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ABSTRACT

Detailed statistics on education are provided for a number of health occupations. Data are given as far back as 1950-1951 for medical and dental schools, while for schools of public health, the data begin in 1975-1976. Complete 1980 data are provided only for dentistry, pharmacy, and veterinary medicine. Statistical tables are included on the current state-by-state number of students and graduates of all health occupations schools and, in addition, by individual school for several health occupations. Trend data are given for the number and proportion of first-year minority and female students of medicine, osteopathy, dentistry, and registered nursing. Such trend data for other occupations are provided for total students because first-year data were not available for all years. Applicant trend data covering the last two decades are given for schools of medicine and dentistry. Trend data on advanced education are given for medical residents through 1978 and for dental residents through 1980. Additional data include: average first-year medical and dental school tuition trends for the last decade; student expenses, income, and debt; and trends in the number of training programs, students, and graduates for certain allied health occupations. In addition to the tables, an introductory section provides highlights of the data. (SW)

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EDUCATIONAL STATISTICS FOR SELECTED HEALTH OCCUPATIONS



September 1981

U.S. DEPARTMENT OF
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Foreword

This report provides detailed statistics on education for a number of health occupations, although data are not equally complete for every occupation. In every occupation in the report, statistics are provided for trends of the number of classes, students, and graduates. For most, but not all, of the occupations, data are provided on enrollment of minorities and women, and on components of student financing. Data on applications, average tuition, and other information are given for the few occupations for which such information is available.

This report was prepared by the Division of Health Professions Analysis, Bureau of Health Professions, Health Resources Administration, primarily as a planning instrument, with the tables designed to be self-standing and self-explanatory. Every attempt has been made to present the data in a clear and concise manner, including accurate and informative titles and subtitles, and to illustrate one or the tables by a figure. Any additional information or explanatory text is included.

In preparing this publication of this particular selection of educational statistics, to the extent possible, an effort was made to present comparable data in a uniform format, for all occupations in the report. However, since the data are drawn from many different sources, statistics are not completely compatible or consistent across or within all occupations, and the amount of detail available also differs among occupations. For example, data recently received are often revisions of data from earlier years, and data for the same year which are received from two sources are sometimes in conflict. In some instances, where corrective adjustments could be made, this was done, and other instances, one of the two sets of data had to be adapted.

As more complete or more authoritative data become available, these will be incorporated into future reports to revise or improve the data used in this report, and to include new occupations. It is hoped that these data will be useful, especially to health care planners.

It is hoped that this report will provide a new working reference for educational planning for analysts, policymakers, health planners, and others concerned with the content and training of health personnel. It is also hoped that the report will stimulate new activities in health professions education.

This report was prepared by Donald W. Jahnke, D.O., M.P.H., and Frank M. Hays, Technical Information Specialist. Rose M. Shea, Statistical Clerk, and James W. Wilson, Statistician, made important contributions to the report. Inquiries should be sent to the Bureau of Health Professions, Health Resources Administration, Department of Health, Education and Welfare, Washington, D.C. 20492.

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Introduction

The tables of educational statistics for the health occupations covered in this report are organized in the major sections shown on the Contents page, beginning with a group of tables which present combined trend data for most of the occupations. Multiple-occupation tables provide data for selected academic years from 1960-61 through 1979-80 on schools, students, and graduates, and for selected years in the 1970's for number and percent of minority and female students.

Each section for the individual occupations provides similar trend data on the number of schools, students, and graduates. However, the time spans covered by the data differ among occupations, depending on availability of data. Data are given as far back as 1950-51 for medical and dental schools; at the other extreme, data for schools of public health begin only with 1975-76. The most recent data available are given for every occupation; in most cases these are for academic year 1979-80. It was possible to provide complete 1980 data only for dentistry, pharmacy, and veterinary medicine.

Statistical tables are included on the current State-by-State number of students and graduates of all health occupations schools and, in addition, by individual school for several of the health occupations. Trend and State tables for registered nursing vary in format from those for other occupations in order to present graduates as distributed among baccalaureate degree, associate degree, and diploma programs.

Trend data are given for the number and proportion of first-year minority and female students of medicine (M.D.), osteopathy (D.O.), dentistry, and registered nursing. Such trend data for other occupations are given for total students because first-year data were not available for all years.

Applicant trend data covering the last two decades are given for schools of medicine (M.D.) and dentistry. Trend data on advanced education are presented for medical residents through 1978 and for dental residents through 1980. Some 1979 data are provided for medical residents identified as females, blacks, and foreign medical graduates. Trend data for the last decade are also presented for the average first-year medical (M.D.) and dental school tuition.

Tables on recent graduates of schools of public health give the number and percent by type of degree and by sex, and the percent distribution of graduates by area of specialization, e.g., health administration.

There are tables which present trend data on the number of training programs, students, and graduates for certain allied health occupations through 1980-81--beginning with 1950-51 for dental hygiene, with 1960-61 for medical record technology and practical nursing, and with 1965-66 for dental assisting, dental laboratory technology, and medical record administration. For each of these six occupations, there is also a table giving the number of training programs, students, and graduates in 1980, by State. Although there are many other important allied health occupations (e.g., medical technology,

(occupational therapy, physical therapy), tables are given in this report for the health occupations because these are the only ones for which comparable national trend data and current State data were in hand when this report was prepared.

The report ends with a group of tables presenting data on financing student education for a number of health occupations, such as: data on student school and personal expenses; sources and amounts of student income; and amount of family debt. Other tables give various socioeconomic data on the families of health occupations, income level of family.

The report concludes with a narrative Overview with illustrative data followed by the last 10 tables. Then follows the main body of this report, the 20 individual statistical tables, organized in the 12 subject-areas with accompanying text.

This section presents selected highlights of the data in this report, but without specific reference to any table. The intent is to provide a compact narrative text to convey the coverage and nature of the statistics.

Multiple Occupations

From academic year 1960-61 through 1979-80, the largest increases in number of schools were attained by allopathic and osteopathic medicine (M.D. and D.O.) which, together, increased from 92 to 140, a gain of a full one-half (52 percent). Optometry, veterinary medicine, dentistry, and nursing had notable increases in number of schools, from 40 to 22 percent. There was a slight decrease in the number of schools of pharmacy.

Since academic year 1960-61, the number of graduates for the health occupations increased notably, but the proportionate increase varied a great deal. Schools of podiatry, with the smallest number of graduates, had the greatest proportional increase by far, almost 400 percent. Optometry graduates had a smaller, but still considerable, increase of 234 percent. Registered nursing graduates achieved the next highest proportional increase, with a gain of 153 percent. Graduates of schools of veterinary medicine, allopathic medicine, osteopathic medicine, and pharmacy each increased by more than 100 percent. Graduates of schools of dentistry had the smallest proportional gain of 60 percent.

In 1979-80, the proportion of minorities among students for three health occupations--allopathic medicine (M.D.), dentistry, and pharmacy--were 13, 12, and 11 percent respectively, which represent gains to varying degrees over their representation of about 10 percent each in 1971-72. Four other occupations had a minority representation from 8 to 4 percent in 1979-80, all showing various increases over their 1971-72 level, especially in podiatry and osteopathic medicine, with lesser gains in optometry and veterinary medicine.

During the 1970's, representation of female students increased substantially in schools for three health occupations--pharmacy, veterinary medicine, and allopathic medicine (M.D.)--achieving, by 1979-80, proportions of 44, 37, and 28 percent, respectively. In four other health occupations--optometry, osteopathic medicine (D.O.), dentistry, and podiatry--there were few female students in 1970-71, only between 3 and 1 percent; by 1979-80 their representation had expanded greatly, achieving levels variously from 19 to 12 percent.

In 1977-78, minorities constituted 10 percent and women 94 percent of students preparing to be registered nurses, which are about the same proportions, respectively, as in 1971-72.

Allopathic Medicine (M.D.)

The numbers of medical schools, students, and graduates have all increased considerably in the past three decades, especially during the 1970's. From

From academic year 1950-51 to 1979-80, schools increased from 79 to 126, total enrollment from 26,186 to 63,800, and graduates from 6,135 to 15,135.

From academic year 1960-61 to 1979-80, applicants for admission to medical schools increased substantially from 14,397 to 36,141. However, the peak year was 1974-75, with 42,624 applicants, and the number has since been declining. Also, since 1974-75, the number of applicants per first-year student has gone from 2.9 to 2.1, which had been about the ratio for several classes during the mid-1960's.

The number and percent of minority students in first year of medical school has increased slowly, but rather steadily, from 1970-71 to 1979-80--from 998 to 2,237 first-year students, and from 9 to 13 percent of first-year enrollment.

From 1970-71 to 1979-80, the number of women students in first year of medical school increased about three and one half times, from 1,256 to 4,713, while the proportion considerably more than doubled, from 11 to 28 percent.

First-year medical residents doubled from 1960 to 1978, from 11,070 to 22,291. First-year residents in medical specialties increased from 29 to 41 percent of all first-year residents, and those in general and family practice increased from 3 to 10 percent. In all other specialties, including surgery, the proportion of first-year residents declined. In 1979, there were a total of 24,515 medical residents, of whom 19 percent were foreign medical graduates and 19 percent were females.

During the past decade, medical tuition has risen steadily and considerably in all types of schools. Average first-year tuition in public schools for in-state resident students rose from \$663 in 1970-71 to \$1,827 in 1980-81; for non-residents, tuition was significantly higher, rising from \$1,230 to \$3,963 over the same period. For private schools, the increase was from \$1,988 to \$7,621 for residents and slightly more for non-residents.

Osteopathic Medicine (D.O.)

Between 1960-61 and 1979-80, the number of schools of osteopathic medicine increased from 6 to 14; students increased from 1,944 to 4,544 and graduates from 506 to 1,035. These increases largely occurred during the 1970's.

From 1971-72 to 1979-80, minority first-year students increased from 20 to 93, or from 3 to 7 percent of all first-year students. The increase in enrollment of women was substantial. The number of female first-year students increased from only 17 in 1970-71 to 255 in 1979-80--the proportion rising from 3 to 19 percent.

Dentistry

From academic year 1950-51 to 1980-81, dental students increased substantially from 11,891 to 22,842; the number of dental schools increased from 42 to 60. In 1980, the number of graduates was 5,256.

The number of dental school applicants increased rather steadily from 6,119 in 1960-61 to a high of 15,734 in 1975-76, followed by a sizeable decrease to 10,520 by 1979-80. Also since 1975-76, the number of applicants per first-year student has gone from 2.7 to 1.7, the same ratio as in 1960-61.

During the 1970's, dental school enrollment of minorities increased rather slowly but steadily. First-year minority enrollment increased from 412 in 1971-72, or 9 percent of all first-year enrollment, to 772, or 13 percent, by 1980-81.

There was a rapid and quite steep increase in enrollment of women in schools of dentistry throughout the 1970's, from 94 first-year students in 1970-71 to 1,194 in 1979-80--an increase from 2 to 20 percent.

In the field of advanced dental education, there has been a considerable rise in general practice residencies; the number of graduates increased from 641 in 1975 to 916 in 1980. Over the same period, graduates from specialty residency programs declined slightly, from 1,245 to 1,132.

Tuition for dental education has risen considerably in all types of schools. Average first-year tuition in public schools for in-State resident students rose from \$772 in 1970-71 to \$2,117 in 1980-81; for non-residents, the rise was from \$1,492 to \$4,077. For private schools, the increase was from \$2,062 to \$7,578 for residents and from \$2,170 to \$8,106 for non-residents.

Optometry

Enrollment in schools of optometry in recent years has risen greatly, with first-year students increasing from 407 in 1960-61 to 1,209 in 1979-80. The 316 graduates in 1961 increased to 1,056 in 1979. The rise in the proportion of minority enrollment over the past decade was rather modest, increasing from 6 to 8 percent of the total students. The rise in enrollment of women was more spectacular--from 3 to 19 percent of total students.

Pharmacy

The output of schools of pharmacy has increased considerably, from 3,438 graduates in academic year 1960-61 to 7,278 in 1979-80, after reaching a peak of 8,011 in 1976-77. From 1971-72 to 1980-81, minority students increased from 1,645 to 2,526; the concurrent increase in the proportion of total students was rather modest--from 10 to 12 percent. In contrast, the proportion of women students doubled from 22 to 46 percent, with a 1980-81 enrollment of 10,254.

Podiatry

There has been a five-fold increase between academic year 1960-61 and 1979-80 in number of podiatry students, from 478 to 2,531; graduates increased from 116 to 572 by 1978-79. From 1971-72 to 1980-81, the number of minority students rose steadily from 40 to 231, with the minority percent of total students increasing from 3 to 9. The increase in enrollment of women was very much greater, rising from 16 to 306 students or from 1 to 12 percent.

Veterinary Medicine

From academic year 1960-61 to 1980-81, there has been a steady rise in the number of veterinary students from 3,497 to 8,156; there was a similar increase in graduates, from 824 in 1960-61 to 1,845 in 1979-80. The number of minority students rose from 133 in 1971-72 to 377 in 1980-81, while their proportion of the total students increased from 3 percent to 5 percent. The rise in women students is much more impressive--from 467 in 1970-71 to 3,194 in 1980-81, increasing from 9 to 39 percent of veterinary students.

Registered Nursing

A major development in the field of education for registered nurses has been a dramatic increase in the number of degree programs (baccalaureate and associate degrees) from 174 in 1955-56 to 1,092 in 1980-81, while there was a concurrent reduction of diploma programs from 967 to 311.

The number of graduates from baccalaureate degree programs increased between 1955-56 and 1979-80 from 3,156 to 25,411, and graduates from associate degree programs increased, to an even greater extent, from 252 to 36,509. Graduates of diploma programs--who had predominated by far at the beginning of this period--declined from 26,828 to 14,495. However, the combined output of registered nurse graduates from programs of all types increased greatly from 30,236 to 76,415.

Public Health

In 1979-80, the 21 schools of public health had 8,215 students and 3,326 graduates, of whom the vast majority, 2,972, received the master's degree.

Schools of public health offer many major fields of study. Among the graduates of 1978-79, the largest number, about one-fourth (26 percent), majored in health administration. Other majors included such varied subjects as environmental health, epidemiology, maternal and child health, and biostatistics.

In 1979-80, minorities constituted 22 percent of students in schools of public health, the same level as in 1975-76. Over the same period, women students in these schools increased from 48 to 54 percent.

Selected Allied Health Occupations

After a prolonged and steady increase in graduates from all dental auxiliary training programs, the numbers seem recently to have leveled off. In 1979-80, the number of graduates was, respectively, 5,184 for dental hygienists, 5,958 for dental assistants, and 1,068 for dental laboratory technicians.

In 1979-80, there were 771 medical record administrator graduates and 891 medical record technician graduates. After a notable increase during the 1970's, the number of graduates from each type of program apparently has reached a plateau.

The number of practical nurse graduates almost tripled from 16,635 to 48,081 between 1960-61 and 1975-76, after which the number declined to 42,536 in 1979-80.

Financing Student Education

Students in health occupation schools in academic year 1976-77 came, to a large extent, from families with income of \$20,000 or more, especially students of medicine (M.D.), dentistry, and optometry. A relatively high proportion of all students had fathers who were college graduates, ranging from 34 percent of pharmacy students to 57 percent of medical (M.D.) students. From 8 to 19 percent of health occupations students had fathers in some health occupation, in contrast with the 3 percent of employed U.S. males active in a health occupation.

The average annual expenses of students in health occupation schools in 1976-77 ranged from \$6,740 for pharmacy students to \$11,720 for students of podiatry. Expenses directly related to schooling (tuition, books, etc.) varied considerably between public and private schools (e.g., optometry school expenses were \$1,750 in public schools and \$4,200 in private schools), whereas board and lodging varied little.

Students derived income or financial support in 1976-77 from a variety of sources, both non-refundable and refundable (i.e., to be paid back). Non-refundable sources account for a very high proportion of the income of all students, but especially for students of public health and pharmacy (96 and 88 percent respectively). Podiatry students had the highest percent of income from refundable sources, but this still was only 31 percent. In general, the main sources of income were contributions of spouse and parents and the students' own earnings and savings. Scholarships represented a comparatively small proportion of student income.

In 1976-77, the average non-refundable income of students in schools for health occupations ranged from \$6,260 for pharmacy to \$13,300 for students in

schools of public health. With regard to refundable income, 42 percent of the pharmacy students received such income, at the lowest average level of \$1,980, while 79 percent of podiatry students received refundable income at the highest average level of \$4,960.

The majority of students in health occupations schools have incurred debts in connection with their education--ranging from 53 percent of pharmacy students to 78 percent of podiatry students. There is a considerable range in average amount of debt, from \$4,570 for pharmacy students to \$11,860 for osteopathy students.

TABLE A-1
 NUMBER OF SCHOOLS, BY SELECTED HEALTH OCCUPATIONS:
 SELECTED ACADEMIC YEARS 1960-61 THROUGH 1979-80 ^{1/}

| Health occupation | Number of schools | | | | | Percent change | | |
|----------------------------------|-------------------|---------|---------|---------|---------|--------------------|--------------------|--------------------|
| | 1960-61 | 1965-66 | 1970-71 | 1975-76 | 1979-80 | 1960-61 to 1970-71 | 1970-71 to 1979-80 | 1960-61 to 1979-80 |
| | Medicine | 92 | 93 | 110 | 123 | 140 | 19.6 | 27.3 |
| Allopathic medicine (M.D.) | 86 | 88 | 103 | 114 | 126 | 19.8 | 22.3 | 46.5 |
| Osteopathic medicine (D.O.) | 6 | 5 | 7 | 9 | 14 | 16.7 | 100.0 | 133.3 |
| Dentistry | 47 | 49 | 53 | 59 | 60 | 12.8 | 13.2 | 27.7 |
| Optometry | 10 | 10 | 11 | 12 | 14 | 10.0 | 27.3 | 40.0 |
| Pharmacy | 77 | 74 | 74 | 73 | 72 | -3.9 | -2.7 | -6.5 |
| Podiatry | 5 | 5 | 5 | 5 | 5 | -- | -- | -- |
| Veterinary medicine | 18 | 18 | 18 | 19 | 23 | -- | 27.8 | 27.8 |
| Registered nursing ^{2/} | 1,137 | 1,193 | 1,355 | 1,375 | 1,389 | 19.2 | 2.5 | 22.2 |

^{1/} The academic year 1979-80 is used because comparable data for all schools are available for that year. 1980-81 data are given for schools of dentistry, pharmacy, veterinary medicine, and registered nursing in the appropriate individual tables for those occupations.

^{2/} Counts for all years are for nurse training programs; in 1979-80, there were 1,389 programs in 1,367 schools.

SOURCE: For sources of data, see the respective table for each occupation on trends in number of schools, students, and graduates.

TABLE A-2
 TOTAL NUMBER OF STUDENTS IN SCHOOLS FOR SELECTED HEALTH OCCUPATIONS:
 SELECTED ACADEMIC YEARS 1960-61 THROUGH 1979-80 ^{1/}

| Health occupation | Total number of students | | | | | Percent change | | |
|-----------------------------|--------------------------|---------|---------|---------|---------|--------------------|--------------------|--------------------|
| | 1960-61 | 1965-66 | 1970-71 | 1975-76 | 1979-80 | 1960-61 to 1970-71 | 1970-71 to 1979-80 | 1960-61 to 1979-80 |
| | Medicine | 32,232 | 34,516 | 42,389 | 59,223 | 68,344 | 31.5 | 61.2 |
| Allopathic medicine (M.D.) | 30,288 | 32,835 | 40,238 | 55,818 | 63,800 | 32.8 | 58.6 | 110.6 |
| Osteopathic medicine (D.O.) | 1,944 | 1,681 | 2,151 | 3,405 | 4,544 | 10.6 | 111.2 | 133.7 |
| Dentistry | 13,580 | 14,020 | 16,553 | 20,767 | 22,482 | 21.9 | 35.8 | 65.6 |
| Optometry | 1,101 | 1,745 | 2,831 | 3,888 | 4,524 | 157.1 | 59.8 | 310.9 |
| Pharmacy | 13,606 | 12,495 | 15,626 | 24,416 | 23,074 | 14.8 | 47.7 | 69.6 |
| Podiatry | 478 | 707 | 1,147 | 2,085 | 2,531 | 140.0 | 120.7 | 429.5 |
| Veterinary medicine | 3,497 | 4,119 | 5,006 | 6,274 | 7,803 | 43.1 | 55.9 | 123.1 |
| Registered nursing | 118,849 | 135,702 | 164,545 | 250,385 | 237,580 | 38.4 | 44.4 | 99.9 |

^{1/} The academic year 1979-80 is used because comparable data for all listed occupations are available for that year. 1980-81 data for total students are given for dentistry, pharmacy, veterinary medicine, and registered nursing in the appropriate individual tables for those occupations.

SOURCE: For sources of data, see the respective table for each occupation on trends in number of schools, students, and graduates.

TABLE A-3
NUMBER OF FIRST-YEAR STUDENTS IN SCHOOLS FOR SELECTED HEALTH OCCUPATIONS:
SELECTED ACADEMIC YEARS 1960-61 THROUGH 1979-80 ^{1/}

| Health Occupation | Number of first-year students | | | | | Percent change | | |
|-----------------------------|-------------------------------|---------|---------|---------|---------|--------------------------|--------------------------|--------------------------|
| | 1960-61 | 1965-66 | 1970-71 | 1975-76 | 1979-80 | 1960-61 to 1970-71 | 1970-71 to 1979-80 | 1960-61 to 1979-80 |
| Medicine | 8,794 | 9,224 | 11,971 | 16,333 | 18,299 | 36.1 | 52.9 | 108.1 |
| allopathic medicine (M.D.) | 8,298 | 8,760 | 11,348 | 15,295 | 16,930 | 36.7 | 49.2 | 104.0 |
| osteopathic medicine (D.O.) | 496 | 464 | 623 | 1,038 | 1,369 | 25.6 | 119.7 | 176.0 |
| Dentistry | 3,616 | 3,806 | 4,565 | 5,763 | 6,132 | 26.2 | 34.3 | 69.6 |
| Optometry | 407 | 643 | 884 | 1,057 | 1,209 | 117.2 | 36.8 | 197.1 |
| Pharmacy | 5,824 | 4,647 | 5,864 | 8,710 | 8,035 | 1.0 | 37.0 | 38.0 |
| Podiatry | 127 | 223 | 351 | 641 | 718 | 176.4 | 104.5 | 465.4 |
| Veterinary medicine | 953 | 1,242 | 1,430 | 1,712 | 2,247 | 45.5 | 57.1 | 128.6 |
| Registered nursing | 49,487 | 60,701 | 79,282 | 113,311 | 107,368 | 60.2 | 35.4 | 117.0 |

The academic year 1979-80 is used because comparable data for all listed occupations are available for that year. 1980-81 data for first-year students are given for dentistry, pharmacy, and veterinary medicine in the appropriate individual tables for those occupations.

^{1/} For sources of data, see the respective table for each occupation on trends in number of schools, students, and graduates.

TABLE A-4
NUMBER OF GRADUATES FROM SCHOOLS FOR SELECTED HEALTH OCCUPATIONS:
SELECTED ACADEMIC YEARS 1960-61 THROUGH 1979-80 ^{1/}

| Health Occupation | Number of graduates | | | | | Percent change | | |
|-----------------------------|---------------------|---------|---------|---------|---------------------|--------------------------|--------------------------|--------------------------|
| | 1960-61 | 1965-66 | 1970-71 | 1975-76 | 1979-80 | 1960-61 to 1970-71 | 1970-71 to 1979-80 | 1960-61 to 1979-80 |
| Medicine | 7,500 | 7,943 | 9,446 | 14,373 | 16,170 | 25.9 | 71.2 | 115.6 |
| allopathic medicine (M.D.) | 6,994 | 7,574 | 8,974 | 13,561 | 15,135 | 28.3 | 33.6 | 116.4 |
| osteopathic medicine (D.O.) | 506 | 369 | 472 | 812 | 1,035 | -6.7 | 119.3 | 104.5 |
| Dentistry | 3,290 | 3,198 | 3,775 | 5,336 | 5,256 | 14.7 | 39.2 | 59.8 |
| Optometry | 316 | 413 | 528 | 902 | 1,056 ^{2/} | 67.1 | 100.0 ^{2/} | 234.2 ^{2/} |
| Pharmacy | 3,136 | 3,704 | 4,747 | 7,757 | 7,278 | 38.1 | 53.3 | 111.7 |
| Podiatry | 115 | 135 | 241 | 497 | 572 ^{2/} | 107.7 | 137.3 ^{2/} | 393.1 ^{2/} |
| Veterinary medicine | 634 | 811 | 1,239 | 1,523 | 1,845 | 50.4 | 48.9 | 123.9 |
| Registered nursing | 30,267 | 35,125 | 47,001 | 77,633 | 76,415 | 55.3 | 62.6 | 152.5 |

The academic year 1979-80 is used because comparable data for graduates in all listed occupations, except optometry and podiatry, are available for that year.

^{2/} Data are for academic year 1978-79.

^{1/} For sources of data, see the respective table for each occupation on trends in number of schools, students, and graduates.

Table A-5
NUMBER AND PERCENT OF MINORITY STUDENTS IN SCHOOLS FOR SELECTED HEALTH OCCUPATIONS:
ACADEMIC YEARS 1971-72, 1975-76, AND 1979-80 1/

| Health occupation | 1971-72 | | | 1975-76 | | | 1979-80 | | |
|------------------------------|------------------------------------|-------------------|------------------|------------------------------------|-------------------|------------------|------------------------------------|-------------------|------------------|
| | Minority and non-minority students | Minority students | Percent minority | Minority and non-minority students | Minority students | Percent minority | Minority and non-minority students | Minority students | Percent minority |
| Dentistry | 13,031 | 1,300 | 10.0 | 16,333 | 1,642 | 11.3 | 18,299 | 2,330 | 12.7 |
| Podiatric medicine (M.D.) 2/ | 12,361 | 1,280 | 10.4 | 15,295 | 1,787 | 11.7 | 16,930 | 2,237 | 13.2 |
| Podiatric medicine (D.O.) 2/ | 670 | 20 | 3.0 | 1,038 | 55 | 5.3 | 1,369 | 93 | 6.8 |
| Podiatry 3/ | 4,705 | 412 | 8.8 | 5,697 | 637 | 11.2 | 6,066 | 745 | 12.3 |
| Pharmacy 4/ | 3,094 | 181 | 5.9 | 3,888 | 309 | 7.9 | 4,500 5/ | 344 | 7.6 |
| Pharmacy 4/ 6/ | 16,322 | 1,645 | 10.1 | 23,836 | 2,090 | 8.8 | 22,560 | 2,440 | 10.8 |
| Podiatry 4/ | 1,268 | 40 | 3.2 | 2,085 | 125 | 6.0 | 2,531 | 189 | 7.5 |
| Veterinary medicine 4/ | 5,149 | 133 | 2.6 | 6,274 | 204 | 3.3 | 7,803 | 313 | 4.0 |
| Registered nursing 2,5/ | 91,896 | 9,889 | 10.8 | 89,706 6/ | 11,322 6/ | 12.6 6/ | 101,438 2/ | 10,313 2/ | 10.2 2/ |
| Public health 4,5/ | * | * | * | 5,806 | 1,282 | 22.1 | 7,276 | 1,607 | 22.1 |

* Data not available.

1/ The academic year 1979-80 is used because comparable minority data for all listed occupations, except registered nursing, are available for that year. 1980-81 data are given for dentistry, pharmacy, podiatry, and veterinary medicine in the appropriate individual minority tables for those occupations.

2/ All data for these occupations are for first-year students.

3/ All data for these occupations are for total students.

4/ Some students are omitted from the counts because relevant minority enrollment data were not available.

5/ These students are omitted from the counts because relevant minority enrollment data were not available.

6/ These data are for 1974-75.

7/ These data are for 1977-78.

8/ For sources of data, see the respective table for each occupation (except registered nursing) on number and percent of minority students. Registered nursing data estimated by Health Resources Administration, Bureau of Health Professions, Division of Health Professions Analysis, based on data from the National League for Nursing and the American Nurses' Association.

TABLE A-6
NUMBER AND PERCENT OF FEMALE STUDENTS IN SCHOOLS FOR SELECTED HEALTH OCCUPATIONS:
ACADEMIC YEARS 1970-71, 1975-76, AND 1979-80 1/

| Health occupation | 1970-71 | | | 1975-76 | | | 1979-80 | | |
|------------------------------|--------------------------|-----------------|----------------|--------------------------|-----------------|----------------|--------------------------|-----------------|----------------|
| | Male and female students | Female students | Percent female | Male and female students | Female students | Percent female | Male and female students | Female students | Percent female |
| Dentistry | 11,971 | 1,273 | 10.6 | 16,333 | 3,787 | 23.2 | 18,299 | 4,968 | 27.2 |
| Podiatric medicine (M.D.) 2/ | 11,348 | 1,256 | 11.1 | 15,295 | 3,647 | 23.8 | 16,930 | 4,713 | 27.8 |
| Podiatric medicine (D.O.) 2/ | 673 | 17 | 2.7 | 1,038 | 140 | 13.5 | 1,369 | 255 | 18.6 |
| Podiatry 3/ | 4,563 | 94 | 2.1 | 5,763 | 707 | 12.3 | 6,132 | 1,076 | 17.6 |
| Pharmacy 4/ | 2,831 | 82 | 2.9 | 3,888 | 456 | 11.7 | 4,500 4/ | 868 | 19.3 |
| Pharmacy 4/ 6/ | 15,626 | 3,370 | 21.6 | 24,416 | 8,113 | 33.2 | 23,074 | 10,046 | 43.5 |
| Podiatry 4/ | 1,147 | 16 | 1.4 | 2,085 | 100 | 4.8 | 2,531 | 305 | 12.1 |
| Veterinary medicine 4/ | 5,006 | 467 | 9.3 | 6,274 | 1,468 | 23.7 | 7,803 | 2,858 | 36.6 |
| Registered nursing 2,4/ | 85,072 5/ | 79,907 5/ | 93.9 5/ | 89,706 6/ | 83,510 6/ | 93.1 6/ | 101,438 2/ | 95,079 2/ | 93.7 2/ |
| Public health 3,4/ | * | * | * | 6,020 | 2,857 | 47.5 | 7,346 | 3,949 | 53.8 |

* Data not available.

1/ The academic year 1979-80 is used because comparable male/female enrollment data for all listed occupations, except registered nursing, are available for that year. 1980-81 data are given for dentistry, pharmacy, podiatry, and veterinary medicine in the appropriate individual tables for those occupations.

2/ All data for these occupations are for first-year students.

3/ All data for these occupations are for total students.

4/ Some students are omitted from the counts because relevant male/female enrollment data were not available.

5/ These data are for 1971-72.

6/ These data are for 1974-75.

7/ These data are for 1977-78.

8/ For sources of data, see the respective table for each occupation (except registered nursing) on number and percent of female students. Registered nursing data estimated by Health Resources Administration, Bureau of Health Professions, Division of Health Professions Analysis, based on data from the National League for Nursing and the American Nurses' Association.

TABLE B-1
 NUMBER OF MEDICAL SCHOOLS, STUDENTS, AND GRADUATES:
 SELECTED ACADEMIC YEARS 1950-51 THROUGH 1979-80 ^{1/}

| Academic year | Number of schools | Number of students | | Number of graduates |
|---------------|-------------------|--------------------|------------|---------------------|
| | | Total | First year | |
| 1950-51 | 79 | 26,186 | 7,177 | 6,135 |
| 1955-56 | 82 | 28,639 | 7,686 | 6,845 |
| 1960-61 | 86 | 30,288 | 8,298 | 6,994 |
| 1961-62 | 87 | 31,078 | 8,483 | 7,168 |
| 1962-63 | 87 | 31,491 | 8,642 | 7,264 |
| 1963-64 | 87 | 32,001 | 8,842 | 7,336 |
| 1964-65 | 88 | 32,428 | 8,836 | 7,409 |
| 1965-66 | 88 | 32,835 | 8,760 | 7,574 |
| 1966-67 | 89 | 33,423 | 8,991 | 7,743 |
| 1967-68 | 94 | 34,538 | 9,473 | 7,973 |
| 1968-69 | 99 | 35,833 | 9,863 | 8,059 |
| 1969-70 | 101 | 37,690 | 10,422 | 8,367 |
| 1970-71 | 103 | 40,238 | 11,348 | 8,974 |
| 1971-72 | 108 | 43,650 | 12,361 | 9,551 |
| 1972-73 | 112 | 47,366 | 13,677 | 10,391 |
| 1973-74 | 114 | 50,751 | 14,159 | 11,613 |
| 1974-75 | 114 | 53,554 | 14,763 | 12,714 |
| 1975-76 | 114 | 55,818 | 15,295 | 13,561 |
| 1976-77 | 116 | 57,765 | 15,613 | 13,607 |
| 1977-78 | 122 | 60,039 | 16,136 | 14,393 |
| 1978-79 | 125 | 62,213 | 16,501 | 14,966 |
| 1979-80 | 126 | 63,800 | 16,930 | 15,135 |

^{1/} Includes schools of basic medical sciences.

SOURCE: "Datagram: 1979-80 Enrollment in U.S. Medical Schools," in Journal of Medical Education 55:1042-1044, December 1980. Also prior Datagrams.

Data for academic years 1950-51 through 1979-80 from American Medical Association. 80th Annual Report, Medical Education in the United States 1979-80, in Journal of the American Medical Association 244:2,801-2,872, December 26, 1980.

TABLE B-2
 NUMBER OF MEDICAL SCHOOL APPLICANTS IN RELATION TO NUMBER
 OF FIRST-YEAR MEDICAL STUDENTS: ACADEMIC YEARS 1960-61 THROUGH 1979-80

| Academic year | Number of applicants | Number of first-year students | Number of applicants per first-year student | Percent of applicants enrolled |
|-----------------------|----------------------|-------------------------------|---|--------------------------------|
| 1960-61 | 14,397 | 8,298 | 1.7 | 58 |
| 1961-62 | 14,381 | 8,483 | 1.7 | 59 |
| 1962-63 | 15,847 | 8,642 | 1.8 | 54 |
| 1963-64 | 17,668 | 8,842 | 2.0 | 50 |
| 1964-65 | 19,168 | 8,836 | 2.2 | 46 |
| 1965-66 | 18,703 | 8,760 | 2.1 | 47 |
| 1966-67 | 18,250 | 8,891 | 2.0 | 49 |
| 1967-68 | 18,724 | 9,473 | 2.0 | 51 |
| 1968-69 | 21,118 | 9,863 | 2.1 | 47 |
| 1969-70 | 24,465 | 10,422 | 2.3 | 43 |
| 1970-71 | 24,987 | 11,348 | 2.2 | 45 |
| 1971-72 | 29,172 | 12,361 | 2.4 | 42 |
| 1972-73 | 36,135 | 13,677 | 2.6 | 38 |
| 1973-74 | 40,506 | 14,159 | 2.9 | 35 |
| 1974-75 | 42,624 | 14,763 | 2.9 | 35 |
| 1975-76 | 42,303 | 15,295 | 2.8 | 36 |
| 1976-77 | 42,155 | 15,613 | 2.7 | 37 |
| 1977-78 ^{1/} | 40,569 | 16,136 | 2.5 | 40 |
| 1978-79 | 36,636 | 16,501 | 2.2 | 45 |
| 1979-80 | 36,141 | 16,930 | 2.1 | 47 |

^{1/} Applicant and first-year student data for this year do not include data for charter classes of three new medical schools.

SOURCE: "Datagram: Applicants for 1978-79 First-Year Medical School Class," in Journal of Medical Education 55:74-76, January 1980. Also prior Datagrams.

Unpublished applicant data for 1979-80 from American Association of Medical Colleges.

"Datagram: 1979-80 Enrollment in U.S. Medical Schools," in Journal of Medical Education 55:1042-1044, December 1980. Also prior Datagrams.

TABLE B-3

NUMBER OF MEDICAL SCHOOLS, STUDENTS, AND GRADUATES, BY STATE:
ACADEMIC YEAR 1979-80

| State | Number of schools | Number of students | | Number of graduates |
|------------------|-------------------|--------------------|------------|---------------------|
| | | Total | First year | |
| All States | 126 | 63,800 | 16,940 | 15,136 |
| Alabama | 1 | 64 | 160 | 130 |
| Arizona | 1 | 325 | 39 | 39 |
| Arkansas | 1 | 533 | 145 | 145 |
| California | 8 | 4,157 | 1,005 | 953 |
| Colorado | 1 | 521 | 129 | 129 |
| Connecticut | 1 | 794 | 184 | 160 |
| Delaware | 3 | 1,931 | 501 | 477 |
| Florida | 3 | 1,395 | 396 | 381 |
| Georgia | 1 | 1,159 | 324 | 29 |
| Hawaii | 1 | 297 | 66 | 7 |
| Illinois | 7 | 4,174 | 1,075 | 1,080 |
| Indiana | 1 | 1,241 | 315 | 258 |
| Iowa | 1 | 711 | 177 | 171 |
| Kansas | 1 | 651 | 207 | 184 |
| Kentucky | 2 | 1,038 | 249 | 260 |
| Louisiana | 3 | 1,721 | 447 | 423 |
| Maryland | 3 | 1,521 | 450 | 319 |
| Massachusetts | 4 | 2,269 | 558 | 530 |
| Michigan | 3 | 2,407 | 611 | 589 |
| Minnesota | 3 | 1,350 | 340 | 316 |
| Mississippi | 1 | 600 | 153 | 152 |
| Missouri | 4 | 1,137 | 474 | 437 |
| Montana | 1 | 984 | 267 | 249 |
| Nebraska | 1 | 111 | 49 | 46 |
| Nevada | 1 | 200 | 65 | 63 |
| New Hampshire | 1 | 1,006 | 269 | 217 |
| New Jersey | 1 | 293 | 73 | 70 |
| New Mexico | 1 | 6,807 | 1,637 | 1,674 |
| New York | 4 | 1,676 | 437 | 387 |
| North Carolina | 1 | 1,136 | 66 | 67 |
| North Dakota | 1 | 1,456 | 314 | 298 |
| Ohio | 1 | 763 | 191 | 184 |
| Oklahoma | 1 | 560 | 136 | 131 |
| Oregon | 2 | 4,460 | 1,197 | 1,146 |
| Pennsylvania | 1 | 1,527 | 371 | 361 |
| Rhode Island | 1 | 711 | 206 | 195 |
| South Carolina | 1 | 283 | 66 | 46 |
| South Dakota | 1 | 1,668 | 510 | 501 |
| Tennessee | 2 | 3,811 | 1,112 | 711 |
| Texas | 1 | 1,144 | 100 | 49 |
| Utah | 1 | 234 | 43 | 30 |
| Vermont | 1 | 1,470 | 410 | 368 |
| Virginia | 1 | 726 | 191 | 171 |
| Washington | 1 | 434 | 6 | 11 |
| Washington State | 1 | 1,200 | 317 | 317 |
| West Virginia | 1 | 594 | 15 | 17 |

Source: American Medical Association, "Medical Schools and Their Graduates," *Journal of the American Medical Association*, 244:2, 372-373, 1980.

Source: American Medical Association, "Medical Schools and Their Graduates," *Journal of the American Medical Association*, 244:2, 372-373, 1980.

Source: American Medical Association, "80th Annual Report, Medical Education in the United States 1979-1980," in *Journal of the American Medical Association*, 244:2, 301-3, 372, October 16, 1980.

TABLE B-4

 NEW ENGLAND FIRST-YEAR STUDENTS IN MEDICAL SCHOOLS:
 ACADEMIC YEARS 1970-71 THROUGH 1979-80

| Academic year | All first-year students | Race/ethnicity category | | | | | Total minority | Percent minority |
|---------------|-------------------------|-------------------------|----------|-----------|--------------|----------------|----------------|------------------|
| | | Black | Hispanic | Potential | Asian Indian | Other minority | | |
| 1970-71 | 11,348 | 89 | 11 | 19 | 4 | 112 | 998 | 8.8 |
| 1971-72 | 12,361 | 111 | 15 | 27 | 4 | 157 | 1,280 | 10.4 |
| 1972-73 | 13,677 | 130 | 17 | 37 | 4 | 188 | 1,377 | 10.1 |
| 1973-74 | 14,159 | 1,307 | 136 | 139 | 4 | 157 | 1,637 | 11.6 |
| 1974-75 | 14,763 | 1,107 | 141 | 141 | 4 | 196 | 1,449 | 9.8 |
| 1975-76 | 15,295 | 1,107 | 141 | 141 | 4 | 196 | 1,767 | 11.5 |
| 1976-77 | 15,613 | 1,106 | 141 | 141 | 4 | 196 | 1,841 | 11.8 |
| 1977-78 | 16,136 | 1,211 | 171 | 141 | 4 | 217 | 2,103 | 13.0 |
| 1978-79 | 16,501 | 1,171 | 181 | 141 | 4 | 217 | 2,146 | 12.9 |
| 1979-80 | 16,930 | 1,171 | 181 | 141 | 4 | 217 | 2,237 | 13.2 |

Students of Commonwealth of Massachusetts are not included in the "potential" data column, but are included in the "total minority" column.

Data were not provided for the "other minority" for some years. Where such data were provided, they include students of "other" as well as "other minority".

Datagram: 1979-80 Enrollment in U.S. Medical Schools, in Journal of Medical Education 55:1042-1044, December 1980. Also prior Datagrams.

TABLE B-5

 FIRST-YEAR STUDENTS IN MEDICAL SCHOOLS, BY SEX:
 ACADEMIC YEARS 1970-71 THROUGH 1979-80

| Academic year | All first-year students | Male students | Female students | Percent female of first-year students |
|---------------|-------------------------|---------------|-----------------|---------------------------------------|
| 1970-71 | 11,348 | 10,092 | 1,256 | 11.1 |
| 1971-72 | 12,361 | 10,668 | 1,693 | 13.7 |
| 1972-73 | 13,677 | 11,377 | 2,300 | 16.8 |
| 1973-74 | 14,159 | 11,369 | 2,790 | 19.7 |
| 1974-75 | 14,763 | 11,488 | 3,275 | 22.2 |
| 1975-76 | 15,295 | 11,648 | 3,647 | 23.8 |
| 1976-77 | 15,613 | 11,755 | 3,858 | 24.7 |
| 1977-78 | 16,136 | 12,006 | 4,130 | 25.6 |
| 1978-79 | 16,501 | 12,339 | 4,162 | 25.2 |
| 1979-80 | 16,930 | 12,217 | 4,713 | 27.8 |

SOURCE: "Datagram: 1979-80 Enrollment in U.S. Medical Schools," in Journal of Medical Education 55:1042-1044, December 1980. Also prior Datagrams.

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TABLE B-7
NUMBER AND PERCENT DISTRIBUTION OF FIRST-YEAR MEDICAL RESIDENTS,
BY GENERAL PRACTICE AND SPECIALTY: SEPTEMBER 1, 1960, 1970, AND 1978

| Specialty | First-year residents ¹ | | | | | |
|---|-----------------------------------|----------------------|--------|----------------------|----------------------|----------------------|
| | 1960 | | 1970 | | 1978 | |
| | Number | Percent distribution | Number | Percent distribution | Number | Percent distribution |
| All first-year residents | 14,556 | 100.0 | 14,556 | 100.0 | 22,291 | 100.0 |
| General practice ² | 364 | 3.3 | 275 | 1.9 | 2,296 | 10.3 |
| Specialties | 3,188 | 28.8 | 4,533 | 31.1 | 9,219 | 41.4 |
| Anesthesiology | 102 | 0.9 | 205 | 1.4 | 291 | 1.3 |
| Internal medicine | 2,193 | 19.8 | 3,044 | 20.9 | 6,771 ^{2/3} | 30.4 |
| Pediatrics | 893 | 8.1 | 1,284 | 8.8 | 2,157 | 9.7 |
| Surgical specialties | 4,274 | 38.6 | 5,301 | 36.4 | 6,238 | 28.0 |
| General surgery | 2,122 | 19.2 | 2,514 | 17.3 | 2,746 | 12.3 |
| Orthopedic surgery | 101 | 0.9 | 141 | 1.0 | 121 | 0.5 |
| Obstetrics and gynecology | 917 | 8.3 | 857 | 5.9 | 1,218 | 5.5 |
| Urology | 88 | 2.6 | 460 | 3.2 | 523 | 2.3 |
| Thoracic surgery | 112 | 3.2 | 528 | 3.6 | 684 | 3.1 |
| Plastic surgery | 153 | 1.4 | 234 | 1.6 | 270 | 1.2 |
| Neurological surgery | 47 | 0.4 | 120 | 0.8 | 200 | 0.9 |
| Ear, nose and throat surgery | -- | -- | 11 | 0.1 | 39 | 0.2 |
| Ophthalmology | 89 | 0.8 | 125 | 0.8 | 144 | 0.7 |
| Radiology | 204 | 1.8 | 311 | 2.1 | 293 | 1.3 |
| Other specialties | 3,244 | 29.3 | 4,447 | 30.6 | 7,538 | 33.7 |
| Allergy and immunology | 550 | 5.0 | 688 | 4.7 | 607 | 2.7 |
| Cardiology | 18 | 0.3 | 178 | 1.2 | 288 | 1.3 |
| Dermatology | 149 | 1.3 | 283 | 1.9 | 437 | 2.0 |
| Endocrinology | 757 | 5.8 | 758 | 5.2 | 814 | 3.6 |
| Environmental and occupational medicine | 55 | 0.5 | 101 | 0.8 | 161 | 0.7 |
| Psychiatry | 1,090 | 9.8 | 1,388 | 9.5 | 1,081 | 4.8 |
| Radiology (non-surgical) | 544 | 4.9 | 1,051 | 7.2 | 950 | 4.3 |
| Respiratory | 71 | 0.7 | -- | -- | 200 | 0.9 |

¹ Family practice was not a recognized specialty in 1960.

² Includes allergy and immunology.

³ Includes pediatric allergy and pediatric cardiology.

⁴ Includes clinical genetic pathology.

⁵ Includes both diagnostic and therapeutic radiology.

⁶ Includes aerospace medicine, occupational medicine, public health, general preventive medicine, and nuclear medicine.

⁷ Data compiled by Health Resources Administration, Bureau of Health Professions, Division of Health Professions. Analysis, based on data from American Medical Association, Directory of Residency Training Programs, 1979-80. Also 1961 and 1971-72 editions.

TABLE B-8
 AVERAGE FIRST-YEAR TUITION FOR RESIDENT AND NON-RESIDENT
 MEDICAL STUDENTS, BY PRIVATE AND PUBLIC SCHOOL:
 ACADEMIC YEARS 1970-71 THROUGH 1980-81

| Academic year | First-year tuition | | | | |
|------------------|--------------------|-------------------|---------------------|-------------------|------------------|
| | All schools | Public schools | Private schools | | |
| | | | All types | State- related | Other private |
| | | | <u>Resident</u> | | |
| 1970-71 | \$1,278 | \$ 663 | \$1,988 | \$ 699 | \$2,110 |
| 1971-72 | 1,386 | 742 | 2,157 | 921 | 2,275 |
| 1972-73 | 1,444 | 765 | 2,286 | 982 | 2,410 |
| 1973-74 | 1,552 | 849 | 2,463 | 1,266 | 2,638 |
| 1974-75 | 1,811 | 949 | 2,639 | 1,058 | 2,865 |
| 1975-76 | 1,816 | 992 | 2,929 | 1,638 | 3,110 |
| 1976-77 | 2,025 | 1,072 | 3,264 | 1,542 | 3,642 |
| 1977-78 | 2,408 | 1,133 | 4,203 | 2,267 | 4,635 |
| 1978-79 | 2,827 | 1,381 | 4,843 | 3,025 | 5,207 |
| 1979-80 | 3,654 | 1,725 | 6,548 | 5,194 | 6,769 |
| 1980-81 | 4,172 | 1,827 | 7,621 | 6,281 | 7,800 |
| | | | <u>Non-resident</u> | | |
| 1970-71 | \$1,622 | \$1,230 | \$2,066 | \$1,600 | \$2,110 |
| 1971-72 | 1,810 | 1,446 | 2,246 | 1,938 | 2,275 |
| 1972-73 | 1,945 | 1,597 | 2,377 | 2,032 | 2,410 |
| 1973-74 | 2,161 | 1,808 | 2,619 | 2,489 | 2,638 |
| 1974-75 | 2,401 | 1,960 | 2,961 | 2,438 | 2,865 |
| 1975-76 | 2,471 | 2,064 | 3,094 | 2,985 | 3,110 |
| 1976-77 | 2,821 | 2,318 | 3,584 | 2,922 | 3,642 |
| 1977-78 | 3,198 | 2,420 | 4,491 | 3,837 | 4,635 |
| 1978-79 | 3,893 | 3,027 | 5,129 | 4,741 | 5,207 |
| 1979-80 | 5,032 | 3,826 | 6,793 | 6,936 | 6,769 |
| 1980-81 | 5,574 | 3,963 | 7,882 | 8,500 | 7,800 |

SOURCE: Compiled by Health Resources Administration, Bureau of Health Professions, Division of Health Professions Analysis, based on data from the American Medical Association. 80th Annual Report, Medical Education in the United States 1979-1980, in Journal of the American Medical Association 244:2,801-2,872, December 26, 1980. Also prior annual issues.

TABLE C-1
NUMBER OF SCHOOLS OF OSTEOPATHY, STUDENTS, AND GRADUATES:
ACADEMIC YEARS 1960-61 THROUGH 1979-80

| Academic year | Number of schools | Number of students | | Number of graduates |
|---------------|-------------------|--------------------|------------|---------------------|
| | | Total | First year | |
| 1960-61 | 6 | 1,944 | 496 | 506 |
| 1961-62 | 6 | 1,913 | 530 | 362 |
| 1962-63 | 5 | 1,581 | 433 | 362 |
| 1963-64 | 5 | 1,594 | 441 | 354 |
| 1964-65 | 5 | 1,661 | 472 | 395 |
| 1965-66 | 5 | 1,681 | 464 | 369 |
| 1966-67 | 5 | 1,763 | 480 | 405 |
| 1967-68 | 5 | 1,823 | 509 | 427 |
| 1968-69 | 5 | 1,879 | 521 | 427 |
| 1969-70 | 6 | 1,997 | 577 | 432 |
| 1970-71 | 7 | 2,151 | 623 | 472 |
| 1971-72 | 7 | 2,304 | 670 | 485 |
| 1972-73 | 7 | 2,579 | 810 | 649 |
| 1973-74 | 7 | 2,780 | 884 | 587 |
| 1974-75 | 9 | 3,139 | 974 | 698 |
| 1975-76 | 9 | 3,405 | 1,038 | 812 |
| 1976-77 | 10 | 3,818 | 1,088 | 891 |
| 1977-78 | 12 | 3,916 | 1,163 | 963 |
| 1978-79 | 14 | 4,220 | 1,322 | 1,004 |
| 1979-80 | 14 | 4,544 | 1,369 | 1,035 |

SOURCE: Data compiled by Health Resources Administration, Bureau of Health Professions, Division of Health Professions Analysis, based on data from the American Osteopathic Association, and the American Association of Colleges of Osteopathic Medicine.

TABLE OF
 NUMBER OF STUDENTS AND GRADUATES OF INDIVIDUAL SCHOOLS
 OF OSTEOPATHIC MEDICINE, ACADEMIC YEAR 1979-80

| State | School | Number of students | | Number graduates |
|---------------|--|--------------------|------------|---------------------|
| | | Total | First year | |
| | | 4,544 | 1,369 | 1,048 |
| ALABAMA | College of Osteopathic Medicine of the South | 90 | 54 | 46 |
| ARIZONA | College of Osteopathic Medicine | 376 | 96 | 78 |
| ARIZONA | College of Osteopathic Medicine and Surgery | 505 | 180 | 142 |
| ARIZONA | College of Osteopathic Medicine and Surgery | 92 | 56 | 44 |
| ARIZONA | Montana State University, College of Osteopathic Medicine | 342 | 115 | 97 |
| KANSAS | Kansas City College of Osteopathic Medicine | 616 | 164 | 143 |
| KANSAS | Wichita College of Osteopathic Medicine | 508 | 132 | 115 |
| NEW JERSEY | New Jersey School of Osteopathic Medicine | 84 | 32 | 22 |
| NEW YORK | New York Institute of Technology, College of Osteopathic Medicine | 156 | 66 | 52 |
| OHIO | Ohio University, College of Osteopathic Medicine | 143 | 48 | 31 |
| OKLAHOMA | Washburn College of Osteopathic Medicine and Surgery | 231 | 92 | 74 |
| PENNSYLVANIA | Philadelphia College of Osteopathic Medicine | 306 | 209 | 161 |
| TENNESSEE | Texas College of Osteopathic Medicine | 303 | 84 | 71 |
| WEST VIRGINIA | West Virginia School of Osteopathic Medicine | 120 | 60 | 48 |

Statistics compiled by Health Resources Administration, Bureau of Health Professions, Division of Health Professions Analysis, based on data from the American Osteopathic Association, and the American Association of Colleges of Osteopathic Medicine.

TABLE C-3
 MINORITY STUDENTS IN FIRST YEAR OF SCHOOL OF OSTEOPATHY:
 ACADEMIC YEARS 1971-72 THROUGH 1979-80

| Academic year | All first-year students | Racial/ethnic category | | | | Total minority | Percent minority of first-year students |
|---------------|-------------------------|------------------------|----------|----------|-----------------|----------------|---|
| | | Black | Hispanic | Oriental | American Indian | | |
| 1971-72 | 670 | 10 | 5 | 4 | 1 | 20 | 3.0 |
| 1972-73 | 810 | 13 | 7 | -- | 3 | 23 | 2.8 |
| 1973-74 | 884 | 10 | 2 | 8 | 4 | 24 | 2.7 |
| 1974-75 | 974 | 26 | 6 | 7 | 1 | 40 | 4.1 |
| 1975-76 | 1,038 | 23 | 10 | 15 | 7 | 55 | 5.3 |
| 1976-77 | 1,088 | 26 | 12 | 15 | 6 | 59 | 5.4 |
| 1977-78 | 1,163 | 26 | 13 | 16 | 8 | 63 | 5.4 |
| 1978-79 | 1,322 | 31 | 17 | 16 | 10 | 74 | 5.6 |
| 1979-80 | 1,369 | 40 | 18 | 29 | 6 | 93 | 6.8 |

SOURCE: Data compiled by Health Resources Administration, Bureau of Health Professions, Division of Health Professions Analysis, based on data from American Osteopathic Association and American Association of Colleges of Osteopathic Medicine.

TABLE C-4
 FIRST-YEAR STUDENTS IN SCHOOLS OF OSTEOPATHY, BY SEX:
 ACADEMIC YEARS 1970-71 THROUGH 1979-80

| Academic year | All first-year students | Male students | Female students | Percent female of first-year students |
|---------------|-------------------------|---------------|-----------------|---------------------------------------|
| 1970-71 | 623 | 606 | 17 | 2.7 |
| 1971-72 | 670 | 641 | 29 | 4.3 |
| 1972-73 | 810 | 754 | 56 | 6.9 |
| 1973-74 | 884 | 801 | 83 | 9.4 |
| 1974-75 | 974 | 868 | 106 | 10.9 |
| 1975-76 | 1,038 | 898 | 140 | 13.5 |
| 1976-77 | 1,088 | 909 | 179 | 16.5 |
| 1977-78 | 1,163 | 971 | 192 | 16.5 |
| 1978-79 | 1,322 | 1,100 | 222 | 16.8 |
| 1979-80 | 1,369 | 1,114 | 255 | 18.6 |

SOURCE: Data compiled by Health Resources Administration, Bureau of Health Professions, Division of Health Professions Analysis, based on data from the American Osteopathic Association, and the American Association of Colleges of Osteopathic Medicine.

TABLE D-1
NUMBER OF DENTAL SCHOOLS, STUDENTS, AND GRADUATES:
SELECTED ACADEMIC YEARS 1950-51 THROUGH 1980-81

| Academic year | Number of schools | Number of students | | Number of graduates |
|---------------|-------------------|--------------------|------------|---------------------|
| | | Total | First year | |
| 1950-51 | 42 | 11,891 | 3,226 | 2,830 |
| 1955-56 | 43 | 12,730 | 3,445 | 3,038 |
| 1960-61 | 47 | 13,580 | 3,616 | 3,290 |
| 1961-62 | 47 | 13,513 | 3,605 | 3,207 |
| 1962-63 | 48 | 13,576 | 3,680 | 3,233 |
| 1963-64 | 48 | 13,691 | 3,770 | 3,213 |
| 1964-65 | 49 | 13,876 | 3,836 | 3,181 |
| 1965-66 | 49 | 14,020 | 3,806 | 3,198 |
| 1966-67 | 49 | 14,421 | 3,942 | 3,360 |
| 1967-68 | 50 | 14,955 | 4,200 | 3,457 |
| 1968-69 | 52 | 15,408 | 4,203 | 3,433 |
| 1969-70 | 53 | 16,008 | 4,355 | 3,749 |
| 1970-71 | 53 | 16,553 | 4,565 | 3,775 |
| 1971-72 | 52 | 17,305 | 4,745 | 3,961 |
| 1972-73 | 56 | 18,376 | 5,337 | 4,230 |
| 1973-74 | 58 | 19,369 | 5,445 | 4,515 |
| 1974-75 | 58 | 20,146 | 5,617 | 4,969 |
| 1975-76 | 59 | 20,767 | 5,763 | 5,336 |
| 1976-77 | 59 | 21,013 | 5,935 | 5,177 |
| 1977-78 | 59 | 21,510 | 5,954 | 5,324 |
| 1978-79 | 60 | 22,179 | 6,301 | 5,424 |
| 1979-80 | 60 | 22,482 | 6,132 | 5,256 |
| 1980-81 | 60 | 22,842 | 6,030 | -- ¹ |

^{1/} Data are not available at this time.

SOURCE: American Dental Association, Council on Dental Education. Dental Students' Register for each selected academic year from 1950-51 through 1966-67. Annual Report on Dental Education for all subsequent academic years.

TABLE D-2
 NUMBER OF DENTAL SCHOOL APPLICANTS IN RELATION TO NUMBER OF
 FIRST-YEAR DENTAL STUDENTS: ACADEMIC YEARS 1960-61 THROUGH 1979-80

| Academic year | Number of applicants | Number of first-year students | Number of applicants per first-year student | Percent of applicants enrolled |
|---------------|----------------------|-------------------------------|---|--------------------------------|
| 1960-61 | 6,119 | 3,616 | 1.7 | 59 |
| 1961-62 | 5,841 | 3,605 | 1.6 | 62 |
| 1962-63 | 6,566 | 3,680 | 1.8 | 56 |
| 1963-64 | 8,969 | 3,770 | 2.4 | 42 |
| 1964-65 | 9,598 | 3,836 | 2.5 | 40 |
| 1965-66 | 9,988 | 3,806 | 2.6 | 38 |
| 1966-67 | 10,177 | 3,942 | 2.6 | 39 |
| 1967-68 | 10,264 | 4,200 | 2.4 | 41 |
| 1968-69 | 9,037 | 4,203 | 2.2 | 46 |
| 1969-70 | 10,325 | 4,355 | 2.4 | 42 |
| 1970-71 | 10,413 | 4,565 | 2.3 | 44 |
| 1971-72 | 11,012 | 4,745 | 2.3 | 43 |
| 1972-73 | 13,542 | 5,337 | 2.5 | 39 |
| 1973-74 | 14,876 | 5,445 | 2.7 | 37 |
| 1974-75 | 14,970 | 5,617 | 2.7 | 38 |
| 1975-76 | 15,734 | 5,763 | 2.7 | 37 |
| 1976-77 | 14,807 | 5,935 | 2.5 | 40 |
| 1977-78 | 12,835 | 5,954 | 2.2 | 46 |
| 1978-79 | 11,753 | 6,301 | 1.9 | 54 |
| 1979-80 | 10,520 | 6,132 | 1.7 | 58 |

SOURCE: Data compiled by Health Resources Administration, Bureau of Health Professions, Division of Health Professions Analysis, based on data from American Association of Dental Schools. Applicant Analysis, 1978 and 1979 Entering Classes. Also prior reports for 1977, 1976, and 1975.

American Dental Association, Council on Dental Education. Analysis of Applicants to Dental School and First-Year Enrollment 1974. Supplement 7 to Annual Report on Dental Education 1974-75. Also prior annual reports.

TABLE D-3
NUMBER OF DENTAL SCHOOLS, STUDENTS, AND GRADUATES,
BY STATE: 1980

| State | Number of schools | Number of students as of October 15, 1980 | | Number of graduates 1979-80 |
|----------------------|-------------------|---|------------|-----------------------------|
| | | Total | First year | |
| Total | 60 | 22,842 | 6,030 | 5,256 |
| Alabama | 1 | 297 | 72 | 64 |
| California | 5 | 2,125 | 586 | 556 |
| Colorado | 1 | 101 | 26 | 25 |
| Connecticut | 1 | 193 | 51 | 43 |
| District of Columbia | 2 | 1,010 | 264 | 222 |
| Florida | 1 | 256 | 66 | 63 |
| Georgia | 2 | 666 | 168 | 150 |
| Illinois | 4 | 1,782 | 489 | 401 |
| Indiana | 1 | 511 | 132 | 116 |
| Iowa | 1 | 370 | 94 | 93 |
| Kentucky | 2 | 562 | 146 | 139 |
| Louisiana | 1 | 358 | 101 | 91 |
| Maryland | 1 | 530 | 138 | 126 |
| Massachusetts | 3 | 734 | 226 | 206 |
| Michigan | 2 | 933 | 235 | 214 |
| Minnesota | 1 | 579 | 150 | 137 |
| Mississippi | 1 | 159 | 48 | 22 |
| Missouri | 2 | 965 | 245 | 171 |
| Nebraska | 2 | 570 | 144 | 138 |
| New Jersey | 2 | 667 | 178 | 79 |
| New York | 4 | 1,489 | 389 | 352 |
| North Carolina | 1 | 317 | 86 | 72 |
| Ohio | 2 | 948 | 260 | 288 |
| Oklahoma | 2 | 338 | 94 | 61 |
| Oregon | 1 | 309 | 80 | 76 |
| Pennsylvania | 3 | 1,697 | 425 | 413 |
| South Carolina | 1 | 223 | 57 | 1 |
| Tennessee | 2 | 788 | 184 | 103 |
| Texas | 3 | 1,477 | 415 | 381 |
| Virginia | 1 | 434 | 113 | 106 |
| Washington | 1 | 402 | 101 | 91 |
| West Virginia | 1 | 245 | 64 | 58 |
| Wisconsin | 1 | 546 | 137 | 135 |
| Puerto Rico | 1 | 261 | 66 | 63 |

SOURCE: American Dental Association, Council on Dental Education. Annual Report on Dental Education, 1980-81.

TABLE D-4
 MINORITY STUDENTS IN FIRST YEAR OF DENTAL SCHOOL:
 ACADEMIC YEARS 1971-72 THROUGH 1980-81 ^{1/}

| Academic year | All first-year students | Racial/ethnic category | | | | | Total minority | Percent minority of first-year students |
|---------------|-------------------------|------------------------|----------|----------|-----------------|----------------|----------------|---|
| | | Black | Hispanic | Oriental | American Indian | Other minority | | |
| 1971-72 | 4,705 | 245 | 40 | 112 | 4 | 11 | 412 | 8.8 |
| 1972-73 | 5,287 | 266 | 56 | 138 | 5 | 10 | 475 | 9.0 |
| 1973-74 | 5,389 | 273 | 69 | 141 | 12 | 34 | 529 | 9.8 |
| 1974-75 | 5,555 | 279 | 75 | 142 | 12 | 43 | 551 | 9.9 |
| 1975-76 | 5,697 | 298 | 75 | 186 | 22 | 56 | 637 | 11.2 |
| 1976-77 | 5,869 | 291 | 96 | 174 | 21 | 68 | 650 | 11.1 |
| 1977-78 | 5,890 | 296 | 110 | 225 | 10 | ^{2/} | 641 | 10.9 |
| 1978-79 | 6,235 | 280 | 122 | 263 | 16 | ^{2/} | 681 | 10.9 |
| 1979-80 | 6,066 | 274 | 163 | 289 | 19 | ^{2/} | 745 | 12.3 |
| 1980-81 | 5,964 | 283 | 160 | 317 | 12 | ^{2/} | 772 | 12.9 |

^{1/} Excludes students at University of Puerto Rico.

^{2/} The category of "Other minority" was eliminated from first-year student data for 1977-78 and subsequent years.

SOURCE: American Dental Association, Council on Dental Education. Minority Student Enrollment and Opportunities in U.S. Dental Schools, for 1971-72 and for 1972-73. Minority Report; Supplement of Annual Report on Dental Education 1973-74, and reports for subsequent academic years.

TABLE D-5
 FIRST-YEAR STUDENTS IN DENTAL SCHOOLS, BY SEX:
 ACADEMIC YEARS 1970-71 THROUGH 1980-81

| Academic year | All first-year students | Male students | Female students | Percent female of first-year students |
|---------------|-------------------------|---------------|-----------------|---------------------------------------|
| 1970-71 | 4,565 | 4,471 | 94 | 2.1 |
| 1971-72 | 4,745 | 4,598 | 147 | 3.1 |
| 1972-73 | 5,337 | 5,113 | 224 | 4.2 |
| 1973-74 | 5,445 | 5,054 | 391 | 7.2 |
| 1974-75 | 5,617 | 4,986 | 631 | 11.2 |
| 1975-76 | 5,763 | 5,056 | 707 | 12.3 |
| 1976-77 | 5,935 | 5,133 | 802 | 13.5 |
| 1977-78 | 5,954 | 5,074 | 880 | 14.8 |
| 1978-79 | 6,301 | 5,301 | 1,000 | 15.9 |
| 1979-80 | 6,132 | 5,056 | 1,076 | 17.6 |
| 1980-81 | 6,030 | 4,836 | 1,194 | 19.8 |

SOURCE: American Dental Association, Council on Dental Education. Annual Report on Dental Education, 1980-81. Also prior annual issues.

TABLE D-6
 GRADUATES OF DENTAL GENERAL PRACTICE RESIDENCIES
 AND DENTAL SPECIALTY PROGRAMS: 1975-1980

| Type of graduate | Year of graduation | | | | | |
|----------------------------|--------------------|-------|-------|-------|-------|-------|
| | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 |
| All graduates | 1,886 | 1,930 | 1,919 | 1,900 | 1,931 | 2,048 |
| General practice graduates | 641 | 721 | 695 | 746 | 817 | 916 |
| Specialty graduates, total | 1,245 | 1,209 | 1,224 | 1,154 | 1,114 | 1,132 |
| Orthodontics | 356 | 313 | 287 | 280 | 277 | 256 |
| Oral surgery | 216 | 222 | 217 | 211 | 213 | 206 |
| Periodontics | 192 | 183 | 206 | 162 | 159 | 182 |
| Pedodontics | 172 | 151 | 169 | 162 | 155 | 167 |
| Endodontics | 134 | 146 | 144 | 130 | 121 | 142 |
| Prosthodontics | 141 | 151 | 161 | 170 | 156 | 151 |
| Oral pathology | 17 | 19 | 21 | 24 | 26 | 15 |
| Public health dentistry | 17 | 24 | 19 | 15 | 7 | 13 |

SOURCE: American Dental Association, Council on Dental Education. Annual Report on Advanced Dental Education, 1980-81. Also prior annual issues.

TABLE D-7
STUDENTS AND GRADUATES IN DENTAL GENERAL PRACTICE RESIDENCIES
AND DENTAL SPECIALTY PROGRAMS: 1980

| Type of program | Number of students as of October 15, 1980 | | Number of graduates 1979-80 |
|---------------------------------------|--|------------|-----------------------------------|
| | Total | First year | |
| All programs | 3,803 | 2,149 | 2,048 |
| General practice residencies, total | 1,020 | 942 | 916 |
| Dental schools | 127 | 110 | 93 |
| Non-dental-school institutions | 893 | 832 | 823 |
| Specialty programs, total | 2,783 | 1,207 | 1,132 |
| Dental schools, total | 2,042 | 916 | 837 |
| Orthodontics | 517 | 260 | 234 |
| Oral surgery | 330 | 105 | 96 |
| Periodontics | 358 | 167 | 154 |
| Pedodontics | 281 | 138 | 122 |
| Endodontics | 235 | 107 | 119 |
| Prosthodontics | 247 | 114 | 98 |
| Oral pathology | 54 | 19 | 12 |
| Public health dentistry | 20 | 6 | 2 |
| Non-dental-school institutions, total | 741 | 291 | 295 |
| Orthodontics | 51 | 23 | 22 |
| Oral surgery | 367 | 112 | 110 |
| Periodontics | 50 | 23 | 28 |
| Pedodontics | 96 | 52 | 45 |
| Endodontics | 47 | 22 | 23 |
| Prosthodontics | 103 | 39 | 53 |
| Oral pathology | 9 | 4 | 3 |
| Public health dentistry | 18 | 16 | 11 |

SOURCE: American Dental Association, Council on Dental Education. Annual Report on Advanced Dental Education, 1980-81.

Table D-8

AVERAGE FIRST-YEAR TUITION FOR RESIDENT AND NON-RESIDENT
DENTAL STUDENTS, BY PUBLIC AND PRIVATE SCHOOLS:
ACADEMIC YEARS 1970-71 THROUGH 1980-81

| Academic year | First-year tuition | | | | |
|------------------|---------------------|-------------------|-----------------|-------------------|------------------|
| | | | Private schools | | |
| | All schools | Public schools | All types | State- related | Other private |
| | <u>Resident</u> | | | | |
| 1970-71 | \$1,308 | 1,772 | \$2,062 | \$1,648 | \$2,208 |
| 1971-72 | 1,418 | 792 | 2,208 | 1,612 | 2,418 |
| 1972-73 | 1,435 | 843 | 2,264 | 1,839 | 2,439 |
| 1973-74 | 1,744 | 1,128 | 2,831 | 2,122 | 3,185 |
| 1974-75 | 1,928 | 1,176 | 2,992 | 2,623 | 3,257 |
| 1975-76 | 2,206 | 1,362 | 3,436 | 2,812 | 3,882 |
| 1976-77 | 2,615 | 1,638 | 4,039 | 3,341 | 4,632 |
| 1977-78 | 3,020 | 1,812 | 4,782 | 4,026 | 5,422 |
| 1978-79 | 3,311 | 1,721 | 5,302 | 4,836 | 5,769 |
| 1979-80 | 3,810 | 1,966 | 6,463 | 5,640 | 6,977 |
| 1980-81 | 4,393 | 2,117 | 7,578 | 6,779 | 8,111 |
| | <u>Non-resident</u> | | | | |
| 1970-71 | \$1,792 | \$1,492 | \$2,170 | \$2,062 | \$2,208 |
| 1971-72 | 1,907 | 1,661 | 2,352 | 2,163 | 2,418 |
| 1972-73 | 2,005 | 1,722 | 2,368 | 2,195 | 2,439 |
| 1973-74 | 2,338 | 2,089 | 2,969 | 2,536 | 3,185 |
| 1974-75 | 2,518 | 2,065 | 3,160 | 2,623 | 3,257 |
| 1975-76 | 2,842 | 2,363 | 3,640 | 3,302 | 3,882 |
| 1976-77 | 3,438 | 2,971 | 4,244 | 3,786 | 4,632 |
| 1977-78 | 4,078 | 3,393 | 5,020 | 4,544 | 5,422 |
| 1978-79 | 4,431 | 3,319 | 5,592 | 5,416 | 5,769 |
| 1979-80 | 5,056 | 3,647 | 6,912 | 6,810 | 6,977 |
| 1980-81 | 5,784 | 4,077 | 8,106 | 7,648 | 8,411 |

SOURCE: Data compiled by Health Resources Administration, Bureau of Health Professions, Division of Health Professions Analysis, based on data from the American Dental Association, Council on Dental Education. Annual Report on Dental Education, 1980-81, and prior annual reports.

TABLE E-1
NUMBER OF SCHOOLS OF OPTOMETRY, STUDENTS, AND GRADUATES:
ACADEMIC YEARS 1960-61 THROUGH 1979-80

| Academic year | Number of schools | Number of students | | Number of graduates |
|---------------|-------------------|--------------------|------------|---------------------|
| | | Total | First year | |
| 1960-61 | 10 | 1,101 | 407 | 316 |
| 1961-62 | 10 | 1,180 | 437 | 299 |
| 1962-63 | 10 | 1,263 | 491 | 359 |
| 1963-64 | 10 | 1,364 | 516 | 346 |
| 1964-65 | 10 | 1,547 | 593 | 377 |
| 1965-66 | 10 | 1,745 | 643 | 413 |
| 1966-67 | 10 | 1,882 | 669 | 481 |
| 1967-68 | 10 | 1,962 | 649 | 477 |
| 1968-69 | 10 | 2,203 | 771 | 441 |
| 1969-70 | 11 | 2,486 | 786 | 445 |
| 1970-71 | 11 | 2,831 | 884 | 528 |
| 1971-72 | 12 | 3,094 | 906 | 683 |
| 1972-73 | 12 | 3,328 | 984 | 691 |
| 1973-74 | 12 | 3,529 | 988 | 684 |
| 1974-75 | 12 | 3,704 | 1,024 | 806 |
| 1975-76 | 12 | 3,888 | 1,027 | 902 |
| 1976-77 | 12 | 4,033 | 1,111 | 923 |
| 1977-78 | 12 | 4,209 | 1,140 | 978 |
| 1978-79 | 13 | 4,436 | 1,180 | 1,056 |
| 1979-80 | 14 | 4,524 | 1,209 | -- 1/ |

1/ Data are not yet available.

SOURCE: Data compiled by Health Resources Administration, Bureau of Health Professions, Division of Health Professions Analysis, based on data from the Association of Schools and Colleges of Optometry and the American Optometric Association.

TABLE E-2
 NUMBER OF STUDENTS AND GRADUATES OF
 OPTOMETRIC SCHOOLS OF OPTOMETRY, BY STATE:

| State | Total | Number of students 1979-80 | | Number of graduates 1978-79 |
|-------------|-------|-------------------------------|------------|-----------------------------------|
| | | Total | First year | |
| All States | 4,524 | 1,209 | 1,056 | |
| Alabama | 181 | 40 | 33 | |
| Arizona | 371 | 96 | 103 | |
| California | 295 | 71 | 67 | |
| Colorado | 598 | 159 | 144 | |
| Connecticut | 262 | 70 | 68 | |
| Florida | 362 | 96 | 87 | |
| Georgia | 310 | 32 | 20 | |
| Illinois | 249 | 68 | 39 | |
| Indiana | 233 | 60 | 55 | |
| Iowa | 24 | 24 | -- | |
| Kansas | 207 | 86 | 85 | |
| Kentucky | 586 | 152 | 128 | |
| Louisiana | 582 | 151 | 143 | |
| Michigan | 204 | 104 | 83 | |

Source: Prepared by Health Resources Administration, Bureau of Health Professions Analysis, based on data from the Association of Schools and Colleges of Optometry and the American Optometric Association.

TABLE E-3

MINORITY STUDENTS IN SCHOOLS OF OPTOMETRY: ACADEMIC YEARS 1971-72 THROUGH 1979-80

| Academic year | Total students | Racial/ethnic category | | | | | Total minority | Percent minority of total students |
|---------------|---------------------|------------------------|----------|----------|-----------------|-----|----------------|------------------------------------|
| | | Black | Hispanic | Oriental | American Indian | | | |
| 1971-72 | 3,094 | 32 | 30 | 117 | 2 | 181 | 5.9 | |
| 1972-73 | 3,328 | 38 | 43 | 134 | 5 | 220 | 6.6 | |
| 1973-74 | 3,529 | 53 | 47 | 157 | 10 | 267 | 7.6 | |
| 1974-75 | 3,704 | 73 | 45 | 153 | 8 | 279 | 7.5 | |
| 1975-76 | 3,888 | 83 | 55 | 166 | 5 | 309 | 7.9 | |
| 1976-77 | 4,033 | 89 | 46 | 157 | 6 | 298 | 7.4 | |
| 1977-78 | 4,209 | 79 | 55 | 153 | 7 | 294 | 7.0 | |
| 1978-79 | 4,436 | 62 | 66 | 166 | 11 | 305 | 6.9 | |
| 1979-80 | 4,500 ^{1/} | 56 | 67 | 208 | 13 | 344 | 7.6 | |

1. Excludes the 24 students who comprised the initial first year class in 1979-80 at Northwestern State University in Oklahoma, because racial/ethnic composition is not available.

2. Data compiled by Health Resources Administration, Bureau of Health Professions, Division of Health Professions Analysis, based on data from the Association of Schools and Colleges of Optometry and the American Optometric Association.

TABLE E-4
TOTAL STUDENTS IN SCHOOLS OF OPTOMETRY, BY SEX:
ACADEMIC YEARS 1970-71 THROUGH 1979-80

| Academic year | Total students | Male students | Female students | Percent female of total students |
|------------------|---------------------|------------------|--------------------|---|
| 1970-71 | 2,831 | 2,749 | 82 | 2.9 |
| 1971-72 | 3,094 | 2,982 | 112 | 3.6 |
| 1972-73 | 3,328 | 3,158 | 170 | 5.1 |
| 1973-74 | 3,529 | 3,268 | 261 | 7.3 |
| 1974-75 | 3,704 | 3,353 | 351 | 9.5 |
| 1975-76 | 3,888 | 3,432 | 456 | 11.7 |
| 1976-77 | 4,033 | 3,491 | 542 | 13.4 |
| 1977-78 | 4,209 | 3,562 | 647 | 15.4 |
| 1978-79 | 4,436 | 3,679 | 757 | 17.1 |
| 1979-80 | 4,500 ^{1/} | 3,632 | 868 | 19.3 |

1) Excludes the 24 students who comprised the initial first-year class in 1979-80 at Northwestern State University in Oklahoma, because male/female composition is not available.

NOTE: Data compiled by Health Resources Administration, Bureau of Health Professions, Division of Health Professions Analysis, based on data from the Association of Schools and Colleges of Optometry and the American Optometric Association.

TABLE F-1
NUMBER OF SCHOOLS OF PHARMACY, STUDENTS, AND GRADUATES
ACADEMIC YEARS 1960-61 THROUGH 1980-81

| Academic year | Number of schools | Number of students | | Number of graduates |
|---------------|-------------------|--------------------|------------|---------------------|
| | | Total | First year | |
| 1960-61 | 77 | 13,606 | 5,824 | 3,438 |
| 1961-62 | 77 | 10,827 | 2,137 | 3,699 |
| 1962-63 | 77 | 10,632 | 4,145 | 4,163 |
| 1963-64 | 76 | 10,291 | 4,390 | 2,195 |
| 1964-65 | 75 | 12,104 | 4,491 | 3,393 |
| 1965-66 | 74 | 12,495 | 4,647 | 3,704 |
| 1966-67 | 74 | 13,221 | 5,234 | 3,782 |
| 1967-68 | 74 | 14,274 | 5,616 | 4,035 |
| 1968-69 | 74 | 14,932 | 5,469 | 4,291 |
| 1969-70 | 74 | 15,323 | 5,532 | 4,758 |
| 1970-71 | 74 | 15,626 | 5,864 | 4,747 |
| 1971-72 | 74 | 16,808 | 6,532 | 4,788 |
| 1972-73 | 73 | 18,956 | 7,546 | 5,184 |
| 1973-74 | 73 | 21,289 | 8,342 | 5,957 |
| 1974-75 | 73 | 23,235 | 8,734 | 6,712 |
| 1975-76 | 73 | 24,416 | 8,710 | 7,757 |
| 1976-77 | 72 | 24,082 | 8,208 | 8,011 |
| 1977-78 | 72 | 23,884 | 8,461 | 7,785 |
| 1978-79 | 72 | 23,649 | 8,321 | 7,556 |
| 1979-80 | 72 | 23,074 | 8,035 | 7,278 ^{2/} |
| 1980-81 | 72 | 22,093 | 7,551 | -- ^{3/} |

^{1/} Total students includes those in the three years of professional pharmacy education, excluding any in pre-pharmacy years. First year students are in the first of those professional years or, stated another way, students in the third last year.

^{2/} Excludes the University of Southern California because it provided no data on its approximately 125 1979-80 graduates.

^{3/} Data are not yet available.

SOURCE: Data compiled by Health Resources Administration, Bureau of Health Professions, Division of Health Professions Analysis, based on data from the American Association of Colleges of Pharmacy.

TABLE F-2
 NUMBER OF SCHOOLS OF PHARMACY, STUDENTS,
 AND GRADUATES, BY STATE: 1979

| State | Number of Schools | Number of Students | | Number of Graduates 1979-80 |
|----------------------|-------------------------|--------------------|------------|--------------------------------------|
| | | Total | First Year | |
| Total | 72 | 22,093 | 7,851 | 7,278 |
| Alabama | 2 | 533 | 137 | 217 |
| Arizona | 1 | 162 | 57 | 51 |
| Arkansas | 1 | 202 | 75 | 61 |
| California | 3 | 1,272 | 436 | 269 |
| Colorado | 1 | 203 | 78 | 65 |
| Connecticut | 1 | 379 | 97 | 97 |
| District of Columbia | 1 | 77 | 26 | 50 |
| Florida | 2 | 514 | 201 | 167 |
| Georgia | 2 | 756 | 163 | 229 |
| Idaho | 1 | 173 | 57 | 75 |
| Illinois | 1 | 127 | 176 | 173 |
| Indiana | 2 | 715 | 237 | 228 |
| Iowa | 2 | 405 | 132 | 175 |
| Kansas | 1 | 207 | 93 | 73 |
| Kentucky | 1 | 251 | 91 | 89 |
| Louisiana | 2 | 563 | 130 | 182 |
| Maryland | 1 | 240 | 94 | 83 |
| Massachusetts | 2 | 1,038 | 347 | 391 |
| Michigan | 3 | 919 | 301 | 313 |
| Minnesota | 1 | 307 | 91 | 109 |
| Mississippi | 1 | 306 | 116 | 87 |
| Missouri | 2 | 669 | 224 | 196 |
| Montana | 1 | 122 | 43 | 39 |
| Nebraska | 2 | 385 | 138 | 132 |
| New Hampshire | 1 | 385 | 125 | 99 |
| New Jersey | 1 | 156 | 40 | 58 |
| New York | 4 | 2,012 | 733 | 674 |
| North Carolina | 1 | 443 | 162 | 137 |
| North Dakota | 1 | 224 | 77 | 93 |
| Ohio | 3 | 1,111 | 413 | 364 |
| Oklahoma | 2 | 575 | 116 | 231 |
| Oregon | 1 | 118 | 128 | 40 |
| Pennsylvania | 4 | 1,193 | 545 | 514 |
| Rhode Island | 1 | 143 | 75 | 117 |
| South Carolina | 1 | 282 | 111 | 129 |
| South Dakota | 1 | 111 | 41 | 54 |
| Tennessee | 1 | 287 | 95 | 94 |
| Texas | 2 | 1,079 | 435 | 379 |
| Utah | 1 | 170 | 58 | 74 |
| Vermont | 1 | 276 | 100 | 87 |
| Washington | 2 | 403 | 126 | 145 |
| West Virginia | 1 | 205 | 68 | 64 |
| Wisconsin | 1 | 450 | 134 | 156 |
| Wyoming | 1 | 111 | 30 | 45 |
| Unaffiliated | 1 | 465 | 109 | 147 |

1. Total students includes those in the three years of professional pharmacy education, excluding any in pre-pharmacy years. First year students are those in the first year of those professional years or, stated another way, students in the third last year.

2. Excludes the University of Southern California because it provided no data on its approximately 100 1979-80 graduates.

3. Source: Data compiled by Health Resources Administration, Bureau of Health Professions, Division of Health Professions Analysis, based on data from the American Association of Colleges of Pharmacy.

TABLE F-3
MINORITY STUDENTS IN SCHOOLS OF PHARMACY: ACADEMIC YEARS 1971-72 THROUGH 1980-81

| Academic year | Total students ^{2/} | Racial/ethnic category | | | | | Total minority | Percent minority of total students |
|---------------|------------------------------|------------------------|----------|----------|-----------------|-------------------|----------------|------------------------------------|
| | | Black | Hispanic | Oriental | American Indian | Other minority | | |
| 1971-72 | 16,322 | 618 | 203 | * | 8 | 816 ^{3/} | 1,645 | 10.1 |
| 1972-73 | 17,909 | 659 | 254 | 672 | 29 | 73 | 1,687 | 9.4 |
| 1973-74 | 20,376 | 619 | 343 | 651 | 25 | 46 | 1,684 | 8.3 |
| 1974-75 | 22,662 | 727 | 278 | 646 | 32 | 44 | 1,727 | 7.6 |
| 1975-76 | 23,836 | 915 | 359 | 685 | 36 | 95 | 2,090 | 8.8 |
| 1976-77 | 23,465 | 938 | 353 | 725 | 37 | 36 | 2,089 | 8.9 |
| 1977-78 | 23,273 | 984 | 360 | 761 | 39 | 48 | 2,192 | 9.4 |
| 1978-79 | 23,078 | 942 | 376 | 840 | 34 | 71 | 2,263 | 9.8 |
| 1979-80 | 22,560 | 953 | 410 | 971 | 36 | 65 | 2,440 | 10.8 |
| 1980-81 | 21,628 | ^{4/} 945 | 469 | 1,035 | 36 | 41 | 2,526 | 11.7 |

* Data not available.

^{1/} Excludes students at the University of Puerto Rico for all years.

^{2/} Total students includes those in the three years of professional pharmacy education, including any in pre-pharmacy years.

^{3/} Includes mainly Oriental students.

^{4/} Data compiled by Health Resources Administration, Bureau of Health Professions, Division of Health Professions Analysis, based on data from the American Association of Colleges of Pharmacy.

TABLE F-4
TOTAL STUDENTS IN SCHOOLS OF PHARMACY, BY SEX:
ACADEMIC YEARS 1970-71 THROUGH 1980-81

| Academic year | Total students ^{1/} | Male students | Female students | Percent female of total students |
|------------------|---------------------------------|------------------|--------------------|---|
| 1970-71 | 15,626 | 12,256 | 3,370 | 21.6 |
| 1971-72 | 16,808 | 12,621 | 4,187 | 24.9 |
| 1972-73 | 18,956 | 13,936 | 5,020 | 26.5 |
| 1973-74 | 21,289 | 15,260 | 6,029 | 28.3 |
| 1974-75 | 23,235 | 16,176 | 7,059 | 30.4 |
| 1975-76 | 24,416 | 16,303 | 8,113 | 33.2 |
| 1976-77 | 24,082 | 15,226 | 8,856 | 36.8 |
| 1977-78 | 23,884 | 14,538 | 9,346 | 39.1 |
| 1978-79 | 23,649 | 13,747 | 9,902 | 41.9 |
| 1979-80 | 23,074 | 13,028 | 10,046 | 43.5 |
| 1980-81 | 22,093 | 11,839 | 10,254 | 46.4 |

^{1/} Total students includes those in the three years of professional pharmacy education, excluding any in pre-pharmacy years.

SOURCE: Data compiled by Health Resources Administration, Bureau of Health Professions, Division of Health Professions Analysis, based on data from the American Association of Colleges of Pharmacy.

TABLE G-1
NUMBER OF SCHOOLS OF PODIATRY, STUDENTS, AND GRADUATES:
ACADEMIC YEARS 1960-61 THROUGH 1979-80

| Academic year | Number of schools | Number of students | | Number of graduates |
|---------------|-------------------|--------------------|------------|---------------------|
| | | Total | First year | |
| 1960-61 | 5 | 478 | 127 | 116 |
| 1961-62 | 5 | 471 | 142 | 96 |
| 1962-63 | 4 | 499 | 156 | 113 |
| 1963-64 | 5 | 563 | 209 | 96 |
| 1964-65 | 5 | 622 | 177 | 122 |
| 1965-66 | 5 | 707 | 223 | 135 |
| 1966-67 | 5 | 838 | 283 | 165 |
| 1967-68 | 5 | 926 | 291 | 162 |
| 1968-69 | 5 | 1,061 | 331 | 204 |
| 1969-70 | 5 | 1,111 | 293 | 251 |
| 1970-71 | 5 | 1,147 | 351 | 241 |
| 1971-72 | 5 | 1,268 | 400 | 286 |
| 1972-73 | 5 | 1,401 | 473 | 258 |
| 1973-74 | 5 | 1,623 | 551 | 305 |
| 1974-75 | 5 | 1,868 | 561 | 350 |
| 1975-76 | 5 | 2,085 | 641 | 497 |
| 1976-77 | 5 | 2,295 | 667 | 479 |
| 1977-78 | 5 | 2,388 | 673 | 543 |
| 1978-79 | 5 | 2,498 | 678 | 572 |
| 1979-80 | 5 | 2,531 | 718 | -- 1/ |

1/ Data are not yet available.

SOURCE: Data compiled by Health Resources Administration, Bureau of Health Professions, Division of Health Professions Analysis, based on data from the American Association of Colleges of Podiatric Medicine.

TABLE G-2
NUMBER OF STUDENTS AND GRADUATES OF INDIVIDUAL SCHOOLS
OF PODIATRY, BY STATE: 1979

| State and school | Number of students 1979-80 | | Number of graduates 1978-79 |
|--|-------------------------------|------------|-----------------------------------|
| | Total | First year | |
| Total | 2,531 | 718 | 572 |
| CALIFORNIA | | | |
| California College of Podiatric Medicine | 397 | 131 | 94 |
| ILLINOIS | | | |
| Illinois College of Podiatric Medicine | 642 | 178 | 142 |
| NEW YORK | | | |
| New York College of Podiatric Medicine | 453 | 125 | 101 |
| OHIO | | | |
| Ohio College of Podiatric Medicine | 583 | 155 | 122 |
| PENNSYLVANIA | | | |
| Pennsylvania College of Podiatric Medicine | 456 | 129 | 113 |

SOURCE: Data compiled by Health Resources Administration, Bureau of Health Professions, Division of Health Professions Analysis, based on data from the American Association of Colleges of Podiatric Medicine.

TABLE G-3
MINORITY STUDENTS IN SCHOOLS OF PODIATRY: ACADEMIC YEARS 1971-72 THROUGH 1980-81

| Academic year | Total students | Racial/ethnic category | | | | Total minority | Percent minority of total students |
|---------------|----------------|------------------------|----------|----------|-----------------|-------------------|------------------------------------|
| | | Black | Hispanic | Oriental | American Indian | | |
| 1971-72 | 1,268 | 27 | 5 | 7 | 1 | 40 | 3.2 |
| 1972-73 | 1,401 | 23 | 10 | 10 | 2 | 45 | 3.2 |
| 1973-74 | 1,623 | 31 | 9 | 20 | 2 | 62 | 3.8 |
| 1974-75 | 1,868 | * | * | * | * | 96 | 5.1 |
| 1975-76 | 2,085 | 58 | 18 | 46 | 3 | 125 | 6.0 |
| 1976-77 | 2,295 | 73 | 14 | 43 | 5 | 135 | 5.9 |
| 1977-78 | 2,388 | 78 | 21 | 45 | 2 | 146 | 6.1 |
| 1978-79 | 2,498 | 77 | 27 | 51 | 8 | 163 | 6.5 |
| 1979-80 | 2,531 | 93 | 28 | 63 | 5 | 189 | 7.5 |
| 1980-81 | 2,577 | 110 | 39 | 70 | 6 | 231 ^{1/} | 9.0 |

* Data not available.

^{1/} Includes six students reported by one school only as "other minority".

SOURCE: Data compiled by Health Resources Administration, Bureau of Health Professions, Division of Health Professions Analysis, based on data from the American Association of Colleges of Podiatric Medicine.

TABLE G-4
TOTAL STUDENTS IN SCHOOLS OF PODIATRY, BY SEX:
ACADEMIC YEARS 1970-71 THROUGH 1980-81

| Academic year | Total students | Male students | Female students | Percent female of total students |
|------------------|-------------------|------------------|--------------------|---|
| 1970-71 | 1,147 | 1,131 | 16 | 1.4 |
| 1971-72 | 1,268 | 1,253 | 15 | 1.2 |
| 1972-73 | 1,401 | 1,381 | 20 | 1.4 |
| 1973-74 | 1,623 | 1,583 | 40 | 2.5 |
| 1974-75 | 1,868 | 1,809 | 59 | 3.2 |
| 1975-76 | 2,085 | 1,985 | 100 | 4.8 |
| 1976-77 | 2,295 | 2,138 | 157 | 6.8 |
| 1977-78 | 2,388 | 2,129 | 259 | 10.8 |
| 1978-79 | 2,498 | 2,230 | 268 | 10.7 |
| 1979-80 | 2,531 | 2,226 | 305 | 12.1 |
| 1980-81 | 2,577 | 2,271 | 306 | 11.9 |

SOURCE: Data compiled by Health Resources Administration, Bureau of Health Professions, Division of Health Professions Analysis, based on data from the American Association of Colleges of Podiatric Medicine.

TABLE H-1
NUMBER OF SCHOOLS OF VETERINARY MEDICINE, STUDENTS,
AND GRADUATES: ACADEMIC YEARS 1960-61 THROUGH 1980-81

| Academic year | Number of schools | Number of students | | Number of graduates |
|---------------|-------------------|--------------------|------------|---------------------|
| | | Total | First year | |
| 1960-61 | 18 | 3,497 | 983 | 824 |
| 1961-62 | 18 | 3,528 | 1,001 | 819 |
| 1962-63 | 18 | 3,632 | 1,044 | 830 |
| 1963-64 | 18 | 3,727 | 1,059 | 834 |
| 1964-65 | 18 | 3,864 | 1,139 | 815 |
| 1965-66 | 18 | 4,119 | 1,242 | 910 |
| 1966-67 | 18 | 4,388 | 1,305 | 963 |
| 1967-68 | 18 | 4,623 | 1,315 | 1,064 |
| 1968-69 | 18 | 4,779 | 1,311 | 1,129 |
| 1969-70 | 18 | 4,876 | 1,339 | 1,165 |
| 1970-71 | 18 | 5,006 | 1,430 | 1,239 |
| 1971-72 | 18 | 5,149 | 1,453 | 1,258 |
| 1972-73 | 18 | 5,439 | 1,580 | 1,280 |
| 1973-74 | 19 | 5,763 | 1,594 | 1,388 |
| 1974-75 | 19 | 6,005 | 1,669 | 1,408 |
| 1975-76 | 19 | 6,274 | 1,712 | 1,523 |
| 1976-77 | 21 | 6,571 | 1,856 | 1,591 |
| 1977-78 | 22 | 6,918 | 1,973 | 1,640 |
| 1978-79 | 22 | 7,334 | 2,089 | 1,704 |
| 1979-80 | 23 | 7,803 | 2,247 | 1,845 |
| 1980-81 | 25 | 8,156 | 2,239 | -- 1/ |

1/ Data not yet available.

SOURCE: Data compiled by Health Resources Administration, Bureau of Health Professions, Division of Health Professions Analysis, based on data from the Association of American Veterinary Medical Colleges.

TABLE B-2
NUMBER OF STUDENTS AND GRADUATES OF INDIVIDUAL SCHOOLS
OF VETERINARY MEDICINE, BY STATE: 1980

| State | Number of students | | Number of graduates |
|---|--------------------|---------|---------------------|
| | 1979-80 | 1980-81 | |
| Total | 6,156 | 7,179 | 1,444 |
| ALABAMA | | | |
| Auburn University | 451 | 415 | 15 |
| Tuskegee Institute | 116 | 60 | 5 |
| CALIFORNIA | | | |
| University of California at Davis | 481 | 428 | 42 |
| COLORADO | | | |
| Colorado State University | 244 | 19 | 101 |
| FLORIDA | | | |
| University of Florida | 318 | 30 | 49 |
| ILLINOIS | | | |
| University of Illinois | 356 | 91 | 75 |
| INDIANA | | | |
| Indiana University | 288 | 71 | 7 |
| IOWA | | | |
| Iowa State University | 413 | 321 | 122 |
| KANSAS | | | |
| Kansas State University | 408 | 103 | 101 |
| LOUISIANA | | | |
| Louisiana State University | 216 | 80 | 78 |
| MASSACHUSETTS | | | |
| Tufts University | 91 | 50 | -- |
| MICHIGAN | | | |
| Michigan State University | 458 | 420 | 112 |
| MINNESOTA | | | |
| University of Minnesota | 317 | 80 | 79 |
| MISSISSIPPI | | | |
| Mississippi State University | 137 | 32 | -- |
| MISSOURI | | | |
| University of Missouri | 290 | 76 | 7 |
| NEW YORK | | | |
| Cornell University | 474 | 60 | 72 |
| OHIO | | | |
| Ohio State University | 54 | 136 | 111 |
| OKLAHOMA | | | |
| Oklahoma State University | 265 | 70 | 64 |
| OREGON | | | |
| Oregon State University | 36 | 35 | -- |
| PENNSYLVANIA | | | |
| University of Pennsylvania | 425 | 409 | 94 |
| TENNESSEE | | | |
| University of Tennessee | 11 | 60 | 57 |
| Texas | | | |
| Texas Agricultural and Mechanical University | 53 | 144 | 17 |
| VIRGINIA | | | |
| Virginia Polytechnic Institute and State College of Veterinary Medicine | 64 | 64 | -- |
| WASHINGTON | | | |
| Washington State University | 277 | 106 | 74 |

NOTE: Data compiled by Health Resources Administration, Bureau of Health Professions, Division of Health Professions Analysis, based on data from the Association of American Veterinary Medical Colleges.

Table 1
 Enrollment in Veterinary Medicine Programs, 1990-1999

| Year | Enrollment | Enrollment | Enrollment |
|-------|------------|--------------|--------------|
| | (Number) | (Percentage) | (Percentage) |
| 1990 | 1,811 | 36.2 | 36.2 |
| 1991 | 1,811 | 36.2 | 36.2 |
| 1992 | 1,811 | 36.2 | 36.2 |
| 1993 | 1,811 | 36.2 | 36.2 |
| 1994 | 1,811 | 36.2 | 36.2 |
| 1995 | 1,811 | 36.2 | 36.2 |
| 1996 | 1,811 | 36.2 | 36.2 |
| 1997 | 1,811 | 36.2 | 36.2 |
| 1998 | 1,811 | 36.2 | 36.2 |
| 1999 | 1,811 | 36.2 | 36.2 |
| Total | 18,110 | 36.2 | 36.2 |

Note: Enrollment in veterinary medicine did not provide a breakdown by gender. Total enrollment at 36.2%. These students were included in the total.

Source: American Veterinary Medical Association, Health Resources Administration, Division of Health Professions Analysis, based on data from the Association of American Veterinary Medical Schools.



TABLE 1
 NUMBER OF REGISTERED NURSE PROGRAMS AND STUDENTS ENROLLING IN REGISTERED NURSE PROGRAMS
 1955-56 THROUGH 1980-81

| Year | Type of institution | | | Total |
|--------------------|---------------------|------------------|------------------|-------|
| | College | Associate degree | Associate degree | |
| Number of programs | | | | |
| 1955-56 | 1 | 0 | 0 | 1 |
| 1956-57 | 1 | 0 | 0 | 1 |
| 1957-58 | 1 | 0 | 0 | 1 |
| 1958-59 | 1 | 0 | 0 | 1 |
| 1959-60 | 1 | 0 | 0 | 1 |
| 1960-61 | 1 | 0 | 0 | 1 |
| 1961-62 | 1 | 0 | 0 | 1 |
| 1962-63 | 1 | 0 | 0 | 1 |
| 1963-64 | 1 | 0 | 0 | 1 |
| 1964-65 | 1 | 0 | 0 | 1 |
| 1965-66 | 1 | 0 | 0 | 1 |
| 1966-67 | 1 | 0 | 0 | 1 |
| 1967-68 | 1 | 0 | 0 | 1 |
| 1968-69 | 1 | 0 | 0 | 1 |
| 1969-70 | 1 | 0 | 0 | 1 |
| 1970-71 | 1 | 0 | 0 | 1 |
| 1971-72 | 1 | 0 | 0 | 1 |
| 1972-73 | 1 | 0 | 0 | 1 |
| 1973-74 | 1 | 0 | 0 | 1 |
| 1974-75 | 1 | 0 | 0 | 1 |
| 1975-76 | 1 | 0 | 0 | 1 |
| 1976-77 | 1 | 0 | 0 | 1 |
| 1977-78 | 1 | 0 | 0 | 1 |
| 1978-79 | 1 | 0 | 0 | 1 |
| 1979-80 | 1 | 0 | 0 | 1 |
| 1980-81 | 1 | 0 | 0 | 1 |
| 1981-82 | 1 | 0 | 0 | 1 |
| 1982-83 | 1 | 0 | 0 | 1 |
| 1983-84 | 1 | 0 | 0 | 1 |
| 1984-85 | 1 | 0 | 0 | 1 |
| 1985-86 | 1 | 0 | 0 | 1 |
| 1986-87 | 1 | 0 | 0 | 1 |
| 1987-88 | 1 | 0 | 0 | 1 |
| 1988-89 | 1 | 0 | 0 | 1 |
| 1989-90 | 1 | 0 | 0 | 1 |
| 1990-91 | 1 | 0 | 0 | 1 |
| 1991-92 | 1 | 0 | 0 | 1 |
| 1992-93 | 1 | 0 | 0 | 1 |
| 1993-94 | 1 | 0 | 0 | 1 |
| 1994-95 | 1 | 0 | 0 | 1 |
| 1995-96 | 1 | 0 | 0 | 1 |
| 1996-97 | 1 | 0 | 0 | 1 |
| 1997-98 | 1 | 0 | 0 | 1 |
| 1998-99 | 1 | 0 | 0 | 1 |
| 1999-00 | 1 | 0 | 0 | 1 |
| 2000-01 | 1 | 0 | 0 | 1 |
| 2001-02 | 1 | 0 | 0 | 1 |
| 2002-03 | 1 | 0 | 0 | 1 |
| 2003-04 | 1 | 0 | 0 | 1 |
| 2004-05 | 1 | 0 | 0 | 1 |
| 2005-06 | 1 | 0 | 0 | 1 |
| 2006-07 | 1 | 0 | 0 | 1 |
| 2007-08 | 1 | 0 | 0 | 1 |
| 2008-09 | 1 | 0 | 0 | 1 |
| 2009-10 | 1 | 0 | 0 | 1 |
| 2010-11 | 1 | 0 | 0 | 1 |
| 2011-12 | 1 | 0 | 0 | 1 |
| 2012-13 | 1 | 0 | 0 | 1 |
| 2013-14 | 1 | 0 | 0 | 1 |
| 2014-15 | 1 | 0 | 0 | 1 |
| 2015-16 | 1 | 0 | 0 | 1 |
| 2016-17 | 1 | 0 | 0 | 1 |
| 2017-18 | 1 | 0 | 0 | 1 |
| 2018-19 | 1 | 0 | 0 | 1 |
| 2019-20 | 1 | 0 | 0 | 1 |
| 2020-21 | 1 | 0 | 0 | 1 |
| 2021-22 | 1 | 0 | 0 | 1 |
| 2022-23 | 1 | 0 | 0 | 1 |
| 2023-24 | 1 | 0 | 0 | 1 |
| 2024-25 | 1 | 0 | 0 | 1 |
| 2025-26 | 1 | 0 | 0 | 1 |
| 2026-27 | 1 | 0 | 0 | 1 |
| 2027-28 | 1 | 0 | 0 | 1 |
| 2028-29 | 1 | 0 | 0 | 1 |
| 2029-30 | 1 | 0 | 0 | 1 |
| 2030-31 | 1 | 0 | 0 | 1 |
| 2031-32 | 1 | 0 | 0 | 1 |
| 2032-33 | 1 | 0 | 0 | 1 |
| 2033-34 | 1 | 0 | 0 | 1 |
| 2034-35 | 1 | 0 | 0 | 1 |
| 2035-36 | 1 | 0 | 0 | 1 |
| 2036-37 | 1 | 0 | 0 | 1 |
| 2037-38 | 1 | 0 | 0 | 1 |
| 2038-39 | 1 | 0 | 0 | 1 |
| 2039-40 | 1 | 0 | 0 | 1 |
| 2040-41 | 1 | 0 | 0 | 1 |
| 2041-42 | 1 | 0 | 0 | 1 |
| 2042-43 | 1 | 0 | 0 | 1 |
| 2043-44 | 1 | 0 | 0 | 1 |
| 2044-45 | 1 | 0 | 0 | 1 |
| 2045-46 | 1 | 0 | 0 | 1 |
| 2046-47 | 1 | 0 | 0 | 1 |
| 2047-48 | 1 | 0 | 0 | 1 |
| 2048-49 | 1 | 0 | 0 | 1 |
| 2049-50 | 1 | 0 | 0 | 1 |
| 2050-51 | 1 | 0 | 0 | 1 |
| 2051-52 | 1 | 0 | 0 | 1 |
| 2052-53 | 1 | 0 | 0 | 1 |
| 2053-54 | 1 | 0 | 0 | 1 |
| 2054-55 | 1 | 0 | 0 | 1 |
| 2055-56 | 1 | 0 | 0 | 1 |
| 2056-57 | 1 | 0 | 0 | 1 |
| 2057-58 | 1 | 0 | 0 | 1 |
| 2058-59 | 1 | 0 | 0 | 1 |
| 2059-60 | 1 | 0 | 0 | 1 |
| 2060-61 | 1 | 0 | 0 | 1 |
| 2061-62 | 1 | 0 | 0 | 1 |
| 2062-63 | 1 | 0 | 0 | 1 |
| 2063-64 | 1 | 0 | 0 | 1 |
| 2064-65 | 1 | 0 | 0 | 1 |
| 2065-66 | 1 | 0 | 0 | 1 |
| 2066-67 | 1 | 0 | 0 | 1 |
| 2067-68 | 1 | 0 | 0 | 1 |
| 2068-69 | 1 | 0 | 0 | 1 |
| 2069-70 | 1 | 0 | 0 | 1 |
| 2070-71 | 1 | 0 | 0 | 1 |
| 2071-72 | 1 | 0 | 0 | 1 |
| 2072-73 | 1 | 0 | 0 | 1 |
| 2073-74 | 1 | 0 | 0 | 1 |
| 2074-75 | 1 | 0 | 0 | 1 |
| 2075-76 | 1 | 0 | 0 | 1 |
| 2076-77 | 1 | 0 | 0 | 1 |
| 2077-78 | 1 | 0 | 0 | 1 |
| 2078-79 | 1 | 0 | 0 | 1 |
| 2079-80 | 1 | 0 | 0 | 1 |
| 2080-81 | 1 | 0 | 0 | 1 |
| 2081-82 | 1 | 0 | 0 | 1 |
| 2082-83 | 1 | 0 | 0 | 1 |
| 2083-84 | 1 | 0 | 0 | 1 |
| 2084-85 | 1 | 0 | 0 | 1 |
| 2085-86 | 1 | 0 | 0 | 1 |
| 2086-87 | 1 | 0 | 0 | 1 |
| 2087-88 | 1 | 0 | 0 | 1 |
| 2088-89 | 1 | 0 | 0 | 1 |
| 2089-90 | 1 | 0 | 0 | 1 |
| 2090-91 | 1 | 0 | 0 | 1 |
| 2091-92 | 1 | 0 | 0 | 1 |
| 2092-93 | 1 | 0 | 0 | 1 |
| 2093-94 | 1 | 0 | 0 | 1 |
| 2094-95 | 1 | 0 | 0 | 1 |
| 2095-96 | 1 | 0 | 0 | 1 |
| 2096-97 | 1 | 0 | 0 | 1 |
| 2097-98 | 1 | 0 | 0 | 1 |
| 2098-99 | 1 | 0 | 0 | 1 |
| 2099-00 | 1 | 0 | 0 | 1 |
| 2100-01 | 1 | 0 | 0 | 1 |
| 2101-02 | 1 | 0 | 0 | 1 |
| 2102-03 | 1 | 0 | 0 | 1 |
| 2103-04 | 1 | 0 | 0 | 1 |
| 2104-05 | 1 | 0 | 0 | 1 |
| 2105-06 | 1 | 0 | 0 | 1 |
| 2106-07 | 1 | 0 | 0 | 1 |
| 2107-08 | 1 | 0 | 0 | 1 |
| 2108-09 | 1 | 0 | 0 | 1 |
| 2109-10 | 1 | 0 | 0 | 1 |
| 2110-11 | 1 | 0 | 0 | 1 |
| 2111-12 | 1 | 0 | 0 | 1 |
| 2112-13 | 1 | 0 | 0 | 1 |
| 2113-14 | 1 | 0 | 0 | 1 |
| 2114-15 | 1 | 0 | 0 | 1 |
| 2115-16 | 1 | 0 | 0 | 1 |
| 2116-17 | 1 | 0 | 0 | 1 |
| 2117-18 | 1 | 0 | 0 | 1 |
| 2118-19 | 1 | 0 | 0 | 1 |
| 2119-20 | 1 | 0 | 0 | 1 |
| 2120-21 | 1 | 0 | 0 | 1 |
| 2121-22 | 1 | 0 | 0 | 1 |
| 2122-23 | 1 | 0 | 0 | 1 |
| 2123-24 | 1 | 0 | 0 | 1 |
| 2124-25 | 1 | 0 | 0 | 1 |
| 2125-26 | 1 | 0 | 0 | 1 |
| 2126-27 | 1 | 0 | 0 | 1 |
| 2127-28 | 1 | 0 | 0 | 1 |
| 2128-29 | 1 | 0 | 0 | 1 |
| 2129-30 | 1 | 0 | 0 | 1 |
| 2130-31 | 1 | 0 | 0 | 1 |
| 2131-32 | 1 | 0 | 0 | 1 |
| 2132-33 | 1 | 0 | 0 | 1 |
| 2133-34 | 1 | 0 | 0 | 1 |
| 2134-35 | 1 | 0 | 0 | 1 |
| 2135-36 | 1 | 0 | 0 | 1 |
| 2136-37 | 1 | 0 | 0 | 1 |
| 2137-38 | 1 | 0 | 0 | 1 |
| 2138-39 | 1 | 0 | 0 | 1 |
| 2139-40 | 1 | 0 | 0 | 1 |
| 2140-41 | 1 | 0 | 0 | 1 |
| 2141-42 | 1 | 0 | 0 | 1 |
| 2142-43 | 1 | 0 | 0 | 1 |
| 2143-44 | 1 | 0 | 0 | 1 |
| 2144-45 | 1 | 0 | 0 | 1 |
| 2145-46 | 1 | 0 | 0 | 1 |
| 2146-47 | 1 | 0 | 0 | 1 |
| 2147-48 | 1 | 0 | 0 | 1 |
| 2148-49 | 1 | 0 | 0 | 1 |
| 2149-50 | 1 | 0 | 0 | 1 |
| 2150-51 | 1 | 0 | 0 | 1 |
| 2151-52 | 1 | 0 | 0 | 1 |
| 2152-53 | 1 | 0 | 0 | 1 |
| 2153-54 | 1 | 0 | 0 | 1 |
| 2154-55 | 1 | 0 | 0 | 1 |
| 2155-56 | 1 | 0 | 0 | 1 |
| 2156-57 | 1 | 0 | 0 | 1 |
| 2157-58 | 1 | 0 | 0 | 1 |
| 2158-59 | 1 | 0 | 0 | 1 |
| 2159-60 | 1 | 0 | 0 | 1 |
| 2160-61 | 1 | 0 | 0 | 1 |
| 2161-62 | 1 | 0 | 0 | 1 |
| 2162-63 | 1 | 0 | 0 | 1 |
| 2163-64 | 1 | 0 | 0 | 1 |
| 2164-65 | 1 | 0 | 0 | 1 |
| 2165-66 | 1 | 0 | 0 | 1 |
| 2166-67 | 1 | 0 | 0 | 1 |
| 2167-68 | 1 | 0 | 0 | 1 |
| 2168-69 | 1 | 0 | 0 | 1 |
| 2169-70 | 1 | 0 | 0 | 1 |
| 2170-71 | 1 | 0 | 0 | 1 |
| 2171-72 | 1 | 0 | 0 | 1 |
| 2172-73 | 1 | 0 | 0 | 1 |
| 2173-74 | 1 | 0 | 0 | 1 |
| 2174-75 | 1 | 0 | 0 | 1 |
| 2175-76 | 1 | 0 | 0 | 1 |
| 2176-77 | 1 | 0 | 0 | 1 |
| 2177-78 | 1 | 0 | 0 | 1 |
| 2178-79 | 1 | 0 | 0 | 1 |
| 2179-80 | 1 | 0 | 0 | 1 |
| 2180-81 | 1 | 0 | 0 | 1 |
| 2181-82 | 1 | 0 | 0 | 1 |
| 2182-83 | 1 | 0 | 0 | 1 |
| 2183-84 | 1 | 0 | 0 | 1 |
| 2184-85 | 1 | 0 | 0 | 1 |
| 2185-86 | 1 | 0 | 0 | 1 |
| 2186-87 | 1 | 0 | 0 | 1 |
| 2187-88 | 1 | 0 | 0 | 1 |
| 2188-89 | 1 | 0 | 0 | 1 |
| 2189-90 | 1 | 0 | 0 | 1 |
| 2190-91 | 1 | 0 | 0 | 1 |
| 2191-92 | 1 | 0 | 0 | 1 |
| 2192-93 | 1 | 0 | 0 | 1 |
| 2193-94 | 1 | 0 | 0 | 1 |
| 2194-95 | 1 | 0 | 0 | 1 |
| 2195-96 | 1 | 0 | 0 | 1 |
| 2196-97 | 1 | 0 | 0 | 1 |
| 2197-98 | 1 | 0 | 0 | 1 |
| 2198-99 | 1 | 0 | 0 | 1 |
| 2199-00 | 1 | 0 | 0 | 1 |
| 2200-01 | 1 | 0 | 0 | 1 |
| 2201-02 | 1 | 0 | 0 | 1 |
| 2202-03 | 1 | 0 | 0 | 1 |
| 2203-04 | 1 | 0 | 0 | 1 |
| 2204-05 | 1 | 0 | 0 | 1 |
| 2205-06 | 1 | 0 | 0 | 1 |
| 2206-07 | 1 | 0 | 0 | 1 |
| 2207-08 | 1 | 0 | 0 | 1 |
| 2208-09 | 1 | 0 | 0 | 1 |
| 2209-10 | 1 | 0 | 0 | 1 |
| 2210-11 | 1 | 0 | 0 | 1 |
| 2211-12 | 1 | 0 | 0 | 1 |
| 2212-13 | 1 | 0 | 0 | 1 |
| 2213-14 | 1 | 0 | 0 | 1 |
| 2214-15 | 1 | 0 | 0 | 1 |
| 2215-16 | 1 | 0 | 0 | 1 |
| 2216-17 | 1 | 0 | 0 | 1 |
| 2217-18 | 1 | 0 | 0 | 1 |
| 2218-19 | 1 | 0 | 0 | 1 |
| 2219-20 | 1 | 0 | 0 | 1 |
| 2220-21 | 1 | 0 | 0 | 1 |
| 2221-22 | 1 | 0 | 0 | 1 |
| 2222-23 | 1 | 0 | 0 | 1 |
| 2223-24 | 1 | 0 | 0 | 1 |
| 2224-25 | 1 | 0 | 0 | 1 |
| 2225-26 | 1 | 0 | 0 | 1 |
| 2226-27 | 1 | 0 | 0 | 1 |
| 2227-28 | 1 | 0 | 0 | 1 |
| 2228-29 | 1 | 0 | 0 | 1 |
| 2229-30 | 1 | 0 | 0 | 1 |
| 2230-31 | 1 | 0 | 0 | 1 |
| 2231-32 | 1 | 0 | 0 | 1 |
| 2232-33 | 1 | 0 | 0 | 1 |
| 2233-34 | 1 | 0 | 0 | 1 |
| 2234-35 | 1 | 0 | 0 | 1 |
| 2235-36 | 1 | 0 | 0 | 1 |
| 2236-37 | 1 | 0 | 0 | 1 |
| 2237-38 | 1 | 0 | 0 | 1 |
| 2238-39 | 1 | 0 | 0 | 1 |
| 2239-40 | 1 | 0 | 0 | 1 |
| 2240-41 | 1 | 0 | 0 | 1 |
| 2241-42 | 1 | 0 | 0 | 1 |
| 2242-43 | 1 | 0 | 0 | 1 |
| 2243-44 | 1 | 0 | 0 | 1 |
| 2244-45 | 1 | 0 | 0 | 1 |
| 2245-46 | 1 | 0 | 0 | 1 |
| 2246-47 | 1 | 0 | 0 | 1 |
| 2247-48 | 1 | 0 | 0 | 1 |
| 2248-49 | 1 | 0 | 0 | 1 |
| 2249-50 | 1 | 0 | 0 | 1 |
| 2250-51 | 1 | 0 | 0 | 1 |
| 2251-52 | 1 | 0 | | |

TABLE 1

Number of students in health professions programs, by state, 1979-80

| State | Number of programs | Number of students | | Total | Percentage of total | Percentage of total | Percentage of total |
|----------------------|--------------------|--------------------|------------|---------|---------------------|---------------------|---------------------|
| | | Total | First-year | | | | |
| | | 1979-80 | 1979-80 | 1979-80 | 1979-80 | 1979-80 | 1979-80 |
| Alabama | 34 | 1,220 | 1,191 | 1,191 | 100 | 100 | 100 |
| Alaska | 1 | 333 | 17 | 17 | 5 | 5 | 5 |
| Arizona | 16 | 2,042 | 1,085 | 1,085 | 53 | 53 | 53 |
| Arkansas | 11 | 2,162 | 1,143 | 1,143 | 53 | 53 | 53 |
| California | 37 | 15,656 | 8,116 | 8,116 | 52 | 52 | 52 |
| Colorado | 10 | 1,063 | 371 | 371 | 35 | 35 | 35 |
| Connecticut | 4 | 3,446 | 1,311 | 1,311 | 38 | 38 | 38 |
| Delaware | 1 | 1,320 | 479 | 479 | 36 | 36 | 36 |
| District of Columbia | 7 | 2,037 | 706 | 706 | 35 | 35 | 35 |
| Florida | 14 | 8,143 | 3,811 | 3,811 | 47 | 47 | 47 |
| Georgia | 15 | 1,797 | 1,035 | 1,035 | 58 | 58 | 58 |
| Hawaii | 1 | 401 | 243 | 243 | 61 | 61 | 61 |
| Idaho | 6 | 623 | 325 | 325 | 52 | 52 | 52 |
| Illinois | 30 | 12,392 | 5,705 | 5,705 | 46 | 46 | 46 |
| Indiana | 30 | 11,964 | 5,536 | 5,536 | 46 | 46 | 46 |
| Iowa | 16 | 5,145 | 2,687 | 2,687 | 52 | 52 | 52 |
| Kansas | 12 | 2,314 | 1,163 | 1,163 | 50 | 50 | 50 |
| Kentucky | 10 | 3,227 | 1,716 | 1,716 | 53 | 53 | 53 |
| Louisiana | 6 | 4,165 | 2,100 | 2,100 | 50 | 50 | 50 |
| Maine | 9 | 1,318 | 718 | 718 | 54 | 54 | 54 |
| Maryland | 22 | 3,521 | 1,781 | 1,781 | 51 | 51 | 51 |
| Massachusetts | 11 | 3,956 | 2,479 | 2,479 | 63 | 63 | 63 |
| Michigan | 45 | 8,554 | 3,949 | 3,949 | 46 | 46 | 46 |
| Minnesota | 25 | 4,462 | 2,215 | 2,215 | 50 | 50 | 50 |
| Mississippi | 13 | 1,631 | 1,433 | 1,433 | 88 | 88 | 88 |
| Missouri | 37 | 5,470 | 2,460 | 2,460 | 45 | 45 | 45 |
| Montana | 4 | 667 | 327 | 327 | 49 | 49 | 49 |
| Nebraska | 11 | 2,079 | 901 | 901 | 43 | 43 | 43 |
| Nevada | 1 | 419 | 211 | 211 | 50 | 50 | 50 |
| New Hampshire | 7 | 1,350 | 591 | 591 | 44 | 44 | 44 |
| New Jersey | 4 | 2,306 | 1,312 | 1,312 | 57 | 57 | 57 |
| New Mexico | 11 | 970 | 468 | 468 | 48 | 48 | 48 |
| New York | 98 | 26,361 | 11,674 | 11,674 | 44 | 44 | 44 |
| North Carolina | 40 | 5,640 | 3,184 | 3,184 | 56 | 56 | 56 |
| North Dakota | 4 | 1,703 | 519 | 519 | 30 | 30 | 30 |
| Ohio | 17 | 10,407 | 5,476 | 5,476 | 52 | 52 | 52 |
| Oklahoma | 22 | 2,319 | 1,237 | 1,237 | 53 | 53 | 53 |
| Oregon | 16 | 1,680 | 1,000 | 1,000 | 59 | 59 | 59 |
| Pennsylvania | 47 | 11,898 | 6,171 | 6,171 | 52 | 52 | 52 |
| Rhode Island | 7 | 1,091 | 739 | 739 | 68 | 68 | 68 |
| South Carolina | 14 | 2,216 | 1,113 | 1,113 | 50 | 50 | 50 |
| South Dakota | 6 | 1,468 | 573 | 573 | 39 | 39 | 39 |
| Tennessee | 13 | 5,754 | 2,557 | 2,557 | 44 | 44 | 44 |
| Texas | 16 | 16,527 | 8,531 | 8,531 | 52 | 52 | 52 |
| Utah | 5 | 860 | 454 | 454 | 53 | 53 | 53 |
| Vermont | 4 | 613 | 265 | 265 | 43 | 43 | 43 |
| Virginia | 11 | 5,292 | 2,481 | 2,481 | 47 | 47 | 47 |
| Washington | 11 | 3,552 | 1,701 | 1,701 | 48 | 48 | 48 |
| West Virginia | 7 | 2,282 | 1,184 | 1,184 | 52 | 52 | 52 |
| Wisconsin | 14 | 6,612 | 2,660 | 2,660 | 40 | 40 | 40 |
| Wyoming | 1 | 187 | 127 | 127 | 68 | 68 | 68 |
| Total | 1 | 41 | 11 | 11 | 27 | 27 | 27 |
| Total | 16 | 1,319 | 1,132 | 1,132 | 86 | 86 | 86 |
| Total | 1 | 1 | 1 | 1 | 100 | 100 | 100 |

Source: Data as of October 15, 1980.

Note: All students are often referred to as "admissions."

Figures in parentheses are for the period August 1, 1979 through July 31, 1980.

Data compiled by Health Resources Administration, Bureau of Health Professions, Division of Health Manpower Analysis, based on data from National League for Nursing.

TABLE J-1
NUMBER OF SCHOOLS OF PUBLIC HEALTH, TOTAL STUDENTS, AND GRADUATES:
ACADEMIC YEARS 1975-76 THROUGH 1979-80

| Academic year | Number of schools | Total students | Number of graduates | | | |
|---------------|-------------------|----------------|---------------------|------------------|------------|---------------|
| | | | Total | Master's degrees | Doctorates | Other degrees |
| 1975-76 | 19 | 6,461 | 2,945 | 2,539 | 232 | 174 |
| 1976-77 | 19 | 6,615 | 2,775 | 2,483 | 207 | 85 |
| 1977-78 | 20 | 6,841 | 2,819 | 2,511 | 237 | 71 |
| 1978-79 | 21 | 7,722 | 2,917 | 2,559 | 289 | 79 |
| 1979-80 | 21 | 8,215 | * | * | * | * |

* Data not available.

SOURCE: Data compiled by Health Resources Administration, Bureau of Health Professions, Division of Health Professions Analysis, based on data from the Association of Schools of Public Health.

TABLE J-2
NUMBER AND PERCENT DISTRIBUTION OF GRADUATES FROM SCHOOLS OF PUBLIC HEALTH,
BY AREA OF SPECIALIZATION: ACADEMIC YEARS 1975-76 AND 1978-79

| Area of specialization | 1975-76 | | 1978-79 | |
|-------------------------------------|---------|----------------------|---------|----------------------|
| | Number | Percent distribution | Number | Percent distribution |
| Total | 2,945 | 100.0 | 2,917 | 100.0 |
| Health administration ^{1/} | 941 | 32.0 | 760 | 26.0 |
| Environmental health | 378 | 12.8 | 446 | 15.3 |
| Epidemiology | 267 | 9.1 | 355 | 12.2 |
| Public health education | 228 | 7.7 | 177 | 6.0 |
| Biostatistics | 141 | 4.8 | 136 | 4.6 |
| Maternal and child health | 148 | 5.0 | 134 | 4.6 |
| Nutrition | 145 | 4.9 | 164 | 5.6 |
| Population studies | 139 | 4.7 | 139 | 4.8 |
| Biomedical laboratory sciences | 74 | 2.5 | 89 | 3.1 |
| Public health nursing | 155 | 5.3 | 66 | 2.3 |
| Behavioral and social sciences | 39 | 1.3 | 65 | 2.2 |
| International health | 38 | 1.3 | 67 | 2.3 |
| Mental health | 49 | 1.7 | 46 | 1.6 |
| Dental public health | 19 | 0.6 | 18 | 0.6 |
| Occupational health | 43 | 1.5 | 22 | 0.8 |
| Other | 141 | 4.8 | 233 | 8.0 |

^{1/} Includes hospital administration, health planning, and health policy analysis.

SOURCE: Health Resources Administration, Bureau of Health Professions, Division of Health Professions Analysis, based on data from the Association of Schools of Public Health.

Table J-3
GRADUATES OF SCHOOLS OF PUBLIC HEALTH, BY TYPE OF DEGREE AND SEX,
ACADEMIC YEAR 1978-79

| Type of degree | All graduates | | Male graduates | Female graduates | Percent female of all graduates |
|-----------------------|---------------|----------------------|----------------|------------------|---------------------------------|
| | Number | Percent distribution | | | |
| All degrees | 2,917 | 100.0 | 1,431 | 1,486 | 49 |
| Master's degrees | 2,583 | 88.5 | 1,237 | 1,346 | 52 |
| M.P.H. | 1,842 | 63.2 | 839 | 1,003 | 54.5 |
| M.S.P.H. | 158 | 5.4 | 108 | 50 | 31.6 |
| M.S. | 322 | 11.0 | 145 | 177 | 58.0 |
| Other master's | 261 | 8.9 | 145 | 116 | 44.4 |
| Doctorates | 265 | 9.1 | 168 | 97 | 36.6 |
| Dr.P.H. | 84 | 2.9 | 47 | 37 | 44.0 |
| Ph.D. | 125 | 4.3 | 86 | 39 | 31.2 |
| Other doctorates | 56 | 1.9 | 35 | 21 | 37.5 |
| Baccalaureate degrees | 69 | 2.4 | 26 | 43 | 62.3 |

SOURCE: Data compiled by Health Resources Administration, Bureau of Health Professions, Division of Health Professions Analysis, based on data from the Association of Schools of Public Health.

TABLE J-4
MINORITY STUDENTS IN SCHOOLS OF PUBLIC HEALTH: ACADEMIC YEARS 1975-76 THROUGH 1979-80

| Academic year | Total students identified by race ^{1/} | Racial/ethnic category | | | | | Total minority | Percent minority of total students identified by race |
|---------------|---|------------------------|----------|----------|-----------------|-------|----------------|---|
| | | Black | Hispanic | Oriental | American Indian | | | |
| 1975-76 | 5,806 | 434 | 372 | 414 | 62 | 1,282 | 22.1 | |
| 1976-77 | 6,033 | 476 | 260 | 520 | 70 | 1,326 | 22.0 | |
| 1977-78 | 6,301 | 423 | 311 | 490 | 74 | 1,298 | 20.6 | |
| 1978-79 | 6,397 | 535 | 220 | 593 | 75 | 1,423 | 22.6 | |
| 1979-80 | 7,276 | 562 | 245 | 732 | 68 | 1,607 | 22.1 | |

^{1/} Counts of students not identified by race in the listed years are: 1975-76, 655 students; 1976-77, 582; 1977-78, 540; 1978-79, 825; and 1979-80, 939.

SOURCE: Data compiled by Health Resources Administration, Bureau of Health Professions, Division of Health Professions Analysis, based on data from the Association of Schools of Public Health.

TABLE 3A
 Counts in School of Public Health, by
 Academic Year: 1975-76 Through 1979-80

| Academic year | Total students identified by sex | Male students | Female students | Percent female of total students identified |
|---------------|----------------------------------|---------------|-----------------|---|
| 1975-76 | 6,201 | 4,700 | 1,501 | 24.2 |
| 1976-77 | 6,130 | 4,607 | 1,523 | 24.8 |
| 1977-78 | 6,427 | 4,823 | 1,604 | 25.0 |
| 1978-79 | 7,077 | 5,161 | 1,916 | 27.1 |
| 1979-80 | 7,346 | 5,197 | 2,149 | 29.1 |

1/ Counts of students not identified by sex in the listed year are: 1975-76, 441 students; 1976-77, 419; 1977-78, 419; 1978-79, 651; and 1979-80, 801.

SOURCE: Data compiled by Health Resources Administration, Bureau of Health Professions, Division of Health Professions Analysis, based on data from the Association of Schools of Public Health.

TABLE 3B
 Multiple Enrollment in Health Professions Schools, by Academic Year, Sex, and Degree Level

| Academic Year | Sex | Undergraduate | | Graduate | | Total | Grade Level | Percent | Total | Grade Level | Percent |
|---------------|--------|---------------|---------|----------|---------|-------|-------------|---------|-------|-------------|---------|
| | | 1975-76 | 1976-77 | 1975-76 | 1976-77 | | | | | | |
| 1975-76 | Male | 1,200 | 1,200 | 1,200 | 1,200 | 2,400 | 1975-76 | 100 | 2,400 | 1975-76 | 100 |
| 1975-76 | Female | 1,200 | 1,200 | 1,200 | 1,200 | 2,400 | 1975-76 | 100 | 2,400 | 1975-76 | 100 |
| 1976-77 | Male | 1,200 | 1,200 | 1,200 | 1,200 | 2,400 | 1976-77 | 100 | 2,400 | 1976-77 | 100 |
| 1976-77 | Female | 1,200 | 1,200 | 1,200 | 1,200 | 2,400 | 1976-77 | 100 | 2,400 | 1976-77 | 100 |
| 1977-78 | Male | 1,200 | 1,200 | 1,200 | 1,200 | 2,400 | 1977-78 | 100 | 2,400 | 1977-78 | 100 |
| 1977-78 | Female | 1,200 | 1,200 | 1,200 | 1,200 | 2,400 | 1977-78 | 100 | 2,400 | 1977-78 | 100 |
| 1978-79 | Male | 1,200 | 1,200 | 1,200 | 1,200 | 2,400 | 1978-79 | 100 | 2,400 | 1978-79 | 100 |
| 1978-79 | Female | 1,200 | 1,200 | 1,200 | 1,200 | 2,400 | 1978-79 | 100 | 2,400 | 1978-79 | 100 |
| 1979-80 | Male | 1,200 | 1,200 | 1,200 | 1,200 | 2,400 | 1979-80 | 100 | 2,400 | 1979-80 | 100 |
| 1979-80 | Female | 1,200 | 1,200 | 1,200 | 1,200 | 2,400 | 1979-80 | 100 | 2,400 | 1979-80 | 100 |

Source: ERIC.

1/ Counts of students not identified by sex in the listed year.

2/ Percent of students not identified by sex.

3/ Percent of students not identified by sex in the listed year. The percent of students not identified by sex in the listed year is calculated by dividing the number of students not identified by sex by the total number of students in the listed year.

TABLE K-2

NUMBER OF DENTAL HYGIENIST TRAINING PROGRAMS, STUDENTS,
AND GRADUATES: SELECTED ACADEMIC YEARS 1950-51 THROUGH 1980-81

| Academic year | Number of programs | Number of students | | Number of graduates |
|------------------|--------------------------|--------------------|------------|---------------------------|
| | | Total | First year | |
| 1950-51 | 26 | 1,454 | 862 | 632 |
| 1955-56 | 33 | 2,009 | 1,100 | 932 |
| 1960-61 | 37 | 2,497 | 1,440 | 1,023 |
| 1961-62 | 43 | 2,752 | 1,506 | 1,219 |
| 1962-63 | 47 | 3,005 | 1,697 | 1,257 |
| 1963-64 | 49 | 3,278 | 1,791 | 1,429 |
| 1964-65 | 53 | 3,502 | 1,923 | 1,492 |
| 1965-66 | 56 | 3,363 | 2,070 | 1,650 |
| 1966-67 | 55 | 4,041 | 2,134 | 1,739 |
| 1967-68 | 67 | 4,309 | 2,385 | 1,854 |
| 1968-69 | 85 | 5,187 | 2,870 | 2,231 |
| 1969-70 | 100 | 5,931 | 3,299 | 2,465 |
| 1970-71 | 121 | 6,854 | 3,852 | 2,926 |
| 1971-72 | 133 | 7,935 | 4,564 | 3,516 |
| 1972-73 | 148 | 9,018 | 4,815 | 4,137 |
| 1973-74 | 157 | 9,400 | 4,995 | 4,310 |
| 1974-75 | 160 | 9,774 | 5,118 | 4,568 |
| 1975-76 | 173 | 10,084 | 5,335 | 4,616 |
| 1976-77 | 179 | 10,654 | 5,598 | 4,847 |
| 1977-78 | 186 | 10,815 | 5,592 | 5,026 |
| 1978-79 | 196 | 11,055 | 5,706 | 5,149 |
| 1979-80 | 204 | 10,932 | 5,667 | 5,184 |
| 1980-81 | 208 | 10,867 | 5,596 | -- 1/ |

1/ Data are not available at this time.

SOURCE: American Dental Association, Council on Dental Education. Dental Students' Register for each selected academic year from 1950-51 through 1966-67. Annual Report on Dental Auxiliary Education for all subsequent academic years.

TABLE K-3
NUMBER OF DENTAL HYGIENIST TRAINING PROGRAM
STUDENTS, AND GRADUATES, BY STATE: 1980

| State | Number of programs | Number of students as of October 15, 1980 | | Number of graduates 1979-80 |
|----------------------|--------------------|---|------------|-----------------------------|
| | | Total | First year | |
| | Total | 208 | 10,767 | 5,596 |
| Alabama | 1 | 19 | 12 | 3 |
| Alaska | 1 | 17 | 8 | 1 |
| Arizona | 2 | 82 | 43 | 42 |
| Arkansas | 1 | 60 | 30 | 39 |
| California | 13 | 619 | 317 | 247 |
| Colorado | 3 | 99 | 50 | 47 |
| Connecticut | 2 | 195 | 96 | 65 |
| Delaware | 1 | 26 | 13 | 13 |
| District of Columbia | 1 | 31 | 18 | 11 |
| Florida | 8 | 468 | 237 | 161 |
| Georgia | 8 | 325 | 172 | 161 |
| Hawaii | 1 | 41 | 21 | 20 |
| Idaho | 1 | 56 | 29 | 29 |
| Illinois | 8 | 547 | 290 | 237 |
| Indiana | 5 | 207 | 105 | 66 |
| Iowa | 3 | 142 | 73 | 70 |
| Kansas | 2 | 103 | 54 | 47 |
| Kentucky | 5 | 155 | 71 | 66 |
| Louisiana | 5 | 193 | 100 | 77 |
| Maine | 1 | 150 | 75 | 50 |
| Maryland | 3 | 188 | 97 | 91 |
| Massachusetts | 6 | 425 | 221 | 199 |
| Michigan | 12 | 694 | 342 | 335 |
| Minnesota | 4 | 320 | 138 | 222 |
| Mississippi | 3 | 95 | 48 | 37 |
| Missouri | 3 | 158 | 79 | 76 |
| Montana | 1 | 31 | 19 | 23 |
| Nebraska | 2 | 65 | 32 | 30 |
| Nevada | 1 | 27 | 14 | 13 |
| New Hampshire | 1 | 48 | 27 | 15 |
| New Jersey | 6 | 329 | 191 | 145 |
| New Mexico | 1 | 48 | 30 | 20 |
| New York | 11 | 783 | 409 | 367 |
| North Carolina | 7 | 370 | 214 | 162 |
| North Dakota | 1 | 63 | 32 | 32 |
| Ohio | 13 | 590 | 310 | 270 |
| Oklahoma | 2 | 70 | 36 | 35 |
| Oregon | 5 | 186 | 95 | 86 |
| Pennsylvania | 9 | 516 | 271 | 239 |
| Rhode Island | 1 | 37 | 19 | 21 |
| South Carolina | 4 | 135 | 71 | 59 |
| South Dakota | 1 | 58 | 31 | 27 |
| Tennessee | 4 | 237 | 120 | 119 |
| Texas | 11 | 705 | 368 | 354 |
| Utah | 1 | 39 | 20 | 17 |
| Vermont | 1 | 61 | 34 | 25 |
| Virginia | 5 | 185 | 95 | 73 |
| Washington | 6 | 277 | 140 | 133 |
| West Virginia | 3 | 229 | 98 | 77 |
| Wisconsin | 4 | 315 | 159 | 151 |
| Wyoming | 1 | 41 | 21 | 19 |
| Puerto Rico | 1 | 7 | 4 | 5 |

SOURCE: American Dental Association, Council on Dental Education, Annual Report on Dental Auxiliary Education, 1980-81.

Table K-4
 NUMBER OF DENTAL ASSISTANT TRAINING PROGRAMS, STUDENTS,
 AND GRADUATES: ACADEMIC YEARS 1965-66 THROUGH 1980-81

| Academic year | Number of programs | Number of students | | Number of graduates |
|---------------|--------------------|--------------------|------------|---------------------|
| | | Total | First year | |
| 1965-66 | 64 | 2,798 | 2,210 | 1,593 |
| 1966-67 | 81 | 3,159 | 2,518 | 1,963 |
| 1967-68 | 101 | 3,819 | 3,118 | 2,302 |
| 1968-69 | 134 | 4,475 | 3,625 | 2,715 |
| 1969-70 | 154 | 5,074 | 4,206 | 2,955 |
| 1970-71 | 165 | 5,812 | 4,841 | 3,922 |
| 1971-72 | 182 | 7,491 | 6,361 | 4,814 |
| 1972-73 | 201 | 7,985 | 6,671 | 5,297 |
| 1973-74 | 220 | 8,595 | 7,272 | 5,684 |
| 1974-75 | 237 | 9,024 | 7,858 | 5,972 |
| 1975-76 | 250 | 9,306 | 8,119 | 6,208 |
| 1976-77 | 262 | 9,515 | 8,325 | 6,502 |
| 1977-78 | 273 | 9,429 | 8,234 | 6,644 |
| 1978-79 | 298 | 9,168 | 8,156 | 6,043 |
| 1979-80 | 294 | 9,315 | 8,386 | 5,958 |
| 1980-81 | 289 | 9,052 | 8,272 | -- 1/ |

1/ Data are not available at this time.

SOURCE: American Dental Association, Council on Dental Education. Dental Students' Register for the academic years 1965-66 and 1966-67. Annual Report on Dental Auxiliary Education for all subsequent academic years.

TABLE K-5
 NUMBER OF DENTAL ASSISTANT TRAINING PROGRAMS,
 STUDENTS, AND GRADUATES, BY STATE, 1980

| State | Number of programs | Number of students of October 5, 1980 | | Number of graduates 1979-80 |
|----------------------|--------------------|---------------------------------------|------------|-----------------------------|
| | | Total | First year | |
| | Total | 290 | 9,260 | 5,398 |
| Alabama | 6 | 115 | 125 | 79 |
| Alaska | 1 | 15 | 15 | 12 |
| Arizona | 2 | 53 | 53 | 33 |
| Arkansas | 3 | 41 | 41 | 33 |
| California | 58 | 1,247 | 1,247 | 899 |
| Colorado | 5 | 113 | 91 | 7 |
| Connecticut | 5 | 47 | 50 | 4 |
| Delaware | 1 | 13 | 13 | |
| District of Columbia | 1 | 44 | 25 | 4 |
| Florida | 14 | 111 | 335 | |
| Georgia | 1 | 63 | 62 | 37 |
| Hawaii | 1 | 13 | 13 | 10 |
| Idaho | 1 | 41 | 41 | 28 |
| Illinois | 15 | 415 | 312 | 277 |
| Indiana | 1 | 14 | 14 | 10 |
| Iowa | 6 | 71 | 21 | 14 |
| Kansas | 1 | 41 | 46 | 36 |
| Kentucky | 5 | 181 | 132 | 11 |
| Louisiana | 1 | 13 | 13 | 11 |
| Maine | 1 | 10 | 10 | 3 |
| Maryland | 7 | 147 | 123 | 81 |
| Massachusetts | 15 | 325 | 306 | 251 |
| Michigan | 14 | 534 | 411 | 218 |
| Minnesota | 16 | 525 | 551 | 477 |
| Mississippi | 1 | 35 | 35 | 26 |
| Missouri | 19 | 136 | 196 | 145 |
| Montana | 1 | 27 | 27 | 19 |
| Nebraska | 5 | 114 | 124 | 88 |
| Nevada | 1 | 8 | 8 | 5 |
| New Hampshire | 1 | 14 | 14 | 12 |
| New Jersey | 6 | 172 | 172 | 97 |
| New Mexico | 1 | 9 | 9 | 15 |
| New York | 6 | 231 | 193 | 161 |
| North Carolina | 11 | 441 | 441 | 229 |
| North Dakota | 1 | 18 | 18 | 16 |
| Ohio | 2 | 57 | 57 | 31 |
| Oregon | 6 | 163 | 168 | 110 |
| Pennsylvania | 11 | 331 | 275 | 267 |
| Rhode Island | 1 | 25 | 25 | 20 |
| South Carolina | 6 | 146 | 125 | 94 |
| South Dakota | 1 | 25 | 25 | 24 |
| Tennessee | 5 | 101 | 101 | 111 |
| Texas | 12 | 961 | 918 | 646 |
| Utah | 1 | 58 | 58 | 42 |
| Vermont | 2 | 42 | 20 | 23 |
| Virginia | 5 | 121 | 121 | 91 |
| Washington | 9 | 259 | 259 | 195 |
| Wisconsin | 4 | 24 | 24 | 175 |
| Wyoming | 1 | 6 | 6 | 5 |
| Puerto Rico | 1 | 26 | 26 | 23 |

SOURCE: American Dental Association, Council on Dental Education, Annual Report on Dental Auxiliary Education, 1980-81.

TABLE K-6

NUMBER OF DENTAL LABORATORY TECHNICIAN TRAINING PROGRAMS,
STUDENTS, AND GRADUATES: ACADEMIC YEARS 1965-66 THROUGH 1980-81

| Academic year | Number of programs | Number of students | | Number of graduates |
|------------------|--------------------------|--------------------|------------|---------------------------|
| | | Total | First year | |
| 1965-66 | 6 | 342 | 194 | 142 |
| 1966-67 | 10 | 510 | 321 | 162 |
| 1967-68 | 15 | 729 | 437 | 325 |
| 1968-69 | 19 | 803 | 462 | 357 |
| 1969-70 | 23 | 965 | 596 | 395 |
| 1970-71 | 26 | 1,113 | 673 | 445 |
| 1971-72 | 31 | 1,478 | 923 | 546 |
| 1972-73 | 32 | 1,686 | 1,064 | 682 |
| 1973-74 | 34 | 1,933 | 1,184 | 839 |
| 1974-75 | 38 | 2,175 | 1,196 | 837 |
| 1975-76 | 40 | 2,234 | 1,345 | 991 |
| 1976-77 | 48 | 2,389 | 1,313 | 1,070 |
| 1977-78 | 49 | 2,481 | 1,410 | 1,150 |
| 1978-79 | 54 | 2,780 | 1,595 | 1,050 |
| 1979-80 | 56 | 2,665 | 1,596 | 1,068 |
| 1980-81 | 57 | 2,751 | 1,563 | -- 1/ |

1/ Data are not available at this time.

SOURCE: American Dental Association, Council on Dental Education. Dental Students' Register for the academic years 1965-66 and 1966-67. Annual Report on Dental Auxiliary Education for all subsequent academic years.

TABLE R-1
 NUMBER OF DENTAL LABORATORY TECHNICIAN TRAINING
 PROGRAMS, STUDENTS, AND GRADUATES, BY STATE: 1980

| State | Number of programs | Number of students as of October 15, 1980 | | Number of graduates 1979-80 |
|----------------|--------------------------|--|------------|-----------------------------------|
| | | Total | First year | |
| Total | 57 | 2,751 | 1,563 | 1,068 |
| Alabama | 1 | 24 | 13 | -- |
| Arizona | 1 | 31 | 16 | 17 |
| California | 7 | 364 | 202 | 152 |
| Florida | 5 | 201 | 117 | 74 |
| Georgia | 3 | 130 | 119 | 78 |
| Illinois | 3 | 190 | 107 | 54 |
| Indiana | 2 | 59 | 31 | 26 |
| Iowa | 1 | 43 | 25 | 11 |
| Kentucky | 1 | 41 | 22 | 12 |
| Louisiana | 1 | 25 | 13 | 16 |
| Maryland | 2 | 65 | 29 | 37 |
| Massachusetts | 2 | 41 | 26 | 22 |
| Michigan | 2 | 62 | 42 | 47 |
| Minnesota | 2 | 78 | 33 | 39 |
| Missouri | 1 | 30 | 17 | 9 |
| Nebraska | 1 | 21 | 10 | 6 |
| New Jersey | 1 | 50 | 27 | 19 |
| New York | 2 | 157 | 89 | 92 |
| North Dakota | 1 | 56 | 35 | 27 |
| Ohio | 1 | 64 | 38 | 12 |
| Oklahoma | 1 | 12 | 7 | -- |
| Oregon | 1 | 47 | 6 | 23 |
| Pennsylvania | 1 | 37 | 25 | 13 |
| South Carolina | 2 | 42 | 28 | 27 |
| South Dakota | 1 | 20 | 11 | 9 |
| Tennessee | 2 | 46 | 25 | 11 |
| Texas | 4 | 632 | 348 | 150 |
| Virginia | 2 | 49 | 30 | 22 |
| Washington | 2 | 70 | 37 | 35 |
| Wisconsin | 1 | 39 | 20 | 13 |

SOURCE: American Dental Association, Council on Dental Education.
Annual Report on Dental Auxiliary Education, 1980-81.

TABLE K-8
NUMBER OF MEDICAL RECORD ADMINISTRATOR
TRAINING PROGRAMS, STUDENTS, AND GRADUATES:
ACADEMIC YEARS 1965-66 THROUGH 1980-81

| Academic year | Number of programs | Number of students ^{1/} | Number of graduates ^{2/} |
|------------------|--------------------------|--|---|
| 1965-66 | 28 | 214 | 192 |
| 1966-67 | 28 | 211 | 192 |
| 1967-68 | 27 | 214 | 191 |
| 1968-69 | 26 | 241 | 212 |
| 1969-70 | 26 | 256 | 237 |
| 1970-71 | 28 | 236 | 221 |
| 1971-72 | 31 | 302 | 263 |
| 1972-73 | * | * | * |
| 1973-74 | 37 | 615 | 569 |
| 1974-75 | 39 | 642 | 587 |
| 1975-76 | 40 | 748 | 656 |
| 1976-77 | 41 | 724 | 643 |
| 1977-78 | 46 | 824 | 736 |
| 1978-79 | 48 | 871 | 785 |
| 1979-80 | 53 | 881 | 771 |
| 1980-81 | 53 | 926 | * |

* Data not available.

^{1/} Number of students in final year only.

^{2/} Includes all graduates, whether receiving certificates, bachelor's degrees, or master's degrees.

SOURCE: Health Resources Administration, Bureau of Health Professions, Division of Health Professions Analysis, based on data from the American Medical Record Association and the American Medical Association.

Table 1
 Number of REE/CAC Programs Administered by State
 and Number of Students Enrolled

| State or other jurisdiction | Number of programs | Number of students | Academic year |
|-----------------------------|--------------------|--------------------|---------------|
| Total | | | |
| Alabama | | | |
| Arkansas | | | |
| California | 1 | 1 | |
| Colorado | | | |
| Connecticut | | | |
| Florida | | | |
| Georgia | | | |
| Illinois | | 1 | |
| Indiana | | 1 | |
| Iowa | 1 | | |
| Kentucky | | | |
| Louisiana | | 1 | |
| Maryland | | 1 | |
| Massachusetts | | 1 | |
| Michigan | 1 | | |
| Minnesota | | 1 | 1 |
| Mississippi | | | 1 |
| Missouri | 1 | 1 | |
| Montana | 1 | | |
| Nebraska | | | 1 |
| New York | | | 1 |
| North Carolina | | 1 | 1 |
| Ohio | 1 | 1 | |
| Oklahoma | 1 | | 1 |
| Pennsylvania | | 1 | |
| South Carolina | | 1 | 1 |
| Tennessee | 1 | 1 | |
| Texas | 1 | | 1 |
| Virginia | | 1 | 1 |
| Washington | | | 1 |
| West Virginia | 1 | | 1 |
| Wisconsin | | 1 | 1 |
| Puerto Rico | 1 | | |

1/ Academic year 1980-81.

2/ Number of students in that year only.

3/ Academic year 1979-80.

SOURCE: Health Resources Administration, Bureau of Health Professions, Division of Health Professions Analysis, based on data from the American Medical Record Association.

TABLE K-10

NUMBER OF MEDICAL RECORD TECHNICIAN TRAINING PROGRAMS, STUDENTS, AND GRADUATES BY STATE, YEAR 1960-61 THROUGH 1970-71

| State | Number of Programs | Number of Students | Number of Graduates |
|----------------------|--------------------|--------------------|---------------------|
| Alabama | 1 | 10 | 10 |
| Alaska | 0 | 0 | 0 |
| Arizona | 0 | 0 | 0 |
| Arkansas | 0 | 0 | 0 |
| California | 1 | 100 | 100 |
| Colorado | 0 | 0 | 0 |
| Connecticut | 0 | 0 | 0 |
| Delaware | 0 | 0 | 0 |
| District of Columbia | 0 | 0 | 0 |
| Florida | 1 | 100 | 100 |
| Georgia | 0 | 0 | 0 |
| Idaho | 0 | 0 | 0 |
| Illinois | 1 | 100 | 100 |
| Indiana | 0 | 0 | 0 |
| Iowa | 0 | 0 | 0 |
| Kansas | 0 | 0 | 0 |
| Kentucky | 0 | 0 | 0 |
| Louisiana | 0 | 0 | 0 |
| Maine | 0 | 0 | 0 |
| Maryland | 0 | 0 | 0 |
| Massachusetts | 0 | 0 | 0 |
| Michigan | 1 | 100 | 100 |
| Minnesota | 0 | 0 | 0 |
| Mississippi | 0 | 0 | 0 |
| Missouri | 0 | 0 | 0 |
| Montana | 0 | 0 | 0 |
| Nebraska | 0 | 0 | 0 |
| Nevada | 0 | 0 | 0 |
| New Hampshire | 0 | 0 | 0 |
| New Jersey | 0 | 0 | 0 |
| New Mexico | 0 | 0 | 0 |
| New York | 1 | 100 | 100 |
| North Carolina | 0 | 0 | 0 |
| North Dakota | 0 | 0 | 0 |
| Ohio | 1 | 100 | 100 |
| Oklahoma | 0 | 0 | 0 |
| Oregon | 0 | 0 | 0 |
| Pennsylvania | 1 | 100 | 100 |
| Rhode Island | 0 | 0 | 0 |
| South Carolina | 0 | 0 | 0 |
| South Dakota | 0 | 0 | 0 |
| Tennessee | 0 | 0 | 0 |
| Texas | 1 | 100 | 100 |
| Utah | 0 | 0 | 0 |
| Vermont | 0 | 0 | 0 |
| Virginia | 0 | 0 | 0 |
| Washington | 0 | 0 | 0 |
| West Virginia | 0 | 0 | 0 |
| Wisconsin | 1 | 100 | 100 |
| Wyoming | 0 | 0 | 0 |



TABLE K-11
 NUMBER OF MEDICAL RECORD TECHNICIAN TRAINING PROGRAMS,
 STUDENTS, AND GRADUATES, BY STATE: 1980

| State or other jurisdiction | Number of programs | Number of students | Number of graduates |
|-----------------------------|--------------------|--------------------|---------------------|
| Total | 23 | 1,050 | 67 |
| Alabama | 1 | 13 | 1 |
| Arizona | 1 | 12 | 1 |
| California | 6 | 416 | 29 |
| Colorado | 1 | 1 | 0 |
| Florida | 1 | 1 | 0 |
| Illinois | 1 | 1 | 0 |
| Indiana | 1 | 11 | 0 |
| Iowa | 1 | 67 | 1 |
| Missouri | 1 | 1 | 0 |
| Montana | 1 | 1 | 0 |
| Nebraska | 1 | 1 | 0 |
| North Carolina | 1 | 1 | 0 |
| North Dakota | 1 | 1 | 0 |
| Ohio | 1 | 1 | 0 |
| Oklahoma | 1 | 1 | 0 |
| South Carolina | 1 | 1 | 0 |
| South Dakota | 1 | 1 | 0 |
| Texas | 1 | 1 | 0 |
| Virginia | 1 | 1 | 0 |
| Washington | 1 | 1 | 0 |
| West Virginia | 1 | 1 | 0 |
| Wisconsin | 1 | 1 | 0 |
| Wyoming | 1 | 1 | 0 |

Source: Bureau of Health Professions.

NOTE: Figures are rounded.

U.S. Department of Health Resources Administration, Bureau of Health Professions, Division of Health Professions Analysis, based on data from the American Medical Record Association.

TABLE K-12

NUMBER OF PRACTICAL NURSE TRAINING PROGRAMS, STUDENTS, AND GRADUATES:
ACADEMIC YEARS 1960-61 THROUGH 1980-81

| Academic year | Number of programs <u>1/</u> | Number of students <u>2,3/</u> | Number of graduates <u>3/</u> |
|---------------|------------------------------|--------------------------------|-------------------------------|
| 1960-61 | 661 | 24,955 | 16,636 |
| 1961-62 | 693 | 26,660 | 18,166 |
| 1962-63 | 739 | 30,585 | 19,621 |
| 1963-64 | 851 | 34,131 | 21,761 |
| 1964-65 | 913 | 36,489 | 24,231 |
| 1965-66 | 984 | 38,755 | 26,056 |
| 1966-67 | 1,081 | 41,269 | 27,644 |
| 1967-68 | 1,149 | 45,076 | 30,823 |
| 1968-69 | 1,191 | 49,107 | 34,364 |
| 1969-70 | 1,252 | 55,635 | 37,168 |
| 1970-71 | 1,253 | 60,057 | 38,550 |
| 1971-72 | 1,291 | 61,680 | 44,446 |
| 1972-73 | 1,310 | 60,475 | 46,456 |
| 1973-74 | 1,306 | 60,249 | 45,863 |
| 1974-75 | 1,315 | 61,557 | 46,080 |
| 1975-76 | 1,337 | 62,272 | 48,081 |
| 1976-77 | 1,339 | 60,975 | 47,297 |
| 1977-78 | 1,339 | 61,586 | 45,991 |
| 1978-79 | 1,329 | 57,953 | 45,066 |
| 1979-80 | 1,318 | 57,454 | 42,536 |
| 1980-81 | 1,319 | -- <u>4/</u> | -- <u>4/</u> |

1/ These counts are as of October 15.

2/ Students are often referred to as "admissions."

3/ Counts for 1960-61 through 1969-70 are for the period September 1 through August 31; for subsequent years, August 1 through July 31.

4/ Data are not yet available.

Source: Data compiled by Health Resources Administration, Bureau of Health Professions, Division of Health Professions Analysis, based on data from American Nurses' Association and National League for Nursing.

TABLE K-13
 NUMBER OF PRACTICAL NURSE TRAINING PROGRAMS, STUDENTS,
 AND GRADUATES, BY STATE, 1988

| State or other jurisdiction | Number of programs | Number of students | Number of graduates |
|-----------------------------|--------------------|--------------------|---------------------|
| Total | 1,109 | 97,584 | 42,536 |
| Alabama | 15 | 1,794 | 1,118 |
| Alaska | 1 | 74 | 57 |
| Arizona | 12 | 406 | 317 |
| Arkansas | 17 | 2,111 | 1,254 |
| California | 66 | 6,977 | 3,188 |
| Colorado | 17 | 834 | 483 |
| Connecticut | 10 | 374 | 244 |
| Delaware | 5 | 111 | 77 |
| District of Columbia | 1 | 133 | 77 |
| Florida | 27 | 2,545 | 1,215 |
| Georgia | 11 | 1,091 | 617 |
| Idaho | 3 | 144 | 100 |
| Illinois | 11 | 788 | 479 |
| Indiana | 46 | 2,788 | 1,317 |
| Iowa | 7 | 488 | 273 |
| Kans | 17 | 811 | 473 |
| Kansas | 16 | 534 | 321 |
| Kentucky | 16 | 679 | 347 |
| Louisiana | 17 | 1,781 | 937 |
| Maine | 1 | 111 | 77 |
| Maryland | 11 | 1,114 | 617 |
| Massachusetts | 10 | 1,141 | 617 |
| Michigan | 16 | 2,117 | 1,017 |
| Minnesota | 17 | 1,539 | 717 |
| Mississippi | 14 | 1,188 | 617 |
| Missouri | 11 | 1,168 | 617 |
| Montana | 1 | 141 | 77 |
| Nebraska | 1 | 481 | 267 |
| Nevada | 2 | 77 | 57 |
| New Hampshire | 4 | 111 | 77 |
| New Jersey | 16 | 1,719 | 917 |
| New Mexico | 10 | 163 | 117 |
| New York | 37 | 4,015 | 2,117 |
| North Carolina | 19 | 1,164 | 617 |
| North Dakota | 1 | 111 | 77 |
| Ohio | 44 | 2,675 | 1,317 |
| Oklahoma | 11 | 941 | 517 |
| Oregon | 11 | 799 | 467 |
| Pennsylvania | 61 | 3,762 | 1,864 |
| Rhode Island | 1 | 114 | 77 |
| South Carolina | 11 | 647 | 347 |
| South Dakota | 1 | 111 | 77 |
| Tennessee | 11 | 1,317 | 717 |
| Texas | 164 | 6,626 | 3,447 |
| Utah | 1 | 111 | 77 |
| Vermont | 1 | 160 | 117 |
| Virginia | 16 | 1,566 | 817 |
| Washington | 17 | 1,417 | 717 |
| West Virginia | 20 | 549 | 317 |
| Wisconsin | 14 | 1,156 | 617 |
| Wyoming | 1 | 111 | 77 |
| American Samoa | 1 | 20 | 17 |
| Guam | 1 | 14 | 11 |
| Puerto Rico | 14 | 1,114 | 617 |

1. These counts are as of January 15, 1988.

2. Students are often referred to as "trainees."

3. These counts are for the period August 1, 1978 through July 31, 1988.

Source: Data compiled by Health Resources Administration, Bureau of Health Professions, Division of Health Professions Analysis, based on data from National Commission for Nursing.

TABLE L-1
AVERAGE ANNUAL EXPENSES AND INCOME, AND CURRENT DEBT, OF STUDENTS IN SCHOOLS FOR SELECTED HEALTH OCCUPATIONS,
AND MEDIAN INCOME OF FAMILIES OF THESE STUDENTS, ACADEMIC YEARS 1970-71 AND 1976-77

| Health occupation | Median income of student's family | | Average annual expenses of students | | Average annual student income | | | | Average current student debt | |
|---------------------|-----------------------------------|----------|-------------------------------------|---------|-------------------------------|----------|-----------|----------|------------------------------|----------|
| | 1970-71 | 1976-77 | 1970-71 | 1976-77 | Scholarship | | Part-time | | 1970-71 | 1976-77 |
| | | | | | 1970-71 | 1976-77 | 1970-71 | 1976-77 | | |
| Medicine (M.D.) | \$19,700 | \$19,700 | \$9,531 | \$9,630 | * | * | * | * | * | \$10,153 |
| Podiatry (D.P.M.) | 18,000 | 18,900 | 6,719 | 11,071 | \$4,270 | \$ 9,510 | \$2,310 | \$ 4,200 | \$1,400 | 11,160 |
| Dentistry | 18,900 | 19,700 | 6,130 | 9,890 | 5,720 | 8,030 | 1,460 | 4,310 | 4,100 | 11,940 |
| Optometry | 19,300 | 19,300 | 5,250 | 8,960 | 4,290 | 7,540 | 1,570 | 3,280 | 1,100 | 10,270 |
| Pharmacy | 16,940 | 16,940 | 3,740 | 6,740 | 3,010 | 6,760 | 1,180 | 1,460 | 1,700 | 4,570 |
| Podiatry | 17,750 | 17,750 | 6,300 | 11,720 | 6,000 | 9,270 | 1,820 | 4,400 | 1,120 | 11,170 |
| Veterinary (D.V.M.) | 18,530 | 18,530 | 4,470 | 7,030 | 3,930 | 6,940 | 1,500 | 1,600 | 1,700 | 10,490 |
| Public Health | * | 17,330 | * | 10,470 | * | 13,300 | * | 1,500 | * | 14,450 |

* Median income of all U.S. families was \$10,173 in 1970 and \$14,960 in 1976.

Source: Health Resources Administration, Bureau of Health Professions, Division of Health Professions Analysis, Study of How Health Professions Students Finance Their Education: A Comparative Study of School Years 1970-71 and 1976-77, DHEW Publication (OS) 80-52, 1980, and Study of How Health Professions Students Finance Their Education, 1976-77, DHEW Publication (OS) 80-52, 1980.

TABLE L-2
PERCENT DISTRIBUTION OF STUDENTS IN SCHOOLS FOR SELECTED HEALTH OCCUPATIONS, BY INCOME LEVEL OF STUDENT'S FAMILY AND EDUCATION LEVEL OF STUDENT'S FATHER, COMPARED WITH INCOME DISTRIBUTION OF ALL U.S. FAMILIES AND EDUCATION LEVELS OF U.S. MALES 40 YEARS AND OVER: ACADEMIC YEAR 1976-77

| Health occupation | Median income of student's family | Percent distribution of students by education level of father | | | | | | | |
|----------------------------------|-----------------------------------|--|--------------------|-----------------|------------------|-------------------------|----------------------------------|--|--|
| | | Percent distribution of students by income level of student's family | | | | All levels of education | Less than high school graduation | High school graduation and/or some college | College graduation and/or graduate study |
| | | All incomes | Less than \$10,000 | \$10,000-19,999 | \$20,000 or more | | | | |
| Medicine (M.D.) | \$19,700 | 100 | 13 | 38 | 49 | 100 | 11 | 32 | 57 |
| Podiatry (D.P.M.) | 18,000 | 100 | 22 | 34 | 44 | 100 | 17 | 40 | 43 |
| Dentistry | 19,700 | 100 | 17 | 34 | 49 | 100 | 13 | 41 | 45 |
| Optometry | 19,300 | 100 | 14 | 39 | 47 | 100 | 14 | 47 | 39 |
| Pharmacy | 16,940 | 100 | 22 | 39 | 39 | 100 | 20 | 46 | 34 |
| Podiatry | 17,750 | 100 | 21 | 38 | 41 | 100 | 19 | 46 | 35 |
| Veterinary (D.V.M.) | 18,530 | 100 | 17 | 36 | 45 | 100 | 13 | 43 | 44 |
| Public Health | 17,330 | 100 | 26 | 32 | 42 | 100 | 21 | 38 | 41 |
| | | U.S. family income | | | | | | | |
| All U.S. families | \$14,960 | 100 | 30 | 39 | 31 | -- | -- | -- | -- |
| | | Education level of selected U.S. males | | | | | | | |
| All U.S. males 40 years and over | -- | -- | -- | -- | -- | 100 | 4 | 17 | 15 |

Source: Health Resources Administration, Bureau of Health Professions, Division of Health Professions Analysis, Study of How Health Professions Students Finance Their Education, 1976-1977, DHEW Publication No. (HRA) 80-52, 1980.

TABLE L-3

PERCENT DISTRIBUTION OF STUDENTS IN SCHOOLS FOR SELECTED HEALTH OCCUPATIONS, BY FATHER'S OCCUPATION, COMPARED WITH DISTRIBUTION OF OCCUPATION CATEGORIES AMONG U.S. MALES 16 YEARS AND OVER, 1960

Percent distribution of students by occupation of father

| Health occupation | Fathers in health occupations | | Fathers in occupations not in health field | | | | | | Total |
|---------------------------|-------------------------------|--|---|----------------------|---------------------------------|------------------------------------|---------------------------|-------------------|-------|
| | All fathers' occupations | Students studying same health occupation as father's | Students studying different health occupation than father's | Professional workers | Owner, proprietary, and manager | Clerical, office, and sales worker | Crafts and skilled worker | Unskilled laborer | |
| Medicine (M.D.) | 100 | 14 | 5 | 2 | 23 | 6 | 4 | 4 | 27 |
| Podiatry (D.P.) | 100 | 8 | 13 | 17 | 14 | 14 | 11 | | 77 |
| Dentistry | 100 | 5 | 7 | 13 | 9 | 17 | 1 | 3 | 58 |
| Optometry | 100 | 8 | 6 | 16 | 11 | 6 | 12 | 1 | 56 |
| Pharmacy | 100 | 6 | 4 | 15 | 14 | 4 | 4 | 1 | 56 |
| Podiatry | 100 | 5 | 7 | 13 | 11 | 11 | 14 | | 61 |
| Podiatry (D.P.) | 100 | 4 | 4 | 11 | 20 | 14 | 11 | 4 | 64 |
| Occupations of U.S. males | 100 | | | 14 | 14 | 17 | 11 | 1 | 58 |

1. Data not available for students in schools of public health, dentistry, and other occupations, students, and unemployed.

2. There are 3 percent of U.S. males 16 years and over in health occupations. This percent is placed between the columns to indicate it cannot be related to either column heading.

3. Health Resources Administration, Bureau of Health Professions, Division of Health Professions Analysis, Study of how Health Professions Students Finance Their Education, 1970-77, OHS Publication No. (HRA) 80-52, 1980.

TABLE L-4

AVERAGE ANNUAL EXPENSES OF STUDENTS IN SCHOOLS FOR SELECTED HEALTH OCCUPATIONS, BY TYPE OF SCHOOL, AND BY PUBLIC AND PRIVATE SCHOOLS: ACADEMIC YEAR 1970-77

Average annual expenses of students

| Health occupation | All schools | | | | Public schools | | | | Private schools | | | |
|-------------------|--------------|-----------------|-------------------|----------------|----------------|-----------------|-------------------|----------------|-----------------|-----------------|-------------------|----------------|
| | All expenses | School expenses | Board and lodging | Other expenses | All expenses | School expenses | Board and lodging | Other expenses | All expenses | School expenses | Board and lodging | Other expenses |
| Medicine (M.D.) | \$4,597 | \$3,190 | \$3,098 | \$2,190 | \$2,360 | \$1,113 | \$3,030 | \$1,200 | \$1,364 | \$4,191 | \$1,441 | \$1,190 |
| Podiatry (D.P.) | 3,275 | 2,032 | 2,030 | 2,000 | 2,440 | 1,270 | 2,090 | 2,070 | 2,065 | 2,065 | 2,015 | 2,660 |
| Dentistry | 3,213 | 2,030 | 2,030 | 2,030 | 2,000 | 1,100 | 2,090 | 2,030 | 2,230 | 2,030 | 2,030 | 2,240 |
| Optometry | 2,700 | 1,190 | 1,190 | 2,030 | 1,100 | 1,170 | 1,190 | 1,650 | 1,100 | 1,100 | 900 | 1,100 |
| Pharmacy | 2,104 | 1,050 | 2,450 | 1,440 | 1,000 | 1,000 | 1,040 | 1,180 | 1,000 | 1,000 | 1,000 | 1,000 |
| Podiatry | 2,100 | 1,050 | 1,050 | 1,100 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 |
| Podiatry (D.P.) | 2,030 | 1,000 | 1,450 | 2,030 | 1,000 | 1,100 | 1,450 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 |
| Podiatry (D.P.) | 2,030 | 1,000 | 1,450 | 2,030 | 1,000 | 1,100 | 1,450 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 |

1. Excludes expenses for food, clothing, and postage.

2. Includes tuition and fees, books and supplies, equipment, and uniforms.

3. Includes expenses as personal maintenance, transportation, taxes, and insurance.

4. Health Resources Administration, Bureau of Health Professions, Division of Health Professions Analysis, Study of how Health Professions Students Finance Their Education, 1970-77, OHS Publication No. (HRA) 80-52, 1980.

TABLE E-5

PERCENT DISTRIBUTION OF AVERAGE ANNUAL EXPENSES OF STUDENTS IN HEALTH PROFESSIONS, BY MAJOR AND SEX, 1975-1977

| Health profession | Average annual expenses of student | | | | | | | | | | | |
|-------------------|------------------------------------|---------------------|-------------------|---------|---|---------------------|-------------------|---------|-------------------------------------|---------------------|-------------------|---------|
| | Total students | | | | Male students with non-refundable loans | | | | Male students with refundable loans | | | |
| | Other expenses* | Board and lodging** | Other expenses*** | Total | Other expenses* | Board and lodging** | Other expenses*** | Total | Other expenses* | Board and lodging** | Other expenses*** | Total |
| Podiatry | \$2,000 | \$2,200 | \$2,000 | \$6,200 | \$2,000 | \$2,200 | \$2,000 | \$6,200 | \$2,000 | \$2,200 | \$2,000 | \$6,200 |
| Dentistry | \$2,000 | \$2,200 | \$2,000 | \$6,200 | \$2,000 | \$2,200 | \$2,000 | \$6,200 | \$2,000 | \$2,200 | \$2,000 | \$6,200 |
| Optometry | \$2,000 | \$2,200 | \$2,000 | \$6,200 | \$2,000 | \$2,200 | \$2,000 | \$6,200 | \$2,000 | \$2,200 | \$2,000 | \$6,200 |
| Pharmacy | \$2,000 | \$2,200 | \$2,000 | \$6,200 | \$2,000 | \$2,200 | \$2,000 | \$6,200 | \$2,000 | \$2,200 | \$2,000 | \$6,200 |
| Podiatry | \$2,000 | \$2,200 | \$2,000 | \$6,200 | \$2,000 | \$2,200 | \$2,000 | \$6,200 | \$2,000 | \$2,200 | \$2,000 | \$6,200 |
| Dentistry | \$2,000 | \$2,200 | \$2,000 | \$6,200 | \$2,000 | \$2,200 | \$2,000 | \$6,200 | \$2,000 | \$2,200 | \$2,000 | \$6,200 |
| Optometry | \$2,000 | \$2,200 | \$2,000 | \$6,200 | \$2,000 | \$2,200 | \$2,000 | \$6,200 | \$2,000 | \$2,200 | \$2,000 | \$6,200 |
| Pharmacy | \$2,000 | \$2,200 | \$2,000 | \$6,200 | \$2,000 | \$2,200 | \$2,000 | \$6,200 | \$2,000 | \$2,200 | \$2,000 | \$6,200 |

* Includes tuition, books, fees, and supplies, except board and lodging.

** Includes room and board, maintenance, and transportation, but excludes tuition.

*** The average annual expense for all students of a health profession, regardless of sex, with the exception of those who received loans from public and private sources.

Source: Health Resources Administration, Bureau of Health Professions, Division of Health Professions, "Study of Health Professions Students' Finance Their Education, 1975-1977," 1978.

TABLE E-6

PERCENT DISTRIBUTION OF INCOME OF STUDENTS IN HEALTH PROFESSIONS FOR SELECTED HEALTH PROFESSIONS, FROM NON-REFUNDABLE AND REFUNDABLE SOURCES, ACADEMIC YEAR 1976-1977

| Source | Percent distribution of income of students in different health professions | | | | | | |
|--------------------------------|--|------------|-----------|-----------|----------|----------|---------------|
| | Total | Osteopathy | Dentistry | Optometry | Pharmacy | Podiatry | Public health |
| | | 100 | 100 | 100 | 100 | 100 | 100 |
| Refundable sources | | 78 | 73 | 79 | 8 | 69 | 96 |
| Government and savings | | | 14 | 18 | 11 | 16 | 36 |
| Family contribution | | 11 | 27 | 28 | 19 | 19 | 26 |
| Employment contribution | | | 15 | 17 | 19 | 14 | 14 |
| Scholarships 2/ | | 4 | 7 | 5 | 9 | 1 | 14 |
| Armed Forces pay | | | 2 | 1 | 1 | 1 | 1 |
| Veterans benefits | | | 2 | 2 | 2 | 3 | 1 |
| Other sources 3/ | | | 6 | 1 | 7 | 7 | 13 |
| Non-refundable sources | | 1 | 27 | | 11 | 27 | 4 |
| Health care health professions | | | | | | | * |
| Direct student loans | | | 5 | 4 | 3 | 1 | * |
| Office of Education loans | | | 2 | 1 | 1 | 1 | 1 |
| Private financial loans 4/ | | | 6 | 8 | 1 | 16 | 1 |
| Family loans | | | 5 | 6 | 4 | 1 | 1 |
| School and bank loans 5/ | | | 3 | 1 | 1 | 2 | * |
| Other loans 6/ | | | 3 | 1 | 1 | 1 | 1 |

* Less than 0.5 percent.

1) Data not available for students in schools of medicine (M.D.).

2) Includes Armed Forces health professions scholarships, Federal health professions scholarship with service scholarships, State government scholarships, professional society scholarships, and other fellowships.

3) Includes school grants, gifts, National Medical Fellowships, and other non-repayable income.

4) Includes school loans not guaranteed by government, professional foundation loans, personal loans, and others.

5) Includes guaranteed student bank loans, guaranteed school loans, and other school loans.

6) Includes Robert Wood Johnson loans, and loans from insurance companies, life companies, fraternal societies.

Source: Health Resources Administration, Bureau of Health Professions, Division of Health Professions, "Study of Health Professions Students' Finance Their Education, 1975-1977," 1978, Publication No. (HRA) 78-52, 180.

TABLE 1-7
 AVERAGE INCOME OF STUDENTS IN SCHOOLS FOR SELECTED HEALTH OCCUPATIONS, BY SOURCE OF INCOME,
 AND PERCENT OF STUDENTS RECEIVING INCOME FROM EACH SOURCE, ACADEMIC YEAR 1976-77

| Source of income | Podiatry | | Dentistry | | Optometry | | Pharmacy | | Podiatry | | Veterinary medicine | | Public health | |
|----------------------------|---------------------|----------------|---------------------|----------------|---------------------|----------------|---------------------|----------------|---------------------|----------------|---------------------|----------------|---------------------|-----------------|
| | Percent of students | Average amount | Percent of students | Average amount | Percent of students | Average amount | Percent of students | Average amount | Percent of students | Average amount | Percent of students | Average amount | Percent of students | Average amount |
| All available sources | 100 | \$9,510 | 100 | \$8,730 | 100 | \$7,540 | 100 | \$6,260 | 100 | \$9,070 | 100 | \$6,340 | 100 | \$11,300 |
| Governmental sources | 54 | 2,080 | 55 | 2,150 | 35 | 1,990 | 35 | 2,150 | 78 | 3,710 | 79 | 2,080 | 51 | 2,110 |
| Jobs | 30 | 1,140 | 36 | 1,470 | 34 | 1,340 | 20 | 6,760 | 21 | 3,570 | 17 | 6,020 | 21 | 1,110 |
| Parents' contribution | 12 | 1,410 | 12 | 1,240 | 25 | 2,750 | 51 | 2,270 | 10 | 3,550 | 11 | 2,110 | 25 | 1,790 |
| Scholarships | 24 | 1,700 | 10 | 4,030 | 10 | 3,410 | 10 | 3,750 | 5 | 3,140 | 1 | 4,620 | 26 | 4,490 |
| Armed Forces | 1 | 1,180 | 5 | 1,270 | 4 | 3,160 | 1 | 3,150 | 1 | 1,340 | 1 | 3,380 | 2 | 10,660 |
| Veterans benefits | 1 | 1,180 | 5 | 1,270 | 1 | 2,980 | 5 | 2,650 | 4 | 1,700 | 4 | 2,350 | 5 | 2,950 |
| Other sources | 10 | 2,120 | 18 | 2,710 | 23 | 1,620 | 15 | 1,730 | 12 | 1,440 | 13 | 1,410 | 36 | 3,400 |
| Unavailable sources | 62 | \$4,230 | 62 | \$4,370 | 61 | \$3,220 | 42 | \$1,980 | 29 | \$4,960 | 52 | \$2,580 | 45 | \$ 2,420 |
| Federal health professions | | | | | | | | | | | | | | |
| State student loans | 21 | 1,490 | 25 | 2,170 | 26 | 1,420 | 19 | 1,010 | 30 | 1,290 | 22 | 1,460 | 2 | 2,000 |
| Off-campus education loans | 1 | 1,320 | 5 | 2,530 | 4 | 1,310 | 4 | 1,330 | 5 | 1,830 | 5 | 1,580 | 4 | 1,580 |
| Private financial sources | 17 | 2,440 | 34 | 2,840 | 33 | 2,740 | 13 | 2,720 | 40 | 3,710 | 16 | 1,970 | 5 | 1,940 |
| Family loans | 5 | 1,580 | 18 | 3,760 | 14 | 2,360 | 1 | 1,960 | 19 | 1,110 | 12 | 2,500 | 9 | 1,360 |
| School and bank loans | 1 | 2,550 | 5 | 2,090 | 5 | 2,730 | 3 | 1,490 | 5 | 1,360 | 5 | 1,420 | 2 | 1,370 |
| Other loans | 1 | 2,110 | 21 | 2,180 | 11 | 1,660 | 10 | 1,770 | 14 | 2,290 | 11 | 1,760 | 5 | 2,110 |

1. Includes available income of students in schools of medicine (M.D.).

2. Includes Army and Air Force health professions scholarships, Federal health professions/Public health service scholarships, State government scholarships, Professional Society scholarships, Robert Wood Johnson scholarships, and other scholarships.

3. Includes school grants-in-aid, National Medical Fellowships, and other non-repayable income.

4. Includes school loans not guaranteed by government, professional foundation loans, personal loans, and others.

5. Includes guaranteed student bank loans, guaranteed school loans, and private bank loans.

6. Includes student loan Johnson loans, and loans from insurance companies and commercial loan companies.

7. Data for the Army and Air Force Administration, Bureau of Health Professions, Division of Health Professions Analysis, Study of the Health Professions Students (1976-77), DHEW Publication No. (HRA) 80-52, 1980.

PERCENT OF STUDENTS IN SCHOOLS FOR SELECTED HEALTH OCCUPATIONS WHO ARE IN DEBT,
AND AVERAGE AMOUNT OF DEBT: ACADEMIC YEAR 1976-77

| Health occupation | Prior debt | | Current debt | | Anticipated debt | |
|---------------------|-------------------------------|----------------|-------------------------------|----------------|-------------------------------|----------------|
| | Percent of students with debt | Average amount | Percent of students with debt | Average amount | Percent of students with debt | Average amount |
| Medicine (M.D.) | * | * | 73 | \$16,450 | 74 | \$17,300 |
| Osteopathy (D.O.) | 49 | \$ 7,080 | 74 | 11,860 | 80 | 19,700 |
| Dentistry | 42 | 6,520 | 71 | 10,580 | 78 | 17,200 |
| Optometry | 39 | 5,590 | 68 | 8,840 | 75 | 14,300 |
| Pharmacy | 32 | 4,190 | 53 | 4,570 | 59 | 6,400 |
| Podiatry | 45 | 6,220 | 78 | 10,280 | 87 | 18,300 |
| Veterinary medicine | 44 | 5,760 | 64 | 7,490 | 72 | 10,600 |
| Public health | 52 | 12,290 | 59 | 11,550 | 59 | 11,610 |


* Data are not available.

1/ Includes financial obligations for preprofessional school educational expenses, automobile loans, medical expenses, and other items.

2/ Total unpaid debts as of June 1977.

3/ Estimate of total debt by graduation.

SOURCE: Health Resources Administration, Bureau of Health Professions, Division of Health Professions Analysis. Study of How Health Professions Students Finance Their Education, 1976-1977, DHHS Publication No. (HRA) 80-52, 1980.

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TREATMENT OF
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