57.4%
Total	7823	232	237	255	202	6	8755
Row Percent	89.4%	2.6%	2.7%	2.9%	2.3%	. 1%	100.0%
Column Percent	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Table 6.1.3

EMPLOYMENT STATUS OF ALL CHEMISTS by AGE 1996 Survey of ACS Members

			EMPLOYME	NT STATUS	3		Total	
	Full- time	Part- time	Postdoc	Seeking empl	Not seeking empl	No Answer		
 AGE 20-24 Row Percent Column Percent	181 84.2% 2.3%	12 5.6% 5.2%	6 2.8% 2.5%	8 3.7% 3.1%	8 3.7% 3.9%	. 0% . 0%	215 100.0% 2.4%	
25-29 Row Percent Column Percent	587 81.0% 7.5%	21 2.9% 9.0%	85 11.7% 35.9%	23 3.2% 8.9%	9 1.2% 4.4%		725 100.0% 8.3%	
30-34 Row Percent Column Percent	1079 87.2% 13.7%	25 2.0% 10.7%	96 7.8% 40.5%	23 1.9% 8.9%	15 1.2% 7.4%	. 0% . 0% . 0%	1238 100.0% 14.1%	
35-39 Row Percent Column Percent	1277 91.1% 16.3%	35 2.5% 15.0%	35 2.5% 14.8%	35 2.5% 13.6%	18 1.3% 8.8%	2 .1% 33.3%	1402 100.0% 16.0%	
40-44 Row Percent Column Percent	1189 93.0% 15.1%	33 2.6% 14.2%	6 .5% 2.5%	42 3.3% 16.3%	.6% 3.9%	. 0% . 0%	1278 100.0% 14.5%	
45-49 Row Percent Column Percent	1060 93.9% 13.5%	11 1.0% 4.7%	5 . 4% 2 . 1%	46 4.1% 17.8%	6 .5% 2.9%	1 .1% 16.7%	1129 100.0% 12.8%	
 50-54 Row Percent Column Percent	1064 93.4% 13.6%	19 1.7% 8.2%	.2% .8%	39 3.4% 15.1%	15 1.3% 7.4%	. 0% . 0%	1139 100.0% 13.0%	
55-59 Row Percent Column Percent	804 91.4% 10.2%	32 3.6% 13.7%	. 1% . 4%	25 2.8% 9.7%	17 1.9% 8.3%	1 .1% 16.7%	880 100.0% 10.0%	
60-64 Row Percent Column Percent	442 83.2% 5.6%	25 4.7% 10.7%	. 0% . 0%	14 2.6% 5.4%	48 9.0% 23.5%	2 . 4% 33 . 3%	531 100.0% 6.0%	
65-69 Row Percent Column Percent	164 66.4% 2.1%	20 8.1% 8.6%	. 4% . 4%	3 1.2% 1.2%	59 23.9% 28.9%	0 . 0% . 0%	247 100.0% 2.8%	
70 or more Row Percent Column Percent	2 66.7% .0%	.0% .0%	. 0% . 0%	. 0% . 0%	33.3% .5%	. 0% . 0% . 0%	3 100.0% .0%	
Total Row Percent Column Percent	7849 89.3% 100.0%	233 2.7% 100.0%	237 2.7% 100.0%	258 2.9% 100.0%	204 2.3% 100.0%	6 .1% 100.0%	8787 100.0% 100.0%	



American Chemical Society

1155 SIXTEENTH STREET, N.W. WASHINGTON, D.C. 20036 PHONE (202) 872-4534

JOHN K CRUM
Executive Director

February 23, 1996

Dear Colleague:

Each year, the American Chemical Society studies the salaries and economic status of the U.S. chemical profession by surveying a sample of its members. You are one of the 20,000 members I am asking to participate in this survey, conducted under the aegis of the Council Committee on Economic and Professional Affairs.

Your participation is an important service to your colleagues. As you know, a high response rate is needed to assure accurate results. Please take a few minutes now to complete the questionnaire and return it in the enclosed business reply envelope. Your responses are strictly confidential. Your name and address will not be coupled with the information you provide. A code is included only to enable us to cross your name off our follow-up list once we have received your completed questionnaire. The information you provide will be combined with that from other members and only the aggregate data will be available.

The findings will be reported to ACS members in several ways. Early in the summer, *Chemical & Engineering News* will publish a cover story on the salaries and employment status of chemists. At about the same time, the ACS will publish a detailed report entitled "Salaries 1996."

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

Thank you for your assistance.

John K Orum_

John K Crum

JKC/mwj

Enclosure



AMERICAN CHEMICAL SOCIETY

1996 Comprehensive Salary and Employment Status Survey

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

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EDUCATION AND EMPLOYMENT STATUS	4. Please enter your primary employment status as of March 1, 1996
What is the highest degree you have received to date: (Fill in one)	Choose the one category that best fits your situation. (Fill in one)
Less than Bachelor's Bachelor's Master's Doctorate Other (specify) (1) (2) (3) (4) (5)	Employed full-time (35 hours or more per week) ① Go to 5 Employed part-time ② Skip to 7 Postdoctoral or other fellowship ③ Skip to 7 Not employed but actively seeking employment ③ Skip to 6 Not employed and NOT seeking employment ⑤ Skip to 7
Please fill in the year for <u>each</u> degree you have earned.	5. If you are currently employed FULL-TIME, is your job permanent or temporary? (Fill in one)
Bachelor's Master's Doctorate 19 19 19 19 19 19 19 19 19 19 19 19 19 1	Permanent Temporary Agency temp Fixed term contract 6. If you were NOT EMPLOYED BUT ACTIVELY SEEKING EMPLOYMENT on March 1, 1996 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
The ONE specialty Field of most related to highest your current or degree most recent job	7. Regardless of your current status, was there any period when you were NOT EMPLOYED AND ACTIVELY SEEKING EMPLOYMENT in calendar year 1995? (Fill in one)
Chemical engineering (III)	① Yes ② No
Biotechnology ® ® General chemistry ® ®	IF YES, how many total months were you NOT EMPLOYED AND ACTIVELY SEEKING EMPLOYMENT during calendar year 1995? (Fill in one)
Agricultural/food chemistry	① Less than 1 month ③ 4 to 6 months ⑤ 12 months
Analytical chemistry ® ®	② 1 to 3 months ④ 7 to 11 months
Clinical chemistry	8. If you are CURRENTLY EMPLOYED, how long have you worked for your current employer? (Fill in one)
Materials science 10 10	① Less than 1 year ③ 5 to 9 years ⑤ 20 or more
Medicinal/pharmaceutical chemistry (11)	② 1 to 4 years ④ 10 to 19 years years
Organic chemistry	9. Do you do any consulting? (Fill in one) ① Yes ② No
Business administration ® ® Computer science ® 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	If yes, how many hours per month? (Fill in one) ① Less than 10 hrs ③ 20 - 39 hrs ⑤ 100 or more ② 10 - 19 hrs ④ 40 - 99 hrs

10. Whatene the first three digits of the ZIP CODE of your current	CURRENT INCOME AND JOB EVALUATION
or most recent place of employment?	In filling out questions, please follow example below
(1) (1) (1) (2) (2) (3) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	1. BASE ANNUAL SALARY from PRINCIPAL JOB as of March 1, 1996. (DO NOT INCLUDE bonuses, earnings from second job, or
333 434 535	work, summer teaching, or other supplemental earnings.) If or 10 month contract, report the 9 or 10 month salary rather an annualized salary.
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QUESTIONS ABOUT YOURSELF	M 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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① Male ② Female	X 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
2. Your age at last birthday before March 1, 1996:	900000
AGE	2. TOTAL PROFESSIONAL INCOME during calendar year (INCLUDE consulting fees, base annual salary, bonuses, ea from second job, overtime, summer teaching, and other supplemental earnings.)
(3) (4) (4) (5) (5) (6) (9) (7)	\$ 00000000 0000000 0000000 0000000
3. Your citizenship or visa status: (Fill in one)	333333 444343 55633
U.S. native U.S. naturalized U.S. permanent resident visa	000000 000000 000000 000000
Other visa	
4. What is your background? (Fill in one)	
African American American Indian or Alaskan Native	3. What was your SALARY LAST YEAR? Please indicate you annual salary from principal job as of March 1, 1995. (DO NOT INCLUDE bonuses, earnings from second job, over
Asian White Other Other	work, summer teaching, or other supplemental earnings.) If control or 10 month contract, report the 9 or 10 month salary rather an annualized salary.
A CONTRACTOR OF THE STATE OF TH	\$ 0000000 P
5. Are you of Hispanic origin or descent? (Fill in one)	000000 200000
① Yes ② No	333333
IF YOU ARE EMPLOYED, EITHER FULL-TIME OR PART- TIME, PLEASE ANSWER CURRENT INCOME AND JOB EVALUATION.	44444 533333 63666
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4. If you do any CONSULTING, what is your HOURLY RATE?	4. Have you been granted tenure? (Fill in one)
\$ per hour	Yes A Section 1998
000	Not tenured, in tenure track Not tenured, not in tenure track
(D)(D)(D)	Not Applicable
<u> </u>	5. Your basic contract is for a period of: (Fill in one)
(O)(O)(O)(O)(O)(O)(O)(O)(O)(O)(O)(O)(O)(① 9 or 10 months ② 11 or 12 months
<u></u> ගුගුගු	6. About what fraction of your total working time in the
000	academic year is devoted to: (Fill in all that apply)
@@ @	Teaching 01-25% 026-33% 034-50% 051-66% 067-75% 076-100% Research 01-25% 026-33% 034-50% 051-66% 067-75% 076-100%
5. What was your TOTAL CONSULTING INCOME during calendar year 1995?	Administration 1-25% 26-33% 34-50% 51-66% 67-75% 76-100%
\$ per year	Other 01-25% 026-33% 034-50% 051-66% 067-75% 076-100%
	B. CURRENT OR MOST RECENT EMPLOYMENT IS <i>NOT</i> IN AN ACADEMIC INSTITUTION.
@@@@@@ @@@@@@@	1. Current (or most recent) principal employer:
000000 000000 000000	Self-employed (19)
600000	Non-manufacturing:
	Analytical service laboratory Contract research firms
000000	Utility company Other non-manufacturing
CURRENT OR MOST RECENT PRIMARY JOB	
IF YOUR CURRENT OR MOST RECENT EMPLOYER IS NOT AN ACADEMIC INSTITUTION, GO TO SECTION B.	Manufacturing company primarily involved in: Aerospace
A. CURRENT OR MOST RECENT EMPLOYMENT IS IN AN ACADEMIC INSTITUTION.	Basic chemicals Specialty chemicals (B)
1. Current (or most recent) principal employer:	Agricultural chemicals Biochemical products
College or university where the highest degree offered in chemistry or chemical engineering is:	Coatings, paints, inks Electronics
Associate's	Food
Bachelor's Master's	Instruments Medical devices/diagnostic products
Doctorate (4)	Metals, minerals ®
Medical or professional school	Paper Personal care (III)
High school	Petroleum/natural gas Pharmaceuticals 20
2. Your employer is a: (Fill in one)	Plastics ② Rubber
① Public institution ② Private institution	Soaps, detergents, surfactants
	Other manufactures
3. Your academic rank: (Fill in one)	Government:
Full professor Associate professor ②	Federal (civilian) State or local 39
Assistant professor 3	Military
Visiting or adjunct professor, instructor, lecturer Non-teaching research appointment	Other nonacademic employer:
Other non-faculty My institution does not have ranks	Hospital, independent laboratory Non-profit organization, other research institution
and the second the second sec	Other employment 30
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(total for the whole organization):	5. Were you eligible for	or a bonus d	uring cal	endar 19	95?	
500 to 2,499 ②	① Yes	② No		③ No	ot applicabl	e
2,2500.to 9,999 10,000 to 24,999						
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THANK YOU FOR YOUR PARTICIPATION.
PLEASE RETURN THIS QUESTIONNAIRE IN THE ENVELOPE PROVIDED

FORM 2440 (1/96) 0987654321

Employment Data and Information Resources

Employment Data: ACS, Department of Career Services

•	Annual ACS Comprehensive Salary and Employment Status Survey					
•	Starting Salary Survey of New Graduates in Chemistry and Chemical Engineering					
•	All Member Survey					
•	Women Chemists Report					
	. available every five years					

Special Studies: ACS, available from Department of Career Services

- 1995 Employment Patterns of Recent Doctorates in Chemistry
- 1994 Current Trends in Chemical Technology, Business, and Employment

Journals, Magazines, and Newspapers

Chemical and Engineering News:

Salaries - annual in July

Employment Outlook - annual in October

Facts and Figures for the Chemical Industry - annual in June

- Chemical Week
- Today's Chemist at Work

General Employment Information Sources

Bureau of Labor Statistics

Occupational Outlook Handbook, 1996-97 - #2470

Occupational Projections and Training Data, 1996 - #2471

Employment Outlook: 1994-2005 - #2472

Career Guide to Industries, #2453

Employment Outlook Quarterly - Quarterly Bulletin

- National Academy of Science
- National Center for Education Statistics, U.S. Department of Education
- National Science Foundation

Science and Engineering Indicators, 1996, National Science Board

Commission of Professional in Science and Technology

Salaries of Scientists, Engineers, and Technicians, annual

Media Sources

Business Week Wall Street Journal New York Times Chronicle of Higher Education Forbes

OTHER ACS CAREER SERVICES PUBLICATIONS

Employer Mailing List is the mailing list used to solicit employers for ACS employment services. It is arranged by state, and can be purchased for \$10. Use of this mailing list is restricted to personal use only.

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 Membership Service Center 4000 Olson Memorial Highway PO Box 9389 Minneapolis, MN 55422-9389 Phone: 800/451-9190 or 612/520-6798

Fax: 612/520-6706

ON-LINE CAREER SERVICE EMPLOYMENT PROGRAMS

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

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.

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