

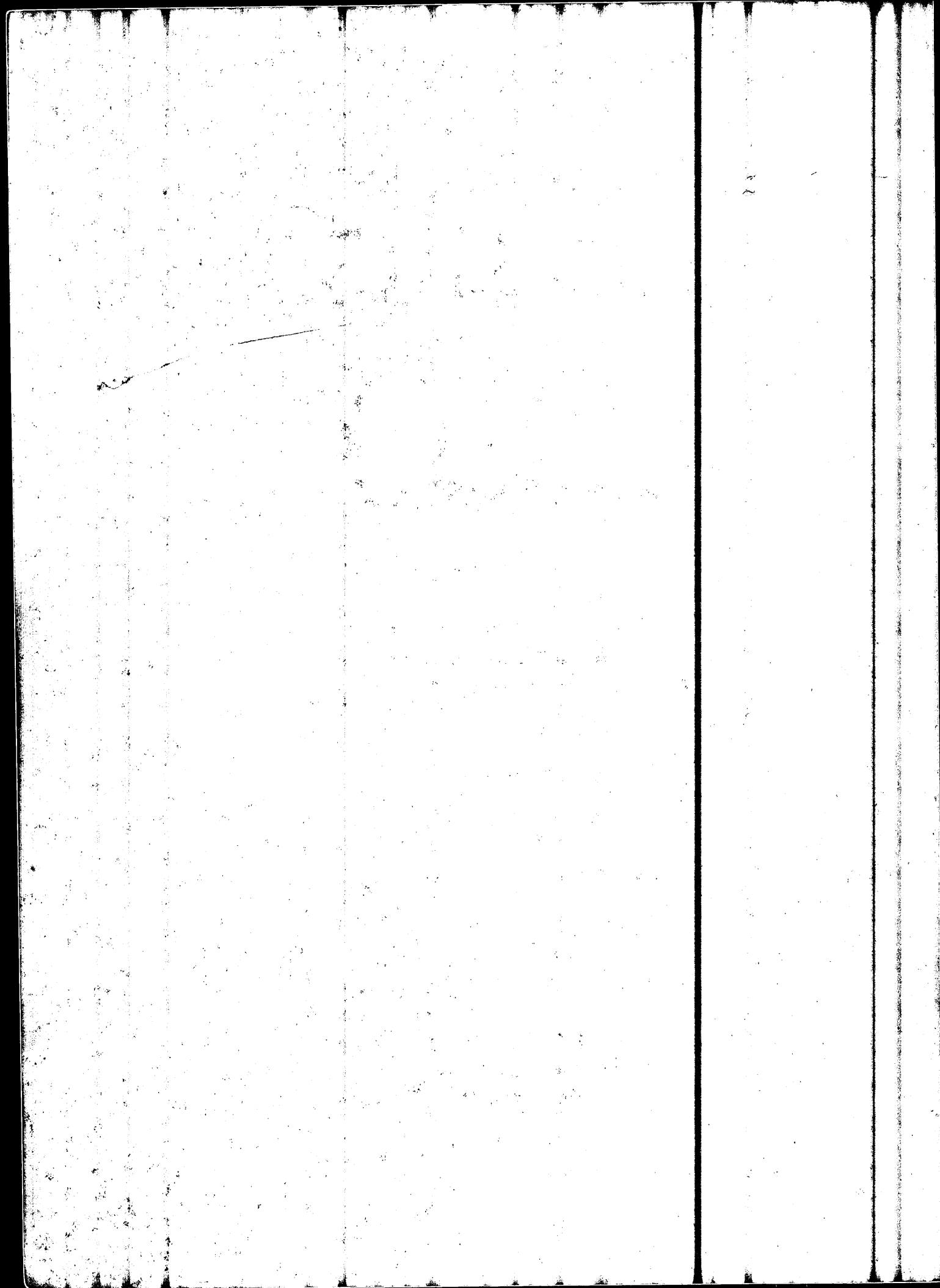
SALARIES

1980

Analysis of the
American Chemical Society's
1980 Survey of Salaries and Employment



Manpower Studies
American Chemical Society
Washington, D.C.



will be in the mail
Tue Feb 24

American Chemical Society



OFFICE OF THE
EXECUTIVE DIRECTOR

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

Raymond P. Mariella, *Executive Director*

February 25, 1981

Dear Member:

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

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

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

Thank you for your assistance.

Sincerely yours,

Raymond P. Mariella
Raymond P. Mariella

AMERICAN CHEMICAL SOCIETY

1981 COMPREHENSIVE SALARY AND EMPLOYMENT STATUS SURVEY

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

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

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

Employment status:

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

self-emp →

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

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

Gen Chem →

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

how does your employer classify your position? _____

E. Citizenship or visa status:

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

F. Racial or ethnic group:

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

size of company →

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

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

I. State of residence: _____

J. Please indicate your ACS local section:

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

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

K. Current (or most recent) principal employer:

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

L. Work function (Please check only one.):

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

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

Professionals _____ Technicians _____ Other _____

STOP. Please return this form in the envelope provided.

N. Current or most recent principal employer:

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

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

O. Rank:

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

P. Have you been granted tenure?

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

Q. My basic annual salary covers service for:

- 9-10 months 1[]
- 11-12 months 2[]

R. What percent of this basic annual salary comes from

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

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

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

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

Professional membership?

How representative
is AES membership
of chem. professors

(see GM's report)

for CEAL
for ES

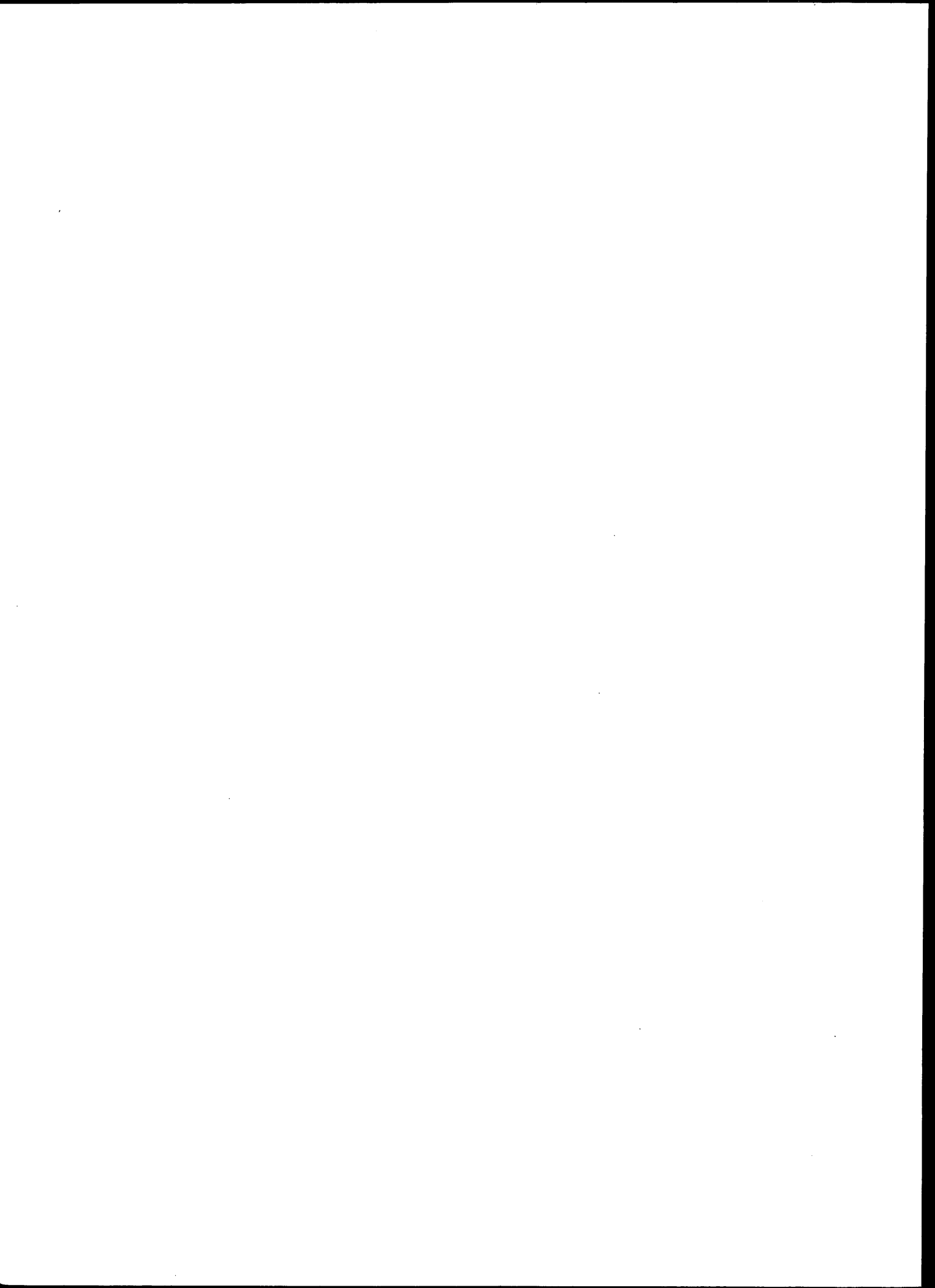
SALARIES 1980
ANALYSIS OF THE AMERICAN CHEMICAL SOCIETY'S
1980 SURVEY OF SALARIES AND EMPLOYMENT

This report was prepared by the
ACS Office of Manpower Studies

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

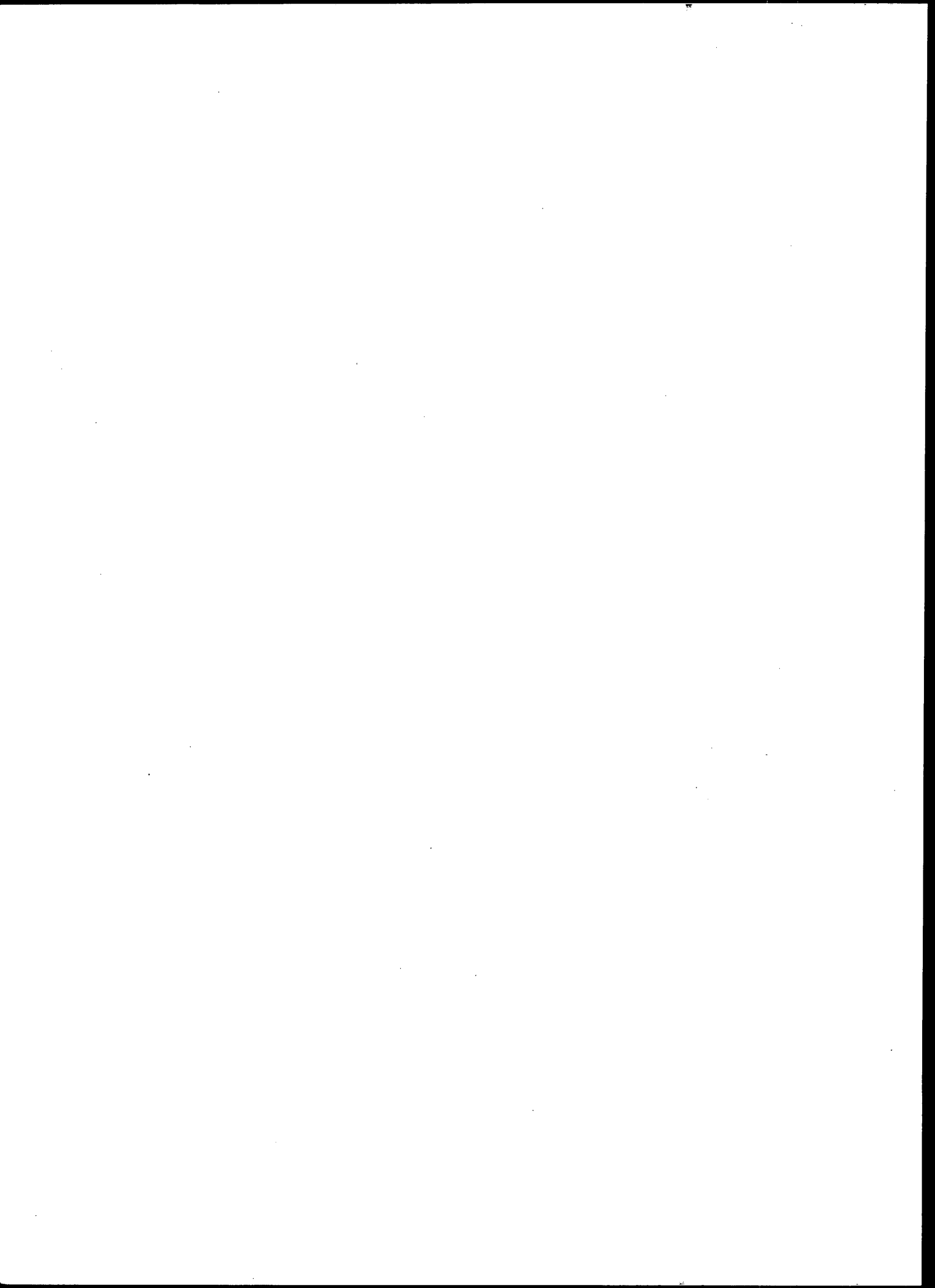
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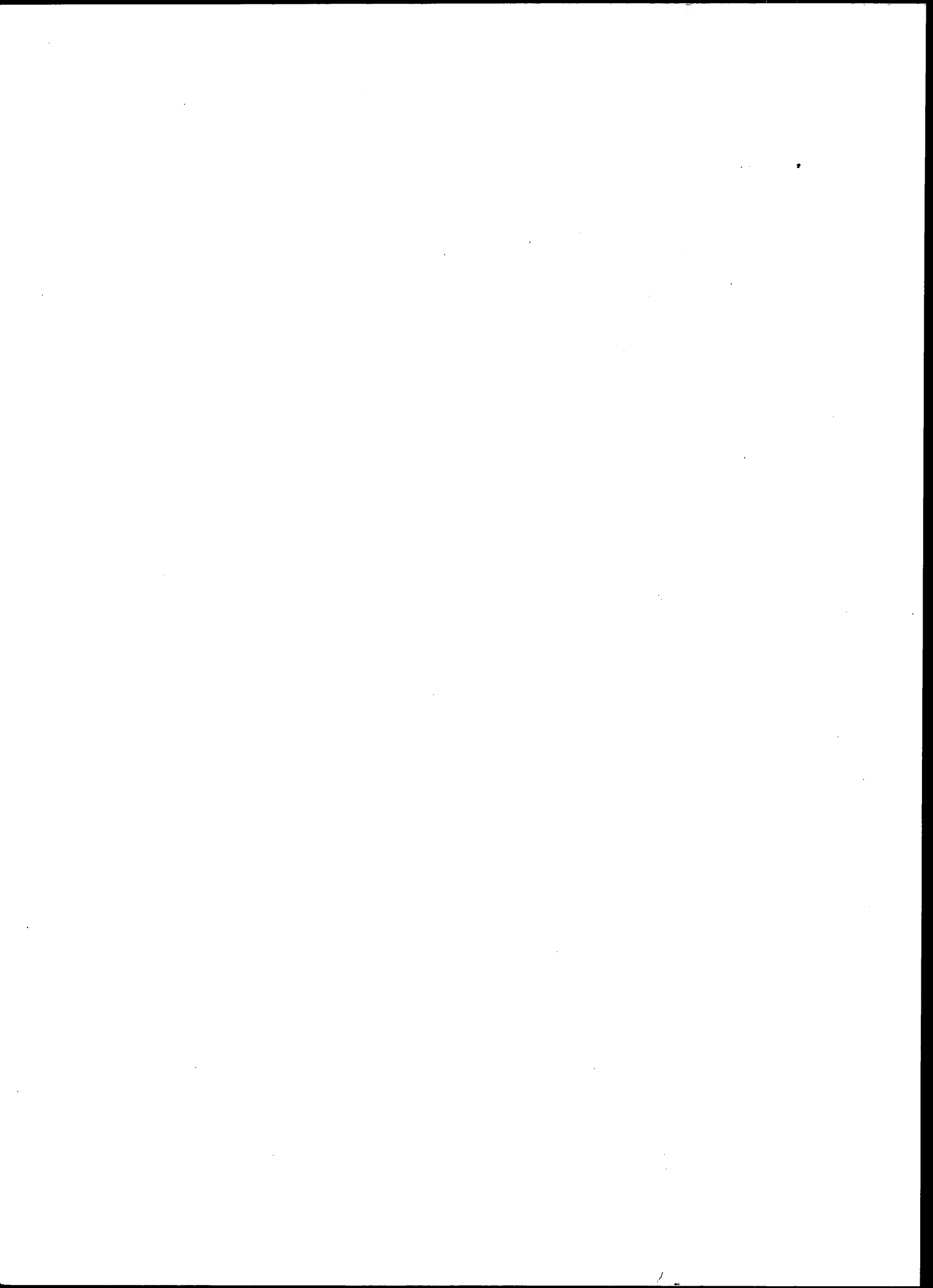


INTRODUCTION AND ACKNOWLEDGMENT

This report presents detailed results of the 1980 Comprehensive Salary and Employment Status Survey. Such a survey is conducted in March of every year by the ACS's Office of Manpower Studies. A summary of the 1980 findings was published in the June 30, 1980 issue of Chemical and Engineering News.

General oversight of the survey and its analysis was provided by the ACS Council Committee on Economic Status, which is grateful to each of the more than 16,000 ACS members who completed and returned survey questionnaires. Dr. Samuel M. Gerber is 1980 Chairman of the Committee.

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



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TECHNICAL NOTES

The target population of the 1980 Comprehensive Salary and Employment Status Survey is those ACS members who have U.S. mailing addresses, are not older than 65, and have neither student nor emeritus status.

On January 31, 1980 the ACS membership totalled 113,702, of which 82,483 were eligible for inclusion in the sample. A systematic sample of 20,000 men was selected from the target population. All 8,445 of the women in the target population were included in the sample.

The survey questionnaires were mailed to this sample of 28,445 members by bulk mail during the week of February 17-23. By May 9, the cut-off date, 16,057 (56.4%) usable questionnaires had been returned. This year's survey was the largest since 1972, the last year the ACS directly surveyed half of its working membership.

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

Women

The tables in this report which disregard the respondent's sex were generated from a sample which included all male respondents and approximately 27 percent of the female respondents. This was done to obtain correct weighting and comparability with previous years. A special report, analyzing the responses of all of the women, will be published at a later date.

Definitions

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

Chemist: a respondent who indicated a work specialty of chemistry or biochemistry (categories 2 through 12 of question H on the questionnaire).

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

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

This report presents the respondents' principal annual salaries as of March 1, 1980. Respondents employed in academic institutions are assumed to have reported their basic salary for the academic year, rather than the calendar year. The respondent's age is given as of March 1, 1980. A respondent's state and geographic region refer to place of residence, rather than place of employment.

Years Since Bachelor's Degree

Past surveys reported salaries tabulated by the respondents' "years of professional experience". This year, salaries are tabulated by "years since bachelor's degree". There are several important reasons for this change.

First, a respondent's estimate of his/her years of professional experience is highly subjective. Respondents who have been in and out of the work force several times measure their experience differently from those who have relatively continuous employment. Tabulating salaries by years since bachelor's degree replaces the subjective experience measure with an objective time measure.

Second, using years since bachelor's degree allows comparison of respondents who are of essentially the same age cohort but with different degree levels.

Finally, the results of the ACS survey may now be compared with those obtained by other surveys of chemists, such as those conducted by Battelle Columbus Laboratories and by the American Association of Engineering Societies. These surveys also report salaries tabulated by years since bachelor's degree, rather than by professional experience.

Proportions

The proportion of people falling within a certain cell in one of the tables is a sample proportion. The sample proportion is used to make statements about the corresponding population proportion, but, of course, the sample proportion generally is not exactly equal to the population proportion. Another useful type of estimate is the confidence interval. Such an

interval estimate is illustrated in the following statement:
 "We assert with 95% confidence that the population proportion is between 0.04 and 0.06." A simple but adequate formula for a confidence interval centered on the sample proportion is

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

where

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

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

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

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

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

Small Cell Counts

If the number of responses in a cell of a salary table is small, then the sample salary statistics for that cell may not accurately estimate the corresponding population salary statistics. To avoid misinterpretation of the information presented in a table, some statistics are not printed (in fact, some cannot be computed) if the cell count falls below a certain size. The table below indicates the minimum cell size required for a given statistic to be reported in a salary table:

Salary Statistic	Minimum Cell Size	Exclusion Code
75th percentile	25	-a-
Median	15	-b- or ---
25th percentile	25	-c-
Mean	1	-d- or ---
Standard Deviation	2	-e- or ---

Percentiles

The inaccurate percentile algorithm used in past survey reports has been replaced by one which models the correct formula for percentiles:

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

$$P_j = \frac{j}{100} S_k + \left(1 - \frac{j}{100}\right) S_{k+1}$$

where k is the largest integer not greater than $(j(n+1)/100)$ and S_k is the k th sample value.

Discrepancies Among Tables

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

Comparing Salaries

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

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

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

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

Illionis
Indiana
Michigan
Ohio
Wisconsin

EAST SOUTH CENTRAL

Alabama
Kentucky
Mississippi
Tennessee

MIDDLE ATLANTIC

New Jersey
New York
Pennsylvania

SOUTH ATLANTIC

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

NEW ENGLAND

Connecticut
Maine
Massachusetts
New Hampshire
Rhode Island
Vermont

Table-1.1.0

FULL-TIME EMPLOYED CHEMISTS BY HIGHEST DEGREE AND YEARS SINCE BS

HIGHEST DEGREE	YEARS SINCE BS										TOTAL	
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>= 40		
Bachelors	18,500	18,850	23,650	28,000	33,000	34,950	38,000	37,550	43,500	41,950	32,000	-75th %-ile
	16,200	17,000	20,000	23,450	28,000	30,000	31,200	30,000	34,000	31,500	25,000	-Median
	13,200	14,500	17,050	20,000	23,000	25,000	26,550	25,000	27,000	25,400	18,700	-25th %-ile
	16,012	16,793	20,029	23,985	27,933	30,603	33,342	31,455	38,898	35,845	26,569	-Mean
	4,511	4,763	6,096	7,139	8,156	9,266	11,652	12,986	27,060	22,886	13,784	-Std Dev
	83	313	429	272	231	234	245	296	167	110	2,380	-Count
Masters	-a-	20,000	24,000	27,950	33,225	35,800	39,300	39,000	40,000	40,000	33,775	
	-b-	18,200	20,500	24,000	28,000	28,800	31,000	33,250	32,100	30,900	26,000	
	-c-	14,500	17,000	20,000	22,075	23,000	26,000	26,250	25,000	24,900	20,100	
	-d-	17,958	20,371	23,726	27,440	29,995	33,131	32,955	34,752	31,823	27,758	
	-e-	3,971	6,154	6,894	10,551	13,096	13,089	12,215	17,998	12,617	12,224	
	0	55	292	265	214	175	210	222	122	75	1,630	
Doctorate	-a-	-	28,000	32,000	38,000	40,000	44,500	48,000	49,000	50,100	40,000	
	-b-	-	25,500	27,000	30,500	32,400	36,000	38,000	40,000	40,000	31,200	
	-c-	-	20,700	21,500	24,000	25,200	28,800	29,850	30,000	30,000	25,000	
	-d-	8,100	23,613	26,907	31,310	33,392	37,145	38,954	41,449	42,478	33,349	
	-e-	-	7,108	8,394	12,907	12,834	14,582	15,374	20,796	21,218	14,935	
	0	1	403	922	1,007	791	707	566	426	285	5,108	
TOTAL	18,500	19,050	25,825	30,000	36,000	38,650	42,000	42,225	47,000	49,375	37,000	
All Cases	16,200	17,000	22,000	25,800	30,000	31,000	34,300	35,000	37,000	36,050	28,900	
	13,200	14,500	17,600	20,400	24,000	25,000	27,000	27,000	28,000	28,050	22,000	
	16,012	16,943	21,403	25,784	30,203	32,353	35,618	35,677	39,711	39,225	30,580	
	4,511	4,684	6,694	8,047	12,050	12,337	13,867	14,550	22,107	20,913	14,531	
	83	369	1,124	1,459	1,452	1,200	1,162	1,084	715	470	9,118	

FULL-TIME EMPLOYED CHEMISTS BY TYPE OF EMPLOYER AND HIGHEST DEGREE

EMPLOYER TYPE	HIGHEST DEGREE			TOTAL	
	Bachelors	Masters	Doctorate		
Pvt Industry	25,200	28,500	36,000	31,000	-Median
	27,519	30,177	38,220	33,140	-Mean
	14,139	12,382	15,181	15,151	-Std Dev
	1,883	1,136	2,746	5,765	-Count
Fed Govt	28,400	29,800	34,100	31,000	
	27,399	29,019	33,855	31,301	
	9,413	11,059	11,035	11,025	
	171	124	372	667	
Coll/Univ	13,500	19,450	25,000	24,000	
	15,660	19,744	26,478	25,641	
	6,817	6,422	11,595	11,429	
	57	170	1,876	2,103	
Other Empl	20,000	21,450	29,000	24,000	
	21,635	22,012	31,971	25,922	
	12,556	10,453	19,018	15,834	
	276	256	361	893	
TOTAL	25,000	26,000	31,200	29,000	
	26,547	27,800	33,382	30,653	
	13,772	12,183	15,062	14,606	
	2,387	1,686	5,355	9,428	

FULL-TIME EMPLOYED CHEMISTS BY WORK FUNCTION AND DEGREE

WORK FUNCTION	HIGHEST DEGREE			TOTAL	
	Bachelors	Masters	Doctorate		
R&D Mgmt Research	34,800	37,000	43,000	40,000	-Median
	36,206	37,056	45,294	42,456	-Mean
	16,526	13,853	16,107	16,382	-Std Dev
	237	194	891	1,322	-Count
Basic Res	20,200	24,900	32,900	29,700	
	21,649	25,512	33,382	30,364	
	7,518	8,400	10,754	11,012	
	154	147	681	982	
Applied R&D	24,000	27,000	31,700	29,000	
	25,110	27,424	32,865	29,602	
	8,973	8,616	9,673	9,915	
	689	462	1,257	2,408	
Gen Mgmt	33,000	36,000	40,000	36,000	
	36,842	38,720	47,033	40,934	
	26,300	18,508	29,877	26,456	
	214	125	189	528	
Marketing	29,850	30,000	38,000	31,000	
	29,373	32,423	37,595	32,010	
	12,050	15,794	12,230	13,582	
	220	120	95	435	
Prod & QC	22,200	24,800	32,000	24,000	
	23,430	25,583	33,965	25,308	
	9,465	8,511	15,299	10,776	
	414	151	85	650	
Forensic	20,500	22,600	26,600	22,000	
	21,213	23,368	27,781	22,906	
	7,801	7,484	14,147	9,435	
	220	99	67	386	
Writing	28,000	25,000	30,900	27,500	
	27,208	25,418	31,038	27,664	
	8,255	6,260	11,174	8,812	
	25	34	26	85	
Data Proc	---	---	---	28,050	
	27,833	25,271	30,667	27,775	
	2,363	12,888	7,047	9,487	
	3	7	6	16	
Consulting	22,800	25,150	39,000	30,000	
	24,648	27,035	38,312	31,473	
	16,315	10,662	20,083	17,726	
	27	34	49	110	
Other	23,000	25,300	37,000	28,000	
	25,100	25,068	40,801	31,005	
	8,969	9,709	21,622	16,911	
	47	44	55	146	
No response	19,000	19,600	25,000	24,000	
	20,653	19,669	26,631	25,490	
	10,644	7,214	11,659	11,458	
	137	269	1,954 *	2,360	
TOTAL	25,000	26,000	31,200	29,000	
	26,547	27,800	33,382	30,653	
	13,772	12,183	15,062	14,606	
	2,387	1,686	5,355	9,428	

* Primarily college and university teaching

Table-1.1.3

FULL-TIME EMPLOYED CHEMISTS BY SPECIALTY AND DEGREE

SPECIALTY	HIGHEST DEGREE			TOTAL	
	Bachelors	Masters	Doctorate		
Biochem	20,550	22,300	30,150	29,000	-Median
	24,524	23,294	31,740	30,511	-Mean
	19,111	8,846	13,647	14,036	-Std Dev
	50	62	608	720	-Count
Agric/Food	27,000	29,000	32,750	30,000	
	27,713	32,996	36,850	33,519	
	13,635	17,933	20,580	18,743	
	129	71	236	436	
Analytical	23,000	26,000	29,600	26,000	
	23,955	26,969	31,122	27,159	
	9,348	9,880	11,293	10,659	
	778	414	649	1,841	
Environmental	23,000	25,000	32,000	27,600	
	24,758	26,544	32,390	28,357	
	10,798	11,799	14,333	13,050	
	195	149	241	585	
Inorganic	27,000	28,100	28,350	28,100	
	26,963	28,614	30,019	29,295	
	11,885	10,009	11,424	11,371	
	95	72	374	541	
Organic	28,000	28,650	30,000	29,850	
	29,678	30,742	32,458	31,731	
	11,865	14,162	16,003	15,142	
	283	248	1,137	1,668	
Pharm/Med	22,000	26,500	36,000	31,000	
	22,689	27,659	38,979	33,493	
	11,072	12,752	17,178	16,830	
	161	141	467	769	
Phys/Theo	24,000	30,000	30,000	30,000	
	26,942	29,548	31,902	31,454	
	10,693	10,019	13,876	13,586	
	45	27	568	640	
Polymer	28,000	29,400	37,000	33,500	
	29,748	31,328	38,156	34,702	
	16,394	12,562	13,959	14,930	
	287	190	597	1,074	
General	26,000	22,000	26,000	24,400	
	29,528	22,738	28,572	27,003	
	24,773	10,576	14,892	17,377	
	177	203	267	647	
Other Chem	27,900	28,000	35,400	30,600	
	29,472	27,648	37,435	32,394	
	14,720	11,347	16,367	15,392	
	187	109	211	507	
TOTAL	25,000	26,000	31,200	29,000	
	26,547	27,800	33,382	30,653	
	13,772	12,183	15,062	14,606	
	2,387	1,686	5,355	9,428	

SALARIES OF FULL-TIME EMPLOYED BS CHEMISTS by EMPLOYER and YEARS SINCE BACHELOR'S DEGREE

EMPLOYER	YEARS SINCE BS										No Resp	TOTAL	
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>= 40			
Mfg Chemicals	---	17,150	21,500	25,000	29,000	29,500	35,000	32,350	38,200	35,000	---	28,000	-Median
	17,346	17,948	21,124	25,457	29,002	30,998	36,714	32,323	42,015	42,797	---	29,740	-Mean
	3,596	4,937	6,159	5,115	6,840	10,032	12,773	12,002	31,942	29,084	---	16,738	-Std Dev
	13	56	85	51	65	55	64	66	52	38	0	545	-Count
Mfg Coating	---	17,600	21,000	27,100	---	26,500	30,000	28,800	---	---	---	24,300	
	17,100	17,605	20,172	27,173	27,511	28,826	32,520	32,248	44,150	31,175	---	26,531	
	2,925	2,986	6,621	6,463	9,471	9,551	10,660	11,103	22,022	16,632	---	12,128	
	10	21	32	15	9	19	15	21	10	8	0	160	
Mfg Food	---	17,000	19,800	24,000	---	---	---	---	---	---	---	22,550	
	16,840	16,044	19,871	24,313	24,538	28,717	27,018	34,350	31,440	45,875	---	24,915	
	4,102	3,676	2,403	5,078	12,967	5,184	7,485	14,295	14,113	12,887	---	10,499	
	5	18	17	16	8	12	11	12	5	4	0	108	
Mfg Metals	---	---	20,000	---	---	---	---	---	---	---	---	24,250	
	18,850	18,915	20,659	22,764	26,915	38,667	34,275	27,100	27,573	31,083	---	25,644	
	495	4,446	3,292	5,288	6,561	21,127	7,220	12,509	11,266	5,920	---	9,175	
	2	13	17	14	13	3	12	9	11	6	0	100	
Mfg Paper	---	---	---	---	---	---	---	---	---	---	---	25,000	
	19,300	19,160	24,100	20,700	28,280	33,200	33,575	33,600	---	---	---	26,131	
	---	2,402	4,483	2,381	8,723	5,825	4,024	---	---	---	---	7,106	
	1	5	9	3	5	4	4	1	0	0	0	32	
Mfg Petroleum	---	---	23,400	---	---	---	---	32,350	---	---	---	28,650	
	18,475	19,950	23,783	27,917	36,614	40,025	36,013	35,450	29,362	45,283	---	31,228	
	3,093	2,128	2,925	6,179	13,378	13,070	11,437	9,662	13,697	32,611	---	13,548	
	4	6	18	6	7	4	8	24	13	6	0	96	
Mfg Pharmaceuticals	---	16,950	23,000	23,000	29,000	30,000	31,000	30,950	---	---	---	24,000	
	16,871	17,670	21,770	24,500	28,156	30,400	32,900	32,077	60,150	29,330	27,800	26,592	
	2,738	5,136	6,032	8,592	7,586	6,824	14,379	9,813	52,643	17,392	---	16,264	
	7	50	49	33	27	31	17	22	12	10	1	259	
Mfg Rubber	---	---	---	---	---	---	---	31,600	36,200	---	---	31,000	
	17,500	19,243	23,588	20,014	31,933	30,714	35,562	34,794	40,013	27,467	---	31,168	
	---	2,746	5,760	9,600	4,844	16,060	9,398	16,407	16,331	16,041	---	14,139	
	1	7	8	7	6	7	13	16	16	6	0	87	
Mfg Other	17,300	17,500	20,000	23,000	26,750	36,000	33,600	31,400	32,500	37,300	---	26,100	
	15,871	18,103	20,821	24,107	27,083	34,798	36,660	30,564	37,996	38,406	---	27,736	
	6,686	4,102	6,221	8,734	10,050	7,459	11,869	13,309	17,491	16,249	---	12,324	
	17	58	57	59	42	60	42	53	27	16	0	431	
Non-Mfg	---	16,000	20,500	---	---	---	---	---	---	---	---	21,450	
	15,418	16,095	19,678	26,583	26,875	32,586	37,757	29,436	42,800	14,200	---	23,389	
	4,273	2,712	6,485	4,966	5,918	13,009	9,833	12,970	11,367	14,509	---	10,683	
	11	20	36	12	8	7	7	11	5	3	0	120	
Fed Govt	---	---	19,850	---	30,450	30,450	30,000	30,500	32,400	---	---	28,450	
	11,850	13,550	18,677	24,383	29,689	30,919	30,700	30,078	32,020	38,438	19,000	27,462	
	919	5,541	5,098	4,630	3,975	4,363	9,058	8,438	11,814	10,033	---	9,462	
	2	10	26	12	18	26	27	27	15	8	1	172	
State Govt	---	---	15,800	19,300	---	---	---	---	---	---	---	19,500	
	---	12,810	15,759	20,533	22,550	23,829	23,933	24,760	30,700	16,380	---	19,645	
	---	5,907	5,861	4,782	5,486	6,136	5,467	3,274	13,970	9,286	---	7,439	
	0	10	27	18	8	7	6	10	4	5	0	95	
Hospitals	---	---	---	---	---	---	---	---	---	---	---	18,000	
	16,050	13,310	16,367	18,250	27,700	29,140	25,550	26,500	21,600	---	---	20,058	
	4,828	5,058	6,776	13,124	12,624	13,970	8,068	9,042	---	---	---	9,844	
	4	10	12	4	3	5	6	5	1	0	0	50	
Non-Profit	---	---	---	---	---	---	---	---	---	---	---	19,750	
	10,600	13,558	16,100	20,967	27,950	29,729	24,029	21,667	30,050	---	---	20,708	
	---	3,065	6,178	5,073	8,460	8,671	7,394	11,969	4,313	---	---	8,921	
	1	12	13	6	6	7	7	6	2	0	0	60	
Self-Empl	---	---	---	30,667	---	---	---	---	---	---	---	---	
	---	---	---	8,327	---	0	30,000	35,600	48,333	0	---	31,786	
	---	---	---	---	---	---	---	9,529	41,138	---	---	22,885	
	0	0	0	3	0	1	1	5	3	1	0	14	
Other Empl	---	---	---	---	---	---	---	---	---	---	---	---	
	---	0	28,000	17,700	24,167	60,000	---	73,000	80,000	---	---	40,420	
	---	---	---	---	3,102	---	---	73,539	---	---	---	37,412	
	0	1	1	1	3	1	0	2	1	0	0	10	
TOTAL	17,350	17,000	20,600	23,700	28,100	30,700	31,500	30,550	35,000	32,000	---	25,000	
	16,476	17,086	20,320	24,245	28,154	31,582	33,825	31,736	39,436	36,234	23,400	27,186	
	4,400	4,720	6,073	7,094	8,162	9,361	11,423	13,008	26,344	22,828	6,223	13,881	
	78	297	407	260	228	249	240	290	177	111	2	2,339	

Table-1.2.2

SALARIES OF FULL-TIME EMPLOYED M.S. CHEMISTS by EMPLOYER and YEARS SINCE BACHELOR'S DEGREE

EMPLOYER	YEARS SINCE BS										TOTAL		
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>= 40			No Resp
Mfg Chemicals	---	---	22,500	24,500	31,100	35,000	35,000	35,200	35,700	31,500	---	30,000	-Median
	---	19,025	23,350	25,404	31,856	34,134	38,905	35,432	39,264	28,781	31,000	32,088	-Mean
	---	1,978	4,532	4,966	11,792	9,275	14,368	8,607	18,443	17,669	16,830	12,676	-Std Dev
	---	0	8	58	47	32	35	58	74	39	16	8	375
Mfg Coating	---	---	---	---	---	---	---	---	---	---	---	25,150	
	---	20,000	21,708	28,000	32,263	29,383	32,667	35,144	33,000	35,720	21,800	29,018	
	---	1,323	2,452	5,385	8,785	6,659	7,024	13,832	27,435	11,806	1,131	11,092	
	---	0	3	13	7	8	6	3	9	4	5	2	60
Mfg Food	---	---	---	---	---	---	---	---	---	---	---	27,150	
	---	16,033	23,540	26,067	29,063	32,400	40,908	43,014	33,286	30,000	13,500	31,166	
	---	3,729	11,233	6,130	3,905	12,919	26,305	8,709	14,160	10,394	---	15,419	
	---	0	3	10	12	8	5	12	7	7	3	1	68
Mfg Metals	---	---	---	---	---	---	---	---	---	---	---	28,800	
	---	---	23,667	24,357	30,225	38,900	38,667	33,829	28,000	31,200	30,100	30,383	
	---	---	3,055	5,248	15,112	8,627	8,737	12,488	---	---	12,101	10,939	
	---	0	0	3	7	8	2	3	7	1	1	3	35
Mfg Paper	---	---	---	---	---	---	---	---	---	---	---	29,900	
	---	18,200	23,575	30,300	36,000	35,000	33,333	27,000	37,000	---	---	29,088	
	---	---	2,650	2,587	---	---	5,774	9,899	---	---	---	6,592	
	---	0	1	4	3	1	1	3	2	1	0	0	16
Mfg Petroleum	---	---	---	---	---	---	---	---	---	---	---	32,100	
	---	22,800	23,063	27,914	39,763	32,800	36,233	44,288	36,000	39,000	38,200	34,468	
	---	---	1,545	7,785	13,801	23,620	6,967	13,334	---	3,960	11,670	13,102	
	---	0	1	8	7	8	4	3	8	1	2	5	47
Mfg Pharmaceuticals	---	---	20,050	26,050	29,000	30,000	32,650	35,000	---	---	---	26,050	
	---	19,342	19,602	26,520	28,455	27,343	34,650	34,663	41,813	39,400	28,311	27,202	
	---	4,810	6,034	4,628	7,604	11,793	8,556	7,785	30,757	11,426	7,845	10,887	
	---	0	12	56	44	33	21	22	19	8	6	9	230
Mfg Rubber	---	---	---	---	---	---	---	---	---	---	---	32,000	
	---	---	25,300	8,500	35,400	29,850	30,700	30,433	48,900	33,980	21,000	31,330	
	---	---	5,233	12,021	1,705	4,031	5,618	18,263	20,008	14,719	---	14,707	
	---	0	0	2	2	4	2	5	9	3	5	1	33
Mfg Other	---	---	21,800	24,400	28,400	36,000	31,500	34,000	---	---	---	28,400	
	---	20,529	22,118	25,478	27,163	40,180	33,865	35,190	36,879	33,850	32,433	30,090	
	---	3,250	6,767	5,923	8,324	17,872	10,829	15,863	13,332	8,889	10,291	12,638	
	---	0	7	39	37	27	25	20	30	14	10	6	215
Non-Mfg	---	---	21,250	---	---	---	---	---	---	---	---	27,700	
	---	19,450	22,325	26,456	29,200	33,150	30,833	35,750	29,940	29,375	26,700	28,461	
	---	778	5,337	4,673	6,710	17,982	7,448	18,795	7,907	750	5,077	10,388	
	---	0	2	16	9	8	8	12	8	5	4	4	76
Fed Govt	---	---	---	24,000	29,600	---	34,500	---	---	---	---	29,800	
	---	20,800	20,223	23,212	27,372	28,433	34,229	31,508	32,375	34,889	36,800	29,019	
	---	2,546	3,839	8,366	12,698	4,127	7,542	15,391	13,442	11,084	6,414	11,059	
	---	0	2	13	17	25	9	21	13	8	9	7	124
State Govt	---	---	---	20,250	---	---	---	---	---	---	---	20,000	
	---	16,233	18,880	20,088	19,150	25,700	16,425	17,900	17,980	22,100	22,000	19,527	
	---	2,730	6,270	7,166	4,925	5,642	12,633	11,172	10,218	4,808	---	7,241	
	---	0	3	10	16	4	4	4	2	5	2	1	51
Hospitals	---	---	---	---	---	---	---	---	---	---	---	20,000	
	---	---	17,114	16,675	30,900	20,150	23,000	28,933	23,250	35,000	---	21,500	
	---	---	4,544	11,241	1,273	11,667	4,243	12,840	4,596	---	---	9,213	
	---	0	0	14	4	2	2	2	6	2	1	0	33
Non-Profit	---	---	---	---	---	---	---	---	---	---	---	25,000	
	---	19,000	18,933	17,867	26,043	26,611	31,200	31,400	28,000	38,533	14,000	25,458	
	---	3,279	3,837	2,579	3,955	14,257	4,222	3,992	---	9,603	---	9,079	
	---	0	3	12	3	7	9	8	5	1	3	1	52
Self-Empl	---	---	---	20,000	---	---	---	---	---	---	---	---	
	---	---	---	---	---	25,500	29,000	36,667	60,000	24,000	---	30,917	
	---	---	---	---	---	36,062	9,899	12,583	---	20,785	---	18,715	
	---	0	0	0	1	0	2	2	3	1	3	0	12
Other Empl	---	---	---	---	---	---	---	---	---	---	---	---	
	---	16,300	21,433	25,433	32,000	23,300	31,350	---	52,000	---	---	26,400	
	---	3,253	5,582	513	---	---	1,626	---	---	---	---	9,584	
	---	0	2	3	3	1	1	2	0	1	0	13	
TOTAL	---	19,000	21,100	24,800	30,000	31,350	33,300	35,000	35,000	32,500	29,850	28,000	
	---	19,062	21,351	24,917	29,491	32,304	35,189	34,875	36,435	32,591	30,358	29,380	
	---	3,417	5,763	6,371	10,139	13,609	12,891	12,195	18,038	12,678	11,053	12,233	
	---	0	47	261	219	176	136	180	202	101	70	48	1,440

SALARIES OF FULL-TIME EMPLOYED Ph.D. CHEMISTS by EMPLOYER and YEARS SINCE BACHELOR'S DEGREE

EMPLOYER	YEARS SINCE BS											TOTAL	
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>= 40	No Resp		
Mfg Chemicals	---	---	26,500	30,300	37,000	37,850	41,200	43,550	47,400	46,000	31,700	36,300	-Median
	---	---	25,669	30,470	37,692	39,044	43,899	45,762	49,131	52,008	36,922	38,667	-Mean
	---	---	6,016	6,157	9,966	12,099	16,085	13,680	21,998	31,552	22,887	16,160	-Std Dev
	0	0	93	218	203	126	135	130	85	53	45	1,088	-Count
Mfg Coating	---	---	26,000	30,500	33,500	---	---	---	---	---	---	32,500	
	---	---	26,894	31,852	33,364	43,990	41,642	40,800	48,100	43,833	37,567	35,693	
	---	---	2,623	5,908	6,369	17,196	10,548	15,323	6,046	5,485	8,814	10,617	
	0	0	17	23	28	10	12	10	5	3	6	114	
Mfg Food	---	---	---	28,250	27,500	39,000	---	---	---	---	---	32,000	
	---	---	26,789	30,415	28,626	44,000	34,178	49,686	47,263	49,290	43,167	36,969	
	---	---	2,723	8,609	8,078	19,616	16,527	21,397	15,810	23,209	25,181	16,881	
	0	0	9	20	23	18	9	7	8	10	3	107	
Mfg Metals	---	---	---	---	---	---	---	---	---	---	---	35,000	
	---	---	29,075	32,850	33,129	42,767	44,657	34,200	38,914	45,000	28,300	37,202	
	---	---	2,965	6,887	4,411	21,068	16,043	20,700	11,053	---	---	13,947	
	0	0	4	4	7	6	7	6	7	1	1	43	
Mfg Paper	---	---	---	---	---	---	---	---	---	---	---	35,000	
	---	---	25,775	31,271	38,045	36,313	40,088	53,150	31,625	54,333	34,000	37,612	
	---	---	450	8,637	8,413	4,976	8,172	13,225	2,983	12,503	1,732	10,442	
	0	0	4	7	11	8	8	4	4	3	3	52	
Mfg Petroleum	---	---	28,000	31,000	40,100	43,350	44,900	51,000	---	---	---	38,850	
	---	---	28,260	32,603	39,933	43,106	44,414	43,853	53,618	56,914	42,518	39,361	
	---	---	2,439	5,817	5,156	4,987	12,876	19,991	21,945	13,877	17,589	13,851	
	0	0	35	29	24	16	22	19	11	7	11	174	
Mfg Pharmaceuticals	---	---	26,900	30,000	38,550	40,200	43,600	44,000	48,000	50,000	37,000	37,850	
	---	---	26,380	30,469	38,891	40,104	43,638	48,667	53,306	48,787	41,784	39,593	
	---	---	5,798	7,002	10,242	13,840	11,233	16,948	21,283	20,889	22,204	15,639	
	0	0	35	93	96	71	39	43	32	31	32	472	
Mfg Rubber	---	---	---	---	---	---	---	---	---	---	---	36,150	
	---	---	25,000	37,720	33,350	37,383	42,767	48,763	36,591	32,375	39,660	38,865	
	---	---	---	16,058	2,155	5,522	14,215	14,037	11,211	22,296	9,007	13,094	
	0	0	1	10	6	6	9	8	11	4	5	60	
Mfg Other	---	---	28,000	30,100	35,250	39,750	42,000	42,500	40,400	43,000	33,400	35,800	
	---	---	28,062	30,800	36,435	39,728	43,524	42,755	41,967	44,870	35,886	37,284	
	---	---	4,100	7,040	9,950	14,444	14,111	15,733	18,389	13,413	14,964	13,335	
	0	0	47	94	86	74	59	53	33	20	21	487	
Non-Mfg	---	---	26,200	29,500	35,200	39,050	42,550	---	---	---	---	34,000	
	---	---	22,800	30,423	34,191	40,539	45,644	44,038	47,356	62,250	31,644	35,527	
	---	---	10,217	6,983	11,380	8,719	16,386	19,181	26,350	36,354	22,651	16,100	
	0	0	22	35	45	18	18	8	9	4	9	168	
Fed Govt	---	---	24,700	26,000	30,750	34,300	38,500	43,350	45,500	44,000	---	34,100	
	---	---	24,957	26,408	29,345	33,625	37,550	40,693	42,666	37,633	38,067	33,879	
	---	---	3,090	5,478	8,926	9,679	10,474	11,141	10,195	15,750	9,230	11,040	
	0	0	21	59	66	55	66	42	35	18	9	371	
State Govt	---	---	---	---	---	---	---	---	---	---	---	26,000	
	---	---	16,500	21,675	24,063	29,850	35,575	27,486	68,467	23,000	31,120	31,983	
	---	---	2,121	4,090	10,597	10,155	35,472	5,555	83,324	0	12,329	32,566	
	0	0	2	8	8	8	8	7	6	2	5	54	
Hospitals	---	---	---	---	---	---	---	---	---	---	---	32,000	
	---	---	16,567	26,018	37,909	32,073	42,380	45,920	68,333	5,700	32,000	35,037	
	---	---	3,669	9,812	18,219	15,319	17,488	23,410	16,503	---	11,314	18,743	
	0	0	3	11	11	11	5	5	3	1	2	52	
Non-Profit	---	---	22,100	25,100	32,600	32,100	36,000	---	40,000	---	---	30,000	
	---	---	20,931	25,504	32,952	32,207	38,082	35,971	40,650	43,088	34,463	31,763	
	---	---	6,366	6,464	7,185	5,767	9,626	9,053	11,618	9,420	7,772	10,169	
	0	0	16	50	23	15	22	14	16	8	8	172	
Self-Empl	---	---	---	---	---	---	---	---	---	---	---	30,000	
	---	---	8,000	52,500	22,750	---	56,500	22,000	52,500	35,417	12,500	34,630	
	---	---	---	12,990	19,856	---	42,532	20,187	60,104	23,376	17,678	28,955	
	0	0	1	3	4	0	4	5	2	6	2	27	
Other Empl	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	29,300	24,500	---	---	40,600	28,100	37,100	---	---	32,211	
	---	---	---	3,536	---	---	10,465	1,556	5,515	---	---	7,942	
	0	0	1	2	0	0	2	2	2	0	0	9	
TOTAL	---	---	26,400	29,500	35,000	37,500	40,500	42,000	44,000	45,000	34,650	35,050	
	---	---	25,858	29,954	35,653	38,583	42,212	43,686	46,994	47,145	37,352	37,232	
	---	---	5,835	7,295	10,322	12,922	14,990	15,497	22,488	23,921	18,852	15,287	
	0	0	311	666	641	442	425	363	269	171	162	3,450	

Table-1.3.1

SALARIES OF FULL-TIME EMPLOYED B.S. CHEMISTS by WORK FUNCTION and YEARS SINCE BACHELOR'S DEGREE

WORK FUNCTION	YEARS SINCE BS											TOTAL	
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>= 40	No Resp		
R&D Mgmt	---	---	25,000	28,100	34,000	34,800	36,000	37,400	44,000	40,500	---	35,000	-Media
	20,667	21,386	23,884	26,541	34,489	36,712	38,129	35,963	52,211	40,500	---	36,219	-Mean
	2,517	11,625	4,417	9,223	6,936	8,953	10,732	9,357	34,597	14,452	---	16,262	-Std D
	3	7	19	17	38	33	41	38	27	23	0	246	-Count
Basic Research	---	17,050	19,000	21,200	---	---	27,900	---	---	---	---	20,400	
	15,950	16,775	19,231	22,683	27,464	26,217	28,867	21,118	38,360	41,600	---	21,899	
	3,373	3,955	5,314	4,786	5,678	4,343	6,550	12,256	5,680	---	---	7,857	
	10	40	29	18	14	12	15	11	5	1	0	155	
Applied R&D	17,300	17,000	20,950	23,250	26,000	28,400	31,000	31,300	33,100	30,650	---	24,000	
	16,303	17,513	20,689	23,627	27,300	29,342	32,446	30,746	33,032	31,775	---	25,220	
	4,106	3,113	6,074	6,937	8,359	7,357	8,562	7,648	9,149	11,258	---	9,777	
	31	95	156	78	61	59	69	76	47	28	0	700	
Gen Mgmt	---	---	---	26,700	32,600	56,000	41,750	35,000	42,000	36,000	---	34,350	
	19,650	14,910	21,900	28,653	29,024	35,900	45,319	37,781	50,307	46,072	---	37,214	
	5,134	5,651	8,600	9,290	8,043	11,377	14,231	23,021	44,850	39,071	---	24,951	
	4	10	12	19	21	53	32	37	29	25	0	242	
Marketing	---	17,700	22,050	27,750	30,500	32,000	31,800	30,000	36,000	---	---	30,000	
	18,833	19,600	21,065	26,580	29,304	33,743	31,667	30,953	36,954	40,617	---	29,446	
	3,686	6,503	9,154	8,676	6,475	9,279	11,486	12,726	13,947	14,653	---	12,071	
	3	24	26	20	26	23	21	38	28	12	0	221	
Prod & QC	---	16,900	21,000	23,000	24,650	27,000	29,500	28,800	26,000	---	---	22,350	
	17,136	16,794	20,841	23,286	23,111	28,410	29,829	30,296	30,381	26,877	---	23,525	
	4,354	4,027	3,955	6,077	8,885	6,912	8,576	11,658	20,591	11,170	---	9,505	
	14	79	88	59	28	31	38	45	21	13	0	416	
Forensic	---	16,200	18,050	21,500	26,750	---	---	30,000	---	---	---	20,500	
	13,744	15,455	17,838	22,534	25,138	26,957	23,938	28,733	28,240	18,900	19,000	21,202	
	5,445	5,457	5,797	5,215	5,568	5,131	12,577	8,412	4,246	5,358	---	7,817	
	9	31	60	35	26	14	13	21	5	4	1	219	
Writing	---	---	---	---	---	---	---	---	---	---	---	28,000	
	---	---	---	27,000	29,940	29,640	29,000	17,233	23,633	29,350	---	27,208	
	---	---	---	---	11,035	1,877	3,883	15,413	8,489	2,758	---	8,255	
	0	0	0	1	5	5	6	3	3	2	0	25	
Data Proc	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	26,000	27,000	---	30,500	---	---	---	27,833	
	---	---	---	---	---	---	---	---	---	---	---	2,363	
	0	0	0	0	1	1	0	1	0	0	0	3	
Consulting	---	---	---	---	---	---	---	---	---	---	---	22,800	
	19,200	15,333	20,625	29,333	42,000	19,800	---	28,950	43,250	0	---	24,648	
	---	5,508	2,142	1,155	---	13,043	---	5,405	29,228	0	---	16,315	
	1	3	4	3	1	5	0	4	4	2	0	27	
Other	---	---	---	---	---	---	---	---	---	---	---	23,400	
	16,500	16,283	19,800	22,643	22,567	32,300	33,900	28,313	36,700	---	---	26,116	
	1,273	2,678	4,268	7,594	4,412	7,540	14,979	7,086	14,835	---	---	10,298	
	2	6	6	7	3	8	4	8	5	0	0	49	
TOTAL	17,400	17,000	20,650	23,600	28,100	30,850	32,000	30,550	35,000	31,850	---	25,000	
	16,595	17,130	20,388	24,181	28,205	31,667	33,910	31,563	39,392	36,234	19,000	27,186	
	4,300	4,629	5,913	7,059	8,214	9,375	11,609	12,920	26,550	22,932	---	13,899	
	77	295	400	257	224	244	239	282	174	110	1	2,303	

SALARIES OF FULL-TIME EMPLOYED M.S. CHEMISTS by WORK FUNCTION and YEARS SINCE BACHELOR'S DEGREE

WORK FUNCTION	YEARS SINCE BS											TOTAL	
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>= 40	No Resp		
R&D Mgmt	---	---	---	27,000	35,950	37,500	40,000	38,000	41,000	---	---	37,000	-Median
	---	---	29,117	27,488	35,603	34,065	40,940	37,333	45,778	36,985	40,850	37,017	-Mean
	---	---	5,313	8,879	7,658	15,303	16,735	11,914	16,248	14,423	9,046	13,713	-Std Dev
	0	0	12	17	30	23	35	42	23	13	4	199	-Count
Basic Research	---	---	19,100	25,000	---	---	33,250	---	---	---	---	24,850	
	---	18,822	18,586	24,496	26,938	29,829	33,369	38,157	32,457	30,240	28,517	25,492	
	---	2,982	4,182	4,322	9,661	6,296	6,043	11,621	5,615	6,978	6,800	8,375	
	0	9	43	28	13	14	16	7	7	5	6	148	
Applied R&D	---	19,000	21,900	24,900	29,000	28,800	30,600	32,600	32,000	30,000	28,050	27,000	
	---	18,860	21,706	24,576	27,663	29,852	31,774	32,869	31,236	32,836	28,655	27,534	
	---	2,371	5,586	5,499	10,337	5,977	7,629	7,637	8,574	9,924	10,228	8,637	
	0	15	97	74	64	33	53	70	25	22	20	473	
Gen Mgmt	---	---	---	---	32,000	40,000	36,000	42,000	---	---	---	36,000	
	---	---	26,660	23,892	31,700	42,463	43,150	44,570	46,683	37,922	33,829	38,944	
	---	---	5,601	9,091	13,763	21,377	19,670	16,943	22,863	18,193	15,967	18,605	
	0	0	5	12	15	19	20	27	12	9	7	126	
Marketing	---	---	23,000	25,500	---	---	---	36,250	---	---	---	30,000	
	---	---	23,278	28,536	33,755	38,443	39,470	34,575	45,338	26,850	37,500	32,596	
	---	---	5,329	6,977	9,021	18,078	11,763	16,060	29,573	14,364	15,025	15,754	
	0	0	27	22	11	14	10	16	13	6	3	122	
Prod & QC	---	---	19,700	24,200	23,500	---	31,600	30,800	---	---	---	24,800	
	---	18,900	20,190	24,974	25,039	26,609	31,100	31,069	29,500	28,560	24,686	25,583	
	---	4,725	5,313	5,444	10,500	5,340	13,835	6,676	6,500	8,729	7,156	8,511	
	0	13	21	35	18	11	16	16	9	5	7	151	
Forensic	---	---	20,000	---	---	---	---	---	---	---	---	22,600	
	---	18,075	19,950	20,907	28,333	25,613	30,291	31,020	15,967	27,233	27,500	23,368	
	---	3,890	4,662	6,539	8,173	4,485	6,975	7,009	13,914	7,541	---	7,484	
	0	4	38	14	12	8	11	5	3	3	1	99	
Writing	---	---	---	---	---	---	---	---	---	---	---	25,000	
	---	22,800	18,900	24,933	25,350	27,763	27,057	27,775	22,500	19,467	23,900	25,418	
	---	---	3,960	3,118	4,959	3,263	4,146	3,899	---	18,254	---	6,260	
	0	1	2	3	4	8	7	4	1	3	1	34	
Data Proc	---	---	---	17,500	---	36,650	30,000	28,050	---	---	---	---	
	---	---	---	---	---	495	---	778	0	---	---	25,271	
	---	---	---	---	---	---	---	---	---	---	---	12,888	
	0	0	0	1	0	2	1	2	1	0	0	7	
Consulting	---	---	---	---	---	---	---	---	---	---	---	25,150	
	---	18,550	24,188	25,640	29,500	19,175	32,833	33,333	38,333	32,733	13,000	27,035	
	---	71	5,688	6,198	7,778	16,028	3,014	17,559	15,822	3,842	---	10,662	
	0	2	8	5	2	4	3	3	3	3	1	34	
Other	---	---	---	---	---	---	---	---	---	---	---	25,300	
	---	21,900	18,443	25,520	28,317	28,800	30,225	24,429	27,067	---	---	25,068	
	---	3,874	9,310	8,435	4,412	---	5,874	13,164	14,648	---	---	9,709	
	0	3	7	10	6	1	4	7	6	0	0	44	
TOTAL	---	19,000	21,200	25,000	30,000	31,500	33,100	35,000	35,000	32,000	29,350	28,000	
	---	19,062	21,378	25,017	29,466	32,334	35,103	35,090	37,125	32,433	29,882	29,427	
	---	3,417	5,756	6,394	10,171	13,563	13,025	12,116	18,548	12,701	11,133	12,326	
	0	47	260	221	175	137	176	199	103	69	50	1,437	

Table-1.3.3

SALARIES OF FULL-TIME EMPLOYED Ph.D. CHEMISTS by WORK FUNCTION and YEARS SINCE BACHELOR'S DEGREE

WORK FUNCTION	YEARS SINCE BS										TOTAL		
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>= 40			No Resp
R&D Mgmt	---	---	29,000	35,000	39,200	43,500	46,000	50,000	50,000	49,350	41,000	43,000	-Median
	---	---	29,525	34,717	40,061	45,703	47,274	53,147	52,837	51,290	45,088	45,266	-Mean
	---	---	5,419	7,479	10,918	13,920	18,413	15,615	18,271	18,101	19,874	16,067	-Std Dev
	0	0	16	103	194	137	128	121	94	62	41	896	-Count
Basic Research	---	---	26,100	28,300	34,300	36,450	37,200	40,500	41,000	45,000	34,200	32,900	
	---	---	25,482	28,748	34,545	35,910	37,815	39,599	41,712	39,847	36,258	33,430	
	---	---	6,289	6,515	7,398	12,237	9,475	14,399	8,495	21,526	9,462	10,819	
	0	0	101	165	118	86	61	67	43	17	24	682	
Applied R&D	---	---	26,450	28,850	32,800	36,000	38,000	38,000	39,000	37,000	30,000	31,700	
	---	---	26,057	28,748	32,877	35,174	38,789	37,836	39,180	41,593	30,299	32,853	
	---	---	5,418	5,804	7,858	8,292	9,291	11,639	9,038	15,482	11,424	9,648	
	0	0	174	296	221	141	147	108	71	43	67	1,268	
Gen Mgmt	---	---	---	30,400	37,000	38,200	42,200	40,000	50,000	50,050	---	40,000	
	---	---	---	33,638	38,468	40,948	45,247	42,776	72,033	58,350	57,164	46,958	
	---	---	---	12,721	17,479	17,006	12,478	13,530	52,649	47,511	39,569	29,816	
	0	0	0	21	31	29	36	21	21	20	11	190	
Marketing	---	---	---	32,000	37,950	---	42,000	---	---	---	---	38,000	
	---	---	25,925	30,547	38,231	37,700	40,928	45,217	40,371	33,183	43,183	37,830	
	---	---	3,876	9,688	10,797	9,592	7,652	9,265	15,527	18,800	21,684	12,233	
	0	0	4	17	16	11	18	12	7	6	6	97	
Prod & QC	---	---	---	28,150	34,000	---	---	---	---	---	---	31,850	
	---	---	26,280	27,879	34,329	31,810	49,989	35,222	31,680	32,800	36,633	33,369	
	---	---	1,481	7,792	10,519	12,795	27,800	8,540	20,020	3,960	16,038	14,365	
	0	0	5	24	17	10	9	9	5	2	3	84	
Forensic	---	---	---	---	27,750	---	---	---	---	---	---	26,600	
	---	---	19,771	26,164	25,635	26,640	36,400	49,367	36,000	23,000	21,800	27,781	
	---	---	5,530	4,118	12,046	7,476	14,242	31,665	41,905	---	2,404	14,147	
	0	0	7	14	20	10	7	3	3	1	2	67	
Writing	---	---	---	---	---	---	---	---	---	---	---	30,900	
	---	---	8,000	24,150	31,986	27,600	15,650	27,000	42,850	40,250	35,400	31,038	
	---	---	---	2,616	6,864	4,055	22,132	---	8,505	3,182	7,472	11,174	
	0	0	1	2	7	4	2	1	4	2	3	26	
Data Proc	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	26,350	25,000	33,150	---	40,000	---	---	---	---	30,667	
	---	---	3,323	---	8,273	---	---	---	---	---	---	7,047	
	0	0	2	1	2	0	1	0	0	0	0	6	
Consulting	---	---	---	---	---	---	---	---	---	---	---	39,000	
	---	---	---	27,700	33,913	39,550	54,667	30,644	40,275	53,278	20,050	38,312	
	---	---	---	16,582	14,516	7,815	22,745	14,555	17,280	26,973	28,355	20,083	
	0	0	0	6	8	4	3	9	8	9	2	49	
Other	---	---	---	---	---	---	---	---	---	---	---	37,000	
	---	---	28,400	40,608	32,800	36,283	45,978	42,863	40,570	45,870	40,000	41,032	
	---	---	2,946	15,772	6,275	8,349	34,336	10,548	29,582	22,126	---	21,377	
	0	0	3	6	4	6	9	8	10	10	1	57	
TOTAL	---	---	26,400	29,500	35,000	37,850	40,500	42,000	44,000	45,000	34,650	35,050	
	---	---	25,877	29,907	35,591	38,772	42,231	43,794	47,004	47,205	37,353	37,253	
	---	---	5,822	7,414	10,374	12,839	15,054	15,441	22,702	24,279	18,993	15,379	
	0	0	313	655	638	438	421	359	266	172	160	3,422	

SALARIES OF FULL-TIME EMPLOYED B.S. CHEMISTS by SPECIALTY and YEARS SINCE BACHELOR'S DEGREE

SPECIALTY	YEARS SINCE BS										No Resp	TOTAL		
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>= 40				
Biochemistry	---	---	---	---	---	---	---	---	---	---	---	---	20,550	-Median
	12,667	17,886	17,244	17,800	18,167	24,833	25,850	33,900	57,000	27,500	---	---	24,524	-Mean
	3,276	13,920	3,250	4,086	16,434	3,416	4,172	21,538	32,955	38,891	---	---	19,111	-Std Dev
	6	7	9	4	3	6	2	6	5	2	0	---	50	-Count
Agric/Food	---	---	---	---	---	---	---	---	---	---	---	---	27,000	
	14,000	14,707	20,852	24,533	29,425	31,327	31,106	37,176	32,658	36,000	27,800	---	27,713	
	1,414	5,377	4,747	10,057	6,140	9,704	8,818	23,531	8,845	16,447	---	---	13,635	
	2	15	21	15	8	11	17	17	12	10	1	---	129	
Analytical	---	---	---	---	---	---	---	---	---	---	---	---	23,000	
	17,400	17,000	20,000	23,350	26,000	28,000	30,000	30,000	30,000	24,850	---	---	23,948	
	16,397	17,217	20,137	24,141	25,549	28,580	29,361	30,749	30,802	25,675	---	---	9,359	
	4,783	4,407	5,596	5,931	7,403	5,265	10,669	11,623	15,220	11,707	---	---	776	
	35	126	155	108	73	65	66	87	41	20	0	---	---	
Environmental	---	---	---	---	---	---	---	---	---	---	---	---	25,000	
	16,500	14,782	18,390	25,630	26,946	34,203	35,025	27,919	37,175	29,067	19,000	---	26,046	
	2,121	4,046	6,383	5,745	8,137	7,656	11,954	7,796	15,305	13,188	---	---	10,770	
	2	28	41	23	24	40	12	26	12	9	1	---	218	
Inorganic	---	---	---	---	---	---	---	---	---	---	---	---	27,050	
	17,000	16,810	19,563	24,055	26,800	34,509	37,691	22,513	35,245	41,000	---	---	26,998	
	1,414	3,841	4,634	10,706	7,481	13,028	9,200	15,480	8,126	16,823	---	---	11,943	
	2	10	19	11	8	11	11	8	11	3	0	---	94	
Organic	---	---	---	---	---	---	---	---	---	---	---	---	28,000	
	19,225	17,241	21,691	23,942	30,303	31,962	36,731	34,543	39,380	40,280	---	---	29,678	
	3,279	3,487	5,001	3,739	8,317	11,199	13,120	11,449	10,288	14,592	---	---	11,865	
	4	29	44	24	37	34	29	47	15	20	0	---	283	
Harm/Med	---	---	---	---	---	---	---	---	---	---	---	---	22,250	
	14,908	15,632	16,743	19,876	27,792	30,100	29,367	31,092	32,486	26,075	---	---	22,712	
	3,603	4,642	8,924	10,712	6,436	7,194	11,650	11,922	17,490	9,417	---	---	11,103	
	12	22	30	25	12	20	15	13	7	4	0	---	160	
Phys/Theo	---	---	---	---	---	---	---	---	---	---	---	---	24,000	
	12,950	16,400	22,460	24,340	21,000	30,233	34,260	26,200	41,433	40,050	---	---	26,942	
	9,276	3,329	4,812	4,897	4,243	5,811	9,220	3,915	5,666	14,213	---	---	10,693	
	4	6	5	5	2	6	5	4	6	2	0	---	45	
Polymer	---	---	---	---	---	---	---	---	---	---	---	---	28,800	
	18,633	18,925	21,534	26,912	29,400	31,938	36,395	34,018	47,509	34,061	---	---	30,899	
	1,300	5,310	6,266	5,164	6,201	13,939	9,282	14,159	34,301	16,773	---	---	16,544	
	6	32	53	25	25	29	55	49	33	18	0	---	325	
General	---	---	---	---	---	---	---	---	---	---	---	---	26,000	
	16,450	15,800	19,139	19,600	27,771	32,656	31,507	31,277	47,277	52,277	---	---	29,528	
	4,553	3,593	6,785	6,535	8,035	6,505	9,912	11,581	48,820	46,754	---	---	24,773	
	8	18	28	14	17	16	15	26	22	13	0	---	177	
Other Chem	---	---	---	---	---	---	---	---	---	---	---	---	27,900	
	17,840	16,576	21,179	26,550	33,338	33,070	37,857	29,405	37,375	36,169	---	---	29,472	
	3,642	2,971	6,321	8,096	9,529	12,086	16,928	13,799	18,416	25,657	---	---	14,720	
	5	21	24	18	24	23	23	20	16	13	0	---	187	
TOTAL	16,350	17,000	20,000	23,400	28,000	30,500	31,450	30,500	35,000	31,500	---	---	25,000	
	16,106	16,807	20,034	23,966	27,983	31,335	33,501	31,740	39,146	35,667	23,400	---	26,852	
	4,492	4,762	6,096	7,144	8,169	9,340	11,609	13,236	26,245	22,852	6,223	---	13,860	
	86	314	429	272	233	261	250	303	180	114	2	---	2,444	

Table-1.4.2

SALARIES OF FULL-TIME EMPLOYED M.S. CHEMISTS by SPECIALTY and YEARS SINCE BACHELOR'S DEGREE

SPECIALTY	YEARS SINCE BS										No Resp	TOTAL	
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>= 40			
Biochemistry	---	---	15,600	---	---	---	---	---	---	---	---	---	22,300
	---	15,867	16,625	23,038	23,622	31,820	27,275	26,050	33,733	21,350	34,067	---	23,294
	---	4,373	4,839	6,887	11,099	6,638	6,921	8,573	5,900	3,748	9,657	---	8,846
	0	3	16	13	9	5	4	4	3	2	3	---	62
Agric/Food	---	---	---	---	---	---	---	---	---	---	---	---	29,000
	---	16,250	26,488	25,150	30,009	36,350	42,190	41,467	39,213	29,550	21,300	---	32,996
	---	5,303	11,780	5,542	6,395	13,938	30,048	27,048	15,870	9,369	---	---	17,933
	0	2	8	12	11	6	10	9	8	4	1	---	71
Analytical	---	18,750	20,500	23,100	28,400	29,500	32,000	35,000	29,000	30,200	---	---	26,000
	---	18,638	20,760	23,991	28,182	30,708	31,909	34,022	27,904	32,107	25,767	---	26,969
	---	4,050	5,939	6,662	11,577	11,933	10,327	7,841	10,516	7,453	7,543	---	9,880
	0	16	84	75	50	37	56	45	24	15	12	---	414
Environment	---	---	21,000	22,700	29,350	26,300	34,300	---	---	---	---	---	25,000
	---	18,557	20,342	24,067	28,190	30,571	30,753	29,836	28,458	34,857	26,533	---	26,544
	---	3,296	6,832	9,141	7,053	20,101	10,485	14,405	13,500	6,285	11,843	---	11,799
	0	7	31	21	20	17	17	14	12	7	3	---	149
Inorganic	---	---	---	---	---	---	---	---	---	---	---	---	28,100
	---	19,300	22,575	24,529	24,338	31,450	37,770	26,162	27,950	32,000	34,917	---	28,614
	---	3,111	4,454	4,281	11,148	8,957	7,590	7,551	16,385	2,449	13,138	---	10,009
	0	2	8	7	8	8	10	13	6	4	6	---	72
Organic	---	---	20,250	25,000	29,800	35,000	34,500	33,800	35,700	---	---	---	28,650
	---	17,867	19,539	24,797	29,759	32,183	37,255	34,031	42,760	29,700	37,675	---	30,742
	---	2,317	5,604	5,085	11,050	14,525	10,107	13,243	21,304	22,259	10,342	---	14,162
	0	6	38	34	27	29	33	39	25	9	8	---	248
Pharm/Med	---	---	18,850	26,000	29,900	28,150	---	33,000	---	---	---	---	26,500
	---	19,620	19,225	26,126	29,582	26,094	28,440	33,676	40,930	41,333	30,380	---	27,659
	---	5,331	4,457	5,075	8,120	11,372	7,168	8,440	33,596	16,442	6,912	---	12,752
	0	5	28	23	22	18	10	17	10	3	5	---	141
Phys/Theo	---	---	---	---	---	---	---	---	---	---	---	---	30,000
	---	18,000	---	28,740	29,000	30,433	34,467	32,625	27,000	41,000	27,633	---	29,548
	---	4,518	---	3,422	---	4,008	1,361	6,600	23,388	8,202	13,882	---	10,019
	0	3	0	5	1	3	3	4	3	2	3	---	27
Polymer	---	---	22,800	25,200	31,500	32,700	33,600	35,000	36,000	---	---	---	30,000
	---	20,500	23,246	25,056	31,068	32,367	38,177	37,609	39,194	34,920	31,171	---	31,710
	---	1,620	5,337	7,538	10,543	11,715	16,276	11,147	13,420	12,465	11,939	---	12,483
	0	5	37	27	22	21	31	34	16	10	7	---	210
General	---	---	16,000	16,700	23,000	22,000	24,800	27,800	---	---	---	---	22,000
	---	12,140	17,454	17,773	22,129	24,764	24,800	29,572	24,820	25,811	22,983	---	22,738
	---	2,334	5,087	6,896	10,485	10,872	9,758	14,348	5,367	13,681	4,436	---	10,576
	0	5	24	33	31	28	28	29	10	9	6	---	203
Other Chem	---	---	21,000	25,150	---	---	---	34,500	---	---	---	---	28,000
	---	20,450	21,124	24,019	24,714	32,333	30,242	32,970	40,050	31,740	13,900	---	27,648
	---	3,323	7,381	6,081	12,404	20,648	5,791	10,897	9,658	14,121	12,638	---	11,347
	0	2	21	16	14	3	12	20	8	10	3	---	109
TOTAL	---	18,350	20,500	24,000	28,000	28,800	31,000	33,700	32,300	30,900	28,300	---	26,100
	---	18,039	20,462	23,732	27,484	29,995	33,067	33,299	34,790	31,823	29,049	---	27,888
	---	3,981	6,215	6,882	10,547	13,096	13,002	12,407	17,783	12,617	10,853	---	12,198
	0	56	295	266	215	175	214	228	125	75	57	---	1,706

SALARIES OF FULL-TIME EMPLOYED Ph.D CHEMISTS by SPECIALTY and YEARS SINCE BACHELOR'S DEGREE

SPECIALTY	YEARS SINCE BS										TOTAL		
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>= 40			No Resp
Biochemistry	---	---	19,050	22,000	28,000	32,000	36,000	36,800	39,250	42,750	30,000	30,250	-Media
	---	---	16,855	22,190	28,604	32,909	36,083	36,032	40,488	41,013	30,260	31,769	-Mean
	---	---	9,189	6,989	9,268	14,073	13,297	11,494	17,904	14,241	12,671	13,660	-Std Dev
	0	0	20	91	113	94	81	73	52	40	42	606	-Count
Agric/Food	---	---	---	27,000	30,000	35,900	36,500	42,000	45,650	49,850	---	32,750	
	---	---	23,885	28,349	30,793	38,134	36,068	44,267	56,482	47,411	34,592	36,850	
	---	---	3,749	7,624	11,439	16,617	13,866	15,187	45,224	19,877	17,437	20,580	
	0	0	13	41	43	38	28	21	22	18	12	236	
Analytical	---	---	26,000	27,500	31,300	30,700	36,600	35,000	32,250	30,150	30,000	29,650	
	---	---	24,790	26,867	31,328	32,364	38,259	36,344	34,331	31,422	30,494	31,132	
	---	---	5,576	6,703	11,154	11,605	13,513	12,920	13,687	11,728	10,301	11,299	
	0	0	80	125	149	83	75	55	32	18	31	648	
Environment	---	---	25,350	26,300	28,050	35,200	37,500	38,100	44,700	---	---	32,000	
	---	---	24,068	27,322	27,448	33,111	38,936	39,531	44,614	31,490	25,800	32,390	
	---	---	7,263	8,239	11,326	8,310	19,659	10,691	19,675	15,505	15,436	14,333	
	0	0	22	49	44	27	36	26	21	10	6	241	
Inorganic	---	---	26,000	27,000	27,000	29,500	30,300	35,000	39,100	---	---	28,350	
	---	---	24,989	26,700	28,882	30,669	30,549	37,542	37,645	40,358	28,189	30,019	
	---	---	6,132	8,207	10,411	11,558	10,768	16,593	10,610	17,060	7,768	11,424	
	0	0	54	70	72	67	35	33	22	12	9	374	
Organic	---	---	26,000	26,400	30,400	30,400	31,000	37,700	36,600	35,800	30,000	30,000	
	---	---	24,195	25,916	31,689	32,129	33,996	38,069	39,223	43,616	32,629	32,469	
	---	---	6,801	8,021	18,351	13,073	14,257	14,910	22,439	20,788	18,244	16,012	
	0	0	91	185	208	175	155	118	94	58	51	1,135	
Pharm/Med	---	---	22,600	28,500	36,400	39,050	45,000	46,000	41,700	48,000	40,000	36,000	
	---	---	21,141	29,052	36,854	40,350	44,739	48,853	47,777	47,145	44,700	38,858	
	---	---	6,539	8,958	11,996	13,392	18,592	15,806	23,536	20,323	21,409	17,080	
	0	0	27	95	85	68	49	43	35	33	30	465	
Phys/Theo	---	---	25,500	25,900	27,500	28,500	32,500	36,000	38,500	40,000	36,000	30,000	
	---	---	22,879	24,975	29,410	30,171	32,763	37,021	39,774	43,926	35,289	31,902	
	---	---	8,652	7,875	10,214	9,912	10,388	16,029	13,458	26,099	15,204	13,876	
	0	0	34	93	87	93	88	66	50	38	19	568	
Polymer	---	---	26,150	32,000	36,000	37,000	41,200	42,500	41,000	46,950	31,450	37,000	
	---	---	24,993	32,349	36,435	38,170	42,616	44,087	42,275	50,015	33,497	38,122	
	---	---	7,493	8,843	10,182	11,616	8,523	16,208	13,957	31,881	10,712	13,830	
	0	0	42	101	107	81	105	71	59	26	30	622	
General	---	---	---	25,300	23,850	22,800	25,500	27,000	28,000	36,100	---	26,000	
	---	8,100	21,044	21,503	25,974	27,090	37,613	27,578	32,905	35,263	29,213	28,572	
	---	---	6,624	9,489	10,307	10,695	26,196	11,926	12,083	16,616	16,988	14,892	
	0	1	9	29	62	39	31	41	20	27	8	267	
Other Chem	---	---	24,000	31,000	32,800	36,000	39,000	41,750	42,000	---	---	35,400	
	---	---	21,831	31,373	34,148	36,267	40,138	48,823	47,237	49,833	49,040	37,435	
	---	---	8,706	7,413	9,436	12,757	10,673	17,895	19,570	20,459	38,475	16,367	
	0	0	16	45	42	27	24	22	19	6	10	211	
TOTAL	---	---	25,500	27,000	30,900	32,650	36,000	38,000	39,950	40,000	32,000	31,300	
	---	8,100	23,648	26,978	31,361	33,431	37,089	39,010	41,337	42,535	34,050	33,396	
	---	---	7,080	8,447	12,907	12,824	14,558	15,380	20,695	21,203	17,454	15,034	
	0	1	408	924	1,012	792	707	569	426	286	248	5,373	

Table-1.5.1

SALARIES OF FULL-TIME EMPLOYED BS CHEMISTS BY GEOGRAPHIC REGION and YEARS SINCE BACHELOR'S DEGREE

YEARS SINCE BS

REGION	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>= 40	No Resp	TOTAL	-Median	-Mean	-Std Dev	-Count
Pacific	---	17,100	20,900	21,250	26,500	30,000	30,300	30,000	---	33,500	---	25,000	25,000	27,472	12,449	251
	17,333	17,467	21,076	23,382	26,581	29,903	31,983	34,663	44,179	33,669	---	27,472	27,472	12,449	251	251
	3,572	6,469	6,043	10,520	5,123	10,030	10,817	11,945	22,431	13,164	0	12,449	12,449	251	251	251
	9	30	42	22	26	33	24	35	14	16	0	251	251	251	251	251
Mountain	---	---	19,300	---	---	---	---	---	---	---	---	23,100	23,100	25,620	11,169	61
	12,650	18,625	18,905	25,550	34,533	35,388	27,280	36,175	42,850	---	---	25,620	25,620	11,169	61	61
	212	4,264	6,286	5,381	16,061	6,672	9,364	11,823	12,940	---	---	11,169	11,169	61	61	61
	2	8	20	6	6	8	5	4	2	0	0	61	61	61	61	61
W N Central	---	15,000	19,000	22,500	---	---	---	28,500	---	---	---	22,000	22,000	25,245	21,934	139
	13,325	15,064	18,997	23,200	27,022	29,285	31,013	31,024	52,809	26,900	---	22,000	22,000	25,245	21,934	139
	3,867	2,758	7,233	4,737	12,311	6,962	8,549	11,063	66,958	18,318	---	21,934	21,934	139	139	139
	4	25	30	17	9	13	8	17	11	5	0	139	139	139	139	139
W S Central	---	17,500	22,350	24,000	32,600	28,000	29,400	31,100	---	---	---	25,000	25,000	27,079	12,949	174
	16,917	17,433	21,987	24,600	30,333	29,167	31,575	32,873	30,182	45,560	27,800	25,000	25,000	27,079	12,949	174
	3,800	3,258	5,291	6,957	7,439	7,761	11,788	22,049	13,187	18,791	---	27,079	27,079	12,949	174	174
	6	21	30	20	15	15	24	26	11	5	1	174	174	174	174	174
E N Central	---	17,950	20,000	23,400	28,000	30,000	30,100	30,000	36,650	36,000	---	24,000	24,000	26,219	14,035	569
	17,370	17,846	19,397	23,515	28,364	30,554	32,250	30,006	42,092	33,995	---	24,000	24,000	26,219	14,035	569
	4,823	5,003	6,333	6,849	6,697	7,259	14,293	12,587	29,765	15,936	---	14,035	14,035	569	569	569
	23	84	105	65	61	46	50	68	48	19	0	569	569	569	569	569
E S Central	---	---	21,100	---	---	---	---	32,400	---	---	---	25,000	25,000	25,982	8,396	94
	23,000	14,914	20,885	22,231	22,967	31,614	29,800	32,181	31,614	26,600	---	25,000	25,000	25,982	8,396	94
	---	2,422	4,571	4,193	5,337	6,552	11,563	8,612	5,803	1,980	---	25,982	25,982	8,396	94	94
	1	7	20	13	6	7	8	16	14	2	0	94	94	94	94	94
Mid Atlantic	16,650	17,000	20,600	24,200	28,000	27,600	32,900	31,000	32,000	31,000	---	25,000	25,000	27,280	14,271	629
	15,809	16,644	19,641	24,327	27,249	30,852	34,358	31,630	35,860	39,783	19,000	25,000	25,000	27,280	14,271	629
	4,930	4,202	6,177	7,254	8,425	12,160	10,832	12,220	17,415	29,184	---	27,280	27,280	14,271	629	629
	22	75	97	73	63	60	71	74	47	46	1	629	629	629	629	629
So Atlantic	---	15,000	21,000	24,500	29,750	30,000	36,300	32,250	36,900	---	---	26,300	26,300	26,775	12,077	321
	15,086	15,511	20,586	24,024	27,757	30,309	37,318	31,268	38,109	33,464	---	26,300	26,300	26,775	12,077	321
	4,103	6,123	5,749	6,929	8,383	6,216	11,630	12,159	14,993	22,343	---	26,775	26,775	12,077	321	321
	14	37	59	37	30	35	38	38	22	11	0	321	321	321	321	321
New England	---	16,450	20,000	25,600	28,200	36,000	31,800	30,000	---	---	---	27,750	27,750	28,698	12,908	188
	12,900	16,158	20,161	25,689	29,600	36,483	34,521	32,681	40,209	26,289	---	27,750	27,750	28,698	12,908	188
	3,672	3,337	6,223	8,332	9,949	7,677	8,535	15,109	20,472	19,252	---	28,698	28,698	12,908	188	188
	4	26	23	18	15	42	19	21	11	9	0	188	188	188	188	188
TOTAL	16,500	17,000	20,000	23,400	28,000	30,500	31,400	30,500	35,000	31,700	---	25,000	25,000	26,871	13,883	2,426
	16,108	16,810	20,025	23,981	27,956	31,502	33,499	31,807	39,146	35,706	23,400	25,000	25,000	26,871	13,883	2,426
	4,518	4,770	6,113	7,153	8,136	9,139	11,657	13,299	26,245	22,950	6,223	25,000	25,000	26,871	13,883	2,426
	85	313	426	271	231	259	247	299	180	113	2	2,426	2,426	2,426	2,426	2,426

SALARIES OF FULL-TIME EMPLOYED M.S. CHEMISTS by GEOGRAPHIC REGION and YEARS SINCE BACHELOR'S DEGREE

YEARS SINCE BS

REGION	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>= 40	No Resp	TOTAL
Pacific	---	---	19,650	24,250	27,300	23,000	29,500	---	---	---	---	24,750
	---	18,017	18,865	25,265	21,950	25,015	29,095	37,057	39,014	36,933	27,500	25,884
	---	2,840	9,349	5,879	12,103	9,134	9,918	13,053	23,257	12,669	9,115	12,039
	0	6	34	26	18	20	20	14	7	6	7	158
Mountain	---	---	---	---	---	---	---	---	---	---	---	24,000
	---	19,900	17,864	22,585	21,883	28,540	32,986	28,233	29,250	33,267	28,675	24,931
	---	2,381	5,038	4,395	11,574	7,969	9,308	8,280	6,602	7,457	11,001	8,637
	0	3	11	13	6	5	7	3	4	3	4	59
W N Central	---	---	19,700	21,550	26,400	---	---	---	---	---	---	24,000
	---	21,500	19,107	21,775	28,265	30,082	31,529	46,825	43,667	13,633	25,780	27,420
	---	2,121	4,780	6,274	10,936	19,141	6,109	22,566	10,017	11,936	9,404	14,197
	0	2	15	16	17	11	7	8	3	3	5	87
W S Central	---	---	21,800	---	---	---	---	39,000	---	---	---	25,500
	---	16,900	22,323	24,908	29,471	23,050	26,800	39,676	22,917	31,680	35,000	27,340
	---	5,425	5,462	8,067	9,209	16,476	13,167	11,804	13,057	7,427	17,059	12,015
	0	3	26	13	7	10	12	17	6	5	3	102
E N Central	---	---	21,750	24,400	28,000	30,100	30,800	31,600	33,500	29,000	30,600	27,000
	---	19,072	21,647	23,634	28,540	30,472	34,295	31,879	35,306	28,932	31,393	28,103
	---	4,472	4,983	7,665	8,866	15,273	15,748	10,284	15,333	9,420	14,033	11,801
	0	18	74	71	57	43	44	62	36	19	15	439
E S Central	---	---	---	---	---	---	---	---	---	---	---	25,000
	---	21,767	16,133	21,333	27,743	35,714	27,527	25,989	27,875	37,200	34,550	26,351
	---	2,732	4,184	5,855	15,088	14,509	8,609	13,320	8,815	7,045	6,859	11,274
	0	3	9	9	7	7	11	9	4	4	2	65
Mid Atlantic	---	---	21,050	24,500	27,950	29,150	32,000	34,000	33,000	32,450	---	26,500
	---	16,482	20,851	24,776	27,964	29,915	34,830	32,902	35,157	32,695	25,583	28,476
	---	3,984	6,623	6,021	11,144	11,160	13,531	12,991	19,802	13,441	7,543	12,555
	0	11	74	68	56	40	61	53	37	20	12	432
So Atlantic	---	---	18,800	23,800	30,000	28,200	34,000	34,000	35,000	---	---	27,500
	---	15,975	19,903	22,981	29,320	30,322	34,937	32,998	35,976	42,400	28,586	29,033
	---	2,736	6,319	7,609	8,783	8,674	10,028	10,408	21,315	16,580	10,057	12,257
	0	8	30	37	30	18	30	43	21	6	7	230
New England	---	---	20,600	---	---	36,500	37,000	29,300	---	---	---	25,500
	---	15,500	20,295	22,075	25,879	36,753	34,680	30,788	36,900	32,400	33,800	29,197
	---	4,243	3,610	8,695	13,128	11,858	15,108	11,526	17,351	9,820	15,839	12,819
	0	2	21	12	14	17	20	17	6	8	2	119
TOTAL	---	18,350	20,500	24,000	28,100	28,800	31,000	33,900	32,450	31,050	28,300	26,100
	---	18,039	20,470	23,746	27,557	30,011	33,175	33,403	34,829	32,253	29,049	27,935
	---	3,981	6,224	6,891	10,587	13,150	13,010	12,404	17,850	12,137	10,853	12,208
	0	56	294	265	212	171	212	226	124	74	57	1,691

SALARIES OF FULL-TIME EMPLOYED Ph.D CHEMISTS by GEOGRAPHIC REGION and YEARS SINCE BACHELOR'N DEGREE

REGION	YEARS SINCE BS											TOTAL	-Median	-Mean	-Std Dev	-Count
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>= 40	No Resp					
Pacific	---	---	25,000	28,000	32,000	36,000	36,000	38,000	40,000	40,000	36,000	31,750	32,000	33,210	12,723	537
	---	---	24,432	27,599	32,093	37,112	36,568	37,292	37,648	34,539	32,885	31,750	33,210	12,723	537	
	---	---	7,929	8,481	9,940	15,170	11,931	12,194	16,680	14,564	14,167	31	20			
	0	0	37	100	101	77	68	61	42	31	20					
Mountain	---	---	---	25,650	25,900	29,650	32,000	30,600	---	---	---	---	28,300	29,978	13,262	190
	---	---	23,229	25,811	26,492	30,588	34,983	31,237	35,579	45,500	29,143	29,978	13,262	190		
	---	---	4,415	9,452	11,315	6,558	18,924	7,395	9,332	26,726	18,212	18,212	190			
	0	0	14	36	39	24	29	19	14	8	7					
W N Central	---	---	24,600	25,600	27,500	30,000	29,400	30,000	33,700	30,050	---	28,000	29,517	12,495	347	
	---	---	21,937	25,062	27,560	31,223	31,634	30,357	37,670	34,206	29,608	28,000	29,517	12,495	347	
	---	---	7,217	6,664	9,084	12,906	13,625	13,319	17,831	17,433	7,674	12,495	12,495	347		
	0	0	27	50	67	61	44	37	30	18	13					
W S Central	---	---	26,400	26,050	30,250	30,000	35,450	36,000	40,500	---	---	30,000	31,702	13,229	353	
	---	---	25,677	25,373	29,653	31,811	35,248	35,856	42,281	48,245	33,590	30,000	31,702	13,229	353	
	---	---	4,994	9,476	9,957	9,823	14,100	15,179	15,169	16,961	19,143	33,590	31,702	13,229	353	
	0	0	35	66	70	35	56	43	16	11	21					
E N Central	---	---	26,000	28,100	30,000	32,900	35,200	38,500	37,250	42,000	30,550	31,100	33,740	13,731	1,076	
	---	---	8,100	23,588	28,641	31,164	33,868	39,250	40,240	44,033	34,887	31,100	33,740	13,731	1,076	
	---	---	7,588	8,744	11,582	12,357	10,877	14,886	14,185	19,800	19,518	13,731	33,740	13,731	1,076	
	0	1	84	179	199	154	141	110	90	72	46					
E S Central	---	---	25,000	24,600	29,800	29,000	34,650	34,000	36,650	---	---	29,000	30,843	13,064	228	
	---	---	22,068	24,773	30,253	30,603	36,723	37,144	38,441	35,090	32,438	29,000	30,843	13,064	228	
	---	---	7,266	9,080	9,441	10,930	19,146	13,582	15,449	11,138	16,033	32,438	30,843	13,064	228	
	0	0	19	45	47	35	26	16	22	10	8					
Mid Atlantic	---	---	26,450	28,800	35,000	35,000	38,000	40,000	41,850	40,000	33,300	34,000	36,165	17,639	1,331	
	---	---	24,452	28,098	34,646	34,876	41,196	43,301	46,359	44,188	36,355	34,000	36,165	17,639	1,331	
	---	---	7,981	8,416	16,673	14,152	17,371	17,113	23,907	23,444	21,120	36,355	36,165	17,639	1,331	
	0	0	106	215	255	189	163	145	110	77	71					
So Atlantic	---	---	24,000	25,900	30,000	32,000	36,050	40,000	41,800	46,000	33,300	31,250	33,047	15,827	906	
	---	---	22,370	26,141	29,367	32,050	36,625	39,794	40,975	48,960	33,972	31,250	33,047	15,827	906	
	---	---	5,854	7,269	11,799	12,142	13,366	14,296	28,307	25,809	13,030	33,047	33,047	15,827	906	
	0	0	61	149	171	140	126	106	71	43	39					
New England	---	---	25,000	26,400	31,250	30,700	36,200	38,750	40,000	---	---	30,000	32,097	13,693	361	
	---	---	22,100	25,619	32,427	32,337	36,155	39,693	39,781	32,979	33,682	30,000	32,097	13,693	361	
	---	---	5,550	8,279	13,472	11,762	12,659	18,817	20,087	8,527	14,199	33,682	32,097	13,693	361	
	0	0	21	77	56	70	49	30	27	14	17					
TOTAL	---	---	25,500	27,000	30,800	32,800	36,000	38,000	39,950	40,000	32,000	31,300	33,395	15,045	5,329	
	---	---	23,618	27,009	31,336	33,425	37,007	39,035	41,318	42,507	34,277	31,300	33,395	15,045	5,329	
	---	---	7,101	8,447	12,922	12,854	14,520	15,394	20,769	21,158	17,589	31,300	33,395	15,045	5,329	

YEARS SINCE BS

STATE	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>= 40	No Resp	TOTAL	-Median	-Mean	-Std Dev	-Count
California	---	17,050	20,800	21,000	27,050	30,250	30,600	30,000	---	---	---	25,300	---	---	---	---
	17,271	17,350	21,231	23,105	26,995	31,300	32,224	35,867	44,231	34,586	---	28,032	---	---	---	---
	3,395	6,855	6,086	11,166	5,295	8,248	11,178	12,644	23,346	13,840	---	12,865	---	---	---	---
	7	26	35	19	20	24	21	27	13	14	0	206	---	---	---	---
Texas	---	---	22,600	---	---	---	30,000	31,000	---	---	---	25,000	---	---	---	---
	17,000	17,762	21,900	26,445	29,936	29,470	31,378	29,540	25,233	76,000	58,700	26,871	---	---	---	---
	4,243	2,847	5,124	6,887	7,352	9,103	12,444	11,644	14,880	---	---	10,769	---	---	---	---
	5	13	16	11	11	10	18	15	6	1	1	107	---	---	---	---
Illinois	---	17,200	19,500	22,250	---	---	29,900	29,500	31,500	---	---	23,500	---	---	---	---
	17,833	17,757	18,355	22,961	27,908	28,917	30,255	31,675	35,350	26,667	---	25,433	---	---	---	---
	4,537	3,629	6,751	5,772	7,554	10,436	16,026	15,131	22,211	28,095	---	13,602	---	---	---	---
	3	23	33	18	13	12	20	20	18	3	0	163	---	---	---	---
Michigan	---	18,600	23,250	27,250	30,000	---	---	---	---	---	---	24,900	---	---	---	---
	15,683	16,816	20,111	26,650	31,720	28,100	36,922	26,033	61,250	29,120	---	28,618	---	---	---	---
	7,727	6,944	7,805	9,063	8,418	2,458	11,558	16,376	60,786	16,899	---	22,045	---	---	---	---
	6	19	18	16	15	4	9	9	8	5	0	109	---	---	---	---
Ohio	---	18,250	17,850	---	26,600	30,700	31,000	31,300	---	---	---	26,000	---	---	---	---
	18,338	18,996	18,396	22,477	26,629	32,000	32,694	30,294	39,757	38,383	---	26,836	---	---	---	---
	4,263	5,263	6,449	3,899	5,005	5,706	15,362	10,989	12,194	8,009	---	10,684	---	---	---	---
	8	26	28	13	24	19	16	31	14	6	0	185	---	---	---	---
New Jersey	---	17,000	22,000	25,000	30,150	28,600	34,300	29,850	35,500	30,000	---	25,500	---	---	---	---
	14,743	16,741	21,846	23,809	29,117	30,460	34,915	31,275	40,038	35,583	---	28,149	---	---	---	---
	7,463	2,429	4,028	9,491	6,072	9,282	11,163	17,173	21,101	17,582	---	13,115	---	---	---	---
	7	27	39	23	24	25	26	24	16	24	0	235	---	---	---	---
New York	---	17,100	18,500	22,200	28,100	25,550	32,700	30,750	32,500	---	---	24,700	---	---	---	---
	15,071	17,050	18,424	24,318	28,343	31,010	35,818	31,207	34,753	57,333	44,200	27,706	---	---	---	---
	2,027	4,642	6,514	7,395	8,487	16,382	13,603	10,196	9,466	55,229	---	17,016	---	---	---	---
	7	30	29	22	21	20	22	30	15	9	1	206	---	---	---	---
Pennsylvania	---	16,150	18,500	23,950	26,400	27,200	32,000	31,950	29,700	---	---	25,000	---	---	---	---
	17,388	15,822	17,893	24,761	23,483	31,293	32,330	32,690	32,719	35,385	---	26,387	---	---	---	---
	4,139	5,481	7,408	4,897	10,141	10,524	6,947	7,513	19,257	16,751	---	11,447	---	---	---	---
	8	18	29	28	18	15	23	20	16	13	0	188	---	---	---	---
All other states	15,600	16,000	20,000	23,500	28,500	33,150	33,400	30,500	35,100	30,500	---	25,000	---	---	---	---
	15,346	16,102	20,361	23,616	28,234	43,379	34,040	31,955	39,885	31,279	---	28,331	---	---	---	---
	3,876	4,314	5,757	6,475	9,278	27,614	10,418	14,069	28,500	17,381	---	17,113	---	---	---	---
	35	132	202	122	87	132	95	127	74	39	0	1,045	---	---	---	---

SALARIES OF FULL-TIME EMPLOYED MS CHEMISTS by SELECTED STATES and YEARS SINCE BACHELOR'S DEGREE

STATE	YEARS SINCE BS										TOTAL	-Median -Mean -Std Dev -Count	
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>= 40			
California	---	---	19,900	25,350	28,600	23,000	---	---	---	---	---	---	25,000
	---	19,050	19,587	26,014	22,318	24,961	31,050	38,492	28,740	36,933	---	---	25,827
	---	2,408	9,718	5,900	12,372	9,531	5,901	13,541	5,425	12,669	---	---	11,148
	0	4	30	22	17	18	10	12	5	6	---	---	124
Texas	---	---	24,500	---	---	---	---	---	---	---	---	---	25,500
	---	16,900	23,327	23,667	32,120	11,900	32,150	42,356	23,920	28,200	---	---	27,191
	---	5,425	6,362	10,305	8,423	16,570	10,707	10,550	14,337	3,818	---	---	12,771
	0	3	15	6	5	5	8	9	5	2	---	---	58
Illinois	---	---	21,600	24,400	---	---	---	31,000	---	---	---	---	26,000
	---	18,800	21,589	24,294	27,485	31,071	36,400	31,783	31,846	31,625	---	---	27,894
	---	5,392	4,610	9,003	9,439	8,860	26,804	7,244	9,450	7,294	---	---	12,127
	0	6	27	17	13	14	13	18	13	4	---	---	125
Michigan	---	---	21,000	24,800	---	---	---	---	---	---	---	---	26,850
	---	18,933	21,260	24,216	29,579	28,813	39,975	33,950	51,200	29,500	---	---	28,550
	---	3,386	3,463	7,954	12,121	31,673	17,409	8,763	17,123	7,778	---	---	15,166
	0	3	15	19	14	8	4	8	5	2	---	---	78
Ohio	---	---	22,000	23,000	29,000	---	---	30,800	---	---	---	---	28,000
	---	19,357	21,860	21,445	28,689	33,118	31,736	32,861	36,008	27,700	---	---	28,496
	---	5,230	7,239	6,616	7,204	9,072	5,403	12,245	17,845	12,155	---	---	10,918
	0	7	20	20	19	11	22	28	13	10	---	---	150
New Jersey	---	---	24,000	23,500	28,000	27,900	33,000	33,800	36,400	---	---	---	27,900
	---	18,525	24,614	25,211	27,381	27,041	36,207	29,461	37,100	34,933	---	---	29,365
	---	2,861	6,449	6,700	7,711	9,507	10,387	14,327	19,860	8,474	---	---	11,522
	0	4	22	28	27	17	29	18	16	6	---	---	167
New York	---	---	20,100	22,100	---	---	---	29,000	---	---	---	---	25,000
	---	12,200	19,472	23,917	26,757	29,863	30,700	33,435	32,400	25,467	---	---	26,809
	---	3,342	6,029	6,097	10,213	4,769	10,181	14,407	27,319	5,101	---	---	12,667
	0	3	25	18	14	8	23	17	11	6	---	---	125
Pennsylvania	---	---	20,100	25,150	26,300	30,000	---	34,750	---	---	---	---	26,250
	---	17,650	19,063	24,927	30,140	33,200	40,944	35,839	35,080	36,438	---	---	29,216
	---	3,400	6,236	5,191	16,536	14,515	24,748	9,676	8,118	18,852	---	---	13,953
	0	4	27	22	15	15	9	18	10	8	---	---	128
Others	---	---	20,000	23,000	26,400	30,000	30,600	31,550	32,300	30,200	---	---	26,000
	---	18,041	19,446	22,909	27,325	31,822	31,800	32,414	35,034	32,010	---	---	27,606
	---	3,462	4,955	6,792	10,361	11,866	11,696	12,942	18,552	13,662	---	---	12,050
	0	22	114	114	91	79	96	100	47	31	---	---	694
TOTAL	---	18,350	20,500	24,000	28,000	28,800	31,000	33,700	32,300	30,900	---	---	26,000
	---	18,039	20,462	23,732	27,484	29,995	33,067	33,299	34,790	31,823	---	---	27,848
	---	3,981	6,215	6,882	10,547	13,096	13,002	12,407	17,783	12,617	---	---	12,242

SALARIES OF FULL-TIME EMPLOYED Ph.D. CHEMISTS by SELECTED STATES and YEARS SINCE BACHELOR'S DEGREE

YEARS SINCE BS

STATE	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>= 40	No Resp	TOTAL	-Median	-Mean	-Std Dev	-Count
California	---	---	26,000	28,250	32,000	36,000	35,700	39,250	41,100	40,000	30,000	32,200	33,953	12,889	440	
	---	---	24,788	28,141	32,490	37,798	37,790	38,584	39,744	35,925	33,924	33,953	33,953	12,889	440	
	0	0	8,389	7,818	9,894	16,079	11,640	12,753	17,057	13,867	13,750	12,889	12,889	440		
	0	0	32	86	82	65	52	50	32	24	17	32,200	33,953	12,889	440	
Texas	---	---	27,100	23,900	30,500	30,000	35,450	38,000	---	---	38,500	30,850	32,008	13,721	222	
	---	---	25,819	24,253	29,606	32,272	34,068	40,896	41,450	59,900	34,594	32,008	32,008	13,721	222	
	---	---	5,793	10,174	10,600	10,255	13,229	11,685	15,599	16,509	20,597	30,850	32,008	13,721	222	
	0	0	21	40	51	18	38	23	10	5	16	30,850	32,008	13,721	222	
Illinois	---	---	26,000	27,000	30,600	29,500	35,200	35,000	38,400	44,000	---	30,200	33,728	13,688	294	
	---	---	25,931	27,050	31,475	32,229	34,623	34,961	42,225	46,264	35,877	30,200	33,728	13,688	294	
	---	---	3,787	5,816	13,565	13,728	9,554	14,116	16,968	15,834	16,855	33,728	33,728	13,688	294	
	0	0	16	54	52	35	35	36	28	25	13	30,200	33,728	13,688	294	
Michigan	---	---	27,500	32,000	29,150	36,050	38,100	44,000	40,850	---	---	33,050	34,644	13,852	234	
	---	---	25,059	30,719	31,671	34,880	38,057	43,356	42,550	41,000	31,685	33,050	34,644	13,852	234	
	---	---	7,574	7,923	12,980	12,362	13,328	13,624	15,735	30,849	12,106	33,050	34,644	13,852	234	
	0	0	27	37	38	30	37	27	18	7	13	33,050	34,644	13,852	234	
Ohio	---	---	25,600	29,100	31,900	33,850	36,000	38,250	35,000	43,000	---	32,000	33,673	11,814	310	
	---	---	23,131	31,120	30,890	33,467	35,918	41,905	37,718	46,705	30,600	32,000	33,673	11,814	310	
	---	---	7,972	10,975	7,511	9,634	9,075	15,230	11,621	15,693	8,415	32,000	33,673	11,814	310	
	0	1	29	49	58	48	40	20	33	21	11	32,000	33,673	11,814	310	
New Jersey	---	---	27,000	30,700	35,000	40,000	42,600	40,000	47,000	46,000	33,850	36,000	38,722	18,352	437	
	---	---	26,386	30,276	37,404	39,627	43,948	45,469	50,478	47,464	41,596	36,000	38,722	18,352	437	
	---	---	6,645	7,357	22,638	12,577	14,776	16,642	18,020	19,589	28,956	36,000	38,722	18,352	437	
	0	0	43	74	98	49	46	39	36	28	24	36,000	38,722	18,352	437	
New York	---	---	26,000	28,000	33,000	34,000	36,600	40,000	41,000	41,000	30,800	33,000	34,725	16,533	528	
	---	---	23,081	27,495	32,269	33,132	39,226	42,324	43,461	44,532	31,903	33,000	34,725	16,533	528	
	---	---	8,830	8,291	10,883	14,897	16,894	15,638	19,711	31,805	15,723	33,000	34,725	16,533	528	
	0	0	36	77	97	84	73	62	41	28	30	33,000	34,725	16,533	528	
Pennsylvania	---	---	25,200	26,950	34,000	31,000	38,250	40,500	39,000	35,600	40,000	32,150	35,190	18,025	366	
	---	---	23,200	26,305	33,983	33,334	41,589	42,755	45,467	39,362	36,812	32,150	35,190	18,025	366	
	---	---	8,400	9,257	11,792	13,581	20,387	19,572	32,792	12,857	14,820	32,150	35,190	18,025	366	
	0	0	27	64	60	56	44	44	33	21	17	32,150	35,190	18,025	366	
Others	---	---	24,300	25,800	29,900	30,400	35,500	36,000	38,200	38,000	31,000	30,000	31,809	14,380	2,542	
	---	---	22,367	25,675	29,614	32,106	35,644	36,496	39,132	40,758	33,487	30,000	31,809	14,380	2,542	
	---	---	6,183	8,078	11,328	11,787	14,380	14,900	21,289	21,875	16,221	30,000	31,809	14,380	2,542	
	0	0	177	443	476	407	342	268	195	127	107	30,000	31,809	14,380	2,542	

Table-2.1.0

FULL-TIME EMPLOYED CHEMISTS IN INDUSTRY BY HIGHEST DEGREE AND YEARS SINCE BS

HIGHEST DEGREE	YEARS SINCE BS										TOTAL	-75th %-ile -Median -25th %-ile -Mean -Std Dev -Count
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>= 40		
Bachelors	18,675	19,600	24,550	28,500	33,500	35,000	40,000	40,000	44,000	43,200	33,000	-75th %-ile
	17,400	17,200	21,000	24,000	28,100	30,000	32,900	31,250	35,000	32,000	25,200	-Median
	14,625	15,400	18,350	21,000	23,500	25,200	28,000	26,000	27,300	28,400	19,700	-25th %-ile
	16,621	17,762	21,108	24,713	28,282	31,213	35,014	32,160	40,001	37,738	27,538	-Mean
	4,407	4,294	5,832	7,148	8,492	9,289	11,681	12,393	28,354	23,498	14,150	-Std Dev
	68	253	329	215	187	175	189	230	139	93	1,878	-Count
Masters	-a-	21,750	24,500	29,500	36,000	40,000	41,000	40,000	42,125	40,000	35,700	
	-b-	19,200	21,600	25,000	30,000	33,000	33,600	35,000	35,000	31,050	28,500	
	-c-	17,100	19,225	22,125	25,500	27,000	28,800	29,000	28,000	27,500	22,825	
	-d-	19,351	21,854	25,856	30,268	33,767	36,601	35,226	37,944	32,704	30,189	
	-e-	3,477	5,790	5,661	9,881	13,746	13,662	11,766	18,687	12,860	12,418	
	0	37	206	174	136	109	137	167	80	52	1,098	
Doctorate	-a-	29,000	34,100	41,325	45,000	50,000	50,000	53,275	54,400	59,000	44,000	
	-b-	26,800	30,000	36,000	39,000	42,000	42,000	42,900	44,000	46,000	36,000	
	-c-	25,000	27,000	31,000	33,600	36,000	36,000	36,125	37,000	36,100	29,500	
	-d-	26,437	30,783	36,738	40,019	43,500	43,500	45,259	47,565	49,753	38,221	
	-e-	5,688	6,892	9,866	13,226	14,549	14,549	15,633	20,599	24,915	14,897	
	0	262	529	524	351	319	286	205	135	2,611	2,611	
TOTAL	18,675	20,000	26,600	32,475	39,200	42,000	45,300	45,000	50,000	50,700	39,900	
All Cases	17,400	17,500	23,800	28,100	34,000	35,200	38,000	37,000	39,800	38,750	31,000	
	14,625	15,500	20,000	24,200	28,100	29,400	31,000	30,000	31,000	30,000	24,500	
	16,621	17,965	23,053	28,427	33,832	36,519	39,548	38,394	43,270	42,596	33,052	
	4,407	4,226	6,242	7,281	10,280	12,973	14,120	14,924	23,451	23,693	15,019	
	68	290	797	918	847	635	645	683	424	280	5,587	

SALARIES OF FULL-TIME EMPLOYED CHEMISTS IN INDUSTRY
by WORK FUNCTION and HIGHEST DEGREE

WORK FUNCTION	HIGHEST DEGREE			TOTAL	
	Bachelors	Masters	Doctorate		
R&D Mgmt	34,000	37,000	43,000	40,000	-Median
	36,182	37,437	45,873	42,813	-Mean
	16,976	13,068	16,683	16,814	-Std Dev
	220	172	779	1,171	-Count
Basic Research	20,400	24,700	33,500	30,000	
	22,120	25,435	34,665	31,184	
	7,166	7,796	10,508	10,946	
	103	195	425	623	
Applied R&D	24,000	27,200	32,000	29,100	
	25,051	27,905	33,168	29,820	
	9,020	8,454	9,824	10,015	
	622	421	1,127	2,170	
Gen Mgmt	36,000	37,500	43,000	40,000	
	39,110	41,734	50,639	43,301	
	26,090	19,930	28,900	26,274	
	194	90	130	414	
Marketing	30,000	30,250	38,750	31,700	
	29,519	32,511	38,673	32,360	
	11,167	16,003	11,535	13,231	
	206	114	90	410	
Prod & QC	22,750	26,000	32,000	24,000	
	23,794	26,122	32,789	25,480	
	9,748	8,417	11,141	10,077	
	382	138	76	596	
Forensic	21,500	27,500	29,200	24,050	
	22,891	26,413	31,096	24,979	
	7,543	6,766	10,726	8,449	
	103	39	26	168	
Writing	27,400	25,000	---	27,400	
	26,000	24,713	36,164	27,612	
	9,641	7,002	14,072	10,572	
	17	23	11	51	
Data Proc	---	---	---	---	
	26,500	25,900	28,800	27,327	
	707	5,693	5,995	5,117	
	2	4	5	11	
Consulting	21,500	27,250	43,500	33,150	
	23,344	28,619	45,561	35,118	
	11,790	6,983	18,520	17,479	
	16	16	28	60	
Other	25,000	25,300	39,000	29,800	
	27,010	25,107	41,836	32,169	
	10,640	10,919	15,737	14,942	
	31	28	37	96	
TOTAL	25,800	28,500	36,000	31,000	
	27,765	30,293	38,251	33,233	
	14,211	12,436	15,182	15,150	
	1,896	1,140	2,734	5,770	

Table-2.1.2

SALARIES OF FULL-TIME EMPLOYED CHEMISTS IN INDUSTRY
BY HIGHEST DEGREE AND SELECTED STATES OF RESIDENCE

STATE	HIGHEST DEGREE			TOTAL	
	Bachelors	Masters	Doctorate		
California	26,000	25,700	36,000	30,700	-Median
	28,572	27,864	37,136	32,509	-Mean
	13,042	11,564	13,773	13,855	-Std Dev
	163	75	214	452	-Count
Texas	25,250	29,200	37,400	31,550	
	27,462	30,721	37,319	32,605	
	11,029	12,738	13,880	13,451	
	86	43	111	240	
Illinois	24,000	27,500	32,000	29,000	
	26,561	30,418	36,100	31,513	
	13,910	12,523	14,258	14,359	
	135	89	167	391	
Michigan	25,000	27,900	37,000	31,550	
	29,016	29,815	38,659	33,736	
	22,596	15,996	13,352	17,872	
	101	68	151	320	
Ohio	26,000	29,000	35,000	30,400	
	27,653	29,565	36,727	31,976	
	10,696	11,301	11,643	11,972	
	154	114	198	466	
New Jersey	25,500	28,900	37,000	32,000	
	27,824	30,382	40,006	34,402	
	12,139	11,662	15,640	14,994	
	217	148	361	726	
New York	25,600	26,650	37,100	32,250	
	29,265	29,136	40,483	35,154	
	17,836	13,214	17,603	17,913	
	172	92	294	558	
Pennsylvania	25,800	30,000	37,000	31,000	
	27,171	31,548	39,840	33,893	
	11,544	13,840	19,223	16,887	
	167	107	231	505	
Others	26,000	29,000	35,450	31,000	
	30,263	31,022	37,509	33,827	
	18,569	11,641	14,365	15,862	
	743	419	1,038	2,200	
TOTAL	25,800	28,500	36,000	31,000	
	28,838	30,361	38,231	33,572	
	16,065	12,348	15,121	15,588	
	1,938	1,155	2,765	5,858	

FULL-TIME EMPLOYED INDUSTRIAL CHEMISTS BY TOTAL NUMBER SUPERVISED AND DEGREE

PROF + TECH +OTH	HIGHEST DEGREE			TOTAL	
	Bachelors	Masters	Doctorate		
0	20,000	23,050	30,000	24,000	-Median
	21,402	23,728	32,569	24,971	-Mean
	8,151	7,606	12,857	10,607	-Std Dev
	1,031	542	573	2,146	-Count
1-2	23,000	26,350	32,000	28,700	
	24,278	27,018	33,243	29,400	
	9,171	8,342	10,214	10,403	
	645	404	1,110	2,159	
3-7	25,350	28,500	35,000	30,500	
	26,919	29,115	36,323	31,559	
	10,040	9,796	11,160	11,355	
	482	297	622	1,401	
8-12	28,200	32,500	39,600	35,000	
	29,404	33,008	40,836	35,389	
	9,635	10,303	12,566	12,328	
	170	101	231	502	
13-17	32,750	35,000	40,000	37,000	
	33,276	35,556	40,693	37,481	
	11,895	12,518	11,463	12,221	
	68	45	116	229	
18-22	30,900	38,050	42,000	39,000	
	33,711	34,200	40,443	37,248	
	11,974	11,739	13,963	13,333	
	46	20	70	136	
23-32	34,500	38,300	45,600	42,750	
	35,923	37,221	47,567	43,123	
	10,552	16,552	11,783	13,506	
	40	28	102	170	
33-47	37,000	42,900	50,600	46,000	
	39,548	44,555	51,093	46,833	
	14,880	15,612	12,248	14,460	
	33	31	73	137	
48-67	40,000	41,800	55,000	50,000	
	38,884	46,563	60,158	51,752	
	14,606	14,727	21,801	20,867	
	25	19	50	94	
68-99	---	---	62,350	51,700	
	38,300	41,769	59,037	51,117	
	17,189	13,628	19,941	20,387	
	14	13	38	65	
>= 100	52,000	55,000	73,000	66,000	
	65,336	70,409	75,123	71,275	
	49,228	30,145	26,982	35,840	
	42	23	70	135	
TOTAL	23,400	27,000	35,000	29,200	
	25,618	28,569	37,391	31,258	
	12,958	12,185	14,822	14,658	
	2,596	1,523	3,055	7,174	

FULL-TIME EMPLOYED INDUSTRIAL CHEMISTS
BY PROFESSIONAL AND TECHNICAL SUBORDINATES AND DEGREE

PROF + TECH SUBORDINATES	HIGHEST DEGREE			TOTAL	
	Bachelors	Masters	Doctorate		
0	20,200	23,600	30,200	24,000	-Median
	22,173	24,366	33,180	25,704	-Mean
	9,236	9,671	13,082	11,490	-Std Dev
	1,031	542	573	2,363	-Count
1-2	23,000	26,200	32,000	28,600	
	24,034	26,896	33,093	29,212	
	8,783	8,282	9,944	10,167	
	634	396	1,082	2,112	
3-7	26,000	29,000	35,100	31,000	
	27,067	30,417	36,641	32,040	
	9,353	10,742	12,167	11,777	
	478	293	620	1,391	
8-12	30,000	32,750	39,700	35,000	
	30,725	32,951	40,730	35,820	
	11,571	11,813	10,371	11,996	
	167	92	227	486	
13-17	32,750	36,000	41,200	38,200	
	32,767	36,356	42,160	38,553	
	10,506	11,012	13,046	12,680	
	58	41	118	217	
18-22	35,000	40,000	44,250	41,300	
	36,632	40,300	42,903	40,701	
	12,644	9,989	15,058	13,895	
	37	20	72	129	
23-32	40,200	41,450	46,000	44,600	
	40,655	39,661	47,053	44,369	
	13,623	15,537	10,974	12,847	
	31	28	922	151	
33-47	43,000	42,300	51,000	49,500	
	46,553	42,814	52,559	49,661	
	17,225	11,590	13,544	14,348	
	19	21	70	110	
48-67	49,000	---	60,000	52,000	
	48,348	54,636	62,254	57,116	
	16,863	22,726	22,773	21,914	
	23	14	46	83	
68-99	---	---	62,750	60,000	
	46,430	46,171	59,747	55,273	
	26,264	12,908	20,398	21,439	
	10	7	34	51	
>= 100	---	---	75,000	75,000	
	96,577	73,185	78,020	80,222	
	74,620	25,920	27,981	38,979	
	13	13	55	81	
TOTAL	23,400	27,000	35,000	29,200	
	25,618	28,569	37,391	31,258	
	12,958	12,185	14,822	14,658	
	2,596	1,523	3,055	7,174	

SALARIES OF FULL-TIME EMPLOYED B.S. CHEMISTS IN INDUSTRY by WORK FUNCTION and YEARS SINCE BACHELOR'S DEGREE

WORK FUNCTION	YEARS SINCE BS										TOTAL	
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>= 40		
R&D Mgmt	---	---	25,000	---	34,000	34,700	35,500	37,400	44,000	40,000	34,000	-Median
	20,667	22,550	23,884	26,236	34,274	36,259	38,356	35,609	53,028	40,214	36,182	-Mean
	2,517	12,280	4,417	10,187	7,140	9,144	11,190	9,674	35,874	15,095	16,976	-Std Dev
	3	6	19	14	35	29	36	32	25	21	220	-Count
Basic Research	---	17,800	20,000	---	---	---	---	---	---	---	20,400	
	17,088	18,269	19,714	23,255	27,731	26,414	32,833	19,150	43,200	41,600	22,120	
	2,655	3,185	5,579	4,401	5,818	3,147	6,853	10,162	---	---	7,166	
	8	29	21	11	13	7	6	6	1	1	103	
Applied R&D	17,400	17,000	21,000	23,250	26,000	28,400	31,000	31,500	34,600	30,500	24,000	
	16,610	17,581	20,904	23,659	27,313	28,904	32,530	31,449	33,503	30,460	25,051	
	4,064	3,017	6,271	7,019	8,823	6,333	9,096	7,742	9,078	10,592	9,020	
	29	89	142	76	52	50	57	63	39	25	622	
Gen Mgmt	---	---	---	26,600	32,800	36,000	45,500	36,050	46,000	38,900	36,000	
	18,533	16,567	25,283	28,994	28,519	36,816	46,693	37,415	54,992	50,036	39,110	
	5,662	2,248	5,943	9,698	8,948	12,026	14,601	20,499	47,487	39,784	26,090	
	3	9	6	16	16	45	27	26	24	22	194	
Marketing	---	17,900	22,100	28,000	31,000	32,000	32,900	31,000	36,000	---	30,000	
	18,833	19,887	21,068	27,506	29,636	33,790	33,250	31,155	34,878	40,617	29,519	
	3,686	6,492	9,343	5,713	6,379	9,692	9,136	13,532	8,758	14,653	11,167	
	3	23	25	17	25	21	20	33	27	12	206	
Prod & QC	---	17,000	21,000	23,300	24,650	27,500	30,000	30,000	26,000	---	22,750	
	17,136	16,925	21,263	23,569	22,850	28,713	30,182	31,697	30,560	28,136	23,794	
	4,354	4,040	3,888	6,193	9,047	6,816	9,106	11,742	21,110	11,762	9,748	
	14	76	78	55	26	30	33	39	20	11	382	
Forensic	---	---	19,200	22,150	27,000	---	---	29,900	---	---	21,500	
	13,529	18,415	19,450	24,206	25,807	25,875	30,950	27,663	30,500	14,300	22,891	
	6,241	4,017	5,403	5,951	5,593	2,927	10,785	7,477	2,121	990	7,543	
	7	13	22	16	15	4	6	16	2	2	103	
Writing	---	---	---	---	---	---	---	---	---	---	27,400	
	---	---	---	27,000	33,000	28,500	24,600	17,233	23,633	29,350	26,000	
	---	---	---	---	14,422	1,323	566	15,413	8,489	2,758	9,641	
	0	0	0	1	3	3	2	3	3	2	17	
Data Proc	---	---	---	---	26,000	27,000	---	---	---	---	---	
	---	---	---	---	---	---	---	---	---	---	26,500	
	---	---	---	---	---	---	---	---	---	---	707	
	0	0	0	0	1	1	0	0	0	0	2	
Consulting	---	---	---	---	---	---	---	---	---	---	21,500	
	19,200	15,333	19,900	30,000	---	23,933	---	32,900	40,500	0	23,344	
	---	5,508	1,931	---	---	9,551	---	2,687	14,849	---	11,790	
	1	3	3	1	0	3	0	2	2	1	16	
Other	---	---	---	---	---	---	---	---	---	---	25,000	
	16,500	17,225	22,325	24,800	23,250	30,825	41,500	30,250	37,075	---	27,010	
	1,273	2,871	2,196	8,106	6,010	3,250	20,365	4,573	17,102	---	10,640	
	2	4	4	5	2	4	2	4	4	0	31	
TOTAL	17,450	17,200	21,000	24,000	28,150	31,500	33,000	31,250	35,500	32,000	25,800	
	16,847	17,765	21,093	24,610	28,353	32,083	35,299	31,937	40,200	37,449	27,765	
	4,253	4,305	5,861	7,124	8,516	9,386	11,695	12,221	27,745	23,453	14,211	
	70	252	320	212	188	197	189	224	147	97	1,896	

SALARIES OF FULL-TIME EMPLOYED M.S. CHEMISTS IN INDUSTRY by WORK FUNCTION and YEARS SINCE BACHELOR'S DEGREE

WORK FUNCTION	YEARS SINCE BS										TOTAL		
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>= 40			No Resp
R&D Mgmt	---	---	---	---	36,000	37,750	40,500	38,000	41,500	---	---	37,000	-Medi
	---	---	29,117	28,807	35,261	35,614	42,031	38,244	44,355	36,750	41,333	37,437	-Mean
	---	---	5,313	4,905	7,718	13,695	17,909	10,478	13,915	18,265	11,015	13,068	-Std
	0	0	12	14	23	22	29	41	20	8	3	172	-Coun
Basic Research	---	---	19,900	25,000	---	---	---	---	---	---	---	24,700	
	---	18,650	19,515	25,863	29,780	30,845	33,663	40,900	30,750	26,000	24,300	25,435	
	---	3,145	4,248	3,407	5,847	6,556	7,971	9,247	6,500	0	2,722	7,796	
	0	6	33	19	5	11	8	4	4	2	3	95	
Applied R&D	---	---	22,000	25,000	29,000	29,150	31,000	33,600	32,000	30,000	28,300	27,200	
	---	19,207	21,915	24,770	28,791	30,431	32,042	33,303	31,117	32,580	29,426	27,905	
	---	2,027	5,716	5,430	9,555	6,405	7,776	6,689	8,837	9,717	9,893	8,454	
	0	14	86	67	55	26	50	61	23	20	19	421	
Gen Mgmt	---	---	---	---	---	40,000	---	45,650	---	---	---	37,500	
	---	---	28,100	25,614	33,233	42,463	47,021	49,128	51,663	42,840	29,200	41,734	
	---	---	7,411	5,521	14,781	21,377	21,803	18,388	24,652	15,128	20,653	19,930	
	0	0	3	7	12	19	14	18	8	5	4	90	
Marketing	---	---	22,500	25,500	---	---	---	37,000	---	---	---	30,250	
	---	---	23,135	28,490	33,755	36,017	40,633	35,213	45,338	27,120	37,500	32,511	
	---	---	5,382	7,070	9,021	18,454	11,851	16,412	29,573	16,043	15,025	16,003	
	0	0	26	20	11	12	9	15	13	5	3	114	
Prod & QC	---	---	19,700	25,200	24,100	---	---	31,600	---	---	---	26,000	
	---	18,900	20,190	25,444	25,394	26,430	36,033	31,340	30,688	31,525	25,133	26,122	
	---	4,725	5,313	5,457	10,711	5,594	10,447	6,818	5,812	6,556	7,730	8,417	
	0	13	21	32	17	10	12	15	8	4	6	138	
Forensic	---	---	---	---	---	---	---	---	---	---	---	27,500	
	---	18,500	21,379	23,000	27,783	29,750	31,071	31,020	---	31,500	27,500	26,413	
	---	---	4,260	---	7,826	3,182	5,952	7,009	---	2,121	---	6,766	
	0	1	14	1	6	2	7	5	0	2	1	39	
Writing	---	---	---	---	---	---	---	---	---	---	---	25,000	
	---	22,800	18,900	24,933	32,000	27,550	26,180	26,333	22,500	19,467	---	24,713	
	---	---	3,960	3,118	---	3,579	3,716	3,215	---	18,254	---	7,002	
	0	1	2	3	1	4	5	3	1	3	0	23	
Data Proc	---	---	---	17,500	---	---	---	30,000	28,050	---	---	---	---
	---	---	---	---	---	---	---	---	778	---	---	25,900	
	0	0	0	1	0	0	1	2	0	0	0	5,693	
												4	
Consulting	---	---	---	---	---	---	---	---	---	---	---	27,250	
	---	---	24,500	27,633	29,500	32,400	---	---	42,000	31,100	---	28,619	
	---	---	6,648	7,410	7,778	566	---	---	---	3,677	---	6,983	
	0	0	6	3	2	2	0	0	1	2	0	16	
Other	---	---	---	---	---	---	---	---	---	---	---	25,300	
	---	24,100	17,950	27,067	30,200	28,800	33,100	24,833	21,500	---	---	25,107	
	---	990	12,054	9,250	4,957	---	8,344	14,372	15,286	---	---	10,919	
	0	2	4	6	3	1	2	6	4	0	0	28	
TOTAL	---	19,200	21,700	25,200	30,000	33,000	33,300	35,000	35,000	30,900	29,000	28,500	
	---	19,351	21,951	25,886	30,322	33,767	36,433	35,794	38,104	32,492	29,836	30,293	
	---	3,477	5,881	5,667	9,934	13,746	13,742	11,968	18,353	12,896	11,305	12,436	
	0	37	207	173	135	109	137	170	82	51	39	1,140	

SALARIES OF FULL-TIME EMPLOYED Ph.D. CHEMISTS IN INDUSTRY by WORK FUNCTION and YEARS SINCE BACHELOR'S DEGREE

WORK FUNCTION	YEARS SINCE BS										TOTAL		
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>= 40			No Resp
R&D Mgmt	---	---	29,500	35,000	39,300	44,000	46,000	50,000	50,300	50,000	41,500	43,000	-Median
	---	---	29,847	35,257	40,283	46,207	48,642	54,334	54,093	52,285	45,303	45,873	-Mean
	---	---	5,449	7,772	11,182	14,466	18,824	16,282	19,896	18,795	21,138	16,683	-Std Dev
	0	0	15	86	181	120	107	105	74	55	36	779	-Count
Basic Research	---	---	27,000	30,800	35,900	40,000	39,000	42,000	40,500	---	34,200	33,500	
	---	---	26,457	31,282	36,230	38,702	40,043	42,821	41,709	39,878	36,219	34,665	
	---	---	6,214	5,075	6,758	12,363	8,775	14,428	8,744	25,203	9,639	10,508	
	0	0	75	112	76	56	21	38	22	9	16	425	
Applied R&D	---	---	26,500	29,200	33,000	36,000	38,200	38,900	39,000	37,000	30,000	32,000	
	---	---	26,115	29,246	33,537	35,453	39,090	37,973	39,352	42,338	30,275	33,168	
	---	---	5,534	5,958	7,387	8,537	9,806	12,257	9,286	15,713	11,634	9,824	
	0	0	161	255	197	127	124	96	65	39	63	1,127	
Gen Mgmt	---	---	---	---	39,000	43,000	43,000	42,000	60,000	---	---	43,000	
	---	---	---	35,464	42,576	45,794	47,004	44,429	68,719	67,738	64,422	50,639	
	---	---	---	14,783	16,133	20,325	12,683	14,152	40,347	52,277	40,387	28,900	
	0	0	0	14	17	17	27	17	16	13	9	130	
Marketing	---	---	---	32,750	40,500	---	42,000	---	---	---	---	38,750	
	---	---	25,925	32,456	38,447	37,700	40,494	46,145	45,433	34,625	43,183	38,673	
	---	---	3,876	5,833	11,140	9,592	7,656	9,113	8,607	23,998	21,684	11,535	
	0	0	4	16	15	11	17	11	6	4	6	90	
Prod & QC	---	---	---	28,150	35,000	---	---	---	---	---	---	32,000	
	---	---	26,280	27,879	34,844	29,650	44,414	36,125	35,350	32,800	44,950	32,789	
	---	---	1,481	7,792	10,641	13,348	10,735	8,658	21,086	3,960	9,970	11,141	
	0	0	5	24	16	8	7	8	4	2	2	76	
Forensic	---	---	---	---	---	---	---	---	---	---	---	29,200	
	---	---	26,550	26,957	31,100	32,200	46,175	35,500	0	---	---	31,096	
	---	---	71	3,179	7,956	4,942	10,011	---	---	---	---	10,726	
	0	0	2	7	7	4	4	1	1	0	0	26	
Writing	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	---	---	35,450	---	15,650	---	46,067	42,500	44,000	36,164	
	---	---	---	---	7,259	---	22,132	---	6,813	---	---	14,072	
	0	0	0	0	4	0	2	0	3	1	1	11	
Data Proc	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	26,350	25,000	33,150	---	---	---	---	---	---	28,800	
	---	---	3,323	---	8,273	---	---	---	---	---	---	5,995	
	0	0	2	1	2	0	0	0	0	0	0	5	
Consulting	---	---	---	---	---	---	---	---	---	---	---	43,500	
	---	---	---	32,175	40,800	41,000	64,000	36,750	47,580	66,750	40,100	45,561	
	---	---	---	11,991	14,255	8,888	22,627	7,136	6,673	33,100	---	18,520	
	0	0	0	4	5	3	2	4	5	4	1	28	
Other	---	---	---	---	---	---	---	---	---	---	---	39,000	
	---	---	27,500	31,417	33,567	34,740	45,575	44,129	40,450	55,771	---	41,836	
	---	---	3,536	7,501	7,453	8,323	14,523	10,716	24,830	14,950	---	15,737	
	0	0	2	3	3	5	4	7	6	7	0	37	
TOTAL	---	---	---	---	---	---	---	---	---	---	---	---	
	---	---	26,800	30,000	36,000	39,100	42,000	43,000	44,000	46,000	35,000	36,000	
	---	---	26,438	30,872	36,788	40,087	43,452	45,369	47,578	49,779	38,288	38,251	
	0	0	266	522	523	351	315	287	202	134	134	2,734	

SALARIES OF FULL-TIME EMPLOYED B.S. CHEMISTS IN INDUSTRY by SPECIALTY and YEARS SINCE BACHELOR'S DEGREE

SPECIALTY	YEARS SINCE BS										No Resp	TOTAL		
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>= 40				
Biochemistry	---	---	---	---	---	---	---	---	---	---	---	---	24,000	-Medi
	14,667	24,833	19,200	18,000	0	26,000	---	44,000	63,250	27,500	---	---	30,754	-Near
	3,786	19,687	1,929	---	---	3,367	---	25,357	34,461	38,891	---	---	25,073	-Std
	3	3	3	1	1	4	0	3	4	2	0	---	24	-Cour
Agric/Food	---	---	20,500	---	---	---	---	30,000	---	---	---	---	27,000	
	14,000	16,425	21,039	24,950	29,350	31,327	31,933	31,733	31,589	40,000	27,800	---	27,446	
	1,414	3,455	4,479	10,301	6,427	9,704	11,322	6,884	9,424	11,150	---	---	10,355	
	2	12	18	14	6	11	9	15	9	9	1	---	106	
Analytical	---	---	---	---	---	---	---	---	---	---	---	---	23,005	
	17,400	17,200	21,300	23,900	25,900	28,000	30,900	30,800	30,000	27,600	---	---	24,274	
	16,571	17,692	21,114	24,644	25,207	28,904	31,000	30,871	31,485	26,413	---	---	9,270	
	4,771	4,160	5,341	6,150	7,479	5,161	9,146	12,246	16,038	9,905	---	---	612	
	31	110	116	86	60	47	47	66	33	16	0	---		
Environment	---	---	22,250	---	---	36,000	---	---	---	---	---	---	30,000	
	16,500	17,079	22,228	26,214	27,600	36,397	40,767	29,591	39,038	30,467	---	---	29,226	
	2,121	2,606	4,652	5,661	9,848	5,461	12,548	9,817	17,031	15,485	---	---	10,925	
	2	14	18	14	11	31	6	11	8	6	0	---	121	
Inorganic	---	---	20,000	---	---	---	---	---	---	---	---	---	28,000	
	17,000	18,329	20,387	22,538	26,743	38,263	37,010	24,667	36,575	47,500	---	---	28,047	
	1,414	3,275	4,663	10,901	8,078	12,122	9,401	14,497	9,051	17,678	---	---	12,042	
	2	7	15	8	7	8	10	6	8	2	0	---	73	
Organic	---	17,000	21,500	24,200	28,800	32,000	35,000	34,600	---	31,300	---	---	28,000	
	19,225	17,631	22,131	24,200	30,597	32,286	37,711	35,281	41,121	39,763	---	---	30,243	
	3,279	3,436	5,055	3,883	8,327	11,887	12,906	11,776	8,062	14,802	---	---	12,029	
	4	26	39	21	33	28	27	42	14	19	0	---	253	
Pharm/Med	---	17,200	20,100	21,150	---	---	---	---	---	---	---	---	23,700	
	16,786	17,188	18,117	20,980	29,240	30,371	29,710	34,189	41,160	26,075	---	---	24,248	
	3,028	2,815	9,267	10,970	5,942	7,865	14,116	11,828	8,446	9,417	---	---	11,173	
	7	16	23	20	10	14	10	9	5	4	0	---	118	
Phys/Theo	---	---	---	---	---	---	---	---	---	---	---	---	24,000	
	12,950	16,220	23,700	24,340	21,000	31,500	36,075	28,500	41,500	30,000	---	---	25,900	
	9,276	3,689	4,542	4,897	4,243	7,436	9,559	---	6,623	---	---	---	10,795	
	4	5	4	5	2	3	4	1	4	1	0	---	33	
Polymer	---	18,200	21,400	27,100	28,400	31,500	35,000	32,400	38,750	36,000	---	---	28,800	
	18,540	19,676	21,544	26,912	29,250	31,938	37,254	32,709	47,744	33,682	---	---	30,908	
	1,431	4,984	6,327	5,164	6,288	13,939	9,130	12,359	34,823	17,209	---	---	16,513	
	5	29	52	25	24	29	50	45	32	17	0	---	308	
General	---	---	21,000	---	---	---	---	32,350	36,650	---	---	---	27,000	
	17,586	17,285	20,826	22,567	29,238	33,218	34,255	33,205	47,205	64,956	---	---	31,949	
	3,485	2,302	6,271	5,598	8,458	7,675	8,909	12,409	50,263	51,750	---	---	26,996	
	7	13	23	9	13	11	11	20	20	9	0	---	136	
Other Chem	---	16,000	22,000	---	33,000	31,650	32,000	30,000	---	---	---	---	28,000	
	17,975	16,853	21,194	28,746	33,713	32,669	38,726	28,476	33,557	39,183	---	---	29,767	
	4,191	2,993	6,579	8,004	9,560	8,155	18,448	14,742	11,716	24,275	---	---	14,200	
	4	19	17	13	23	16	19	17	14	12	0	---	154	
TOTAL	17,400	17,250	21,000	24,000	28,150	31,550	33,000	31,300	36,000	32,000	---	---	26,000	
	16,713	17,776	21,115	24,690	28,321	32,077	35,202	32,158	40,201	37,449	27,800	---	27,814	
	4,371	4,291	5,839	7,140	8,483	9,319	11,622	12,284	27,399	23,453	---	---	14,150	
	71	254	328	216	190	202	193	235	151	97	1	---	1,938	

SALARIES OF FULL-TIME EMPLOYED M.S. CHEMISTS IN INDUSTRY by SPECIALTY and YEARS SINCE BACHELOR'S DEGREE

SPECIALTY	YEARS SINCE BS										TOTAL			
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>= 40			No Resp	
Biochemistry	---	---	---	---	---	---	---	---	---	---	---	---	28,000	-Median
	---	17,300	23,250	27,043	31,575	34,375	35,000	28,900	27,000	---	45,000	---	28,681	-Mean
	---	5,091	4,646	5,921	5,830	3,902	---	7,843	---	---	---	---	7,442	-Std Dev
	0	2	4	7	4	4	1	3	1	0	1	---	27	-Count
Agric/Food	---	---	---	---	---	---	---	---	---	---	---	---	30,000	
	---	20,000	27,843	25,709	32,233	37,700	49,500	49,000	36,243	28,500	21,300	---	35,166	
	---	---	12,031	5,446	4,528	15,138	33,797	24,525	14,544	---	---	---	18,439	
	0	1	7	11	9	5	7	7	7	1	1	---	56	
Analytical	---	---	20,900	24,200	28,400	31,750	33,300	35,400	30,250	---	---	---	27,500	
	---	19,125	21,350	25,634	28,821	32,596	34,508	34,910	31,388	31,625	24,620	---	28,191	
	---	3,990	5,918	5,129	10,670	12,756	8,415	7,974	5,335	5,788	6,380	---	9,303	
	0	12	64	53	38	24	37	39	16	12	10	---	305	
Environment	---	---	22,500	---	---	---	---	---	---	---	---	---	27,600	
	---	19,767	22,507	28,011	30,680	33,527	33,000	30,538	25,620	37,625	31,600	---	28,790	
	---	5,154	7,834	8,442	6,321	24,716	8,396	15,719	15,531	3,889	---	---	13,406	
	0	3	15	9	10	11	5	8	5	4	1	---	71	
Inorganic	---	---	---	---	---	---	---	---	---	---	---	---	30,000	
	---	19,300	23,800	24,950	25,057	39,667	38,763	29,413	21,000	32,000	41,100	---	29,960	
	---	3,111	3,023	5,256	11,838	5,508	6,653	7,456	29,698	2,449	11,964	---	10,468	
	0	2	7	4	7	3	8	8	2	4	3	---	48	
Organic	---	---	21,150	25,000	32,000	38,500	36,000	33,800	42,000	---	---	---	30,000	
	---	17,867	20,622	25,528	33,116	37,579	37,610	34,669	47,370	30,913	36,067	---	32,395	
	---	2,317	4,960	4,764	9,825	13,780	10,311	12,359	21,105	23,476	11,611	---	14,204	
	0	6	32	29	19	19	31	35	20	8	6	---	205	
Pharm/Med	---	---	19,350	26,050	31,000	---	---	---	---	---	---	---	26,900	
	---	20,775	19,880	26,455	30,442	27,623	30,425	33,510	44,000	44,500	30,380	---	28,176	
	---	5,385	4,158	4,744	7,992	10,892	6,593	7,674	40,181	21,920	6,912	---	12,060	
	0	4	20	20	19	13	8	10	5	2	5	---	106	
Phys/Theo	---	---	---	---	---	---	---	---	---	---	---	---	29,600	
	---	20,450	---	29,900	29,000	30,433	---	34,750	27,000	---	43,000	---	29,627	
	---	2,192	---	3,061	---	4,008	---	354	23,388	---	---	---	10,599	
	0	2	0	3	1	3	0	2	3	0	1	---	15	
Polymer	---	---	22,800	25,200	30,000	32,700	34,000	35,750	36,000	---	---	---	30,000	
	---	20,000	23,434	25,060	30,533	32,367	39,348	38,397	39,194	34,920	31,171	---	32,008	
	---	1,354	5,103	7,712	11,318	11,715	17,105	10,720	13,420	12,465	11,939	---	12,730	
	0	4	35	25	18	21	27	32	16	10	7	---	195	
General	---	---	---	---	---	---	---	---	---	---	---	---	28,800	
	---	---	22,633	27,950	36,400	40,350	32,533	39,817	30,000	23,050	25,000	---	32,109	
	---	---	3,018	2,783	12,095	4,864	18,694	14,383	11,314	16,702	---	---	13,256	
	0	0	9	4	5	4	6	12	2	4	1	---	47	
Other Chem	---	---	21,000	---	---	---	---	35,000	---	---	---	---	28,650	
	---	22,800	21,869	24,430	27,357	39,500	30,264	33,141	42,667	33,771	13,900	---	28,974	
	---	---	5,815	5,900	14,026	23,335	6,073	11,818	9,522	9,697	12,638	---	11,284	
	0	1	16	10	7	2	11	17	6	7	3	---	80	
TOTAL	---	19,200	21,700	25,000	30,000	33,000	33,600	35,000	35,000	31,050	29,000	---	28,500	
	---	19,351	21,961	25,853	30,318	33,767	36,406	35,599	37,886	32,704	29,836	---	30,273	
	---	3,477	5,857	5,645	9,862	13,746	13,554	11,966	18,348	12,860	11,305	---	12,382	
	0	37	209	175	137	109	141	173	83	52	39	---	1,155	

SALARIES OF FULL-TIME EMPLOYED Ph.D. CHEMISTS IN INDUSTRY by SPECIALTY and YEARS SINCE BACHELOR'S DEGREE

SPECIALTY	YEARS SINCE BS											TOTAL		
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>= 40	No Resp			
Biochemistry	---	---	---	27,500	39,200	40,000	---	---	---	---	---	---	38,250	-Median
	---	---	29,467	30,229	39,844	40,221	41,311	39,275	54,050	37,333	31,533	39,058	-Mean	
	---	---	7,487	7,027	11,192	22,676	18,869	17,918	25,302	32,578	1,332	18,298	-Std Dev	
	0	0	3	17	16	19	9	8	10	3	3	88	-Count	
Agric/Food	---	---	---	28,500	32,750	40,000	39,600	---	---	---	---	35,000		
	---	---	25,333	30,557	33,212	43,982	37,080	50,290	51,908	50,055	33,667	38,382		
	---	---	2,064	7,700	12,650	18,696	18,027	18,980	25,975	24,290	19,344	18,268		
	0	0	9	28	26	22	15	10	12	11	9	142		
Analytical	---	---	27,000	28,900	34,200	36,750	40,000	35,900	---	---	32,000	32,500		
	---	---	27,320	29,117	35,822	37,758	43,300	37,368	41,015	36,400	33,022	34,396		
	---	---	3,831	4,981	10,394	11,186	13,308	10,983	14,543	10,315	11,385	10,762		
	0	0	55	80	95	40	43	28	13	7	18	379		
Environment	---	---	---	30,400	---	---	---	41,500	---	---	---	38,000		
	---	---	29,586	31,895	30,946	39,517	46,125	43,738	47,292	45,625	28,325	38,377		
	---	---	2,381	6,305	12,266	6,190	13,365	9,710	25,370	6,676	19,146	14,466		
	0	0	7	19	13	6	12	16	12	4	4	93		
Inorganic	---	---	26,550	30,700	37,000	35,500	---	44,250	---	---	---	33,600		
	---	---	27,573	32,208	36,106	37,883	41,020	43,288	41,155	46,833	32,775	35,050		
	---	---	2,815	5,642	9,543	12,634	8,080	16,626	10,193	19,925	1,087	10,766		
	0	0	40	38	34	18	10	16	11	6	4	177		
Organic	---	---	27,000	30,000	37,000	39,700	42,000	43,550	47,700	44,500	32,000	36,000		
	---	---	26,365	30,167	37,176	39,590	42,300	44,544	50,059	48,288	37,378	37,888		
	---	---	5,600	6,733	8,182	12,584	16,703	14,818	26,585	22,517	20,143	15,514		
	0	0	71	113	119	88	68	68	44	34	32	637		
Pharm/Med	---	---	---	30,600	38,000	41,000	48,000	46,000	48,000	50,850	40,000	40,000		
	---	---	23,708	32,017	38,090	45,203	47,885	51,591	53,459	52,550	45,977	42,466		
	---	---	7,668	6,647	10,546	12,978	13,675	16,122	24,768	20,469	23,142	16,766		
	0	0	13	59	59	39	33	32	22	22	22	301		
Phys/Theo	---	---	27,700	29,000	37,500	37,650	38,000	49,200	---	---	---	36,000		
	---	---	24,782	29,229	38,017	40,000	38,276	45,104	46,327	64,963	41,240	37,735		
	---	---	9,637	8,338	8,564	7,548	8,894	19,043	15,787	49,820	16,988	17,298		
	0	0	17	42	30	18	21	23	11	8	10	180		
Polymer	---	---	26,400	32,000	37,200	37,200	41,800	45,550	42,000	47,900	32,800	37,500		
	---	---	25,769	32,615	37,354	39,031	43,173	46,776	43,410	52,016	34,192	38,962		
	---	---	6,547	8,390	9,875	11,939	8,747	15,363	12,893	30,827	11,491	13,810		
	0	0	39	93	93	71	86	58	51	25	25	541		
General	---	---	---	---	35,000	---	---	---	---	---	---	37,000		
	---	---	26,440	27,308	35,857	41,100	61,967	39,230	42,057	49,050	45,667	40,245		
	---	---	2,381	7,150	10,442	6,322	37,084	11,162	15,561	10,872	9,292	17,354		
	0	0	5	13	21	11	9	10	7	12	3	91		
Other Chem	---	---	---	33,000	37,000	36,000	---	45,000	---	---	---	37,000		
	---	---	24,400	32,500	38,509	37,062	44,650	51,505	49,117	47,000	56,667	40,430		
	---	---	10,307	4,997	8,348	13,044	8,477	17,507	14,010	21,479	48,964	16,733		
	0	0	8	31	23	21	12	19	12	4	6	136		
TOTAL	---	---	26,800	30,000	36,000	39,000	42,000	43,000	44,000	46,250	35,000	36,000		
	---	---	26,452	30,863	36,783	40,027	43,460	45,337	47,331	49,820	38,149	38,208		
	---	---	5,639	6,950	9,859	13,194	14,554	15,627	20,455	24,835	19,893	15,130		
	0	0	267	533	529	353	318	288	205	136	136	2,765		

Table-2.4.1

SALARIES OF FULL-TIME EMPLOYED B.S. CHEMISTS IN INDUSTRY by GEOGRAPHIC REGION and YEARS SINCE BACHELOR'S DEGREE

REGION	YEARS SINCE BS											TOTAL	-Median -Mean -Std Dev -Count	
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>= 40	No Resp			
Pacific	---	17,100	21,600	21,550	27,500	31,450	31,000	32,000	---	---	---	---	---	26,000
	17,813	17,996	21,862	24,289	27,471	33,018	33,969	36,744	40,625	34,609	---	---	---	28,301
	3,496	7,010	5,952	11,399	5,307	9,244	12,592	12,675	21,447	13,746	---	---	---	12,663
	8	24	34	18	21	22	16	27	12	11	0	---	---	193
Mountain	---	---	---	---	---	---	---	---	---	---	---	---	---	24,050
	12,800	20,250	22,480	24,000	43,600	33,450	32,767	39,200	52,000	---	---	---	---	26,811
	---	3,221	4,338	4,243	30,547	2,192	929	---	---	---	---	---	---	11,194
	1	6	10	2	2	2	3	1	1	0	0	---	---	28
W N Central	---	16,400	20,000	---	---	---	---	---	---	---	---	---	---	24,900
	15,033	16,550	20,009	23,643	25,275	29,840	37,250	34,023	58,090	33,625	---	---	---	27,699
	2,219	1,929	7,941	5,002	11,908	7,371	7,848	10,966	68,122	12,079	---	---	---	24,319
	3	16	23	14	8	10	4	13	10	4	0	---	---	105
W S Central	---	18,400	22,650	---	---	---	---	---	---	---	---	---	---	25,000
	17,900	18,176	23,250	27,015	31,208	30,970	33,088	27,810	27,371	44,425	27,800	---	---	27,015
	3,286	2,931	4,471	6,398	7,449	8,102	13,569	11,609	14,517	21,499	---	---	---	10,694
	5	17	24	13	13	10	17	20	7	4	1	---	---	131
E N Central	---	18,000	20,500	23,900	28,200	30,000	31,000	31,150	37,900	36,000	---	---	---	25,000
	17,462	18,361	20,319	23,974	28,696	31,132	34,814	31,130	43,117	34,550	---	---	---	27,118
	5,040	4,525	5,651	7,301	6,965	7,492	13,668	12,850	29,983	16,208	---	---	---	14,534
	21	77	83	54	53	37	37	56	46	18	0	---	---	482
E S Central	---	---	22,000	---	---	---	---	---	---	---	---	---	---	25,200
	---	14,750	21,447	23,070	23,125	31,614	34,700	32,767	29,975	25,200	---	---	---	26,545
	---	2,611	4,272	3,334	6,750	6,552	8,334	8,579	5,294	---	---	---	---	8,340
	0	6	15	10	4	7	5	15	8	1	0	---	---	71
Mid Atlantic	---	17,000	21,000	25,000	28,050	27,500	32,900	31,400	32,250	32,000	---	---	---	25,800
	16,216	17,373	20,434	25,055	27,557	31,378	34,617	31,743	35,310	40,409	---	---	---	27,876
	4,919	3,110	6,213	7,258	8,445	12,395	11,203	11,066	15,663	29,671	---	---	---	14,190
	19	66	82	65	58	54	65	61	42	44	0	---	---	556
So Atlantic	---	16,650	21,250	24,500	30,000	29,600	40,000	33,000	38,000	---	---	---	---	27,150
	15,717	18,517	22,856	24,981	27,633	29,253	40,524	32,087	40,441	35,663	---	---	---	28,628
	4,106	6,542	4,849	5,798	9,970	5,709	11,348	13,647	15,451	22,853	---	---	---	12,561
	12	18	34	26	18	19	25	23	17	8	0	---	---	200
New England	---	17,000	21,000	---	---	---	---	---	---	---	---	---	---	30,000
	17,400	16,943	20,600	26,331	31,642	36,368	34,521	33,863	45,588	33,017	---	---	---	30,043
	---	2,612	6,346	6,883	9,583	6,214	8,535	16,701	20,795	19,510	---	---	---	12,542
	1	23	21	13	12	40	19	16	8	6	0	---	---	159
TOTAL	17,450	17,300	21,000	24,000	28,200	31,600	33,000	31,350	36,000	32,500	---	---	---	26,000
	16,724	17,783	21,104	24,712	28,364	32,236	35,257	32,244	40,201	37,515	27,800	---	---	27,853
	4,402	4,298	5,856	7,149	8,484	9,061	11,660	12,324	27,399	23,568	---	---	---	14,172
	70	253	326	215	189	201	191	232	151	96	1	---	---	1,925

Table-2.4.2

SALARIES OF FULL-TIME EMPLOYED M.S. CHEMISTS IN INDUSTRY by GEOGRAPHIC REGION and YEARS SINCE BACHELOR'S DEGREE

REGION	YEARS SINCE BS											TOTAL	-Median -Mean -Std Dev -Count			
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>= 40	No Resp					
Pacific	---	---	19,800	27,000	---	---	---	---	---	---	---	---	---	---	---	25,500
	---	18,017	20,852	27,500	24,960	28,843	35,757	39,425	34,000	39,520	29,500	---	---	---	---	27,756
	---	2,840	9,375	5,332	11,488	10,642	8,155	16,927	2,828	12,266	9,747	---	---	---	---	11,619
	0	6	21	15	10	7	7	8	2	5	4	---	---	---	---	85
Mountain	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	27,000
	---	---	22,775	24,525	16,333	33,467	29,300	32,850	29,250	35,900	30,233	---	---	---	---	27,496
	---	---	2,290	3,684	14,154	5,937	7,495	3,041	6,602	8,344	12,921	---	---	---	---	8,710
	0	0	4	4	3	3	2	2	4	2	3	---	---	---	---	27
W N Central	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	28,600
	---	21,500	21,770	24,844	35,875	42,125	32,250	49,967	43,667	22,200	35,000	---	---	---	---	32,486
	---	2,121	3,096	5,257	10,022	28,949	7,974	25,133	10,017	---	7,071	---	---	---	---	15,702
	0	2	10	9	8	4	4	6	3	1	2	---	---	---	---	49
W S Central	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	28,850
	---	---	24,000	---	---	---	---	39,000	---	---	---	---	---	---	---	30,276
	---	22,000	23,690	26,889	29,083	29,071	31,814	41,633	20,267	36,300	42,000	---	---	---	---	11,317
	---	---	4,755	7,416	10,025	13,608	11,825	9,603	17,743	5,451	16,971	---	---	---	---	74
	0	1	21	9	6	7	7	15	3	3	2	---	---	---	---	28,100
E N Central	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	29,710
	---	---	21,900	25,750	31,000	32,350	32,600	33,800	37,000	---	---	---	---	---	---	12,251
	---	20,092	21,946	25,688	31,326	33,057	37,000	33,674	38,122	26,475	33,433	---	---	---	---	321
	---	4,341	5,071	6,181	8,627	17,086	17,589	9,815	15,873	9,497	14,493	---	---	---	---	29,350
	0	13	57	56	35	28	32	53	23	12	12	---	---	---	---	30,187
E S Central	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	9,325
	---	21,767	19,000	24,740	35,250	39,217	30,250	35,500	26,050	32,500	29,700	---	---	---	---	38
	---	2,732	4,409	4,775	10,681	12,230	6,711	4,412	2,758	3,536	---	---	---	---	---	29,350
	0	3	4	5	4	6	6	5	2	2	1	---	---	---	---	30,187
Mid Atlantic	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	28,500
	---	---	21,700	25,000	29,000	30,000	34,300	34,900	34,000	33,850	---	---	---	---	---	30,117
	---	18,088	21,776	26,140	30,502	31,632	37,264	33,928	37,548	34,850	25,583	---	---	---	---	12,885
	---	2,946	6,431	5,775	10,685	12,256	13,640	12,970	20,891	13,832	7,543	---	---	---	---	347
	0	8	63	52	43	28	50	46	29	16	12	---	---	---	---	30,000
So Atlantic	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	32,244
	---	---	22,000	23,900	30,000	---	31,500	38,000	---	---	---	---	---	---	---	12,324
	---	17,733	22,493	24,361	29,547	35,150	35,589	36,964	45,667	40,575	20,200	---	---	---	---	12,885
	---	2,804	6,257	4,069	5,780	7,276	11,279	7,108	21,894	20,830	1,697	---	---	---	---	124
	0	3	15	18	17	10	18	25	12	4	2	---	---	---	---	30,500
New England	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	32,924
	---	18,500	22,100	26,871	34,388	38,021	41,293	31,254	42,975	32,917	22,600	---	---	---	---	11,894
	---	---	2,474	4,903	8,919	10,781	12,624	12,106	18,764	7,324	---	---	---	---	---	82
	0	1	14	7	8	14	14	13	4	6	1	---	---	---	---	30,500
TOTAL	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	28,500
	---	19,200	21,700	25,000	30,000	33,000	33,600	35,000	35,000	31,200	29,000	---	---	---	---	30,311
	---	19,351	21,961	25,853	30,496	33,689	36,486	35,599	37,982	33,345	29,836	---	---	---	---	12,374
	---	3,477	5,857	5,645	9,870	13,819	13,569	11,966	18,440	12,119	11,305	---	---	---	---	147

SALARIES OF FULL-TIME EMPLOYED Ph.D CHEMISTS IN INDUSTRY by GEOGRAPHIC REGION and YEARS SINCE BACHELOR'S DEGREE

YEARS SINCE BS

REGION	YEARS SINCE BS										TOTAL	-Median -Mean -Std Dev -Count	
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>= 40			No Resp
Pacific	---	---	26,400	30,000	36,500	39,850	41,600	39,500	---	---	---	---	36,000
	---	---	26,768	31,312	38,783	42,462	43,740	39,174	38,900	35,344	33,100	---	36,926
	0	0	7,597	5,785	9,225	18,739	10,487	15,248	19,975	13,587	13,414	---	13,361
	0	0	22	51	40	34	30	31	13	9	10	---	240
Mountain	---	---	---	30,000	---	---	---	---	---	---	---	---	31,500
	---	---	24,080	29,193	36,650	36,950	41,450	44,000	---	82,500	70,000	---	36,103
	---	---	3,230	9,840	10,253	8,107	2,186	---	---	24,749	---	---	16,039
	0	0	5	15	8	4	4	1	0	2	1	---	40
W N Central	---	---	26,300	30,000	35,000	39,150	42,000	---	---	---	---	---	34,900
	---	---	26,456	30,572	34,552	40,288	35,444	38,136	48,423	57,375	32,886	---	35,908
	---	---	3,024	3,731	6,035	17,224	19,658	13,459	19,688	8,360	5,571	---	13,665
	0	0	16	25	27	16	16	14	13	4	7	---	138
W S Central	---	---	27,950	29,600	36,000	---	43,000	42,550	---	---	---	---	35,900
	---	---	28,308	28,847	35,536	36,989	43,783	41,305	50,944	62,425	39,117	---	36,581
	---	---	2,986	9,583	8,277	8,572	13,229	13,370	12,635	17,726	21,025	---	13,445
	0	0	24	38	33	9	23	20	9	4	12	---	172
E N Central	---	---	26,950	29,700	36,000	37,000	40,000	45,000	40,000	49,500	32,000	---	35,000
	---	---	26,120	31,458	37,152	38,216	40,432	45,914	43,378	48,667	37,556	---	37,659
	---	---	6,628	7,943	10,593	12,827	10,560	14,739	13,562	21,357	23,331	---	14,003
	0	0	60	121	111	88	73	56	55	43	27	---	634
E S Central	---	---	---	33,950	38,000	---	---	---	---	---	---	---	36,500
	---	---	24,160	32,256	36,006	37,521	42,140	51,860	47,557	42,300	35,200	---	36,614
	---	---	8,853	5,823	8,729	7,521	6,429	12,768	22,294	12,668	11,799	---	12,164
	0	0	10	16	17	14	5	5	7	3	4	---	81
Mid Atlantic	---	---	27,000	31,300	37,000	41,000	43,600	46,100	48,000	43,000	37,500	---	37,000
	---	---	27,048	31,259	37,309	41,184	46,592	48,939	54,206	49,408	40,818	---	40,121
	---	---	5,181	7,080	9,222	13,314	18,586	16,477	26,120	26,247	23,510	---	17,268
	0	0	83	157	179	113	100	90	66	49	49	---	886
So Atlantic	---	---	25,950	30,000	35,000	39,550	40,400	42,000	46,000	52,000	37,500	---	36,500
	---	---	24,909	29,916	35,774	41,609	42,958	44,036	45,000	56,937	36,900	---	38,297
	---	---	5,562	4,915	10,487	9,668	12,154	15,056	13,944	33,478	13,203	---	14,932
	0	0	34	65	69	44	40	55	29	19	16	---	371
New England	---	---	---	30,000	33,500	36,000	40,600	42,700	---	---	---	---	35,000
	---	---	26,780	30,605	36,345	38,448	44,400	48,850	39,092	30,267	36,000	---	37,006
	---	---	1,654	5,117	13,510	12,592	10,173	17,194	23,057	6,133	11,125	---	13,383
	0	0	10	43	38	27	24	16	12	3	8	---	181
TOTAL	---	---	26,850	30,000	36,000	39,000	42,000	43,000	44,000	46,250	35,000	---	36,000
	---	---	26,441	30,859	36,808	40,057	43,357	45,337	47,373	49,820	38,313	---	38,224
	---	---	5,660	6,960	9,857	13,228	14,511	15,627	20,496	24,835	19,996	---	15,151
	0	0	264	531	522	349	315	288	204	136	134	---	2,743

FULL-TIME EMPLOYED ACADEMIC CHEMISTS BY SCHOOL AND RANK

SCHOOL	RANK							TOTAL	
	Profess	Assoc Prof	Asst Prof	Instruc	Non-Faculty	Un-ranked	No Response		
Pvt Doct	35,000	25,000	20,500	---	19,000	---	---	28,000	-Media
	36,118	24,859	20,902	20,613	21,083	16,200	37,383	29,394	-Mean
	12,215	7,076	6,039	5,625	6,010	5,503	11,952	12,020	-Std D
	163	66	64	8	23	3	6	333	-Count
Pvt Mast	27,000	20,800	---	---	---	---	---	22,600	
	26,160	21,125	14,057	---	23,100	14,900	16,400	22,405	
	6,277	2,624	6,352	---	---	141	---	7,290	
	42	16	14	0	1	2	1	76	
Pvt Bach	23,000	18,050	15,200	---	---	---	---	19,500	
	22,820	17,983	15,394	14,267	---	16,150	27,229	19,974	
	5,947	4,328	2,869	1,447	---	71	6,576	6,010	
	140	66	64	3	0	2	7	282	
Pvt Assoc	---	---	---	---	---	---	---	---	
	25,000	12,333	14,633	19,500	---	24,000	---	16,600	
	---	11,094	2,413	---	---	---	---	7,564	
	1	3	3	1	0	1	0	9	
Pub Doct	34,500	25,000	20,000	---	19,700	---	---	28,000	
	35,165	24,624	20,412	19,680	20,218	21,508	29,464	29,283	
	10,854	7,218	6,351	4,679	7,921	6,086	8,491	11,269	
	420	172	121	10	45	12	11	791	
Pub Mast	27,500	21,000	17,500	---	---	---	---	24,500	
	27,384	21,132	17,650	15,950	---	17,000	24,067	24,371	
	6,485	5,177	1,970	4,172	---	---	3,580	6,822	
	99	47	18	2	0	1	3	170	
Pub Bach	26,000	21,050	16,900	---	---	---	---	23,000	
	28,840	21,810	16,688	18,467	---	21,000	21,500	24,472	
	25,154	5,396	1,706	2,237	---	---	4,950	18,887	
	77	40	26	3	0	1	2	149	
Pub Assoc	25,000	---	---	---	---	---	---	22,750	
	24,883	21,958	16,114	20,631	---	18,517	23,900	21,930	
	6,350	2,809	7,894	4,557	---	9,512	4,927	6,439	
	23	12	7	13	0	6	5	66	
TOTAL	30,000	22,000	17,800	18,700	19,700	18,900	28,000	25,000	
	31,584	22,671	18,605	19,488	20,548	19,354	28,289	26,478	
	12,773	6,738	5,789	4,632	7,249	6,383	8,985	11,595	
	965	422	317	40	69	28	35	1,876	

Table-3.1.1.2

SALARIES OF FULL-TIME EMPLOYED ACADEMIC PH.D. CHEMISTS BY RANK AND YEARS SINCE BACHELOR'S DEGREE

RANK	YEARS SINCE BS										TOTAL	-Median	-Mean	-Std Dev	-Count
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>= 40					
Professor	---	---	---	---	26,500	28,600	30,000	31,000	31,700	34,000	32,800	30,000	31,569	12,760	965
	---	---	---	19,143	28,027	30,184	30,551	32,165	32,924	36,464	37,033	22,000	22,672	6,746	421
	0	0	0	10,923	22,779	9,124	9,231	11,318	12,201	12,018	12,134	22,000	22,672	6,746	421
	---	---	---	7	106	208	213	167	126	102	36	22,000	22,672	6,746	421
Assoc Prof	---	---	---	19,650	22,000	22,100	24,900	23,050	---	---	---	22,000	22,000	6,746	421
	---	---	---	20,372	23,065	22,156	24,313	25,855	23,450	20,800	21,413	22,000	22,672	6,746	421
	0	0	1	6,351	6,431	6,100	8,778	5,760	5,020	10,716	7,199	22,000	22,672	6,746	421
	---	---	---	60	160	99	46	22	12	6	15	22,000	22,672	6,746	421
Asst Prof	---	---	---	17,950	19,250	18,000	---	---	---	---	---	17,650	17,800	5,799	315
	---	---	---	18,902	20,354	19,538	23,367	17,233	26,750	16,000	19,350	17,800	18,587	5,799	315
	0	0	73	5,451	4,980	4,180	4,225	1,914	10,960	---	7,403	17,800	18,587	5,799	315
	---	---	---	144	52	16	6	3	2	1	18	17,800	18,587	5,799	315
Instructor	---	---	---	18,400	19,157	22,300	22,700	24,467	---	---	---	18,700	18,700	4,632	40
	---	---	---	4,564	3,696	5,474	4,525	7,814	---	---	---	18,700	19,488	4,632	40
	0	0	8	10	14	3	2	3	0	0	0	18,700	19,488	4,632	40
	---	---	---	17,800	20,800	---	---	---	---	---	---	19,700	19,700	7,249	69
Non-Faculty	---	---	---	17,800	20,800	---	---	---	---	---	---	19,700	19,700	7,249	69
	---	---	---	19,280	20,394	19,400	20,967	16,850	32,360	36,000	20,417	19,700	20,548	7,249	69
	0	0	8	4,926	7,418	9,752	4,508	2,616	9,106	---	2,335	19,700	20,548	7,249	69
	---	---	---	20	16	8	3	2	5	1	6	19,700	20,548	7,249	69
Unranked	---	---	---	17,833	21,857	17,667	23,000	---	---	---	---	18,900	18,900	6,383	28
	---	---	---	7,894	6,438	6,658	1,414	---	---	---	---	18,900	19,354	6,383	28
	0	0	4	9	7	3	2	0	1	0	2	18,900	19,354	6,383	28
	---	---	---	---	---	---	---	---	---	---	---	18,900	19,354	6,383	28
No Response	---	---	---	19,233	25,880	26,071	34,000	30,614	33,440	28,000	28,600	28,000	28,289	8,985	35
	---	---	---	1,662	7,869	5,421	18,385	9,167	11,112	---	10,407	28,000	28,289	8,985	35
	0	0	0	3	5	7	2	7	5	1	5	28,000	28,289	8,985	35
	---	---	---	---	---	---	---	---	---	---	---	28,000	28,289	8,985	35
TOTAL	---	---	---	18,500	23,050	25,900	28,200	30,000	30,000	33,000	25,250	25,000	25,000	26,478	11,591
	---	---	---	19,233	23,879	26,866	29,154	30,949	32,048	35,352	28,106	25,000	26,478	26,478	11,591
	0	0	94	5,847	13,657	9,075	9,400	10,988	11,806	12,427	12,556	25,000	26,478	26,478	11,591
	---	---	---	253	360	344	274	204	151	111	82	25,000	26,478	26,478	11,591

Table-3.1.3

SALARIES OF FULL-TIME EMPLOYED ACADEMIC PhD CHEMISTS by SPECIALTY and YEARS SINCE BACHELOR'S DEGREE

SPECIALTY	YEARS SINCE BS										TOTAL		
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>= 40			No Resp
Biochemistry	---	---	---	19,700	26,200	27,500	34,000	36,000	33,000	42,000	29,000	28,200	-Median
	---	---	13,742	19,190	26,309	30,386	34,343	35,847	34,069	40,326	29,858	29,613	-Mean
	---	---	7,032	5,856	6,824	10,294	11,205	9,077	12,428	12,624	13,926	11,725	-Std Dev
	0	0	12	52	80	56	46	45	26	31	31	379	-Count
Agric/Food	---	---	---	---	---	---	---	---	---	---	---	25,800	
	---	---	19,500	21,829	25,850	27,671	34,014	29,000	40,200	43,233	---	29,403	
	---	---	5,384	2,637	3,523	11,413	8,885	2,828	10,432	13,242	---	10,367	
	0	0	3	7	6	7	7	2	4	3	0	39	
Analytical	---	---	16,500	19,500	19,500	22,950	28,500	28,300	---	---	---	22,700	
	---	---	16,940	19,900	21,307	23,343	29,633	30,544	26,892	28,750	27,800	24,615	
	---	---	1,975	2,850	4,861	7,896	8,973	10,685	9,580	7,769	8,043	8,500	
	0	0	15	18	27	28	24	18	13	8	11	162	
Environmental	---	---	---	---	25,000	---	---	---	---	---	---	24,650	
	---	---	17,414	22,000	24,116	34,100	25,700	33,667	38,750	25,133	18,000	24,868	
	---	---	8,281	8,047	9,931	6,046	12,061	10,116	6,010	4,447	---	10,033	
	0	0	7	12	19	5	8	3	2	3	1	60	
Inorganic	---	---	---	17,100	22,700	27,000	24,000	26,000	---	---	---	23,000	
	---	---	15,373	18,819	22,349	27,341	24,186	30,753	31,278	29,540	25,867	24,355	
	---	---	6,146	4,887	6,059	9,590	7,642	15,313	8,885	6,071	12,281	9,451	
	0	0	11	27	37	46	21	15	9	5	3	174	
Organic	---	---	16,250	17,500	21,550	25,000	26,450	27,000	28,000	30,750	22,000	24,000	
	---	---	15,733	17,962	24,080	24,507	27,004	28,757	29,387	34,223	23,353	24,982	
	---	---	4,396	3,130	25,862	8,114	6,757	8,964	11,565	8,989	10,705	13,706	
	0	0	18	61	80	81	78	46	45	22	17	448	
Pharm/Med	---	---	---	21,800	---	30,500	---	---	---	---	---	28,250	
	---	---	18,870	23,591	28,621	32,976	35,986	42,975	35,483	38,000	43,100	30,518	
	---	---	4,903	10,665	11,455	8,284	5,953	12,698	6,821	13,115	19,482	12,425	
	0	0	10	23	14	17	7	8	6	4	5	94	
Phys/Theo	---	---	---	18,000	23,100	26,100	27,200	30,000	35,200	37,000	---	25,800	
	---	---	16,667	18,812	22,402	26,738	28,375	30,209	36,754	37,832	26,443	27,317	
	---	---	7,220	3,769	6,303	8,238	9,820	12,092	13,611	10,714	9,783	10,808	
	0	0	9	34	45	68	52	35	28	22	7	300	
Polymer	---	---	---	---	---	---	---	---	---	---	---	31,500	
	---	---	0	23,225	29,075	30,488	35,589	35,100	21,250	---	24,000	29,386	
	---	---	---	5,040	7,812	4,151	3,665	6,749	15,879	---	---	9,643	
	0	0	1	4	4	8	9	5	4	0	1	36	
General	---	---	---	---	19,800	20,000	23,500	25,100	---	---	---	21,450	
	---	---	14,300	13,333	20,224	20,732	23,969	22,919	28,336	23,417	24,175	21,461	
	---	---	529	6,952	4,530	3,564	4,073	7,099	6,258	11,753	5,176	6,924	
	0	0	4	12	37	22	16	26	11	12	4	144	
Other Chem	---	---	---	---	---	---	---	---	---	---	---	26,800	
	---	---	17,750	18,067	25,145	33,483	34,700	35,000	41,000	73,000	29,700	29,765	
	---	---	3,887	2,003	7,008	12,396	15,692	---	1,000	---	13,152	13,381	
	0	0	4	3	11	6	6	1	3	1	2	37	
TOTAL	---	---	16,250	18,500	23,050	25,900	28,200	30,000	30,000	33,000	25,250	25,000	
	---	---	16,155	19,233	23,879	26,866	29,154	30,949	32,048	35,352	28,106	26,478	
	---	---	5,631	5,847	13,657	9,075	9,400	10,988	11,806	12,427	12,556	11,591	
	0	0	94	253	360	344	274	204	151	111	82	1,873	

Table-4.1.0 FULL-TIME EMPLOYED INDUSTRIAL CHEMICAL ENGINEERS BY DEGREE AND YEARS SINCE BS

HIGHEST DEGREE	YEARS SINCE BS										TOTAL	-Median -Mean -Std Dev -Count
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>= 40		
Bachelors	19,650 507 4	20,000 20,130 3,449 23	24,150 23,847 4,985 32	27,150 25,905 9,695 20	29,100 29,604 10,740 28	37,100 39,454 12,378 28	38,500 43,274 23,482 57	38,200 40,315 18,964 85	40,000 44,987 18,516 77	40,000 43,332 30,053 44	35,000 37,740 20,271 398	
Masters	---	---	25,000 25,100 6,306 33	29,000 29,495 8,741 41	37,100 37,482 14,426 28	35,000 33,294 10,119 16	40,500 44,000 16,023 34	39,000 43,153 21,345 68	42,000 49,155 24,469 44	45,000 58,796 52,118 25	36,200 39,859 24,092 297	
Doctorate	---	---	---	34,000 34,093 10,476 45	40,400 40,787 11,627 55	46,800 46,926 21,260 35	42,950 52,911 37,447 38	45,250 46,932 14,836 38	53,400 52,358 26,036 26	41,000 49,191 28,389 22	40,100 44,201 22,388 272	
TOTAL	19,650 507 4	21,000 19,945 5,097 31	25,000 25,085 5,497 78	31,500 30,770 10,099 106	37,000 37,132 12,919 111	38,800 41,516 17,270 79	40,000 46,304 27,041 129	40,000 42,642 19,202 191	42,000 47,538 21,892 147	40,000 48,997 37,233 91	37,000 40,208 22,235 967	

Table-4.1.0

EMPLOYMENT STATUS OF CHEMISTS BY HIGHEST DEGREE

EMPLOYMENT STATUS	HIGHEST DEGREE			TOTAL	
	Bachelors	Masters	Doctorate		
Postdoctorate	2	3	215	220	-Count
	0.9%	1.4%	97.7%	100.0%	-% of Row
	0.1%	0.2%	3.7%	2.2%	-% of Col
Employed Full-time	2,433	1,708	5,408	9,559	
	25.6%	17.9%	56.6%	100.0%	
	94.7%	95.4%	93.8%	94.3%	
Unemployed Seeking	36	18	33	87	
	41.4%	20.7%	37.9%	100.0%	
	1.4%	1.0%	0.6%	0.9%	
Unemployed Not Seeking	42	28	36	106	
	39.6%	26.4%	34.0%	100.0%	
	1.6%	1.6%	0.6%	1.0%	
Employed Part-time	33	24	42	99	
	33.3%	24.2%	42.4%	100.0%	
	1.3%	1.3%	0.7%	1.0%	
No Response	25	10	32	67	
	37.3%	14.9%	47.8%	100.0%	
	1.0%	0.6%	0.6%	0.7%	
TOTAL	2,581	1,791	5,766	10,138	
	25.5%	17.7%	56.9%	100.0%	
	100.0%	100.0%	100.0%	100.0%	

Table-5.2.0

EMPLOYMENT STATUS OF CHEMISTS BY AGE LEVEL

AGE LEVEL

EMPLOYMENT STATUS

EMPLOYMENT STATUS	AGE LEVEL										TOTAL	-Count -% of Row -% of Col	
	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	>= 65			No Resp
Postdoctorate	2 0.9%	98 44.5%	78 35.5%	29 13.2%	8 3.6%	1 0.5%	3 1.4%	1 0.5%	0 0.0%	0 0.0%	0 0.0%	220 100.0%	2.2%
Employed Full-time	202 2.1%	929 9.7%	1,413 14.8%	1,589 16.6%	1,313 13.7%	1,147 12.0%	1,135 11.9%	1,109 11.6%	686 7.2%	11 0.1%	25 0.3%	9,559 100.0%	94.3%
Unemployed Seeking	4 4.6%	16 18.4%	11 12.6%	12 13.8%	8 9.2%	8 9.2%	13 14.9%	9 10.3%	5 5.7%	1 1.1%	0 0.0%	87 100.0%	0.9%
Unemployed Not Seeking	3 2.8%	7 6.6%	5 4.7%	10 9.4%	4 3.8%	7 6.6%	6 5.7%	16 15.1%	42 39.6%	6 5.7%	0 0.0%	106 100.0%	1.0%
Employed Part-time	4 4.0%	13 13.1%	13 13.1%	15 15.2%	10 10.1%	8 8.1%	3 3.0%	13 13.1%	19 19.2%	1 1.0%	0 0.0%	99 100.0%	1.0%
No Response	3 4.5%	2 3.0%	7 10.4%	12 17.9%	8 11.9%	7 10.4%	13 19.4%	7 10.4%	7 10.4%	0 0.0%	1 1.5%	67 100.0%	0.7%
TOTAL	218 2.2%	1,065 10.5%	1,527 15.1%	1,667 16.4%	1,351 13.3%	1,178 11.6%	1,173 11.6%	1,155 11.4%	759 7.5%	19 0.2%	26 0.3%	10,138 100.0%	100.0%

Table-5.3.0

EMPLOYMENT STATUS OF CHEMISTS BY MINORITY STATUS

EMPLOYMENT STATUS

MINORITY STATUS	EMPLOYMENT STATUS						TOTAL	-Count	-% of Row	-% of Col
	Postdoc FT	Employed Unempl Seeking	Unempl Not seek PT	Employed No Response	Employed No Response	Employed No Response				
White	188	8,790	76	104	93	59	9,310	100.0%	92.5%	
	2.0%	94.4%	0.8%	1.1%	1.0%	0.6%	100.0%			
	85.5%	92.6%	88.4%	97.2%	95.9%	88.1%				
Black	2	94	3	1	0	1	101	100.0%	1.0%	
	2.0%	93.1%	3.0%	1.0%	0.0%	1.0%	100.0%			
	0.9%	1.0%	3.5%	0.9%	0.0%	1.5%				
Amer Indian	0	9	0	1	0	1	11	100.0%	0.1%	
	0.0%	81.8%	0.0%	9.1%	0.0%	9.1%	100.0%			
	0.0%	0.1%	0.0%	0.9%	0.0%	1.5%				
Asian or Pacific Islander	27	442	6	1	4	6	486	100.0%	4.8%	
	5.6%	90.9%	1.2%	0.2%	0.8%	1.2%	100.0%			
	12.3%	4.7%	7.0%	0.9%	4.1%	9.0%				
Hispanic	1	60	0	0	0	0	61	100.0%	0.6%	
	1.6%	98.4%	0.0%	0.0%	0.0%	0.0%	100.0%			
	0.5%	0.6%	0.0%	0.0%	0.0%	0.0%				
None of Above	1	33	1	0	0	0	35	100.0%	0.3%	
	2.9%	94.3%	2.9%	0.0%	0.0%	0.0%	100.0%			
	0.5%	0.3%	1.2%	0.0%	0.0%	0.0%				
No response	1	60	0	0	0	0	61	100.0%	0.6%	
	1.6%	98.4%	0.0%	0.0%	0.0%	0.0%	100.0%			
	0.5%	0.6%	0.0%	0.0%	0.0%	0.0%				
TOTAL	220	9,488	86	107	97	67	10,065	100.0%	100.0%	
	2.2%	94.3%	0.9%	1.1%	1.0%	0.7%	100.0%			
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%				

EMPLOYMENT STATUS OF CHEMISTS BY CITIZENSHIP

CITIZENSHIP

EMPLOYMENT STATUS	CITIZENSHIP				TOTAL	
	US Citizen	Perm Resident	Other	No Response		
Postdoctorate	186	15	19	0	220	-Count
	84.5%	6.8%	8.6%	0.0%	100.0%	-% of Row
	1.9%	4.6%	39.6%	0.0%	2.2%	-% of Col
Employed Full-time	9,220	301	29	9	9,559	
	96.5%	3.1%	0.3%	0.1%	100.0%	
	94.6%	91.8%	60.4%	81.8%	94.3%	
Unemployed Seeking	82	5	0	0	87	
	94.3%	5.7%	0.0%	0.0%	100.0%	
	0.8%	1.5%	0.0%	0.0%	0.9%	
Unemployed Not seeking	104	2	0	0	106	
	98.1%	1.9%	0.0%	0.0%	100.0%	
	1.1%	0.6%	0.0%	0.0%	1.0%	
Employed Part-time	98	0	0	1	99	
	99.0%	0.0%	0.0%	1.0%	100.0%	
	1.0%	0.0%	0.0%	9.1%	1.0%	
No Response	61	5	0	1	67	
	91.0%	7.5%	0.0%	1.5%	100.0%	
	0.6%	1.5%	0.0%	9.1%	0.7%	
TOTAL	9,751	328	48	11	10,138	
	96.2%	3.2%	0.5%	0.1%	100.0%	
	100.0%	100.0%	100.0%	100.0%	100.0%	

EMPLOYMENT STATUS OF NON-ACADEMIC CHEMISTS BY MOST RECENT EMPLOYER

EMPLOYER	EMPLOYMENT STATUS						TOTAL	
	Postdoc	Employed FT	Unempl Seeking	Unempl Not Seek	Employed PT	No Response		
✓ Mfg Chem	0 0.0% 0.0%	2,000 96.8% 27.9%	18 0.9% 26.1%	23 1.1% 25.8%	9 0.4% 16.4%	17 0.8% 35.4%	2,067	-Count
							100.0%	-% of Row
							27.6%	-% of Col
Mfg Coatings	0 0.0% 0.0%	330 96.5% 4.6%	2 0.6% 2.9%	4 1.2% 4.5%	2 0.6% 3.6%	4 1.2% 8.3%	342	
							100.0%	
							4.6%	
Mfg Food	0 0.0% 0.0%	284 96.6% 4.0%	6 2.0% 8.7%	1 0.3% 1.1%	1 0.3% 1.8%	2 0.7% 4.2%	294	
							100.0%	
							3.9%	
Mfg Metals	0 0.0% 0.0%	181 97.3% 2.5%	2 1.1% 2.9%	1 0.5% 1.1%	1 0.5% 1.8%	1 0.5% 2.1%	186	
							100.0%	
							2.5%	
Mfg Paper	0 0.0% 0.0%	100 99.0% 1.4%	0 0.0% 0.0%	1 1.0% 1.1%	0 0.0% 0.0%	0 0.0% 0.0%	101	
							100.0%	
							1.4%	
Mfg Petroleum	0 0.0% 0.0%	317 96.4% 4.4%	3 0.9% 4.3%	6 1.8% 6.7%	1 0.3% 1.8%	2 0.6% 4.2%	329	
							100.0%	
							4.4%	
Mfg Pharm	0 0.0% 0.0%	966 98.4% 13.5%	3 0.3% 4.3%	7 0.7% 7.9%	1 0.1% 1.8%	5 0.5% 10.4%	982	
							100.0%	
							13.1%	
Mfg Rubber	0 0.0% 0.0%	169 98.3% 2.4%	0 0.0% 0.0%	3 1.7% 3.4%	0 0.0% 0.0%	0 0.0% 0.0%	172	
							100.0%	
							2.3%	
Mfg Other	1 0.1% 2.5%	1,093 96.6% 15.2%	14 1.2% 20.3%	8 0.7% 9.0%	8 0.7% 14.5%	7 0.6% 14.6%	1,131	
							100.0%	
							15.1%	
Non-Mfg	2 0.5% 5.0%	364 96.3% 5.1%	6 1.6% 8.7%	2 0.5% 2.2%	3 0.8% 5.5%	1 0.3% 2.1%	378	
							100.0%	
							5.1%	
Fed Govt	24 3.3% 60.0%	670 91.0% 9.3%	3 0.4% 4.3%	25 3.4% 28.1%	14 1.9% 25.5%	0 0.0% 0.0%	736	
							100.0%	
							9.8%	
State Govt	0 0.0% 0.0%	200 97.1% 2.8%	1 0.5% 1.4%	2 1.0% 2.2%	0 0.0% 0.0%	3 1.5% 6.3%	206	
							100.0%	
							2.8%	
Hospitals	3 2.1% 7.5%	136 94.4% 1.9%	2 1.4% 2.9%	0 0.0% 0.0%	2 1.4% 3.6%	1 0.7% 2.1%	144	
							100.0%	
							1.9%	
Non-Profit	10 3.2% 25.0%	285 92.2% 4.0%	6 1.9% 8.7%	3 1.0% 3.4%	4 1.3% 7.3%	1 0.3% 2.1%	309	
							100.0%	
							4.1%	
Self-Empl	0 0.0% 0.0%	51 75.0% 0.7%	3 4.4% 4.3%	3 4.4% 3.4%	9 13.2% 16.4%	2 2.9% 4.2%	68	
							100.0%	
							0.9%	
Other Empl	0 0.0% 0.0%	32 94.1% 0.4%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	2 5.9% 4.2%	34	
							100.0%	
							0.5%	
TOTAL	40 0.5% 100.0%	7,178 96.0% 100.0%	69 0.9% 100.0%	89 1.2% 100.0%	55 0.7% 100.0%	48 0.6% 100.0%	7,479	
							100.0%	
							100.0%	

276

74%

10138

EMPLOYMENT STATUS OF ACADEMIC CHEMISTS BY TYPE OF SCHOOL

EMPLOYMENT STATUS

SCHOOL	EMPLOYMENT STATUS				TOTAL	-Count -% of Row -% of Col
	Postdoc	Employed FT	Unempl Seeking	Unempl Not Seek PT		
Pvt Doct	63	367	4	2	3	9
	14.1%	81.9%	0.9%	0.4%	0.7%	2.0%
	36.6%	16.5%	30.8%	18.2%	7.9%	56.3%
Pvt Mast	3	79	0	0	3	0
	3.5%	92.9%	0.0%	0.0%	3.5%	0.0%
	1.7%	3.5%	0.0%	0.0%	7.9%	0.0%
Pvt Bach	1	303	0	1	6	2
	0.3%	96.8%	0.0%	0.3%	1.9%	0.6%
	0.6%	13.6%	0.0%	9.1%	15.8%	12.5%
Pvt Assoc	0	17	0	0	0	0
	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%
	0.0%	0.8%	0.0%	0.0%	0.0%	0.0%
Pub Doct	100	853	9	4	17	4
	10.1%	86.4%	0.9%	0.4%	1.7%	0.4%
	58.1%	38.3%	69.2%	36.4%	44.7%	25.0%
Pub Mast	4	186	0	1	2	1
	2.1%	95.9%	0.0%	0.5%	1.0%	0.5%
	2.3%	8.3%	0.0%	9.1%	5.3%	6.3%
Pub Bach	1	162	0	1	2	0
	0.6%	97.6%	0.0%	0.6%	1.2%	0.0%
	0.6%	7.3%	0.0%	9.1%	5.3%	0.0%
Pub Assoc	0	147	0	1	4	0
	0.0%	96.7%	0.0%	0.7%	2.6%	0.0%
	0.0%	6.6%	0.0%	9.1%	10.5%	0.0%
High School	0	115	0	1	1	0
	0.0%	98.3%	0.0%	0.9%	0.9%	0.0%
	0.0%	5.2%	0.0%	9.1%	2.6%	0.0%
TOTAL	172	2,229	13	11	38	16
	6.9%	89.9%	0.5%	0.4%	1.5%	0.6%
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

EMPLOYMENT STATUS OF CHEMISTS BY MOST RECENT WORK FUNCTION

WORK FUNCTION	EMPLOYMENT STATUS						TOTAL	
	Postdoc	Employed FT	Unempl Seek	Unempl Not Seek	Employed PT	No Response		
R&D Mgmt	2 0.1% 2.9%	1,327 96.6% 14.5%	13 0.9% 16.7%	17 1.2% 16.7%	7 0.5% 9.0%	8 0.6% 12.7%	1,374	-Count
							100.0%	-% of Row
							14.4%	-% of Col
Basic Research	36 3.4% 52.9%	989 94.0% 10.8%	5 0.5% 6.4%	11 1.0% 10.8%	9 0.9% 11.5%	2 0.2% 3.2%	1,052	
							100.0%	
							11.0%	
Applied R&D	3 0.1% 4.4%	2,430 97.4% 26.5%	17 0.7% 21.8%	22 0.9% 21.6%	6 0.2% 7.7%	16 0.6% 25.4%	2,494	
							100.0%	
							26.1%	
Gen Mgmt	0 0.0% 0.0%	531 96.7% 5.8%	0 0.0% 0.0%	12 2.2% 11.8%	3 0.5% 3.8%	3 0.5% 4.8%	549	
							100.0%	
							5.7%	
Marketing	0 0.0% 0.0%	434 96.4% 4.7%	5 1.1% 6.4%	4 0.9% 3.9%	4 0.9% 5.1%	3 0.7% 4.8%	450	
							100.0%	
							4.7%	
Prod & QC	0 0.0% 0.0%	653 95.2% 7.1%	14 2.0% 17.9%	8 1.2% 7.8%	2 0.3% 2.6%	9 1.3% 14.3%	686	
							100.0%	
							7.2%	
Forensic	0 0.0% 0.0%	389 94.4% 4.2%	9 2.2% 11.5%	5 1.2% 4.9%	7 1.7% 9.0%	2 0.5% 3.2%	412	
							100.0%	
							4.3%	
Writing	0 0.0% 0.0%	85 93.4% 0.9%	1 1.1% 1.3%	1 1.1% 1.0%	3 3.3% 3.8%	1 1.1% 1.6%	91	
							100.0%	
							1.0%	
Data Proc	0 0.0% 0.0%	16 88.9% 0.2%	0 0.0% 0.0%	0 0.0% 0.0%	2 11.1% 2.6%	0 0.0% 0.0%	18	
							100.0%	
							0.2%	
Consulting	0 0.0% 0.0%	112 88.9% 1.2%	3 2.4% 3.8%	1 0.8% 1.0%	7 5.6% 9.0%	3 2.4% 4.8%	126	
							100.0%	
							1.3%	
Other	0 0.0% 0.0%	145 91.8% 1.6%	2 1.3% 2.6%	5 3.2% 4.9%	4 2.5% 5.1%	2 1.3% 3.2%	158	
							100.0%	
							1.7%	
Teaching in College or University	27 1.2% 39.7%	2,072 95.8% 22.6%	9 0.4% 11.5%	16 0.7% 15.7%	24 1.1% 30.8%	14 0.6% 22.2%	2,162	
							100.0%	
							22.6%	
TOTAL	68 0.7% 100.0%	9,183 95.9% 100.0%	78 0.8% 100.0%	102 1.1% 100.0%	78 0.8% 100.0%	63 0.7% 100.0%	9,572	
							100.0%	
							100.0%	

Table-5.7.0

EMPLOYMENT STATUS OF CHEMISTS BY WORK SPECIALTY

EMPLOYMENT STATUS	SPECIALTY											TOTAL
	Biochem	Agric/ Food	Analyt- cal	Environ- ment	Inorgan	Organic	Pharm/ Medici.	Physical/ Theor.	Polymer Chem.	General Chem.	Other Chemical	
Postdoctorate	86	4	11	4	21	42	9	33	7	0	3	220
	39.1%	1.8%	5.0%	1.8%	9.5%	19.1%	4.1%	15.0%	3.2%	0.0%	1.4%	100.0%
	10.3%	0.9%	0.6%	0.6%	3.7%	2.4%	1.1%	4.8%	0.6%	0.0%	0.6%	2.2%
Employed Full-time	721	438	1,853	591	541	1,677	767	641	1,168	654	508	9,559
	7.5%	4.6%	19.4%	6.2%	5.7%	17.5%	8.0%	6.7%	12.2%	6.8%	5.3%	100.0%
	86.7%	95.2%	95.7%	94.9%	94.4%	94.7%	96.0%	92.6%	96.1%	94.5%	93.2%	94.3%
Unemployed Seeking	6	6	21	7	2	11	8	4	6	6	10	87
	6.9%	6.9%	24.1%	8.0%	2.3%	12.6%	9.2%	4.6%	6.9%	6.9%	11.5%	100.0%
	0.7%	1.3%	1.1%	1.1%	0.3%	0.6%	1.0%	0.6%	0.5%	0.9%	1.8%	0.9%
Unemployed Not Seeking	9	4	24	6	2	18	5	6	18	7	7	106
	8.5%	3.8%	22.6%	5.7%	1.9%	17.0%	4.7%	5.7%	17.0%	6.6%	6.6%	100.0%
	1.1%	0.9%	1.2%	1.0%	0.3%	1.0%	0.6%	0.9%	1.5%	1.0%	1.3%	1.0%
Employed Part-time	7	6	14	10	1	15	5	5	6	20	10	99
	7.1%	6.1%	14.1%	10.1%	1.0%	15.2%	5.1%	5.1%	6.1%	20.2%	10.1%	100.0%
	0.8%	1.3%	0.7%	1.6%	0.2%	0.8%	0.6%	0.7%	0.5%	2.9%	1.8%	1.0%
No Response	3	2	13	5	6	8	5	3	10	5	7	67
	4.5%	3.0%	19.4%	7.5%	9.0%	11.9%	7.5%	4.5%	14.9%	7.5%	10.4%	100.0%
	0.4%	0.4%	0.7%	0.8%	1.0%	0.5%	0.6%	0.4%	0.8%	0.7%	1.3%	0.7%
TOTAL	832	460	1,936	623	573	1,771	799	692	1,215	692	545	10,138
	8.2%	4.5%	19.1%	6.1%	5.7%	17.5%	7.9%	6.8%	12.0%	6.8%	5.4%	100.0%
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

LENGTH OF UNEMPLOYMENT OF UNEMPLOYED CHEMISTS BY HIGHEST DEGREE

MONTHS UNEMPLOYED	HIGHEST DEGREE			TOTAL	
	Bachelors	Masters	Doctorate		
0-1	6	8	7	21	-Count
	28.6%	38.1%	33.3%	100.0%	-% of Row
	16.7%	44.4%	21.2%	24.1%	-% of Col
2-4	10	4	8	22	
	45.5%	18.2%	36.4%	100.0%	
	27.8%	22.2%	24.2%	25.3%	
5-7	10	3	2	15	
	66.7%	20.0%	13.3%	100.0%	
	27.8%	16.7%	6.1%	17.2%	
8-10	4	0	4	8	
	50.0%	0.0%	50.0%	100.0%	
	11.1%	0.0%	12.1%	9.2%	
11-13	2	1	0	3	
	66.7%	33.3%	0.0%	100.0%	
	5.6%	5.6%	0.0%	3.4%	
14-18	1	1	1	3	
	33.3%	33.3%	33.3%	100.0%	
	2.8%	5.6%	3.0%	3.4%	
19-24	0	1	2	3	
	0.0%	33.3%	66.7%	100.0%	
	0.0%	5.6%	6.1%	3.4%	
25-36	3	0	3	6	
	50.0%	0.0%	50.0%	100.0%	
	8.3%	0.0%	9.1%	6.9%	
>= 37	0	0	6	6	
	0.0%	0.0%	100.0%	100.0%	
	0.0%	0.0%	18.2%	6.9%	
TOTAL	36	18	33	87	
	41.4%	20.7%	37.9%	100.0%	
	100.0%	100.0%	100.0%	100.0%	

LENGTH OF UNEMPLOYMENT OF UNEMPLOYED NON-ACADEMIC CHEMISTS BY MOST RECENT EMPLOYER

EMPLOYER	MONTHS UNEMPLOYED											TOTAL	-Count -% of Row -% of Col
	0-1	2-4	5-7	8-10	11-13	14-18	19-24	25-36	>= 37				
Mfg Chem	7 38.9%	5 27.8%	1 5.6%	1 5.6%	1 5.6%	0 0.0%	1 5.6%	0 0.0%	0 0.0%	0 0.0%	2 11.1%	18 100.0%	25.7%
Mfg Coating	0 0.0%	2 66.7%	1 33.3%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	3 100.0%	4.3%
Mfg Food	1 16.7%	3 33.3%	0 0.0%	1 16.7%	1 16.7%	0 0.0%	0 0.0%	1 16.7%	0 0.0%	0 0.0%	0 0.0%	6 100.0%	8.6%
Mfg Metals	0 0.0%	1 50.0%	0 0.0%	0 0.0%	0 0.0%	1 50.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	2 100.0%	2.9%
Mfg Petroleum	0 0.0%	0 0.0%	2 66.7%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	1 33.3%	0 0.0%	0 0.0%	0 0.0%	3 100.0%	4.3%
Mfg Pharm	0 0.0%	2 66.7%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	1 33.3%	3 100.0%	4.3%
Mfg Other	3 21.4%	2 14.3%	5 35.7%	1 7.1%	0 0.0%	1 7.1%	1 7.1%	1 7.1%	1 7.1%	0 0.0%	0 0.0%	14 100.0%	20.0%
Non-Mfg	1 16.7%	0 0.0%	2 33.3%	2 33.3%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	1 16.7%	6 100.0%	8.6%
Fed Govt	0 0.0%	1 5.3%	1 7.1%	1 16.7%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	3 100.0%	4.3%
State Govt	1 100.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	1 100.0%	1.4%
Hospitals	1 50.0%	1 50.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	2 100.0%	2.9%
Non-Profit	1 16.7%	2 33.3%	1 16.7%	0 0.0%	1 16.7%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	1 16.7%	6 100.0%	8.6%
Self-Employed	0 0.0%	1 33.3%	1 33.3%	0 0.0%	0 0.0%	1 33.3%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	3 100.0%	4.3%
TOTAL	15 21.4%	19 27.1%	14 20.0%	6 8.6%	3 4.3%	3 4.3%	2 2.9%	3 4.3%	2 2.9%	3 4.3%	5 7.1%	70 100.0%	100.0%

Table-6.4.0

LENGTH OF UNEMPLOYMENT OF UNEMPLOYED CHEMISTS BY AGE LEVEL

MONTHS UNEMPLOYED	AGE LEVEL										TOTAL	-Count -% of Row -% of Col
	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	>= 65		
0-1	1 4.8% 25.0%	3 14.3% 18.8%	2 9.5% 18.2%	1 4.8% 8.3%	2 9.5% 25.0%	4 19.0% 50.0%	4 19.0% 30.8%	4 14.3% 33.3%	0 0.0% 0.0%	0 4.8% 100.0%	21 100.0% 24.1%	1 0.0% 4.8%
2-4	1 4.5% 25.0%	4 18.2% 25.0%	3 13.6% 27.3%	3 13.6% 25.0%	2 9.1% 25.0%	1 4.5% 12.5%	6 27.3% 46.2%	1 4.5% 11.1%	1 4.5% 20.0%	0 0.0% 0.0%	22 100.0% 25.3%	0 0.0% 0.0%
5-7	2 13.3% 50.0%	4 26.7% 25.0%	4 26.7% 36.4%	1 6.7% 8.3%	1 6.7% 12.5%	0 0.0% 0.0%	1 6.7% 7.7%	1 6.7% 11.1%	1 6.7% 20.0%	0 0.0% 0.0%	15 100.0% 17.2%	0 0.0% 0.0%
8-10	0 0.0% 0.0%	2 25.0% 12.5%	0 0.0% 0.0%	2 25.0% 16.7%	1 12.5% 12.5%	0 0.0% 0.0%	1 12.5% 7.7%	2 25.0% 22.2%	0 0.0% 0.0%	0 0.0% 0.0%	8 100.0% 9.2%	0 0.0% 0.0%
11-13	0 0.0% 0.0%	2 66.7% 12.5%	0 0.0% 0.0%	1 33.3% 8.3%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	3 100.0% 3.4%	0 0.0% 0.0%
14-18	0 0.0% 0.0%	1 33.3% 6.3%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	1 33.3% 12.5%	0 0.0% 0.0%	0 0.0% 0.0%	1 33.3% 20.0%	0 0.0% 0.0%	3 100.0% 3.4%	0 0.0% 0.0%
19-24	0 0.0% 0.0%	0 0.0% 0.0%	1 33.3% 9.1%	0 0.0% 0.0%	0 0.0% 0.0%	1 33.3% 12.5%	1 33.3% 7.7%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	3 100.0% 3.4%	0 0.0% 0.0%
25-36	0 0.0% 0.0%	0 0.0% 0.0%	1 16.7% 9.1%	2 33.3% 16.7%	1 16.7% 12.5%	1 16.7% 12.5%	0 0.0% 0.0%	1 16.7% 11.1%	0 0.0% 0.0%	0 0.0% 0.0%	6 100.0% 6.9%	0 0.0% 0.0%
>= 37	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	2 33.3% 16.7%	1 16.7% 12.5%	0 0.0% 0.0%	0 0.0% 0.0%	1 16.7% 11.1%	1 16.7% 33.3%	2 33.3% 40.0%	6 100.0% 6.9%	0 0.0% 0.0%
TOTAL	4 4.6% 100.0%	16 18.4% 100.0%	11 12.6% 100.0%	12 13.8% 100.0%	8 9.2% 100.0%	8 9.2% 100.0%	13 14.9% 100.0%	9 10.3% 100.0%	5 5.7% 100.0%	1 1.1% 100.0%	87 100.0% 100.0%	1 0.0% 1.1%

LENGTH OF UNEMPLOYMENT OF UNEMPLOYED NON-ACADEMIC CHEMISTS BY WORK FUNCTION

WORK FUNCTION

MONTHS UNEMPLOYED	WORK FUNCTION										TOTAL
	R&D Mgm	Basic Research	Applied R&D	Marketing	Prod & QC	Forensic	Writing	Consulting	Other		
0-1	2 12.5% 15.4%	2 12.5% 40.0%	3 18.8% 17.6%	1 6.3% 20.0%	4 25.0% 26.7%	1 6.3% 11.1%	1 6.3% 100.0%	0 0.0% 0.0%	2 12.5% 100.0%	16 100.0% 22.9%	-Count -% of Row -% of Col
2-4	4 21.1% 30.8%	1 5.3% 20.0%	4 21.1% 23.5%	2 10.5% 40.0%	4 21.1% 26.7%	3 15.8% 33.3%	0 0.0% 0.0%	1 5.3% 33.3%	0 0.0% 0.0%	19 100.0% 27.1%	
5-7	1 7.7% 7.7%	1 7.7% 20.0%	4 30.8% 23.5%	1 7.7% 20.0%	3 23.1% 20.0%	2 15.4% 22.2%	0 0.0% 0.0%	1 7.7% 33.3%	0 0.0% 0.0%	13 100.0% 18.6%	
8-10	2 33.3% 15.4%	0 0.0% 0.0%	3 50.0% 17.6%	0 0.0% 0.0%	0 0.0% 0.0%	1 0.0% 11.1%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	6 100.0% 8.6%	
11-13	1 33.3% 7.7%	0 0.0% 0.0%	1 33.3% 5.9%	0 0.0% 0.0%	0 0.0% 0.0%	1 33.3% 11.1%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	3 100.0% 4.3%	
14-18	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	2 66.7% 13.3%	0 0.0% 0.0%	0 0.0% 0.0%	1 33.3% 33.3%	0 0.0% 0.0%	3 100.0% 4.3%	
19-24	2 100.0% 15.4%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	2 100.0% 2.9%	
25-36	0 0.0% 0.0%	1 33.3% 20.0%	0 0.0% 0.0%	0 0.0% 0.0%	2 66.7% 13.3%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	3 100.0% 4.3%	
>= 37	1 20.0% 7.7%	0 0.0% 0.0%	2 40.0% 11.8%	1 20.0% 20.0%	0 0.0% 0.0%	1 20.0% 11.1%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	5 100.0% 7.1%	
TOTAL	13 18.6% 100.0%	5 7.1% 100.0%	17 24.3% 100.0%	5 7.1% 100.0%	15 21.4% 100.0%	9 12.9% 100.0%	1 1.4% 100.0%	3 4.3% 100.0%	2 2.9% 100.0%	70 100.0% 100.0%	

LENGTH OF UNEMPLOYMENT OF UNEMPLOYED CHEMISTS BY WORK SPECIALTY

Table-6.6.0

SPECIALTY

MONTHS UNEMPLOYED	SPECIALTY										TOTAL	-Count -% of Row	-Count -% of Col	
	Bio-chem.	Agric/Food	Analytical	Environ-mental	In-organic	Organic	Pharm/Medici.	Physical Theor.	Polymer/Macro.	General Chem.				Other Chem.
0-1	1 4.8%	1 4.8%	3 14.3%	4 19.0%	1 4.8%	3 14.3%	2 9.5%	1 4.8%	2 9.5%	2 9.5%	1 4.8%	21 100.0%	24.1%	24.1%
2-4	1 4.5%	2 9.1%	6 27.3%	1 4.5%	0 0.0%	3 13.6%	2 9.1%	0 0.0%	2 9.1%	1 4.5%	4 18.2%	22 100.0%	25.3%	25.3%
5-7	0 0.0%	7 0.0%	1 4.6%	0 6.7%	2 0.0%	2 13.3%	1 13.3%	0 6.7%	1 0.0%	1 6.7%	0 0.0%	15 100.0%	17.2%	17.2%
8-10	1 12.5%	1 12.5%	1 12.5%	1 12.5%	1 12.5%	0 0.0%	1 12.5%	1 12.5%	0 0.0%	0 0.0%	1 12.5%	8 100.0%	9.2%	9.2%
11-13	0 0.0%	1 33.3%	1 33.3%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	3 100.0%	3.4%	3.4%
14-18	0 0.0%	0 0.0%	1 4.8%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	1 25.0%	0 0.0%	1 16.7%	0 0.0%	3 100.0%	3.4%	3.4%
19-24	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	1 9.1%	0 0.0%	0 0.0%	1 16.7%	1 16.7%	0 0.0%	3 100.0%	3.4%	3.4%
25-36	3 50.0%	1 16.7%	1 16.7%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	1 16.7%	6 100.0%	6.9%	6.9%
>= 37	0 0.0%	0 0.0%	1 4.8%	0 0.0%	0 0.0%	2 18.2%	1 12.5%	1 8.3%	1 8.3%	0 0.0%	1 8.3%	6 100.0%	6.9%	6.9%
TOTAL	6 6.9%	6 6.9%	21 24.1%	7 8.0%	2 2.3%	11 12.6%	8 9.2%	4 4.6%	6 6.9%	6 6.9%	10 11.5%	87 100.0%	100.0%	100.0%

LENGTH OF UNEMPLOYMENT OF UNEMPLOYED CHEMISTS BY GEOGRAPHIC REGION

REGION

MONTHS UNEMPLOYED

Pacific Mountain W N Cen W S Cen E N Cen E S Cen Mid Atl So Atla New Eng No Resp

TOTAL

MONTHS UNEMPLOYED	Pacific	Mountain	W N Cen	W S Cen	E N Cen	E S Cen	Mid Atl	So Atla	New Eng	No Resp	TOTAL	-Count	-% of Row	-% of Col
0-1	2 9.5%	1 4.8%	1 4.8%	3 14.3%	1 4.8%	0 0.0%	6 28.6%	3 14.3%	3 14.3%	1 4.8%	21	100.0%	24.1%	21
	12.5%	33.3%	33.3%	42.9%	6.7%	0.0%	30.0%	20.0%	50.0%	100.0%				
2-4	2 9.1%	0 0.0%	0 0.0%	1 4.5%	7 31.8%	0 0.0%	8 36.4%	2 9.1%	2 9.1%	0 0.0%	22	100.0%	25.3%	22
	12.5%	0.0%	0.0%	14.3%	46.7%	0.0%	40.0%	13.3%	33.3%	0.0%				
5-7	7 46.7%	1 6.7%	0 0.0%	1 6.7%	0 0.0%	0 0.0%	2 13.3%	3 20.0%	1 6.7%	0 0.0%	15	100.0%	17.2%	15
	43.8%	33.3%	0.0%	14.3%	0.0%	0.0%	10.0%	20.0%	16.7%	0.0%				
8-10	1 12.5%	0 0.0%	0 0.0%	1 12.5%	3 37.5%	0 0.0%	1 12.5%	2 25.0%	0 0.0%	0 0.0%	8	100.0%	9.2%	8
	6.3%	0.0%	0.0%	14.3%	20.0%	0.0%	5.0%	13.3%	0.0%	0.0%				
11-13	0 0.0%	0 0.0%	0 0.0%	1 33.3%	0 0.0%	1 33.3%	1 33.3%	0 0.0%	0 0.0%	0 0.0%	3	100.0%	3.4%	3
	0.0%	0.0%	0.0%	14.3%	0.0%	100.0%	5.0%	0.0%	0.0%	0.0%				
14-18	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%	1 33.3%	2 66.7%	0 0.0%	0 0.0%	3	100.0%	3.4%	3
	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.0%	13.3%	0.0%	0.0%				
19-24	1 33.3%	0 0.0%	0 0.0%	0 0.0%	1 33.3%	0 0.0%	0 0.0%	1 33.3%	0 0.0%	0 0.0%	3	100.0%	3.4%	3
	6.3%	0.0%	0.0%	0.0%	6.7%	0.0%	0.0%	6.7%	0.0%	0.0%				
25-36	1 16.7%	0 0.0%	1 16.7%	0 0.0%	3 50.0%	0 0.0%	0 0.0%	1 16.7%	0 0.0%	0 0.0%	6	100.0%	6.9%	6
	6.3%	0.0%	33.3%	0.0%	20.0%	0.0%	0.0%	6.7%	0.0%	0.0%				
>= 37	2 33.3%	1 16.7%	1 16.7%	0 0.0%	0 0.0%	0 0.0%	1 16.7%	1 16.7%	0 0.0%	0 0.0%	6	100.0%	6.9%	6
	12.5%	33.3%	33.3%	0.0%	0.0%	0.0%	5.0%	6.7%	0.0%	0.0%				
TOTAL	16 18.4%	3 3.4%	3 3.4%	7 8.0%	15 17.2%	1 1.1%	20 23.0%	15 17.2%	6 6.9%	1 1.1%	87	100.0%	100.0%	87
	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%				

RESPONDENTS TO THE 1980 ACS MEMBERSHIP SURVEY
by SEX and USE IN SALARIES 1980 REPORT

SAMPLE	SEX			TOTAL	
	Men	Women	No Resp		
Used in tables for Salaries 1980	11,040	1,248	259	12,547	-Count
	88.0%	9.9%	2.1%	100.0%	-% of Row
	100.0%	26.8%	89.6%	78.5%	-% of Col
Not used in tables for Salaries 1980	0	3,416	30	3,446	
	0.0%	99.1%	0.9%	100.0%	
	0.0%	73.2%	10.4%	21.5%	
TOTAL	11,040	4,664	289	15,993	
	69.0%	29.2%	1.8%	100.0%	
	100.0%	100.0%	100.0%	100.0%	

SURVEY RESPONDENTS BY SEX AND HIGHEST DEGREE

HIGHEST DEGREE	SEX			TOTAL	
	Men	Women	No Resp		
Bachelors	2,854	485	72	3,411	-Count
	83.7%	14.2%	2.1%	100.0%	-% of Row
	25.9%	38.9%	27.8%	27.2%	-% of Col
Masters	2,046	353	55	2,454	
	83.4%	14.4%	2.2%	100.0%	
	18.5%	28.3%	21.2%	19.6%	
Doctorate	6,140	410	132	6,682	
	91.9%	6.1%	2.0%	100.0%	
	55.6%	32.9%	51.0%	53.3%	
TOTAL	11,040	1,248	259	12,547	
	88.0%	9.9%	2.1%	100.0%	
	100.0%	100.0%	100.0%	100.0%	

Table-7.3.0

SURVEY RESPONDENTS BY AGE AND HIGHEST DEGREE

AGE LEVEL	HIGHEST DEGREE			TOTAL	
	Bachelors	Masters	Doctorate		
20-24	231	22	4	257	-Count
	89.9%	8.6%	1.6%	100.0%	-% of Row
	6.8%	0.9%	0.1%	2.0%	-% of Col
25-29	530	312	391	1,233	
	43.0%	25.3%	31.7%	100.0%	
	15.5%	12.7%	5.9%	9.8%	
30-34	385	380	1,015	1,780	
	21.6%	21.3%	57.0%	100.0%	
	11.3%	15.5%	15.2%	14.2%	
35-39	318	328	1,296	1,942	
	16.4%	16.9%	66.7%	100.0%	
	9.3%	13.4%	19.4%	15.5%	
40-44	299	254	1,031	1,584	
	18.9%	16.0%	65.1%	100.0%	
	8.8%	10.4%	15.4%	12.6%	
45-49	317	261	871	1,449	
	21.9%	18.0%	60.1%	100.0%	
	9.3%	10.6%	13.0%	11.5%	
50-54	453	319	776	1,548	
	29.3%	20.6%	50.1%	100.0%	
	13.3%	13.0%	11.6%	12.3%	
55-59	499	351	754	1,604	
	31.1%	21.9%	47.0%	100.0%	
	14.6%	14.3%	11.3%	12.8%	
60-64	355	212	510	1,077	
	33.0%	19.7%	47.4%	100.0%	
	10.4%	8.6%	7.6%	8.6%	
>= 65	5	6	16	27	
	18.5%	22.2%	59.3%	100.0%	
	0.1%	0.2%	0.2%	0.2%	
No Response	19	9	18	46	
	41.3%	19.6%	39.1%	100.0%	
	0.6%	0.4%	0.3%	0.4%	
TOTAL	3,411	2,454	6,682	12,547	
	27.2%	19.6%	53.3%	100.0%	
	100.0%	100.0%	100.0%	100.0%	

SURVEY RESPONDENTS BY MAJOR FIELD AND HIGHEST DEGREE

HIGHEST DEGREE	MAJOR FIELD			TOTAL	
	Chemists	Chemical Engineers	Others		
Bachelors	2,581	450	380	3,411	-Count
	75.7%	13.2%	11.1%	100.0%	-% of Row
	25.5%	36.6%	32.3%	27.2%	-% of Col
Masters	1,791	360	303	2,454	
	73.0%	14.7%	12.3%	100.0%	
	17.7%	29.2%	25.7%	19.6%	
Doctorate	5,766	421	495	6,682	
	86.3%	6.3%	7.4%	100.0%	
	56.9%	34.2%	42.0%	53.3%	
TOTAL	10,138	1,231	1,178	12,547	
	80.8%	9.8%	9.4%	100.0%	
	100.0%	100.0%	100.0%	100.0%	

Table-7.5.0

SURVEY RESPONDENTS BY SPECIALTY AND HIGHEST DEGREE

SPECIALTY	HIGHEST DEGREE			TOTAL	
	Bachelors	Masters	Doctorate		
Chemical Engineering	450	360	421	1,231	-Count
	36.6%	29.2%	34.2%	100.0%	-% of Row
	13.2%	14.7%	6.3%	9.8%	-% of Col
Biochemistry	53	66	713	832	
	6.4%	7.9%	85.7%	100.0%	
	1.6%	2.7%	10.7%	6.6%	
Agricultural/ Food	138	74	248	460	
	30.0%	16.1%	53.9%	100.0%	
	4.0%	3.0%	3.7%	3.7%	
Analytical	822	433	681	1,936	
	42.5%	22.4%	35.2%	100.0%	
	24.1%	17.6%	10.2%	15.4%	
Environmental	211	155	257	623	
	33.9%	24.9%	41.3%	100.0%	
	6.2%	6.3%	3.8%	5.0%	
Inorganic	97	73	403	573	
	16.9%	12.7%	70.3%	100.0%	
	2.8%	3.0%	6.0%	4.6%	
Organic	302	257	1,212	1,771	
	17.1%	14.5%	68.4%	100.0%	
	8.9%	10.5%	18.1%	14.1%	
Pharmaceutical/ medicinal	171	146	482	799	
	21.4%	18.3%	60.3%	100.0%	
	5.0%	5.9%	7.2%	6.4%	
Physical/ Theoretical	49	30	613	692	
	7.1%	4.3%	88.6%	100.0%	
	1.4%	1.2%	9.2%	5.5%	
Polymer/ Macromolecular	345	219	651	1,215	
	28.4%	18.0%	53.6%	100.0%	
	10.1%	8.9%	9.7%	9.7%	
General	191	218	283	692	
	27.6%	31.5%	40.9%	100.0%	
	5.6%	8.9%	4.2%	5.5%	
Other Chemical	202	120	223	545	
	37.1%	22.0%	40.9%	100.0%	
	5.9%	4.9%	3.3%	4.3%	
Non-Chemical	284	245	392	921	
	30.8%	26.6%	42.6%	100.0%	
	8.3%	10.0%	5.9%	7.3%	
No Response	96	58	103	257	
	37.4%	22.6%	40.1%	100.0%	
	2.8%	2.4%	1.5%	2.0%	
TOTAL	3,411	2,454	6,682	12,547	
	27.2%	19.6%	53.3%	100.0%	
	100.0%	100.0%	100.0%	100.0%	

SURVEY RESPONDENTS BY MINORITY STATUS AND HIGHEST DEGREE

RACE	HIGHEST DEGREE			TOTAL	
	Bachelors	Masters	Doctorate		
White	3,223	2,268	6,129	11,620	-Count
	27.7%	19.5%	52.7%	100.0%	-% of Row
	94.5%	92.4%	91.7%	92.6%	-% of Col
Black	41	35	42	118	
	34.7%	29.7%	35.6%	100.0%	
	1.2%	1.4%	0.6%	0.9%	
American Indian or Alaskan Native	5	2	6	13	
	38.5%	15.4%	46.2%	100.0%	
	0.1%	0.1%	0.1%	0.1%	
Asian or Pacific Islander	82	100	407	589	
	13.9%	17.0%	69.1%	100.0%	
	2.4%	4.1%	6.1%	4.7%	
Hispanic	21	22	32	75	
	28.0%	29.3%	42.7%	100.0%	
	0.6%	0.9%	0.5%	0.6%	
None of Above	18	7	20	45	
	40.0%	15.6%	44.4%	100.0%	
	0.5%	0.3%	0.3%	0.4%	
No Response	21	20	46	87	
	24.1%	23.0%	52.9%	100.0%	
	0.6%	0.8%	0.7%	0.7%	
TOTAL	3,411	2,454	6,682	12,547	
	27.2%	19.6%	53.3%	100.0%	
	100.0%	100.0%	100.0%	100.0%	

Table-7.7.0

SURVEY RESPONDENTS BY CITIZENSHIP AND MINORITY STATUS

CITIZENSHIP	MINORITY STATUS							TOTAL	-Count -% of Row -% of Col
	White	Black	American Indian	Asian/ Pacific	Hispanic	None of Above	No Response		
US Citizen	11,396 94.2% 98.1%	110 0.9% 93.2%	13 0.1% 100.0%	394 3.3% 66.9%	66 0.5% 88.0%	41 0.3% 91.1%	74 0.6% 85.1%	12,094 100.0% 96.4%	
Permanent Resident	179 48.5% 1.5%	6 1.6% 5.1%	0 0.0% 0.0%	171 46.3% 29.0%	9 2.4% 12.0%	3 0.8% 6.7%	1 0.3% 1.1%	369 100.0% 2.9%	
Other	36 60.0% 0.3%	1 1.7% 0.8%	0 0.0% 0.0%	23 38.3% 3.9%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	60 100.0% 0.5%	
No Response	9 37.5% 0.1%	1 4.2% 0.8%	0 0.0% 0.0%	1 4.2% 0.2%	0 0.0% 0.0%	1 4.2% 2.2%	12 50.0% 13.8%	24 100.0% 0.2%	
TOTAL	11,620 92.6% 100.0%	118 0.9% 100.0%	13 0.1% 100.0%	589 4.7% 100.0%	75 0.6% 100.0%	45 0.4% 100.0%	87 0.7% 100.0%	12,547 100.0% 100.0%	

Table-8.1.0

AGE LEVEL OF POST DOCTORAL CHEMISTS BY YEARS SINCE BS

YEARS SINCE BS

AGE LEVEL	0-2	2-4	5-7	8-12	13-17	18-22	23-27	28-32	33-37	38-42	> 42	TOTAL	2 -Count -% of Row	98 100.0% 44.5%	78 100.0% 35.5%	29 100.0% 13.2%	8 100.0% 3.6%	1 100.0% 0.5%	3 100.0% 1.4%	1 100.0% 0.5%
20-24	1 50.0% 50.0%	0 0.0% 0.0%	1 50.0% 1.4%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% ***.***	0 0.0% 0.0%	0 0.0% ***.***	0 0.0% ***.***	0 0.0% 0.0%	0 0.0% 0.0%	2 100.0% 0.9%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%
25-29	1 1.0% 50.0%	2 2.0% 100.0%	66 67.3% 94.3%	27 27.6% 28.1%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% ***.***	0 0.0% 0.0%	0 0.0% ***.***	0 0.0% ***.***	0 0.0% ***.***	2 2.0% 18.2%	98 100.0% 44.5%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%
30-34	0 0.0% 0.0%	0 0.0% 0.0%	3 3.8% 4.3%	65 83.3% 67.7%	6 7.7% 20.0%	0 0.0% 0.0%	0 0.0% ***.***	0 0.0% 0.0%	0 0.0% ***.***	0 0.0% ***.***	0 0.0% ***.***	4 5.1% 36.4%	78 100.0% 35.5%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%
35-39	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	3 10.3% 3.1%	21 72.4% 70.0%	2 6.9% 40.0%	0 0.0% ***.***	0 0.0% 0.0%	0 0.0% ***.***	0 0.0% ***.***	0 0.0% ***.***	3 10.3% 27.3%	29 100.0% 13.2%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%
40-44	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	1 12.5% 1.0%	3 37.5% 10.0%	3 37.5% 60.0%	0 0.0% ***.***	0 0.0% 0.0%	0 0.0% ***.***	0 0.0% ***.***	0 0.0% ***.***	1 12.5% 9.1%	8 100.0% 3.6%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%
45-49	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% ***.***	0 0.0% 0.0%	0 0.0% ***.***	0 0.0% ***.***	0 0.0% ***.***	1 100.0% 0.5%	1 100.0% 0.5%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%
50-54	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% ***.***	3 100.0% 75.0%	0 0.0% ***.***	0 0.0% ***.***	0 0.0% ***.***	0 0.0% 0.0%	3 100.0% 1.4%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%
55-59	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% ***.***	1 100.0% 25.0%	0 0.0% ***.***	0 0.0% ***.***	0 0.0% ***.***	0 0.0% 0.0%	1 100.0% 0.5%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%
TOTAL	2 0.9% 100.0%	2 0.9% 100.0%	70 31.8% 100.0%	96 43.6% 100.0%	30 13.6% 100.0%	5 2.3% 100.0%	0 0.0% 100.0%	4 1.8% 100.0%	0 0.0% ***.***	0 0.0% ***.***	0 0.0% ***.***	11 5.0% 100.0%	220 100.0% 100.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%

Table-8.2.0

MINORITY STATUS OF POSTDOCTORAL CHEMISTS BY CITIZENSHIP

MINORITY STATUS	CITIZENSHIP			TOTAL	
	US Citizen	Perm Resident	Other		
White	174	5	9	188	-Count
	92.6%	2.7%	4.8%	100.0%	-% of Row
	93.5%	33.3%	47.4%	85.5%	-% of Col
Black	1	1	0	2	
	50.0%	50.0%	0.0%	100.0%	
	0.5%	6.7%	0.0%	0.9%	
Amer Indian	0	0	0	0	
	.%	***.***%	***.***%	***.***%	
	0.0%	0.0%	0.0%	0.0%	
Asian or Pacific Islander	8	9	10	27	
	29.6%	33.3%	37.0%	100.0%	
	4.3%	60.0%	52.6%	12.3%	
Hispanic	1	0	0	1	
	100.0%	0.0%	0.0%	100.0%	
	0.5%	0.0%	0.0%	0.5%	
None of Above	1	0	0	1	
	100.0%	0.0%	0.0%	100.0%	
	0.5%	0.0%	0.0%	0.5%	
No Response	1	0	0	1	
	100.0%	0.0%	0.0%	100.0%	
	0.5%	0.0%	0.0%	0.5%	
TOTAL	186	15	19	220	
	84.5%	6.8%	8.6%	100.0%	
	100.0%	100.0%	100.0%	100.0%	

POST-DOCTORAL RESPONDENTS BY ACADEMIC EMPLOYER AND MINORITY STATUS

SCHOOL	MINORITY STATUS							TOTAL	
	White	Black	American Indian	Asian/ Pacific	Hispanic	None of Above	No Response		
Private Doctorate	62 91.2% 41.3%	0 0.0% 0.0%	0 0.0% ***.0%	5 7.4% 21.7%	0 0.0% 0.0%	0 0.0% 0.0%	1 1.5% 100.0%	68	-Count
								100.0%	-% of Row
								38.4%	-% of Col
Private Masters	2 66.7% 1.3%	0 0.0% 0.0%	0 0.0% ***.0%	1 33.3% 4.3%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	3	
								100.0%	
								1.7%	
Private Bachelors	1 100.0% 0.7%	0 0.0% 0.0%	0 0.0% ***.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	1	
								100.0%	
								0.6%	
Private Associate	0 ***.0% 0.0%	0 ***.0% 0.0%	0 ***.0% ***.0%	0 ***.0% 0.0%	0 ***.0% 0.0%	0 ***.0% 0.0%	0 ***.0% 0.0%	0	
								***.0%	
								0.0%	
Public Doctorate	80 80.0% 53.3%	1 1.0% 100.0%	0 0.0% ***.0%	17 17.0% 73.9%	1 1.0% 100.0%	1 1.0% 100.0%	0 0.0% 0.0%	100	
								100.0%	
								56.5%	
Public Masters	4 100.0% 2.7%	0 0.0% 0.0%	0 0.0% ***.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	4	
								100.0%	
								2.3%	
Public Bachelors	1 100.0% 0.7%	0 0.0% 0.0%	0 0.0% ***.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	0 0.0% 0.0%	1	
								100.0%	
								0.6%	
Public Associate	0 ***.0% 0.0%	0 ***.0% 0.0%	0 ***.0% ***.0%	0 ***.0% 0.0%	0 ***.0% 0.0%	0 ***.0% 0.0%	0 ***.0% 0.0%	0	
								***.0%	
								0.0%	
TOTAL	150 84.7% 100.0%	1 0.6% 100.0%	0 0.0% ***.0%	23 13.0% 100.0%	1 0.6% 100.0%	1 0.6% 100.0%	1 0.6% 100.0%	177	
								100.0%	
								100.0%	

Table-8.4.0

SALARIES OF POST DOCTORAL CHEMISTS by TYPE OF SCHOOL and YEARS SINCE BACHELOR'S DEGREE

SCHOOL	YEARS SINCE BS											TOTAL	-Median	-Mean	-Std Dev	-Count			
	0-1	2-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	>= 40	No Resp								
Pvt Doct	---	---	10,800	12,000	---	---	---	---	---	---	---	---	---	---	11,200	11,495	4,007	63	
	---	11,200	10,215	12,379	16,500	---	---	---	---	---	---	---	---	---	12,000	---	---	---	
	---	---	3,684	1,500	7,996	---	---	---	---	---	---	---	---	---	4,262	---	---	---	
	0	1	34	19	5	0	0	0	0	0	0	0	0	0	4	---	---	---	
Pub Doct	---	---	12,000	12,750	---	---	---	---	---	---	---	---	---	---	---	12,500	12,570	3,531	98
	---	---	12,500	12,157	12,850	15,000	12,700	---	---	---	---	---	---	---	13,971	---	---	---	
	---	---	3,198	4,096	4,496	---	---	---	---	---	---	---	---	---	2,508	---	---	---	
	0	0	51	28	10	1	1	0	0	0	0	0	0	0	7	---	---	---	

Salary Status

WOMEN ACS MEMBERS — 1980

With data from 4600 women's responses to the 1980 ACS Annual Salary Survey (compared to 800-900 in the usual sample), the Joint Task Force on the Economic Status of Women was able to make statistically reliable comparisons of factors influencing chemists' salaries this year.

Marital Status

A surprising finding was that 43% of the women members reported that they were unmarried (on March 1, 1980) compared to 13.5% of the men. The survey showed that married men were the least likely to be unemployed. Married women were twice as likely as unmarried women to be unemployed. 3.8% of women were employed part-time.

More Women with Ph.D.s in Industry

The number of women with the B.S. degree employed in industry increased 1.5 times, and those with the Ph.D. degree increased two times between 1975 and 1980. The percentage of women employed in academe was down to 49% in 1980 (54% in 1975), but there was a slight increase in the actual number. The distribution of men by type of employer showed little change.

Comparisons in Academe

8% of men and 30% of women employed in academe were in non-faculty positions. 80% of men and 49% of women on Ph.D. faculties were tenured. Among faculty of all professional ranks at institutions granting the Ph.D. in chemistry 94% of married males and 91% of unmarried males have enough experience to be tenured. For women, 57% of married females have enough experience to be tenured, compared with 89% of the unmarried females.

Entry Level Salaries About Equal

Salaries of men and women on chemistry faculties were similar when compared by rank and type of school. The overall salary differentials (Fig. 1) reflect the fact that the majority of women are employed by schools granting the B.S. or M.S. where salaries are much lower than at those schools granting the Ph.D.

Entry level salaries for men and women have been equal since about 1973. Beyond the entry level, there continues to be a significant difference in salaries at all levels of degree and experience (Fig. 2).

Women Scarce in Management

Women chemists are less than half as likely to be in R & D management regardless of degree. Twice as many men as women with the B.S. or M.S. are general managers (non R & D). For women with the Ph.D., the latter difference is not significant.

Salaries of non-supervisory women chemists with the B.S. or M.S. are about the same as those of men for the first 20-25 years past the B.S. For Ph.D. women this is true only for the first 8-10 years past the B.S. (essentially entry level).

For women in supervisory positions, the discrepancy at the M.S. level is negligible up to about fifteen years past the B.S. For those holding the B.S. and Ph.D., equality was present only at the entry level.

Time Out of the Work Force Reviewed

Approximately 43% of women at all degree levels, 25% of men with the B.S. or M.S., and 13.5% of men with the Ph.D. have experienced time out of the work force (other than time in school). The average time out was twenty-three months for married women, eight months for unmarried women, and three months for all men. In spite of the differences in length of time out, the differences in salaries of comparable groups were similar for men and women.

They were 85-90% of those with no time out for the first twenty years and about 80% after twenty years experience. This contradicts the theory so often espoused that a large factor in salary differentials can be accounted for by interruption of women's careers. However, to answer the questions one would have to examine the other characteristics of these groups, and that has not been done.

Perceptions of Opportunity — Non-Academic Employees

22% of women of all ages and 20% of men (dropping to 15% at higher levels of experience) indicated that they felt that their pay was not equal to that of colleagues with comparable qualifications. This is dependent on a number of variables which were not separable in this survey, but is probably true for women in industry with more than 10-15 years experience.

20% of men and 25-35% of women (the latter increasing at higher levels of experience) feel that their opportunities for professional advancement within their company are not as good as those of comparable colleagues. Anecdotal evidence from written comments indicate that this may be true, but it cannot be determined from this survey.

30-40% of women who were 0-17 years past the B.S., and 50-60% of women above that level of experience, and 30% of men feel that they have less chance for managerial advancement than comparable colleagues. The results of this survey showed that the probability that women may move into management is about 77% of that of men.

Copies of the full report which was prepared by the Joint Task Force on the Economic Status of Women (WCC and CES) and the ACS Office of Manpower Studies may be ordered from ACS Special Issues Sales for \$10.00 a copy.

Wanda L. Brown

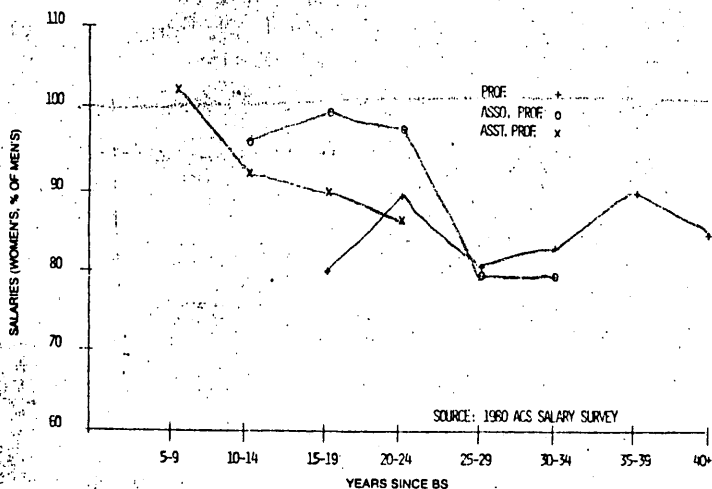


Fig. 1. Doctoral Chemists in Academe

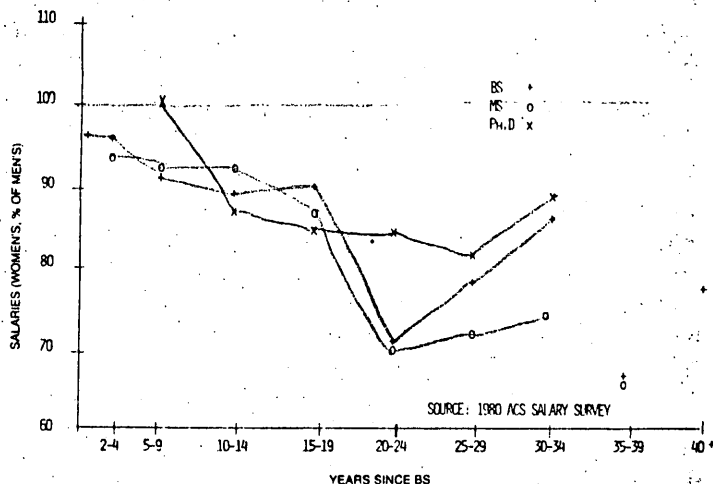
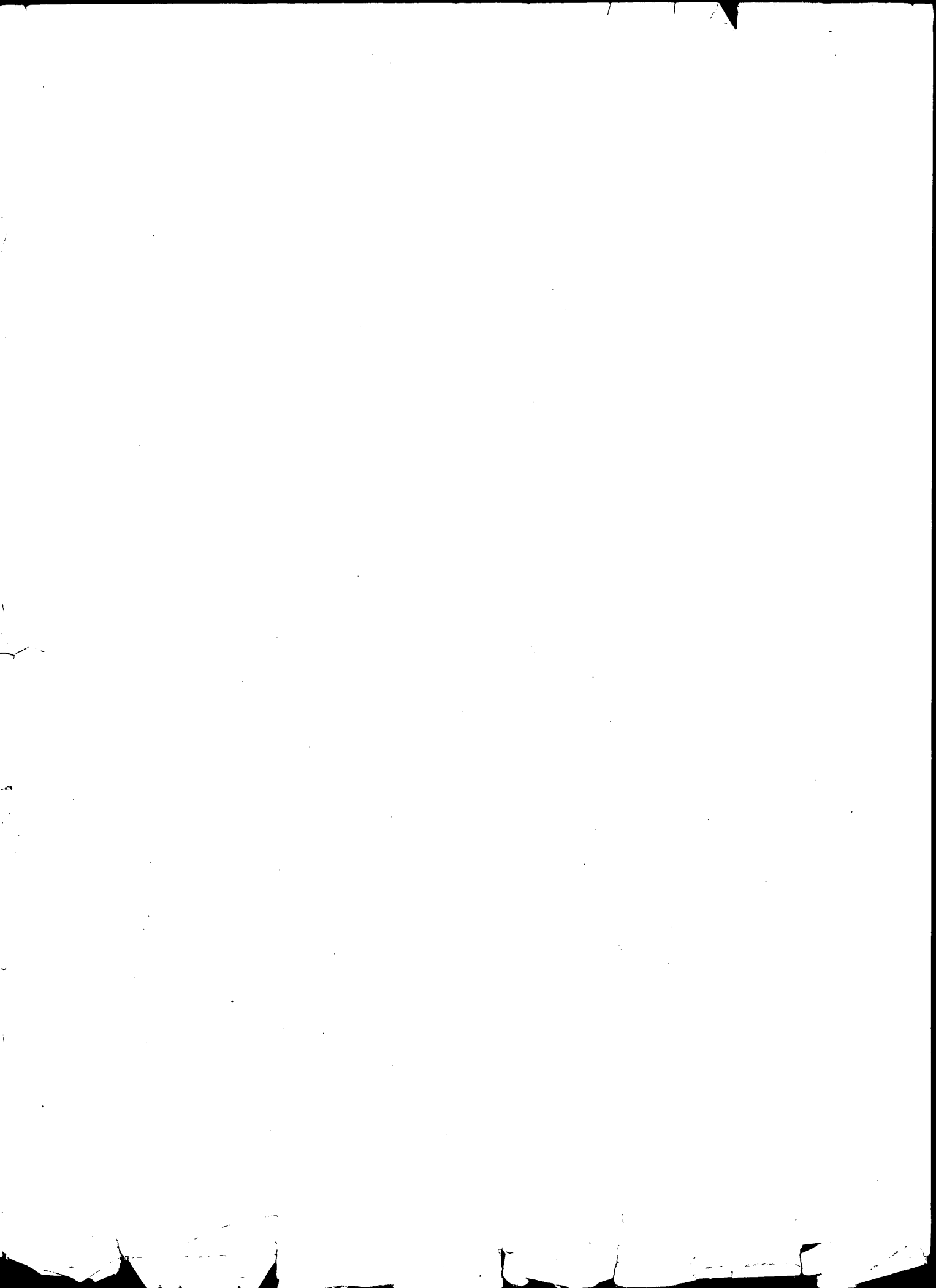


Fig. 2. Chemists in Industry





American Chemical Society

OFFICE OF THE
EXECUTIVE DIRECTOR

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

Raymond P. Mariella, *Executive Director*

February 25, 1980

Dear Member:

The American Chemical Society annually reports on the economic status of the chemical profession as reflected in a sample survey of its U.S. membership. You are one of approximately 26,000 U.S. members I am asking to participate in this survey by completing the attached survey form, developed with the help of the Council Committee on Economic Status.

Five years have elapsed since the Society has made a special effort to measure the economic status of its women members. The Women Chemists Committee has therefore requested that this year's survey make a special effort to enhance our information about women. Accordingly, the sample this year includes nearly all the women in the Society so that various subgroups of the sample will include enough women to provide useful statistics.

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

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

Thank you for your assistance.

Sincerely yours,

Raymond P. Mariella

Raymond P. Mariella

RPM:llj
Enclosure

AMERICAN CHEMICAL SOCIETY

1980 Comprehensive Salary and Employment Status Survey

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

FIELD	LEVEL		
	Bachelors	Masters	Doctorate
Chemistry	19 __ 11	19 __ 21	19 __ 31
Biochemistry	19 __ 12	19 __ 22	19 __ 32
Chemical Engineering	19 __ 13	19 __ 23	19 __ 33
Business	19 __ 14	19 __ 24	19 __ 34
Other	19 __ 15	19 __ 25	19 __ 35

- B. Employment status (Please check the one response that most aptly describes your status as of March 1, 1980.):

Employment status:

- Postdoctoral or other fellowship¹ → Principal ANNUAL SALARY as of March 1, 1980.
(Do not include payments for second job, overtime work, summer teaching, or other supplemental employment.)
- Employed full-time²
- Not employed and seeking employment³ \$ _____ per YEAR
- and not seeking employment⁴ Time worked: _____ % of full-time position
- Employed part-time⁵ Salary: \$ _____ per MONTH

- C. If you were unemployed on March 1, how long had you been unemployed? _____ months
- D. Since receiving your bachelor's degree have you had any periods when you were neither employed nor attending school?
- No ¹ Yes ² Total time: _____ years _____ months

If your current (or most recent) full-time employment is for an academic institution, please skip to top of next page.

E1. Current (or most recent) full-time employer:

- Private industry
- Manufacturing
- Chemicals¹
- Coatings²
- Food³
- Metals, minerals⁴
- Paper⁵
- Petroleum⁶
- Pharmaceuticals, personal care⁷
- Rubber⁸
- Other manufactures⁹
- Non-manufacturing¹⁰
- Government
- Federal¹¹
- State or local¹²
- Hospital, independent laboratory¹³
- Other non-profit organization, other research institution¹⁴
- Self-employed¹⁵
- Other employment¹⁶

E2. Work Function (Please check only one):

- Research and Development
- Management or administration of R&D¹
- Basic research²
- Applied research, development, design³
- General management, Administration (other than research and development)⁴
- Marketing, Sales, Purchasing, Technical service, Economic evaluation⁵
- Production, Quality control⁶
- Forensic analysis, Other laboratory analysis⁷
- Writing, Editing, Abstracting, Library services⁸
- Data processing⁹
- Consulting¹⁰
- Other¹¹

Skip to question G.

F1. Current or most recent full-time employer:

Private college or university where the highest degree offered in chemical science is:

- Doctorate 1
- Masters 2
- Bachelors 3
- Associate 4

Public college or university where the highest degree offered in chemical science is:

- Doctorate 5
- Masters 6
- Bachelors 7
- Associate 8

High school or other school 9

F2. Rank:

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

F3. Have you been granted tenure?

- Yes ¹
- No ²

G. How long have you worked for your current employer? _____ years _____ months

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

- | | |
|--|--|
| Chemical engineering 1 <input type="checkbox"/> | Pharmaceutical/medicinal/clinical chemistry 8 <input type="checkbox"/> |
| Biochemistry 2 <input type="checkbox"/> | Physical/theoretical chemistry 9 <input type="checkbox"/> |
| Agricultural/food chemistry 3 <input type="checkbox"/> | Polymer/macromolecular chemistry 10 <input type="checkbox"/> |
| Analytical chemistry 4 <input type="checkbox"/> | General chemistry 11 <input type="checkbox"/> |
| Environmental chemistry 5 <input type="checkbox"/> | Other chemical specialty 12 <input type="checkbox"/> |
| Inorganic chemistry 6 <input type="checkbox"/> | Non-chemical specialty 13 <input type="checkbox"/> |
| Organic chemistry 7 <input type="checkbox"/> | |

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

Professionals _____ Technicians _____ Others _____

J. Sex: Male ¹ Female ²

K. Are you married? Yes ¹ No ²

L. Age at last birthday before March 1, 1980: _____

M. State of residence: _____

N. Citizenship or visa status:

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

O. Racial or ethnic group:

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

P. Do you feel that:

a) your employer pays you fairly in comparison with other employees who have similar duties and responsibilities?

- Yes ¹ No ²

b) your chances for professional advancement within your company or organization are as good as those of other employees with equivalent qualifications and experience?

- Yes ¹ No ²

c) your chances for managerial advancement within your company or organization are as good as those of other employees with equivalent qualifications and experience?

- Yes ¹ No ²

Please use the reverse side of this page for any comments or suggestions.

