DOCUMENT RESUME

ED 105 230 CE 003 523

TITLE Optometric Manpower: Characteristics of Optometric

Practice, United States--1968. Vital and Health

Statistics, Series 14, No. 13.

INSTITUTION National Center for Health Statistics (DHEW),

Rockville, Md.

REPORT NO DHEW-HRA-74-1808

PUB DATE Jun 74

NOTE 89p.: For related document, see CE 003 465

EDRS PRICE MF-\$0.76 HC-\$4.43 PLUS POSTAGE

DESCRIPTORS Demography; Employment Statistics; *Health Personnel;

Health Services; *National Surveys; *Optometrists;

Statistical Data; *Tables (Data)

ABSTRACT

The report is the second describing the findings of a national survey of manpower in the eye care occupations in 1968 and 1969. It contains primarily 27 statistical tables dealing with specific features of the optometric practice: the number and percentage distribution of optometrists by the number of patient visits per week (tables 1-3); the number of patients seen per week (tables 4-6), and the number of supplementary personnel of all types used to assist optometrists in practice (tables 7-27). Tables A through D and other charts illustrate the data taken from the survey on general demographic and profess cnal characteristics of optometrists: characteristics of optometric practice (primary and secondary activities, patient services, and volume of patient-care activity); and the utilization of supplementary personnel (secretaries, receptionists, general optometric assistants, optometric technicians, dispensing opticians, contact lens technicians, and optical technicians). Comparisons between the practice characteristics of ophthalmologists and optometrists surveyed in 1968 reveal a substantial overlap between services rendered by both and their need for supplementary personnel. The three appendixes provide a description of the methodology used in the survey, definitions of terms, and a facsimile of the questionnaire. (Author/JB)



United States-1968

U S DEPARTMENT OF HEALTH.

U S DEPARTMENT OF HEALTH.
EQUCATION A WELFARE
MATIONAL INSTITUTE OF
EDUCATION
THIS DOCUMENT HAS BEEN REPRO
DUCED EXACTLY AS RECEIVED FROM
HEP PERSON OR ORGANIZATION ORIGIN
ATING IT POINTS OF VIEW OR OPINIONS
STATED OO NOT NECESSARILY REPRE
SENT OFFICIAL NATIONAL INSTITUTE OF
EDUCATION POSITION OR POLICY

From information collected in a national survey of optometrists conducted by the National Center for Health Statistics, statistics are presented describing features of optometric practice in the United States in 1968. These features include the form and composition of practice arrangements, primary and secondary activities of the practitioners, the range of services that practitioners provided and the numbers and types of supplementary personnel that the optometrist used to assist him in his practice.

DHEW Publication No. (HRA) 74-1808

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE Public Health Service

> Health Resources Administration National Center for Health Statistics Rockville, Md. June 1974





Library of Congress Cataloging in Publication Data

Ontomestic things were

(Darco precond to Thouse a consecutive of the DHI Wind Group of OHEX (1998). Support Does not the 20 Consecutive C

Operator of the observable of the HIS of the assumption of the polynomial of the Markov of the HIS of the Assumption of the the second of the theory of the

RESIZE OF THE STATE

ISBN 19 - A CHARLES MET 18



NATIONAL CENTER FOR HEALTH STATISTICS

EDWARD B. PERRIN, Ph.D., Director

PHILIP S. LAWRENCE, Sc.D., Deputy Director
DEAN E. KRUEGIR, Ating Associate Director for Analysis
GAIL F. FISHER, Associate Director for the Cooperative Health Statistics System
ELIJAH L. WHITE, Associate Director for Data Systems
IWAO M. MORIYAMA, Ph.D., Associate Director for International Statistical Programs
EDWARD E. MINTY, Associate Director for Management
ROBERT A. ISRAEL, Associate Director for Operations
QUENTIN R. REMEIN, Associate Director for Program Development
PHILIP S. LAWRENCE, Sc.D., Acting Associate Director for Research
ALICE HAYWOOD, Information Officer

DIVISION OF HEALTH MANPOWER AND FACILITIES STATISTICS

GLORIA HOLLIS, Acting Director
SHELDON STARR, Acting Deputy Director
HENRY MOUNT, Chief, Health Manpower Statistics Branch
GLORIA HOLLIS, Acting Chief, Health Facilities Statistics Branch
SHELDON STARR, Acting Chief, Technical Services Branch

Vital and Health Statistics-Series 14. No. 13

DHEW Publication No. (HRA) 74-1808

Library of Congress Catalog Card Number 74-2154



CONTENTS

	Page
Introduction	1
1968 Optometrists in Perspective	2
General Demographic and Professional Characteristics	2
Characteristics of Optometric Practice	4
Form and Composition of Independent Practice Arrangements	4
Primary and Secondary Activities	4
Patient Services Rendered	5
Volume of Patient-Care Activity	5
Utilization of Supplementary Personnel	9
General Characteristics of Users of Auxiliary Personnel	9
Number of Supplementary Personnel	10
Conditions of Utilization	11
Utilization of Secretaries and/or Receptionis s	12
Utilization of General Optometric Assistants	13
Utilization of Optometric Technicians	13
Utilization of Dispensing Opticians	14
Utilization of Contact Lens Technicians	14
Utilization of Optical Technicians	15
Summary	16
List of Detailed Tables	17
Appendix I. Technical Notes	73
Background of Report	73
Survey Coverage	73
Data Collection and Processing	73
Response to the Survey	73
Item Response	74
Imputation for Unknowns	74
State and National Estimates	75
Rounding	75
Appendix II. Definitions	77
Annandiy III Survey Questionnaire	



iii



OPTOMETRIC MANPOWER: CHARACTERISTICS OF OPTOMETRIC PRACTICE

Hugo K. Koch, M.H.A., and Hazel M. Phillips
Division of Health Manpower and Facilities Statistics

INTRODUCTION

This is the sixth in a series of reports from the findings of a national survey of manpower in the eye-care occupations in 1968 and 1969. The survey, conducted by the National Center for Health Statistics with the active assistance of the Bureau of the Census, had as its goal to elicit information about ophthalmologists, optometrists, and opticians and about the supplementary personnel who assisted these primary functionaries in the provision of eye-care services. The five previously published reports based on the survey findings are:

Opticians Employed in Health Services, Vital and Health Statistics, DHLW Publication No. (HSM) 72-1025, Series 14 - No. 3, June 1972

Ophthalmology Manpower: A General Profile, *Vital and Health Statistics*, DHLW Publication No. (HSM) 73-1800, Series 14 - No. 5, December 1972

Ophthalmology Manpower. Characteristics of Clinical Practice, *Vital and Health Statistics*, DHLW Publication No. (HSM) 73-1802, Series 14 - No. 7, March 1973

Optometrists Employed in Health Services, *Vital and Health Statistics*. DHLW Publication No. (HSM) 73-1803, Series 14 - No. 8. March 1973

Ophthalmology Manpower: Utilization of Supplementary Personnel. Vital and Health Sta-

tistics. DHLW Publication No. (HSM) 73-1804, Series 14, No. 9, May 1973

The present report is the second report which describes personnel who provided optometric services in this Nation in 1968, Aprevious report on optometric manpower outlined the general demographic and professional characteristics of optometrists who were active and inactive in their profession at the time of the survey; selected statistics from this report are presented on pages 2 and 3. The present report, which contains 27 detailed statistical tables, presents statistics on several of the more specific features of optometric practice. These features include the form and composition of practice arrangements, primary and secondary activities of the optometric practitioner, and the range of optometric services that the practitioner provided, A substantial portion of the report is devoted to the numbers and types of supplementary personnel that the optometrist used to assist him in his practice. The 27 detailed tables that are found in this report are optometrists by number of patient visits per week (tables 1-3), number of patients sien per week (tables 4-6), number of supplementary personnel of all types used to assist the optometrist in practice, such as secretaries and/or receptionists, general optometric assistants, optometric technicians, dispensing opticians, contact lens technicians, and optical technicians (tables

Statistics used in the two reports on optometric manpower reflect the application of a statistical adjustment designed to compensate for total or partial nonresponse to the survey question-



naire. The adjustment yielded an estimate of 18,427 for the number of optometrists active in their profession at the time of the 1966 survey, this figure supplied the statistical base for most of the tables and textual discussion that appeared in the first report. Very few members of this active universe occupied themselves solely with activities such as teaching, research, or administration-activities which excluded patient care. About 49 percent of the active universe reported that they devoted at least some part of their weekly professional effort to the care of opcometric patients. This 99 percent, numbering 18,299 practitioners, make up the report universe for the present report, they are the chief subjects of its tabular data and textual commentary,

In the pages that follow, comparison will sometimes be made between the practice characteristics of optometrists and those of the ophthalmologists surveyed in 1968 (Series 14, No. 7), especially when the two professional groups appear to overlap in the patient services that they offered and in their respective utilizations of the available manpower resource in supplementary eye-care personnel.

The text is supported by the 27 detailed statistical tables and three appendixes. Appendix I explains the meanodology that was used in the collection and processing of data obtained from the 1968 survey of optometrists. Appendix II defines certain terms used in the report and Appendix III is a facsimile of the questionnaire used to survey optometrists in 1968.

1968 OPTOMETRISTS IN PERSPECTIVE

General Demographic and Professional Characteristics

The following statistics were selected from the earlier report, Optometrists Employed in Health Services: United States-1968 (Series 14, Number 8), the first report on optometric manpoter from the findings of the 1968 survey.

There were an estimated 20,301 civilian optometrists in the United States in 1968. Of these, 1,873 optometrists, or about 9 percent of the total, were inactive in their profession, 922 by reason of retirement and 951 for other reasons. About 91 percent of the total, 18,427 optometrists, were actively engaged in professional optometric activities, a ratio of 9.3 active optometrists to every 100,000 persons in the general population.

The geographic distribution of optometrists did not always mirror the distribution of the general population, as is revealed in table Λ . The ratio of optometrists to population was lowest in the South Region although the largest regional proportion of the Nation's population was to be found in the South. The North Central Region was favored over other regions both in the percent of all active optometrists located there and in the fact that it boasted the second highest ratio of optometrists to general population. The West Region had the highest ratio—11,2 optometrists per 100,000 population. For a more localized

Table A. Percent distribution of 1968 civilian population, active optometrists, and rates per 100,000 population, according to geographic region: United States, 1968

Geographic region	1968 civilian population	Active optometrists	Optometrists per 100,000 population
United States	Percent d	istribution	9.3
Northeast	24.4 28.0 31.0 16.6	25.8 31.9 22.4 19.9	9.9 10.6 6.8 11.2



analysis of optometrist concentration, refer to figure 1 wher the ratio of active optometrists to general population is pictured by State.

the median age of all active optometrists was 47.5 years, with about 55 percent of their number located in the age interval 40-54 years. Mout 98 percent of all active optometrists were male. Mout 76 percent was licensed in only one state. The typical optometrist reported aworking year that greeced d 48 weeks and a working week of roughly 40 hours. A substantial 16 percent of all active optometric services.

facticipation in professional activities other than direct patient care was limited. Only about

2 percent of active optometrists devoted some part of their working time to teaching in schools of optometry; about 6 percent were engaged to some degree in optometric research; and about 12 percent were at least partially active in administrative duties other than those connected with the care of patients, e.g., optometric associations.

More than 90 percent of all active optometrists were engaged to some extent in the direct care of optometric patients, It is these patient-seeing optometrists—18,290 in number—who make up the report universe of the present report and supply the statistical base for most of the tables and textual commentary.

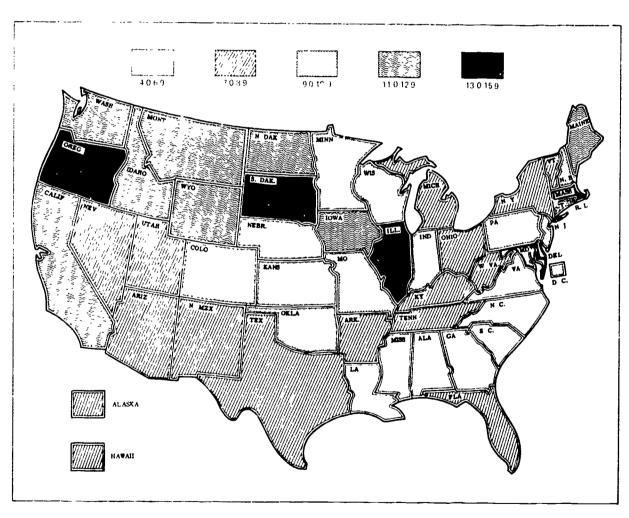


Figure 1. Number of active optometrists per 100,000 population. United States, 1968



CHARACTERISTICS OF OPTOMETRIC PRACTICE

Form and Composition of Independent Practice Arrangements

Of the 18,299 optometrists comprising this report universe, 16,218, or about 89 percent, were engaged in self-employed practice arrangements as follows:

Form of practice	Number of practi- tioners	Percent of report universe
All arrangements	16,218	88.6
Solo practice Partnership Group practice	13,510 2,178 530	73.8 11.9 2.9

Solo practice was clearly the form of independent practice most favored by respondents. Using medians, the typical solo practitioner was a male Doctor of Optometry between 47 and 48 years of age and licensed to practice in only one State. He maintained only one office, worked more than 48 weeks per year, and devoted roughly 40 hours per week to all his professional activities. About 74 percent of solo practitioners made use of supplementary personnel to assist them in practice.

About 15 percent of the report universe (2,708 optometrists) practiced optometry in multiplemember arrangements. The partnership was the most frequently reported form of multiple-member practice—an estimated 2,178 optometrists (about 12 percent of the report universe) participated in this form of practice—and only about 3 percent of the respondents were to be found in group practice. Again reporting median tendencies, the typical member of a multiple-member practice differed from his colleague in solo practice in certain, perhaps significant, respects; for example, he tended to be about 2 years younger than the solo practitioner and to work at least 2 hours more per working week. There was also a

notably stronger tendency to make use of supplementary eye-care personnel in partnerships and group practice arrangements. About 94 percent of the optometrists in multiple-member forms of practice reported the use of supplementary helpers as compared with 74 percent for solo practitioners.

Survey findings did not permit a direct and complete evaluation of the composition of multiple-member forms of practice. There was evidence, however, that the most utilized form was a two-member practice arrangement in which both members were optometrists. This derives from the finding that of the optometrists who reported sharing supplementary personnel with associates, about 69 percent reported that they shared these personnel with two associates, and of these optometrists who reported sharing personrel with two associates, about 77 percent reported that their associates were fellow optometrists. The number of optometrists in multiplemember forms of practice was more exactly evaluated by responses to the survey question "If in partnership or group practice, how many optometrists are there in the partnership or group (counting yourself)?" To this question, 2,105 respondents reported two optometrists in their multiple-member arrangement; 421 respondents reported three optometrists; and 182 reported four optometrists or more.

Primary and Secondary Activities

An examination of the primary and secondary activities reported by patient-serving optometrists is shown in table B. Clearly, practicing optometrists did not show any marked tendency to specialize since about 97 percent of them engaged in general practice as their primary activity and 13 percent reported no secondary activity at all. Of the secondary activities, cantact lens fitting was by far the most favored by respondents. In order of preference the three most popular secondary activities were contact lens fitting, general practice activities, and vision training. The typical practice obviously centered around general practice activities plus some contact lens work with a tendency, not very sharply pronounced, to be engaged in some vision transing.



Table B. Primary and secondary activities of optometrists; United States, 1968

Activity	Number engaged in activity	Percent distribution
Primary		
Total	18,299	100.0
General practice	17,657 368 63 87 6 29	96.5 2.0 0.3 0.5 0.0 0.2
Secondary		
Tota!	18,299	100.0
No secondary activity	2,373 2,709 10,588 1,104 483 218 611 213	13.0 14.8 57.9 6.0 2.6 1.2 3.3

Patient Services Rendered

Fourteen specific patient services were listed on the survey questionnaire and respondents were asked to check those rendered by them or under their direction. The 14 services in descending order from the most frequently rendered to the least are ranked in table C. Judging from median tendencies, the typical practitioner rendered at least eight or nine of these services, in most instances the services listed above the dotted line. Services below the line were less commonly provided; substantially fewer than one-half of the Nation's practitioners rendered any one of these six services.

A substantial overlap occurred between services rendered by optometrists and those rendered by the Nation's ophrhalmologists during the same reporting period. Examples of overlap

i clude: 8,282 ophthalmologists engaged in diagnostic examination (including tonometry), 7,802 performed visual field examinations, 4,834 reported the fitting of contact lenses, 4,571 prescribed low-vision aids, 2,710 provided orthoptic training or directed its provision, and 786 reported aniseikonic testing among their activities (Series 14. No. 7).

Volume of Patient-Care Activity

Volume of patient care activity was directly assessed by two items on the survey question-naire. Respondents were asked: "In your opto-metric practice, approximately how many patient visits for all purposes do you have diring a typical week?" and further: "Approximately how many patients does this represent? (Patients with multiple visits should be counted only once)."



Table C. Specific patient services rendered by optometrists; United States, 1968

Type of service	Number providing service	rercent of report universe
Refractions	17,122 16,923 15,532 14,521 13,780	93.6 92.5
Prescribing low vision aids	6,610 5,907	40.7 36.1 32.3 28.6 25.9 8.4

Patient visits per iceek.—The national experience of optometrists in patient visits per week was distributed as follows:

Patient visits per week	Number of practi- tioners	Percent dis- tribution
Total	18,299	100.0
Less than 25 visits 25-49 visits 50-74 visits 75-99 visits 100 visits or more	1,578 3,762 4,989 2,750 5,221	8.6 20.6 27.3 15.0 28.5

The national median was 69 visits per week for the typical practitioner. Regional variations from the national median were not very dramatic, as the following distribution by geographic region shows:

Geographic region	Number of active optometrists per 100,000 population	Median visits per week
United States	9.3	69
Northeast North Central South West	9.9 10.6 6.8 11.2	64 71 73 67

It may be meaningful that Southern optometrists, with the smallest concentration in the United States (in terms of number per 20,000 population), reported the highest median in patient visits per week. And Western optometrists, with a concentration per 100,000 population exceeding that of the other regions, reported a median experience in patient visits which was below the



national median. Assuming a need for optometric services which was fairly uniform regardless of geographic area, this might indicate that the typical Southern optometrist was, at least partially, attempting to compensate for his comparative scarcity in that area by extending the volume of his patient-care activity. It is clear, however, that factors other than simple geographic concentration were at work to influence the volume of patient-care activity. Thus optometrists of the North Central Region, with a concentration exceeded only by Western optometrists, still reported a median in patient visits which exceeded the national median and in fact was second only to the median reported by the Southern optometrist.

Figure 2 plots the relationship between patient visits per week and the age of the practitioner. Patient-care activity in terms of visits per week is seen to peak at a median of about 75 visits for optometrists in the age interval from 35 to 44 years and to decrease with each age interval until among optometrists over 65 years the median experience was about 40 visits per week.

With a median experience of about 51 visits per week, female optometrists reported a rate of patient-care activity that was substantially smaller than the 69 visits per week reported by the typical male practitioner.

The tabulation that follows reveals the relationship between patient visits and the form of practice that the optometrist engaged in.

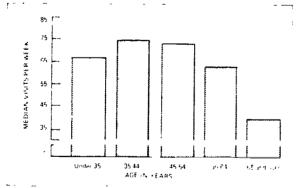


Figure 2: Median patients sits pc. The discord in things of information in the distance 1968.

Form of Practice	Number of practi- tioners	Median patient visits per practi- tioner per week
Solo practice Partnership Group practice	13,510 2,178 530	65 87 93

Clearly, within the typical multiple-member practice arrangement, the workload in patient visits was higher than that experienced by the typical solo practitioner. It was further noted that, within the partnership or group practice, the median experience in patient visits increased in positive proportion to the number of optometrists practicing in any particular multiple-member arrangement. For example, where two optometrists were engaged, the median was about 87 visits per week; where three optometrists were involved, the median was 97 visits; and in practice arrangements that involved four or more, the median exceeded 100 visits per week.

However, in the national perspective of optometric care it must be remembered that practitioners in the multiple-member practice forms were in the decided minority, with only 2,178 of them practicing in partnerships and 530 engaged in group practice. It was the estimated 13,510 solo practitioners, constituting about 74 percent of the national manpower resource, who with their median experience of 65 visits per week provided by far the greatest bulk of professional service to optometric patients in the United States at the time of the survey.

A reference to tables 2 and 3 will suggest the positive relationship that prevailed between number of patient visits and the following variables: hours worked per week, number of office locations, number of States licensed in, and number of optometric services rendered by the practitioner. As one increased, so did the other, though not always in a manner that was exactly proportional. For example, an analysis of the number of optometric services rendered yielded the following:



Number of optometric services rendered	Median patient visits per week
1-3 services	47
4-6 services	64
7-9 services	70
10 services or more	74

Patients seen per week.—The tendencies noted in the discussion of patient visits per week also apply generally to the number of optometric patients seen per week.

The national experience of optometric patients seen per week was as follows:

Patients seen per week	Number of practi- tioners	Percent dis- tribution
Total	18,299	190.0
Less than 25 patients 25-49 patients 50-74 patients 75-99 patients or more-	4,086 6,886 3,719 1,726 1,881	22.3 37.6 20.3 9.4 10.3

The national median was 43 optometric patients seen per week by the typical practitioner, A comparison to the median of 69 patient visits per week roughly suggests the extent to which multiple visits were made by the same patient within a single week. Regional distribution of the median patients seen per week is as follows:

Geographic region	Median patients seen per week	Median patient visits per week
United States	43	69
Northeast North Central South West	41 45 44 43	64 71 73 67

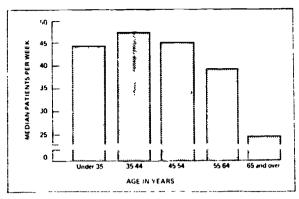


Figure 3: Median patients seen per week according til age of optometric practitioner. United States 1968.

36

'T'

Figure 3 plots the relationship between patients seen per week and the age of the practitioner. The median of patients seen per week is seen to peak at about 47 patients for optometrists in the age interval 35-44 years and decrease with advancing age until among optometrists over 65 years the median experience was only about 25 patients per week.

With a median experience of about 34 patients seen per week, female optometrists reported patient-care activity that was substantially smaller than the 44 patients per week reported by the typical male practitioner.

l'abulated below are figures revealing the relationship between patients seen per week and the form of practice that the optometrist engaged in.

Form of practice	Number of practi- tioners	Median patients seen per week
Solo practice Partnership Group practice	13,510 2,178 530	40 55 60

Clearly, within the typical multiple-member practice arrangement the number of patients seen was higher than that experienced by the typical solo practitioner, it was further noted that, within the partnership or group practice, the median in patients seen increased in proportion to the number of optometrists practicing in any par-



ticular multiple-member arrangement, for example, where two optometrists were engaged, the median was about 53 patients per week; where three optometrists were involved, the median was 63 patients; and, in practice arrangements that involved four optometrists or more, the median was 70 patients per week.

However, in the national perspective of optometric care, it must be remembered that practitioners in the multiple-member practice forms were in the decided minority, with only 2,178 of their numbers practicing in partnerships and only 530 engaged in group practice, it was the estimated 13,510 solo practitioners, constituting about 74 percent of the report universe who, with their median experience of 40 patients per week, provided by far the greatest bulk of professional service to optometric patients in the United States at the time of the survey.

A reference to tables 5 and 6 will suggest the positive relationship that prevailed between number of patients seen per week and the following variables: hours worked per week, number of office locations, number of States licensed in, and number of optometric services rendered by the practitioner. As one increased, so did the other.

UTILIZATION OF SUPPLEMENTARY PERSONNEL

General Characteristics of Users of Auxiliary Personnel

Respondents to the 1968 survey were asked whether or not they used the services of auxiliary personnel to 2. sist them in caring for their optometric patients. A total of 14,339 optometrists (about 78 percent of the report universe) reported that they did; they will hereafter be referred to as "users." About 98 percent of users were male. The median age of users was 46.5 years, I year less than the median age of 47.5 reported for the entire universe of active optometrists. Geographically, users were distributed as shown in table 1).

Table D. Number of optometrists who utilized supplementary personnel according to geographic area: United States, 1968

Region and division	Number who utilized supple- mentary personnel	Percent distribution
United States	14,339	100.0
Northeast New England Middle Atlantic	3,106 862 2,244	21.7 6.0 15.6
North Central	4,548 3,172 1,377	31.7 22.1 9.6
South Atlantic	3,629 1,718 715 1,196	25.3 12.0 5.0 8.3
West Mountain Pacific	3,056 603 2,453	21.3 4.2 17.1



The tendency to use supplementary personnel was strongest among optometrists of the South Region, where about 88 percent of the patient-serving optometrists reported the use of assistants. This was well above the 78 percent calculated for the Nation as a whole, and, when one remembers that the concentration of optometrists in the South (6.8 per 100,000 population) was substantially lower than the ratio for any other region in the United States, this rate may suggest that the Southern optometrist was at least partially compensating for his relative scarcity by using assistants in an effort to extend his range of services.

There was a direct relationship between form of practice and the reported usage of supplementary assistants. Whereas about 74 percent of the Nation's solo practitioners relied on supplementary personnel, the figure was 93 percent for optometrists in partnerships and about 96 percent for those engaged in group practice. However, since users in solo practice outnumbered users in the other practice forms by almost 4 to 1, it is clear that most supplementary personnel performed their services for solo practitioners.

The questionnaire requested information on the utilization of six specific types of supplementary assistants. Of the Nation's 14,339 users of auxiliary personnel, about 84 percent utilized the services of secretaries and/or receptionists and 30 percent utilized general optometric assistants (supplementary personnel who spent less than 75 percent of their time in any of the assistant categories were counted as general optometric assistants). Sixteen percent utilized dispensing opticians, 10 percent utilized optical technicians (shopmen), 5 percent utilized optometric technicians, and 4 percent utilized contact lens technicians.

Certain professional characteristics of the user are brought into sharper focus when they are directly contrasted with corresponding characteristics of the 3,960 members of the report universe who reported that they did not utilize supplementary personnel. For example, the typical user reported about 76 visits by eye patients per week; the typical nonuser, about 45. The typical user saw about 48 patients in the course of a week; the typical nonuser saw only about 28.

The following tabulation contrasts the range of professional activity of the user of supplementary personnel and the nonuser by the extent to which each provided 14 selected patient services or directed the provision of these services.

Parient service	Users	Nonusers
	Percent ·	
Refractions	99	99
Visual field examination-	78	65
Tonometry	72	43
Aniseikonic testing	9	6
Biomicroscopy	37	14
Ophthalmoscopy	94	86
Contact lens fitting	84	61
(orthoptics)	52	42
Developmental vision Prescribing low vision	31	19
aids	44	29
reading Dispensing and adjusting	28	18
eyeware	94	90
Frame repairs	86	79
Fabrication of eyeware	38	31

Note the direct relationship between use of supplementary personnel and the tendency to render any of the services except refractions. For several of the services (e.g., tonometry, biomicroscopy, and fitting contact lenses), the reliance on supplementary assistance is especially evident.

Judging by the number of the 14 services that optometrists provided, without regard for the frequency of rendition or for the time or degree of sophistication involved in the performance of each service, about 78 percent of all users reported that they provided more than seven of the 14 services, as opposed to about 54 percent of all nonusers.

Number of Supplementary Personnel

The typical patient-serving optometrist who used supplementary personnel in the United States in 1968 utilized the services of 2,1 assistants



(a median figure). Variation in numbers of assistants are perhaps more meaningfully expressed by reporting for appropriate dimographic and professional categories, the proportion of users who made use of two or more supplementary assistants.

hor the Nation as a whole, the proportion of "using" optometrists who utilized two or more assistants was about 54 percent. The following tabulation shows user experience by geographic regions and their component divisions.

Region and division	Percentage of users who use 2 or more assistants
United States	54
Northeast New England Middle Atlantic	49 39 53
North Central East North Central West North Central	56 56 55
South Atlantic East South Central West South Central	53 52 49 58
West Mountain Pacific	56 53 57

Thus, though the tendency to use two or more assistants does not show dramatic variations when it is expressed by geographic region, considerable variation may be observed among divisions within a single region as well as among divisions which are geographically remote from one another. For example, note the New England Division of the Northeast Region, where the tendency to use two or more supplementary personnel contrasted sharply with the experience of optometrists in the Middle Atlantic Division. The tendency in New England was, in fact, markedly weaker than anywhere else in the Nation.

The tabulation that follows relates number of assistants to the age of the user.

Age	l assistant	2 or more assistants
	Percent use	of total
Total users-	46	54
Under 35 years 35-44 years 45-54 years 55-64 years and over-	40 43 47 53 55	60 57 53 47 45

Note the inverse relationship that existed between age and the tendency to utilize two or more assistants. At its strongest among younger practitioners, the tendency declined markedly as age categories advanced.

Conditions of Utilization

Users of supplementary personnel were asked to specify the conditions in which they utilized each type of assistant. The following four conditions of utilization were possible:

Full-time unshared, i.e., 35 hours or more per week, services of assistant not shared with associates.

Full-time shared, i.e., 35 hours or more per week, services of assistant shared with associates.

Part-time unshared, i.e., less than 35 hours per week, services of assistant not shared with associates.

Part-time shared, i.e., less than 35 hours per week, services of assistant shared with associates.

The use of one or more assistants of a given type in one of the above four conditions of utilization is treated in this analysis as a "report of utilization." By this measurement of usage, there were a total of 25,487 reports of utilization of supplementary personnel. Of this total, about 58 percent were for secretaries and/or receptionists, 19 percent for general optometric assistants, 10 percent for dispensing opticians, 6 percent for optical technicians (shopmen), 3



percent for optometric technicians, 2 percent for contact lens technicians, and 3 percent were tor other types of supplementary personnel (e.g., orthoptists). Members of this "other" category were not reported with sufficient frequency to warrant separate treatment in this report.

An overall analysis of the conditions in which assistants were used showed that, in order of preference, about 70 percent of all reports specified full-time utilization, about 30 percent specified part-time; 64 percent of all reports specified unshared utilization, and 36 percent specified the sharing of assistants with associates.

When these two fundamental bases of usage were combined, it was apparent that:

- •43 percent of all reports of utilization specified assistance on a full-time unshared basis.
- •27 percent specified assistance on a fulltime shared basis.
- •22 percent specified assistance on a parttime unshared basis.
- 9 percent specified assistance on a parttime shared basis.

In the discussion that follows, the basis of utilization will be seen to vary with the specific type of assistant under consideration. The preference was generally for the full-time unshared utilization of secretaries and/or receptionists. General optometric assistants were likewise generally used on a full-time unshared basis. For optometric technicians, dispensing opticians, contact lens technicians, and optical technicians, however, the preference was for full-time shared personnel. Only with the undifferentiated "other" types of assistants did the reports of utilization favor assistance on a part-time basis.

Utilization of Secretaries ond/or Receptionists

There were 14,661 reports of utilization of secretaries and/or receptionists. Assistants of this type were distributed according to the following conditions of usage. About 45 percent of the reports of utilization specified utilization on a full-time unshared basis, 21 percent specified full-time shared, 25 percent specified part-time unshared, and 9 percent specified utilization on a part-time shared basis. Thus full-time unshared

utilization was the most popular condition of usage and part-time shared utilization the least popular.

Of the 12,044 optometrists who utilized secretaries and/or receptionists, about 66 percent used one; about 23 percent used two; and 11 percent used three or more. When an optometrist reported the use of only one assistant of any type, in almost eight cases out of 10 this assistant was a secretary or receptionist. Of those who reported that they used two assistants of any type, about 85 percent reported that the assistants included at least one secretary or receptionist. And, of those who reported the use of three or more assistants of any type, about 92 percent reported that their assistants included one or more secretaries and/or receptionists.

The following tabulation shows the extent to which the utilization of secretaries and receptionists was reflected in the tendency to render specific patient services.

Patient service	Users	Nonusers
	Percent	
Refractions	99	99
Visual field examination-	78	70
Tonometry	72	54
Aniseikonic testing	9	7
Biomicroscopy	37	23
Ophthalmoscopy	94	89
Contact lens fitting	84	70
Visual training		1
(orthoptics)	51	47
Developmental vision	30	26
Prescribing low vision		
aids	44	35
Visual readiness for	!	İ
reading	27	24
Dispensing and adjusting		
eveware	94	92
Frame repairs	86	83
Fabrication of eyeware	38	33

Note that the addition of administrative personnel increased the tendency to perform all patient services except routine refractions. The influence was a general one. It probably operated by freeing the optometrist from the performance of routine clerical and administrative tasks, thus allowing him more time for his strictly clinical functions.



Utilization of General Optometric Assistants

There were 4,832 reports of utilization for general optometric assistants; this included persons who spent less than 75 percent of their time in any of the assistant categories. They were distributed according to the following conditions of usage. About 48 percent of the reports of utilization specified use on a full-time unshared basis, 22 percent on a full-time shared basis, 23 percent on a part-time unshared basis, and 7 percent specified use on apart-time shared basis. Thus, as with secretaries and receptionists, full-time unshared utilization was the most popular condition of usage and part-time shared utilization the least popular.

Of the 4,230 optometrists who utilized general optometric assistants, about 71 percent used one, about 20 percent used two, and about 9 percent used three or more. Of those who reported that they used two assistants, about 35 percent reported that the two included at least one general optometric assistant. And, of those who reported the use of three or more assistants of any type, about 45 percent reported that the number included one or more general optometric assistants.

The following tabulation shows the extent to which the utilization of general optometric assistants was reflected in the tendency to render specific patient services.

Patient service	Users	Nonusers
	Percent	
Refractions	99	99
Visual field examination-	83	73
Tonometry	80	62
Aniseikonic testing	11	8
Biomicroscopy	49	27
Ophthalmoscopy	96	91
Contact lens fitting	89	77
Visual training		
(orthoptics)	61	47
Developmental vision	40	25
Prescribing low vision		
aids	50	38
Visual readiness for		
reading	36	23
Dispensing and adjusting	_	
eyeware	96	93
Frame repairs	89	84
Fabrication of eyeware	39	35

Note that the addition of general optometric assistants generally increased the tendency to perform all the clinical functions except routine refractions. It was most dramatically manifest in the tendency to perform the diagnostic functions of biomicroscopy and tonometry.

Utilization of Optometric Technicions

There were 707 reports of utilization of optometric technicians. Assistants of this type were distributed according to the following conditions of usage. About 36 percent of the reports of utilization specified utilization on a full-time unshared basis, 44 percent specified a full-time shared basis, 11 percent specified a part-time unshared basis, and 9 percent specified utilization on a part-time shared basis. Thus in contrast with the utilization of administrative personnel and general optometric assistants, full-time shared utilization was the most popular condition of usage for commetric technicians although part-time shared utilization remained the least popular.

Of the relatively few optometrists (650) who utilized optometric technicians, about 75 percent used one, about 16 percent used two, and about 10 percent used three or more. Of optometrists who reported using only one assistant of any type, fewer than 1 percent reported that this one assistant was an optometric technician. Of those who reported that they used two assistants, about 4 percent reported that the two included at least one optometric technician. And, of those who reported the use of three or more assistants of any type, about 13 percent reported that the number included one or more optometric technicians,

The following tabulation shows the extent to which the utilization of optometric technicians was reflected in the tendency to render specific patient services. Except for a slightly negative effect on the function of dispensing and adjusting, the addition of optometric technicians generally increased the tendency of optometrists to render all of the clinical functions. Most pronounced was the increased tendency to perform the diagnostic functions of biomicroscopy and aniseikonic testing.



Patient service	Users	Nonusers
	Percent	
Refraction	100 77 72 14 46 93 84 53 33	99 75 66 8 32 92 79 50 28
aids Visual readiness for reading Dispensing and adjusting	50 33	40 26
eyewareFrame repairsFabrication of eyeware	92 84 45	94 85 36

Utilization of Dispensing Opticians

There were 2,455 reports of utilization of dispensing opticians. They were distributed according to the following conditions of usage. About 37 percent of the reports of utilization specified utilization on a full-time unshared basis, 48 percent on a full-time shared basis, 8 percent specified part-time unshared utilization, and 7 percent specified part-time shared utilization. Thus, as with the utilization of optometric technicians, full-time shared utilization was the most popular condition of usage.

Of the 2,231 optometrists who utilized dispensing opticians, about 62 percent used one, about 20 percent used two, and about 18 percent used three or more. Of optometrists who reported using only one assistant of any type, only about 2 percent reported that this one assistant was a dispensing optician. Of those who reported that they used two assistants of any type, again only a small proportion (about 12 percent) reported that the two included at least one dispensing optician. However, among optometrists who reported the use of three or more assistants of any type, a more substantial number, about 44 percent, tended to use one or more dispensing opticians.

The following tabulation shows the extent to which the utilization of dispensing opticians was

reflected in the tendency to render specific patient services.

Patient service	Users	Nonusers
7	Percent	
Refractions	9 9	99
Visual field examination-	64	77
Tonometry	61	67
Aniseikonic testing	8	8
Biomicroscopy	33	32
Ophthalmoscopy	92	93
Contact lens fitting	80	79
Visual training		į
(orthoptics)	35	52
Developmental vision	21	30
Prescribing low vision		i
aids	38	41
Visual readiness for		
reading	19	27
Dispensing and adjusting		
_eyeware	89	94
Frame repairs	.79	86
Fabrication of eyeware	45	35
i		

Note that the trend recorded for users of administrative personnel, general optometric assistants, and optometric technicians was generally reversed among users of dispensing opticians. That is, optometrists who were assisted by dispensing opticians showed a reduced tendency to perform most patient services other than the fabrication of eyeware. The presence of a dispensing optician appeared to create an increased tendency toward specialization among optometrists who used them.

Utilization of Contact Lens Technicians

There were 539 reports of utilization for contact lens technicians. Assistants of this type were distributed according to the following conditions of usage. About 26 percent of the reports of utilization specified utilization on a full-time unshared basis, 49 percent on a full-time shared basis, 18 percent specified part-time unshared utilization, and 7 percent specified part-time shared utilization. Again, as with optometric technicians and dispensing opticians, full-time shared utilization was the preferred condition of usage.

Of the relatively few optometrists (516) who utilized contact lens technicians, about 81 percent



used one, about 12 percent used two, and about 7 percent used three or more. Of the 6,655 optometrists who reported using only one assistant of any type, only 8 practitioners (0.1 percent) reported that this one assistant was a contact lens technician. Of optometrists who reported that they used two assistants of any type, only 1-2 percent reported that the two included at least one contact lens technician. When the optometrist used three or more assistants of any type, there was a somewhat stronger tendency to include contact lens technicians—about 11 percent of these optometrists reported using one or more contact lens technicians.

The following tabulation shows the extent to which the utilization of contact lens technicians was reflected in the tendency to render specific patient services.

Patient service	Users	Nonusers
	Percent	
Refractions	98	99
Visual field examination-	66	76
Tonometry	62	66
Aniseikonic testing	13	8
Biomicroscopy	44	32
Ophthalmoscopy	90	93
Contact lens fitting	90	79
Visual training		
(orthoptics)	38	50
Developmental vision	21	29
Prescribing low vision		
aids	41	41
Visual readiness for		
reading	19	26
Dispensing and adjusting		
_eyeware	82	94
Frame repairs	72	85
Fabrication of eyeware	38	36

The use of contact lens technicians understandably increased the tendency to perform the service of contact lens fitting, evidently at the expense of most other patient services with aniseikonic testing and biomicroscopy being interesting exceptions.

Utilization of Optical Technicians

There were 1,596 reports of utilization for optical technicians (shopmen). They were dis-

tributed according to the following conditions of usage. About 28 percent of the reports of utilization specified utilization on a full-time unshared basis, 51 percent on a full-time shared basis, 12 percent of the reports specified part-time unshared utilization, and 9 percent specified part-time shared utilization. As it was with optometric technicians, dispensing opticians, and contact lens technicians, there is a clear preference for full-time shared utilization of this type of assistant.

Of the 1,474 optometrists who utilized optical technicians (shopmen), about 67 percent used one, about 17 percent used two, and about 17 percent used three or more. Of optometrists who reported using only one assistant of any type, fewer than 1 percent reported that this one assistant was an optical technician. Of those who reported that they used two assistants of any type, again only a small proportion (about 7 percent) reported that the two included at least one optical technician. However, among optometrists who reported the use of three of mc.e assistants of any type, a more substantial proportion (about 30 percent) tended to use one or more optical technicians,

The following tabulation shows the extent to which the utilization of optical technicians was reflected in the tendency to render specific patient services.

Patient service	Users	Nonusers
	Percent	
Refractions	99	. 99
Visual field examination	69	
Tonometry	62	66
Aniseikonic testing	1 7	8
Biomicroscopy	35	
Ophthalmoscopy	93	92
Contact lens fitting Visual training	78	79
(orthoptics)	39	51
Developmental vision Prescribing low vision	22	29
aidsVisual readiness for	38	41
reading	20	26
Dispensing and adjusting	l	
eyeware	93	94
Frame repairs	84	85
Fabrication of eyeware	61	34



Predictably, users of optical technicians showed an increased tendency towards the fabrication of eyeware. As a possible consequence of this increased emphasis, the tendency was to reduce the provision of most of the other patient services,

The optometrist's utilization of supplementary personnel is summarized in the table that follows:

Type of assistant	Number of reports of utili- zation
Secretaries/receptionists General optometric assistants Optometric technicians Dispensing opticians Contact lens technicians (shopmen) Optical technicians (shopmen) Other type personnel (e.g., orthoptists)	14,661 4,832 707 2,455 539 1,586

Optometrists were not the only professi nal group with a need for supplementary eye-care personnel. Opthalmologists used them too. The findings of the 1968 survey of ophthalmologists suggest a substantial overlap between optometrists and ophthalmologists in their need for and use of certain types of eye-care personnel, For example, among ophthalmologists surveyed, there were 1,794 reports of utilization of optical fitters (including opticians). There were also 1,263 reports of utilization of laboratory, ophthalmic, and contact lens technicians, 646 reports of utilization of orthoptists, 222 reports of utilization of optometrists, and 439 reports of utilization of other clinical (eye-care) assistants (Series 14, Number 9).



- 000 -

LIST OF DETAILED TABLES

			Page
Table	1.	Number and percent distribution of optometrists by number of patient visits per week, according to State: United States, 1968	19
	2.	Number and percent distribution of optometrists by number of patient visits per week, according to geographic area and selected characteristics of the optometrist: United States, 1968	21
	3.	Number and percent distribution of optometrists by number of patient visits per week, according to selected professional characteristics of the optometrist: United States, 1968	23
	4.	Number and percent distribution of optometrists by number of patients seen per week, according to State: United States, 1968	25
	5.	Number and percent distribution of optometrists by number of patients seen per week, according to geographic area and selected characteristics of the optometrist: United States, 1968	27
	6.	Number and percent distribution of optometrists by number of patients seen per week, according to selected professional characteristics of the optometrist; United States, 1968	29
	7.	Number and percent distribution of optometrists by number of supplementary personnel of all types used to assist in practice, according to State: United States, 1968	31
	8.	Number and percent distribution of optometrists by number of supplementary personnel used to assist in practice, according to geographic area and selected characteristics of the optometrist: United States, 1968	33
	9.	Number and percent distribution of optometrists by number of supplementary personnel used to assist in practice, according to selected professional characteristics of the optometrist; United States, 1968	35
	10.	Number and percent distribution of optometrists by number of secretaries and/or receptionists used to assist in practice, according to State: United States, 1968	37
	11.	Number and percent distribution of optometrists by number of secretaries and/or receptionists used to assist in practice, according to geographic area and selected characteristics of the optometrist: United States, 1968	39
	12.	Number and percent distribution of optometrists by the number of secretaries and/or receptionists they used to assist in practice, according to selected professional characteristics of the optometrist: United States, 1968	41
	13.	Number and percent distribution of optometrists by number of general optometric assistants they used to assist in practice, according to State: United States, 1968	43
	14.	Number and percent distribution of optometrists by number of general optometric assistants they used to assist in practice, according to geographic area and selected characteristics of the optometrist: United States, 1968	45
	15.	Number and percent distribution of optometrists by number of general optometric assistants they used to assist in practice, according to selected professional characteristics of the optometrist: United States, 1968	47



LIST OF DETAILED TABLES-Con.

Page			
49	Number and percent distribution of optometrists by number of optometric technicians they used to assist in practice, according to State: United States, 1968	16.	Table
51	Number and percent distribution of optometrists by number of optometric technicians they used to assist in practice, according to geographic area and selected characteristics of the optometrist: United States, 1968	17.	
53	Number and percent distribution of optometrists by number of optometric technicians they used to assist in practice, according to selected professional characteristics of the optometrist: United States, 1968	18.	
55	Number and percent distribution of optometrists by number of dispensing opticians they used to assist in practice, according to State: United States, 1968	19.	
57	Number and percent distribution of optometrists by number of dispensing opticians they used to assist in practice according to geographic area and selected characteristics of the optometrist: United States, 1968	20.	
59	Number and percent distribution of optometrists by number of dispensing opticians they used to assist in practice, according to selected professional characteristics of the optometrist: United States, 1968	21.	
61	Number and percent distribution of optometrists by number of contact lens technicians they used to assist in practice, according to State: United States, 1968	22.	
63	Number and percent distribution of optometrists by number of contact lens technicians they used to assist in practice, according to geographic area and selected characteristics of the optometrist: United States, 1968	23.	
65	Number and percent distribution of optometrists by number of contact lens technicians they used to assist in practice, according to selected professional characteristics of the optometrist: United States, 1968	24.	
67	Number and percent distribution of optometrists by number of optical technicians (shopmen) they used to assist in practice, according to State: United States, 1968	25.	
69	Number and percent distribution of optometrists by number of optical technicians (shopmen) they used to assist in practice, according to geographic area and selected characteristics of the optometrist: United States, 1968	26.	
71	Number and percent distribution of optometrists by number of optical technicians (shopmen) they used to assist in practice, according to selected professional characteristics of the optometrist: United States, 1968	27.	



Table 1. Number and percent distribution of optometrists by number of patient visits per week, according to State; United States, 1968

ing to state.	United States,	1900				
	Number of patient visit			ts per	week	
State	optometrists	Less than 25	25-49	50-74	75-99	100 or more
		Nu	mber			
United States	18,299	1,578	3,762	4,989	2,750	5,221
AlabamaAlaska	180 17	6 1	28 1	47	29 6	69 3
Arizona	127	7	28	36	20	36
Arkansas	151	13	28	34	27	49
California	2,222	188	484	675	298	577
Colorado	186	17	39	60	30	39
Connecticut	258	36	64	72	47	38
DelawareDistrict of Columbia	35	6	8	8	9	4
Florida	71	.7	11	18	17	18
LIVITUE	493	40	93	136	98	126
Georgia	261	13	37	60	57	96
Hawaii	64	14	24	14	5	~~
Idaho	86	7	19	27	18	16
Illinois	1,602	203	353	415	194	437
IndianaIowa	503	41	94	126	89	153
Kansas	336	16	44	72	53	150
Kentucky	229	18	33	66	36	76
Louisiana	229 222	19	44 55	55	37	74
Maine	116	13	23	56 34	22 13	60 33
Maryland	174	111	41	47	40	35
Massachusetts	714	92	230	199	85	108
Michigan	708	33	114	204	125	231
Minnesota	353	13	48	106	60	126
Mississippi	120	8	29	25	22	35
Montana	431	38	89	113	62	130
Ne braska	89 155	12	30 27	19	11	21
Nevada	36	1 1	10	40	33 4	43
New Har,pshire	70	3	10	10 25	15	11 17
New Jersey	674	79	205	191	75	123
New Mexico	71	2	6	30	14	19
New York	1,587	120	293	410	209	555
North Dakota	320	22	79	85	51	83
Ohio	72 927	1 1	17	21	13	21
Oklahoma	245	67 20	155	273 66	146 37	286
Oregon	265	19	70	71	43	82 61
Pennsylvania	1,133	141	262	283	177	270
Rhode Island	132	18	33	39	12	30
South CarolinaSouth Dakota	155	10	31	49	15	50
Tennessee	94 292	9 21	20	31	13	21
Texas	740	46	49 119	63	51 17	108
Utah	74	1	13	179	ii	280 26
Vermont	38	l il	ا و	12	- 11	11
Virginia	272	18	57	75	42	80
Washington	356	28	62	97	59	110
West Virginia	147	14	24	41	20	48
Wyoming	428	28	71	131	72	125
# A A P T 1 P T T T T T T T T T T T T T T T T	41 []	3	10	10	5	12

Table 1. Number and percent distribution of optometrists by number of patient visits per week, according to State: United States, 1968—Con.

ting to state;	United States,	1700				
	Total	Number of patient vis		nt visi	ts per	week
State	optometrists	Less than 25	25-49	50-74	75-99	100 or more
		Percent d	istribu	tion		
United States	100.0	8,6	20,6	27.3	15.0	28,5
AlabamaAlaska	100.0	3.1	15.7	26.4	16.4	38.4
Arizona	100.0 100.0	6.3	5.3	31.3	37.5	18.8
Arkansas	100.0	5.2 8.3	21.7	28.7	15.7	28.7
California	100.0	8.5	18.4	22.8 30.4	17.7	32.4 26.0
Colorados	100.0	9.3	20.9	32.6	16.3	20.9
Connecticut	100.0	14.0	24.8	28.0	18.4	14.8
Delavare	100.0	16.7	23.3	23.3	26.7	10.0
District of Columbia	100.0	10.2	15.3	25.4	23.7	25.4
Florida	100.0	8.2	18,9	27.5	19.8	25.6
Georgia	100.0	4.8	14.1	22.9	21.7	36.6
Hawa (f	100.0	21.3	37.7	21.3	8.2	11.3
Idaho	100.0	7.8	22. 1	31.2	20.8	18.2
Illinois	100.0	12.7	22.0	25.9	12.1	27.3
Indiana		8.2	18.7	25,1	17.6	30.5
Iowa	100.0	4.8	13, 2	21.5	15.8	44.7
Kansas	100.0	7.9	14.4	28.7	15.7	33.3
Kentucky		8.4	19.2	23.8	16.4	32.2
Louisiana	100.0	12.6	24.8	25.3	10.1	27.3
Maine	100.0	11.0	20, 2	29.4	11.0	28.4
Maryland	100.0	6.3	23.8	26.9	23.1	20.0
Massachusetts	100.0	12.8	32.2	27.9	11.9	15.1
Michigan	100.0	4.7	16.2	28.8	17.7	32.6
Minnesotanessana	100 0	3.6	13.6	30.0	17.0	35.8
Mississinni	100.0	7.0	24.6	21.1	15.4	29.0
Missinii	100.0	8.8	20.6	26.3	14.3	30.1
Mantana	100.0	5.5	34. 2	22.0	12.2	23.2
Nebraska	100.0	7.5	17.1	26.0	21.2	28.1
Nevada	100.0	3.0	27.3	27.3	12.1	30.3
New Hampshire	100.0	4.6	13.6	36.4	21.2	24.2
New JerseyNew Mexico	100.0	11.7 2.9	30.5	28.3	11.2	18.3
New York	100.0	7.3	8.7 18.5	42.0	20.3	26.1
North Carolina	100.0	6.8	24.7	25.9 26.7	13.2 15.9	35.0 26.0
North Dakota	100.0	1.6	23.8	28.6	17.5	28.6
Ohio	100.0	7.3	16.7	29.5	15.7	30.8
Oklahoma	100 0	8.3	15.7	27.1	15.3	33.6
0=000	100 0	7.2	26.4	26.8	16.4	23.2
Penney Lyan (a consequence of the consequence of th	100.0	12.5	23. 1	25.0	15.6	23.8
Rhode Island	100.0	13,5	25, 2	29.4	9.2	22.7
South CarolinaSouth Dakota		6.2	20.0	31.7	9.7 13.6	32.4
Tennessee	100.0 100.0		21.6	33.0	17.0	22.7
Texas	100.0		16.7	21.5	17.5	37.1
Utah	100.0	6.2 1.6	16.1 17.5	24.2	15.8	37.9
Vermont	100.0	2.9	22.9	31.8	14.3	34.9 28.6
!!!=ain!	100 0	6.3	21.1	27.5	15.4	29.6
Washington	100.0	7.9	17.3	27.3	16.7	30.9
West Virginia	100.0	9.4	16.6	28.1	13.7	32.4
Wisconsingereness	100.0	6.6	16.7	30.6	16.9	29.3
Wyoming	100.0	8.3	25.0	25.0	ii.i	30.6
		!		L	L	L

Table 2. Number and percent distribution of optometrists by number of patient visits per week, according to geographic area and selected characteristics of the optometrist: United States, 1963

Geographic area and selected characteristics of	Total	Number of patient visits per week					
optometrist	optometrists	Less than 25	25-49	50-74	75-99	100 or more	
		Number					
United States	18,299	1,578	3,762	4,989	2,750	5,221	
Geographic region							
Northeast	4,721 5,838 4,107 3,633	502 479 301 296	1,129 1,065 772 795	1,266 1,599 1,045 1,079	639 894 691 525	1,185 1,801 1,297 938	
Geographic divition							
New England	1,327 3,394 4,168 1,670 1,929 820 1,358 709 2,924	162 340 373 106 140 55 107 46 250	369 760 788 278 382 150 240 155 641	382 885 1,149 449 519 190 336 217 862	178 461 625 269 349 140 203 113 413	237 948 1,233 568 540 286 472 179 759	
Standard Federal Administrative Region							
Region 1	1,327 2,261 1,834 2,049 4,521 1,429 1,151 556 2,448 725	162 199 197 139 386 109 84 39 209 55	369 498 404 390 836 246 192 130 545	382 601 473 520 1,255 365 292 165 73	178 284 306 360 685 218 183 82 327	237 678 454 641 1,359 490 400 140 631	
Age of optometrist							
Under 25 years	62 2,004 5,400 6,632 2,601 1,205 396	9 152 252 406 243 325 191	17 476 940 1,199 667 373 90	11 558 1,509 1,843 742 270 56	9 306 907 1,106 311 87 25	18 512 1,791 2,079 638 149 34	
Sex of optometrist							
MaleFemale	17,912 387	1,495 84	3,656 106	4,900 89	2,711 38	5,150 70	
Number of States licensed in							
No States	20 13,920 3,355 1,005	1,299 212 65	7 2,915 652 188	10 3,758 949 271	2,034 551 164	3,913 990 316	
Hours per week usually worked							
1-34 hours	2,153 2,897 4,218 2,330 3,431 3,269	730 178 273 108 162 126	569 747 885 475 616 470	414 857 1,236 638 970 874	159 458 660 385 540 547	281 656 1,165 724 1,143 1,252	

Table 2. Number and percent distribution of optometrists by number of patient visits per week, according to geographic area and selected characteristics of the optometrist; United States, 1968—Con.

to geographic area and selected characterist		Number of patient visits per week					
Geographic area and selected characteristics of		Number	i pacie	lic visi	es per	week	
optometrist	optometrists	Less than 25	25-49	50-74	75-99	100 or more	
		Percent d	istribu	stribution			
United States	100.0	8.6	20.6	27.3	15.0	28.5	
Geographic region							
Northeast	100.0 100.0 100.0 100.0	10.6 8.2 7.3 8.1	23.9 18.3 18.8 21.9	26.8 27.4 25.4 29.7	13.5 15.3 16.8 14.5	25.1 30.8 31.6 25.8	
Geographic division					 		
New England	100.0 100.0 100.0 100.0 100.0 100.0 100.0	12.2 10.0 9.0 6.4 7.2 6.7 7.9 6.5 8.5	27.8 22.4 18.9 16.6 19.8 18.3 17.7 21.8 21.9	28.8 26.1 27.6 26.9 26.9 23.2 24.7 30.5 29.5	13.4 13.6 15.0 16.1 18.1 17.1 15.0 15.9	17.8 27.9 29.6 34.0 28.0 34.8 34.8 25.3 26.0	
Standard Federal Administrative Region							
Region I	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	12.2 8.8 10.7 6.8 8.5 7.7 7.3 7.0 8.6 7.6	27.8 22.0 22.0 19.0 18.5 17.2 16.7 23.4 22.3 20.9	28.8 26.6 25.8 25.4 27.8 25.6 25.4 29.8 30.0 27.7	13.4 12.6 16.7 17.6 15.2 15.2 15.9 14.7 13.4	17.8 30.0 24.8 31.3 30.1 34.3 34.7 25.2 25.8 26.3	
Age of optometrist							
Under 25 years	100.0 100.0 100.0 100.0 100.0 100.0	13.8 7.6 4.7 6.1 9.4 27.0 48.3	26.7 23.8 17.4 18.1 25.7 31.0 22.7	17.3 27.8 28.0 27.8 28.5 22.5 14.1	13.9 15.3 16.8 16.7 12.0 7.2 6.3	28.3 25.5 33.2 31.3 24.5 12.4 8.6	
Sex of optometrist							
MaleFemale	100.0 100.0	8.3 21.6	20.4 27.4	27.4 22.9	15.1 9.9	28.8 18.2	
Number of States licens ! in							
No States	100.0 100.0 100.0 100.0	11.4 9.3 6.3 6.5	33.3 20.9 19.5 18.7	49.9 27.0 28.3 27.0	14.6 16.4 16.3	5.4 28.1 29.5 31.5	
Hours per week usually worked							
1-34 hours	100.0 100.0 100.0	33.9 6.2 6.5 4.7 4.7 3.9	26.4 25.8 21.0 20.4 18.0 14.4	19.2 29.6 29.3 27.4 28.3 26.7	7.4 15.8 15.6 16.5 15.7 16.7	13.0 22.7 27.6 31.1 33.3 38.3	

Table 3. Number and percent distribution of optometrists by number of patient visits per week, according to selected professional characteristics of the optometrist: United States, 1968

This to selected professional characters						
Selected professional characteristics of	Total	Number o	f patie	nt visi	ts per	week
optometrist	optometrists	Less than 25	25-49	50-74	75-99	100 or more
		Number				
United States	18,299	1,578	3,762	4,989	2,750	5,221
Principal form of employment						
Self employed: Solo practicePartnershipGroup practice	13,510 2,178 530	1,254 88 29	3,104 305 60	3,886 526 123	2,024 345 74	3,241 913 244
Employed by: Optometrists Ophthalmologists or other physicians Profit-making firms Nonprofit organizations (including govern-	951 171 636	62 10 50	147 18 83	239 31 134	122 34 89	381 78 - 282
ment)	183 140	50 35	26 19	29 22	41 20	38 44
Number of optometrists in partnership or group practice						
2 optometrists 3 optometrists 4 optometrists or more Not applicable	2,105 421 182 15,592	101 13 3 1,461	306 46 13 3,396	505 100 44 4,340	335 58 27 2,330	859 205 93 4,064
Number of office locations						-
1 office 2 offices	15,083 2,806 410	1,368 181 29	3,097 590 75	4,103 787 98	2,272 421 57	4,243 826 152
Number of patients seen per week						
Less than 25 patients	4,086 6,886 3,719 1,726 1,881	1,578 - - - -	1,549 2,214 - - -	709 2,723 1,556 -	117 988 975 669	133 961 1,188 1,058 1,881
Number of supplementary helpers of all types						
No assistant	3,960 6,655 3,883 3,801	910 408 132 129	1,352 1,511 543 356	1,000 2,134 1,051 803	278 1,132 720 620	420 1,470 1,437 1,894
Number of optometric services rendered						
1-3 services	900 4,075 7,344 5,980	261 532 495 290	216 930 1,509 1,107	186 1,052 2,070 1,680	78 473 1,152 1,047	159 1,089 2,118 1,856
Type of optometric service						
Refractions	18,238 13,780 12,098 1,528 5,907 16,928 14,521 9,128 5,225 7,450 4,735 17,122 15,532 6,610	1,561 1,002 653 127 274 1,244 817 670 352 443 328 1,350 1,128	3,752 2,787 2,254 299 1,012 3,423 2,821 1,917 1,056 1,404 963 3,511 3,115 1,243	4,973 3,878 3,436 376 1,662 4,700 4,080 2,561 1,476 2,040 1,351 4,712 4,285 1,746	2,746 2,219 2,043 230 1,038 2,642 2,343 1,496 875 1,269 2,595 2,402 1,057	5,206 3,894 3,712 496 1,921 4,918 4,460 2,485 1,467 2,294 1,315 4,953 4,602 2,210

Table 3. Number and percent distribution of optometrists by number of patient visits per week, according to selected professional characteristics of the optometrist: United States, 1968—Con.

- or the opto	metrist: Uni	ted Sta	ites, 19	68— Cor	1	
Total	Number o	f patie	nt visi	ts per	week	
optometrists	Less than 25	25-49	50-74	75-99	100 or more	
	Percent d	t distribution				
100.0	8.6	20.6	27.3	15.0	28.5	
100.0 100.0 100.0	9.3 4.0 5.5	23.0 14.0 11.4	28.8 24.2 23.1	15.0 15.9 14.0	24.0 41.9 46.0	
100.0 100.0 100.0	6.5 5.9 7.8	15.5 10.3 13.0	25.2 18.0 21.0	12.9 20.0 13.9	40.0 45.8 44.3	
100.0 100.0	27.4 25.4	14.0 13.3	15.6 15.8	22.2 14.2	20.8 31.4	
100.0 100.0 100.0 100.0	4.9 3.1 1.8 9.4	14.5 10.8 8.0 21.8	24.0 23.6 24.3 27.8	15.9 13.7 14.9 14.9	40.8 48.7 51.0 26.1	
100.0 100.0 100.0	9.1 6.5 7.0	20.5 21.0 18.3	27.2 28.1 23.9	15.1 15.0 13.9	28.1 29.4 37.0	
100.0 100.0 100.0 100.0 100.0	38.6	37.9 32.2	17.4 39.5 41.8	2.9 14.4 26.2 38.7	3.3 14.0 31.9 61.3 100.0	
					;	
100.0 100.0 100.0 100.0	23.0 6.1 3.4 3.4	34.1 22.7 14.0 9.4	25.3 32.1 27.1 21.1	7.0 17.0 18.5 16.3	10.6 22.1 37.0 49.8	
100.0 100.0 100.0 100.0	29.0 13.1 6.8 4.9	24.1 22.8 20.6 18.5	20.7 25.8 28.2 28.1	8.6 11.6 15.7 17.5	17.6 26.7 28.8 31.0	
100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	8.6 7.3 5.4 8.3 4.6 7.3 6.9 7.9 7.9	20.6 20.2 18.6 19.6 17.1 20.2 19.4 21.0 20.2 18.9 20.3 20.5 20.1 18.8	27.3 28.1 28.4 24.6 28.1 27.8 28.1 28.3 27.4 28.5 27.6 26.4	15.1 16.9 15.1 17.6 15.6 16.1 16.4 16.8 17.0 16.4 15.5 16.0	28.5 28.3 30.7 32.4 32.5 29.1 30.7 27.2 28.1 30.8 27.8 28.9 29.6 33.4	
	Total optometrists 100.0	Total optometrists Less than 25	Number of patie Less than 25-49	Total optometrists	Description Continue	

Table 4. Number and percent distribution of optometrists by number of patients seen per week, according to State? United States, 1968

ing to State	: United States	5, 1968		_		
	Total	Number	of pati	en per	week	
State	optometrists	Less than 25	25-49	50-74	75 - 99	100 or more
		Number				
United States,	18,299	4,086	6,886	3,719	1,726	1,881
Alabama	180 17 127 151	23 2 21 31	71 7 52 53	50 4 30 30	15 2 10 14	21 1 14 22
Colorado	2,222 186 258 35 71 493	551 41 71 9 15	767 70 104 18 24 195	447 45 60 5 7	232 13 14 1 18 40	225 16 8 2 7 31
Georgia	261 64 86	39 25 24	87 28 28	57 5 19	37 3 9	42 2 7
Illinois Indiana Iowa Kansas Kentucky	1,602 503 336 229	418 98 53 34 47	577 194 114 99 87	306 112 66 41 50	126 51 50 27 24	175 48 53 29 21
LouisianaMaine	222 116	63 27	91 48	44 22	10 13	15 6
Maryland	174 714 708 353 120 431 89 155 36 70	35 230 87 56 33 92 18 31 9	74 308 285 137 39 170 41 51 14 37	31 105 186 74 27 91 12 38 8 11	23 41 76 33 13 33 9 16 1	12 29 75 54 8 45 9 19
New Mexico	674 71 1,587 320 72 927 245 265 1,133	210 5 249 97 13 172 54 68 325 42	283 38 601 129 32 315 94 96 421 47	103 11 363 59 14 212 45 52 199 27	33 7 160 21 9 103 36 22 106 10	44 9 215 14 5 125 16 27 82 7
South Carolina	155 94 292 740 74 38 272 356 147 428 41	33 27 58 129 17 8 56 82 39 82 82	64 32 100 234 21 17 121 130 55 165 20	31 22 66 154 19 5 55 71 30 89	14 10 28 85 6 4 19 31 13 46	13 3 40 138 12 3 21 42 11 45 3

Table 4. Number and percent distribution of optometrists by number of patients seen per week, according to State: United States, 1968—Con.

						
	T-4-1	Number of patients seen				week
State	Total optometrists	Less than 25	25-49	50-74	75-99	100 or more
		Percent	distrib	ution		
United States	100.0	22.3	37.6	20.3	9.4	10.3
Alabama	100.0	12.6	39.6	27.7	8.2	12.0
A1 act and accompany and a second a second and a second a	100.0	12.5	43.8	25.0	12.5	6.3
Ami cono	100.0	16.5	40.9	23.5	7.8	11.3
A wkanoan	100.0	20.6	35.3	19.9	9.6	14.7
California	100.0	24.8	34.5	20.1	10.5	10.1
Colomado	100.0	22.1	37.8	24.4	7.0	8.7
Connection	100.0	27.6	40.4	23.2	5.6	3.2
D-1	100.0	26.7	50.0	13.3	3.3	6.7
District of Columbia	100.0	20.3	33.9	10.2	25.4	10.2
Florida	100.0	25.0		21.1	8.2	6.2
			22.2	22.7	1/ ,	16 1
Georgia	100.0	14.9	33.3	21.7	14.1	16.1
Name II	100.0	39.3	44.3	8.2	4.9	3.3
7 1 4 5	100.0	27.3		22.1	10.4	7.8
T1111-	100.0	26.1	36.0	19.1	7.9	10.9
7-1/	100.0	19.5	38.6	22.3	10.1	9.4
Tark	100.0	15.8	34.1	19.6	14.8	15.8
V	100.0	14.8	43.1	18.1	11.6	12.5
Vantualis.	100.0	20.6	37.9	22.0	10.3	9.4
7	100.0	28.3		19.7	4.6	6.6
Maine	100.0	22.9		19.3	11.0	5.5
			1	1	l	١
Maryland	100.0	20.0		17.5	13.1	6.9
Vacanahungers	100.0	32.2	43.2	14.7	5.8	4.1
Michican	100.0	12.4	40.2	26.2	10.7	10.5
Minnesta	100.0	15.8	38.8	20.9	9.4	15.2
Mississippi	100.0	27.2	32.5	22.8	10.5	7.0
Micround	100.0	21.3	39.4	21.1	7.8	10.5
Montana	100.0			13.4	9.8	9.8
Nebraska	100.0	19.9		24.7	10.3	12.3
Nebraska	100.0	24.2		21.2	3.0	12.1
New Hampshire	100.0				10.6	6.1
	1					١
New Jersey	100.0				4.9	16.6
Not Vovice	1 100.0	7.3			10.1	13.0
Mary No. 1	1 100.0				10.1	13.9
Newb Camalina	1 100.0				6.4	
Nowth Dakota	100.0	17.5			12.7	6.4
04/-	100.0				11.1	13.5
	1 100.0					6.6
A	1 100.0		36.4	19.6		
Donney Lyon Control of the Control o	1 100.0		37.2	17.6	9.4	
Rhode Island	100.0				7.6	5.0
	4		1 ,, ,	20.0	0.0	
South Carolina	100.0		41.4	20.0	9.0	8.3
0- at Data-ka	100.0					
Tennessee	100.0				11.5	
Texas	100.0	17.4	31.7			
****	1 100.0		28.6			
**	1 100.0					
111 401 - 10	1 100.0					
	1 100.0					
** . **	1 100.0					
	1 100.0	19.2	2 38.6	20.7	10.9	
WISCOURTH-S-C						
Wyoming	100.0		50.0	16.7	5.6	8.

Table 5. Number and percent distribution of optometrists by number of patients seen per week, according to geographic area and selected characteristics of the optometrist: United States, 1968

					,, 1,00	<u> </u>
Geographic area and selected characteristics of	Total	Number	of pati	ients se	en per	week
optometrist	optometrists	Less than 25	25-49	50-74	75-99	100 or more
		Nu	mber			
United States	18,299	4,086	6,886	3,719	1,726	1,881
Geographic region					!	
Northeast	4,721 5,838 4,107 3,633	1,171 1,162 883 870	1,866 2,171 1,536 1,313	894 1,251 844 730	390 580 409 348	400 675 436 371
Geographic division						
New England	1,327 3,394 4,168 1,670 1,929 820 1,358 709 2,924	388 783 858 304 446 161 276 142 728	561 1,305 1,536 635 767 296 473 285 1,029	229 665 905 346 378 193 272 151 580	90 299 402 178 185 78 146 57	58 342 468 207 153 92 191 75 296
Standard Federal Administrative Region		[
Region I	1,327 2,261 1,834 2,049 4,521 1,429 1,151 556 2,448 725	388 458 479 453 913 281 209 123 606 176	561 884 713 771 1,673 511 434 217 861 261	229 466 327 444 979 284 236 119 490 147	90 193 180 190 435 153 126 49 246 65	58 260 135 191 521 201 146 48 245 76
Age of optometrist						ı
Under 25 years	62 2,004 5,400 6,632 2,601 1,205 396	15 434 879 1,236 702 569 251	25 731 2,024 2,588 1,039 383 96	13 419 1,243 1,402 471 141 31	7 208 599 663 190 55	2 212 655 743 200 57
Sex of optometrist						
Male Female	17,912 387	3,940 146	6,753 133	3,666	1,702	1,850 31
Number of States licensed in						
No States	20 13,920 3,355 1,005	7 3,21/ 6 8 5 179	8 5,214 1,284 381	2,804 699 212	1,272 326 128	1 1,414 363 103
Hours per week usually worked						
1-34 hours	2,153 2,897 4,218 2,330 3,431 3,269	878 440 579	627 1,199 1,651 884 1,337 1,188	264 566 882 493 751 764	91 264 402 247 342 380	87 220 405 266 423 480



Table 5. Number and percent distribution of optometrists by number of patients seen per week, according to geographic area and selected characteristics of the optometrist: United States, 1968—Con.

	eles of the op	Number of patients seen per week						
Geographic area and selected characteristics of optometrist	Total optometrists	Less than 25	25-49	50-74	75-99	100 or more		
		Percent d	Percent distribution					
United States	100.0	22.3	37.6	20.3	9.4	10.3		
Geographic region								
Northeast	100.0 100.0 100.0 100.0		39.5 37.2 37.4 36.2	19.0 21.4 20.5 20.1	8.3 9.9 10.0 9.6	8.5 11.6 10.6 10.2		
Geographic division			40.0		6.0	, ,		
New England	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	20.0		17.3 19.6 21.7 20.7 19.6 23.5 20.1 21.2 19.8	9.6 9.6 10.8 8.0	4.4 10.1 11.2 12.4 7.9 11.2 14.1 10.5		
Standard Federal Administrative Region								
Region I	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	22.0 20.2 19.7 18.2 22.2 24.7	39.1 38.9 37.6 37.0 35.7 37.7 39.1	17.3 20.6 17.8 21.7 21.6 19.9 20.5 21.4 20.0 20.2	6.8 8.5 9.8 9.3 9.6 10.7 10.9 8.7 10.1	4.4 11.5 7.4 9.3 11.5 14.0 12.7 8.6 10.0		
Age of optometrist								
Under 25 years	100.0 100.0 300.0 100.9 100.0 100.0	16.3 18.6	36.5 37.5 39.0 39.9 31.8	21.2 18.1 11.7	10.0			
Sex of optometrist								
MaleFemale	100.0 100.0	22.0 37.7	37.7 34.4	20.5	9.5 6.3	10.3		
Number of States licensed in								
No States	100.0 100.0 100.0 100.0	20.4	37.5 38.3	20.1	9.7	10.8		
Hours per week usually worked								
1-34 hours	100.0 100.0 100.0 100.0 100.0	22.4 20.8 18.9 16.9	41.4 39.1 37.9 39.0	19.5 20.9 21.2 21.9	9.1 9.5 10.6 10.0	7.6 9.6 11.4 12.3		

Table 6. Number and percent distribution of optometrists by number of patients seen per week, according to selected professional characteristics of the optometrist: United States, 1968

ing to selected professional character	estics of the c	optometrist:	United	States	, 1968		
Selected professional characteristics of	Total	Number	Number of patients seen p				
optometrist	optometrists	Less than 25	25-49	50-74	75-99	100 or more	
		N	umber		-		
United States	18,299			3,719	1,726	1,881	
Principal form of employment							
Self employed: Solo practice	13,510 2,178 530	3,404 259 61	5,478 729 151	2,571 533 127	1,082 271 60	975 384 132	
Employed by: Optometrists Ophthalmologists or other physicians Profit-making firms Nonprofit organizations (including government)	951 171 636	152 17 84	278 29 164	236 36 163	121 43 88	163 46 138	
Other	183 140	62 48	34 23	27 25	36 2 ·	24 19	
Number of optometrists in partnership or group practice					_		
2 optometrists	2,105 421 182 15,592	279 36 6 3,766	714 117 50 6,006	505 111 45 3,059	257 58 16 1,396	350 100 67 1,365	
Number of office locations						<u> </u>	
1 office	15,083 2,806 410	3,462 556 68	5,678 1,069 140	3,048 590 81	1,407 274 45	1,488 317 76	
Number of patient visits per week							
Less than 25 visits	1,578 3,762 4,989 2,750 5,221	1,578 1,549 709 117 133	2,214 2,723 988 961	1,556 975 1,188	669 1,058	1,881	
Number of supplementary helpers of all types							
None	3,960 6,655 3,883 3,801	1,812 1,459 491 325	1,447 2,912 1,498 1,028	459 1,368 942 952	142 525 464 596	101 392 489 900	
Number of optometric services rendered							
1-3 services	900 4,075 7,344 5,980	356 1,131 1,532 1,068	245 1,463 2,892 2,285	148 727 1,534 1,310	72 327 695 632	78 427 691 685	
Type of optometric service							
Refractions	18,238 13,780 12,098 1,528 5,907 16,928 14,521 9,128 5,225 7,450 4,735 17,122 15,532 6,610 718	4,062 2,903 2,187 311 978 3,575 2,755 1,984 1,046 1,395 941 3,769 3,323 1,239	6,870 5,312 4,724 5332 2,178 5,556 3,523 2,048 5,556 3,523 2,048 1,831 6,541 5,921 2,439	3,710 2,827 2,610 315 1,326 3,521 3,125 1,452 1,118 1,631 1,632 3,509 3,237 1,492	1,723 1,357 1,252 171 680 1,638 1,487 879 493 777 442 1,571 1,466 667	1,874 1,381 1,325 199 744 1,747 1,596 890 521 831 1,585 773 101	

Table 6. Number and percent distribution of optometrists by number of patients seen per week, according to selected professional characteristics of the optometrist: United States, 1968—Con.

Selected professional characteristics of optometrist	Total optometrists	Number of patients seen per week				
		Less than 25	25-49	50-74	75-99	100 or more
`		Percent distribution				
United States	100.0	22.3	37.6	20.3	9.4	10.3
Principal form of employment						
Self employed: Solo practice Partnership Group practice	100.0 100.0 100.0	25.2 11.9 11.5	40.6 33.5 28.5	19.0 24.5 23.9	8.0 12.5 11.3	7.2 17.7 24.9
Employed by: Optometrists Ophthalmologists or other physicians Profit-making firms Nonprofit organizations (including	100.0 100.0 100.0	16.0 9.7 13.2	29.3 16.9 25.7	24.9 21.1 25.5	12.7 25.2 13.9	17.2 27.1 21.7
government)Other	100.0 100.0	33.6 34.0	18.7 16.5	14.8 18.2	19.7 18.1	13.1 13.2
Number of optometrists in partnership or group practice					•	
2 optometrists 3 optometrists 4 optometrists or more Not applicable	100.0	13.2 8.5 3.0 24.2	33.9 27.8 27.2 38.5	24.0 26.3 24.7 19.6	12.2 13.7 8.5 9.0	16.6 23.7 36.5 8.8
Number of office locations						
1 office 2 offices 3 offices or more	100.0 100.0 100.0	23.0 19.8 16.6	37.6 38.1 34.1	20.2 21.0 19.8	9.3 9.8 11.1	9.9 11.3 18.5
Number of patient visits per week						
Less than 25 visits	100.0 160.0 100.0 100.0 100.0	100.0 41.2 14.2 4.3 2.5	58.8 54.6 36.0 18.4	31.2 35.5 22.8	24.3 20.3	- - - 36.0
Number of supplementary helpers of all types						
None	100.0 100.0 100.0 100.0	45.7 21.9 12.6 8.6	36.5 43.8 38.6 27.1	11.6 20.6 24.3 25.0	3.6 7.9 11.9 15.7	2.6 5.9 12.6 23.7
Number of optometric services rendered						
1-3 services	100.0	39.6 27.7 20.9 17.9	27.3 35.9 39.4 38.2	16.5 17.9 20.9 21.9	8.0 8.0 9.5 10.6	8.6 10.5 9.4 11.5
Type of optometric service						
Refractions	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	22.3 21.1 18.1 20.4 16.6 21.1 19.0 21.7 20.0 18.7 19.9 22.0 21.4	37.7 38.6 39.1 34.8 36.9 38.1 38.6 39.2 37.8 38.7 38.7	20.3 20.5 21.6 20.6 22.5 20.3 21.4 21.9 21.8 20.5 20.5	9.5 9.9 10.4 11.2 11.5 9.7 10.2 9.6 9.4 10.4 9.3 9.2 9.2	10.3 10.0 11.0 13.0 12.6 10.3 11.0 9.8 10.0 11.2 10.3 10.1 10.2

Table 7. Number and percent distribution of optometrists by number of supplementary personnel of all types used to assist in practice, according to State: United States, 1968

Shaha	Total optometrists	Number of supplementary personnel of all types				
State		None	1	2	3 or more	
		Numb	Number			
United States	18,299	3,960	6,655	3,883	3,801	
Alabama	180	10	ر ₇	49	46	
AlaskaArizonaArizona	17 127	19	10 53	3	4	
Arkansas	151	27	64	32 40	23 20	
California	2,222	332	833	526	531	
Colorado	186	27	60	42	56	
Connecticut	258	75	99	53	31	
DelawareDistrict of Columbia	35	9	18	6	2	
Florida	71 493	10 58	18 218	11 139	33 77	
Georgia	261	17	110	70	64	
Hawaii	64 86	26 12	21 37	7 26	1 11	
Illinois	1,602	549	458	267	328	
Indiana	503	91	190	118	105	
Iowa	336	48	137	77	75	
KansasKentuckyKentuckyKentucky	229	35	93	63	38	
Kentucky	229	39 46	116 83	43 52	32 41	
Maine	116	32	58	15	ii	
Maryland	174	25	49	36 88	64 60	
Michigan	714 708	291 106	275 230	174	199	
Minnesota	353	65	119	93	76	
Mississippi	120	20	61	30	8	
Missouri	/31	94	145	95	97	
Montana	89 155	19 28	41 64	18 34	10 30	
Nevada	36	8	12	10	7	
New Hampshire	70	14	32	11	14	
New Jersey	674 71	262	244 35	101 24	67 5	
New York	1,587	453	464	283	388	
North Carolina	320	33	162	87	37	
North Dakota	72	10	33	22	7	
OhioOklahoma	927	168	372	183	203	
Oregon	245 265	28 51	123 85	64 65	30 65	
Pennsylvania	1,133	436	357	187	153	
Rhode Island	132	44	46	20	22	
South Carolina	155 94	18 14	74 34	39 28	25 18	
Tennessee	292	36	114	73	68	
Texas	740	61	230	147	302	
Utah	74	5	30	7	33	
Vermont	38	9	14	10	5	
Virginia	272 356	15 63	124 116	67 106	65 72	
West Virginia	147	25	58	46	18	
Wieconein.	428	83	146	91	108	
Wyoming	41	9	16	9		



Table 7. Number and percent distribution of optometrists by number of supplementary personnel of all types used to assist in practice, according to State: United States, 1968—Con.

· · · · ·	Total	Number of supplementary personnel of all types					
State	optometrists	None	1	2	3 or more		
	Pe	ercent di	ercent distribution				
United States	100.0	21.6	36.4	21.2	20.		
labama	100.0	5.7	41.5	27.0	25.		
laska	100.0		56.3	18.8	25.		
rizona	100.0	14.8	41.7	25.2	18.		
rkansas	100.0	17.7	42.7	26.5	13.		
alifornia	100.0	14.9	37.5	23.7	23.		
olorado	100.0	i4.5	32.6	22.7	30.		
onnecticut	100.0	29.2	38.4	20.4	12.		
elaware	100.0	26.7	50.0	16.7	6.		
istrict of Columbia	100.0	13.6	25.4	15.3	45.		
lorida	100.0	11.8	44.3	28.2	15.		
eorgia	100.0	6.4	42.2	26.9	24.		
awaii	100.0	41.0	32.8	11.5	14.		
daho	169.0	14.3	42.9	29.9	13.		
llinois	100.0	34.3	28.6	16.7	20.		
ndiana	100.0	18.0	37.8	23.4	20.		
OW&	100.0	14.2	40.8	22.8	22.		
Ansas	100.0	15.3	40.7	27.3	16.		
entucky	100.0	16.8	50.5	18.7	14.		
ouisiana	100.0	20.7	37.4	23.2	18.		
aine	100.0	27.5	50.5	12.8	9.		
aryland	100.0	14.4	28.1	20.6	36.		
assachusetts	100.0	40.8	38.5	12.4	8.		
ichigan	100.0	14.9	32.5	24.5	28.		
innesota	100.0	18.5	33.6	26.4	21.		
ississippi	100.0	16.7	50.9	25.4	7.		
issouri	100.0	21.8	33.6	22.1	22.		
ontana	100.0	22.0	46.3	20.7	11.		
ebraska	100.0	17.8	41.1	21.9	19.		
evada	100.0	21.2	33.3	27.3	18.		
ew Hampshire	100.0	19.7	45.5	15.2	19.		
ew Jersey	100.0	38.9	36.2	15.0	9.		
ew Mexico	100.0	10.1	49.3	33.3	7.		
ew York	100.0	28.5	29.2	17.8	24.		
orth Carolina	100.0	10.5	50.7	27.4	11.		
orth Dakota	100.0	14.3	46.0	30.2	9.		
hio	100.0	18.1	40.2	19.8	21.		
klahoma	100.0	11.4	50.2	26.2	12.		
regon	100.0	19.2	32.0	24.4	24		
ennsylvania	100.0	38.4	31.5	16.5	13.		
hode Island	100.0	33.6	34.5	15.1	16.		
outh Carolinaouth Dakota	100.0	11.7	47.6 36.4	24.8 29.6	15.		
ennes see	100.0	14.8	39.3	25.1	19. 23.		
exas	100.0	8.3		19.9	40.		
exas			31.1		44.		
6 LWO U C	100.0	6.4	39.7	9.5			
ermontirginia	100.0	22.9	37.1	25.7	14.		
ashington	100.0	5.7	45.8	24.7	23		
est Virginia	100.0	17.6	32.4	29.7	20		
est Virginiaisconsinisconsin	100.0	17.3	39.6 34.1	30.9 21.2	12		
			5/4	71.7	25		
yoming	100.0	19.4	38.9	22.2	16		



Table 8. Number and percent distribution of optometrists by number of supplementary personnel used to assist in practice, according to geographic area and selected characteristics of the optometrist: United States, 1968

ed States, 1968					
Geographic area and selected characteristics of	Total	Number of sup personnel of			
optometrist	optometrists	None	1	2	3 or more
		Num	Number		
United States	18,299	3,960	6,655	3,883	3,801
Geographic region					
Northeast	4,721 5,838 4,107 3,633	1,615 1,290 478 577	1,589 2,022 1,698 1,347	767 1,243 998 875	750 1,284 933 834
Geographic division					
New England Middle Atlantic	1,327 3,394 4,168 1,470 1,929 820 1,358 709 2,924	465 1,150 996 294 212 105 161 106 471	523 1,065 1,396 625 832 366 500 284 1,064	196 571 832 411 501 195 303 168 707	143 608 943 341 385 155 393 152 682
Standard Federal Administrative Region		Ì			
Region I	1,327 2,261 1,834 2,049 4,521 1,429 1,151 556 2,448 725	465 715 521 231 1,062 169 204 84 384 126	523 708 625 930 1,515 535 439 214 918 247	196 384 352 530 925 327 268 126 575 199	143 454 336 357 1,019 398 240 131 570
Age of optometrist					
Under 25 years	62 2,004 5,400 6,632 2,601 1,205 396	19 267 838 1,395 751 481 210	16 695 1,984 2,472 985 399 104	493 1,333 1,416 440 159	22 549 1,245 1,350 425 166 45
Sex of optometrist					
Male Female	17,912 387	3,825 136	6,542 114	3,820 63	3,726 75
Number of States licensed in					
No States	20 13,920 3,355 1,005	3,206 587 164	5,162 1,191 297	7 2,804 814 258	2,749 763 285
Hours per ek usually worked					
1-34 hours	2,153 2,897 4,218 2,330 3,431 3,269	849 586 837 457 660 571	727 1,322 1,562 831 1,212 1,001	317 592 910 508 754 802	260 397 909 534 805 895



Table 8. Number and percent distribution of optometrists by number of supplementary personnel used to assist in practice, according geographic area and selected characteristics of the optometrist: United States, 1968—Con.

	Total	Number of supports of personnel of		plement all ty	ementary	
Geographic area and selected characteristics of optometrist	haracteristics of optometrists None 1	1	2	3 or more		
		ercent dis				
United States	100.0	21.6	36.4	21.2	20,8	
Geographic region						
Northeast	100, 0 100, 0 100, 0 100, 0	34.2 22.1 11.6 _5.9	33.7 34.6 41.3 37.1	16.2 21.3 24.3 24.1	15.9 22.0 22.7 23.0	
Geographic division						
New England	100.0 100.0 100.0 100.0	35.0 33.9 23.9 17.6 11.0 12.8 11.9 15.0	39.4 31.4 33.5 37.4 43.1 44.6 36.8 40.0 36.4	14.8 16.8 20.0 24.6 26.0 23.8 22.3 23.7 24.2	10.8 17.9 22.6 20.4 20.0 18.9 29.0 21.4 23.3	
Standard Federal Administrative Region						
Region I	100.0 100.0 100.0 100.0 100.0	35.0 31.6 28.4 11.3 23.5 11.8 17.7 15.2 15.7	39,4 31,3 34,1 45,4 33,5 37,5 38,1 38,6 37,5	14.8 17.0 19.2 25.9 20.5 22.9 23.3 22.7 23.5	10.8 20.1 18.3 17.4 22.5 27.9 20.8 23.5 23.3 21.0	
Age of optometrist						
Under 25 years	100.0	30.0 13.4 15.5 21.0 28.9 39.9 53.0	26.1 34.7 36.7 37.3 37.9 33.1 26.3	8.7 24.6 24.7 21.3 16.9 13.2 9.4	3 ^x .2 27.4 23.1 20.4 16.3 13.8 11.3	
Sex of optometrist]]				
haleFemale	100.0 100.0	21.4 35.1	36.5 29.3	21.3 16.4	20.8 19.3	
Number of States licensed in						
No States	100.0 100.0 100.0 100.0	16.6 23.0 17.5 16.3	27.3 37.1 35.5 29.6	33.8 20.1 24.3 25.7	22.4 19.8 22.7 28.4	
Hours per week usually worked						
1-34 hours	100.0 100.0 100.0	39.4 20.2 19.9 19.6 19.2 17.5	33.8 45.6 37.0 35.7 35.3 30.6	14.7 20.4 21.6 21.8 22.0 24.5	12.1 13.7 21.6 22.9 23.5 27.4	

Table 9. Number and percent distribution of optometrists by number of supplementary personnel used to assist in practice, according to selected professional characteristics of the optometrist; United States, 1968

states, 1905						
	Total	Number of personnel		pplement f all ty	ntary types	
Selected professional characteristics of optometrist	optometrists	.sts None	1	2	3 or more	
		Num	Number			
United States	18,299	3,960	6,655	3,883	3,801	
Principal form of employment			:			
Self employed: Sole practice	13,510 2,178 530	3,523 155 20	5,799 494 61	2,785 565 120	1,403 963 330	
Employed by Optometrists	951 171 636 183 140	100 19 84 32 27	157 14 78 24 29	203 28 131 31 21	491 110 344 96 64	
Number of office locations						
1 office	15,083 2,806 410	3,388 510 62	5,779 802 74	3,149 677 57	2,767 818 216	
Number of patient visits per week						
Less than 25 visits	1,578 3,762 4,989 2,750 5,221	910 1,352 1,000 278 420	408 1,511 2,134 1,132 1,470	132 543 1,051 720 1,437	129 356 803 620 1,894	
Number of patients seen per week						
Less than 25 patients	4,086 6,886 3,719 1,726 1,881	1,812 1,447 459 142 101	1,459 2,912 1,368 525 392	491 1,498 942 464 489	325 1,028 952 596 900	
Number of optometric services rendered						
1-3 services	900 4,075 7,344 5,980	402 1,427 1,465 666	210 1,268 3,067 2,111	95 588 1,540 1,660	193 792 1,272 1,544	
Type of optometric service						
Refractions Visual field examination Tonometry Aniseikonic testing Biomicroscopy Ophthalmoscopy Contact lens fitting Visual training (orthoptics) Developmental vision Prescribing low vision aids Visual readiness for reading Divensing and adjusting eyeware Frame repairs Fabrication of eyeware Other	18,238 13,780 12,098 1,528 5,907 16,928 14,521 9,128 3,225 7,450 4,735 17,122 15,532 6,610 718	3,947 2,567 1,707 247 536 3,388 2,432 1,646 7,757 1,149 728 3,580 3,144 1,213	6,638 5,253 4,681 510 1,991 6,271 5,432 3,470 1,739 6,366 5,803 2,212 218	3,871 3,145 2,996 385 1,673 3,695 3,421 2,182 1,367 1,190 3,725 3,449 1,483 186	3,783 2,816 2,714 387 1,707 3,575 3,235 1,829 1,142 1,078 3,451 3,136 1,702 217	



Table 9. Number and percent distribution of optometrists by number of supplementary personnel used to assist in practice, according to selected professional characteristics of the optometrist: United States, 1968—Con.

	Total	Number of supplementary personnel of all types				
Selected professional characteristics of optometrist	optometrists	None	1	2	3 or more	
	p	ercent di	stributi	on		
United States	100.0	21.6	36.4	21.2	20.8	
Principal form of employment						
Self employed: Solo practice	100.0 100.0 100.0	26.1 7.1 3.7	42.9 22.7 11.4	20.6 25.9 22.6	10.4 44.2 62.3	
Employed by: Optometrists Ophthalmologists or other physicians Profit-making firms Nonprofit organizations (including government) Other	100.0 100.0 100.0 100.0 100.0	10.6 11.1 13.1 17.5 19.0	16.5 8.4 12.2 13.1 20.5	21.4 16.1 20.6 16.8 14.8	51.6 64.3 54.0 52.6 45.7	
Number of office locations 1 office 2 offices 3 offices or more	100.0 100.0 100.0	22.5 18.2 15.2	38.3 28.6 18.0	20.9 24.1 14.0	18.3 29.1 52.8	
Number of patient visits per week						
Less than 25 visits	100.0 100.0 100.0 100.0 100.0	57.6 35.9 20.1 10.1 8.1	25.8 40.2 42.8 41.2 28.2	8.4 14.4 21.1 26.2 27.5	8.2 9.5 16.1 22.5 36.3	
Number of patients seen per week						
Less than 25 patients	100.0 100.0 100.0 100.0 100.0	44.3 21.0 12.3 8.2 5.4	35.7 42.3 36.8 30.4 20.8	12.0 21.8 25.3 26.9 26.0	8.0 14.9 25.6 34.5 47.8	
Number of optometric services rendered						
1-3 servic s	100.0 100.0 100.0 100.0	44.7 35.0 20.0 11.1	23.3 31.1 41.8 35.3	10.6 14.4 21.0 27.8	21.4 19.4 17.3 25.8	
Type of optometric service						
Refractions	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	21.6 18.6 14.1 16.2 9.1 20.0 16.8 18.0 14.5 15.4 20.9 20.3 18.6	36.4 38.1 38.7 33.4 37.0 37.4 38.0 37.5 36.7 37.2 37.4	21. 2 22. 8 24. 8 25. 2 28. 3 21. 8 23. 6 23. 9 26. 2 25. 1 21. 8 22. 2 22. 4	20.7 20.4 22.4 25.3 28.9 21.1 22.3 20.0 21.9 23.2 22.8 20.2 25.8 30.3	



Table 10. Number and percent distribution of optometrists by number of secretaries and/or receptionists used to assist in practice, according to State: United States, 1968

used to assist in practice, according	to State: Unit	ed States	, 1968			
State	Total	Number	Number of secretaries and/or receptionists			
	optometrists	None	1	2	3 or more	
		Num	Number			
United States	18,299	6,255	7,930	2,797	1,318	
Alabama	180 17 127 151 2,222 186 258 35 71 493	33 32 43 669 56 96 14 19	96 12 65 75 932 81 114 17 28 280	34 1 20 26 401 29 37 5 12 75	17 1 10 7 220 19 10 -	
Georgia	261 64 86 1,602 503 336 229 229 222 116	51 35 30 698 163 106 67 72 74 39	143 19 38 554 246 157 125 117 102 61	50 6 18 227 6 45 31 34 25	17 4 122 28 28 6 6 21 2	
Maryland	174 714 708 353 120 431 89 155 36 70	46 365 203 127 40 145 38 52 13	62 269 288 134 61 183 43 69 20	43 53 146 64 17 64 5 27 1	24 26 71 28 2 40 2 7 2	
New Jersey	674 71 1,587 320 72 927 245 265 1,133	323 19 619 80 16 291 71 83 533 58	255 42 645 189 43 422 124 111 405 50	73 10 198 44 8 139 41 47 141	22 - 124 6 6 75 10 24 54 9	
South Carolina	155 94 292 740 74 38 272 356 147 428 41	40 27 81 137 14 13 54 121 42 153 12	83 39 135 367 33 16 142 136 74 171 21	25 21 52 155 13 4 59 76 24 60	7 7 24 81 14 4 17 24 6 43 2	

Table 10. Number and percent distribution of optometrists by number of secretaries and/or receptionists used to assist in practice, according to State: United States, 1968—Con.

used to assist in practice, according to	State: United	states, i	.900— Con	1.	
State	Total	Number	of secr		and/or
	optometrists	None	1	2	3 or more
	P	ercent di	.stributi	.on	
United States	100.0	34.2	43.3	15.3	7.2
Alabama	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	18.2 18.8 25.2 28.7 30.1 30.2 37.2 40.0 27.1 25.0	53.5 68.8 51.3 50.0 42.0 43.6 44.4 46.7 39.0 56.8	18.9 6.3 15.7 16.9 18.0 15.7 14.4 13.3 17.0 15.3	9.4 6.3 7.8 4.4 9.9 10.5 4.0 - 17.0 3.0
Georgia	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	19.7 54.1 35.1 43.6 32.4 31.5 29.2 31.3 33.3 33.9	54.6 29.5 44.6 48.9 46.6 54.6 50.9 46.0 53.2	19.3 9.8 20.8 14.2 13.1 13.5 13.4 15.0 11.1	6.4 6.6 7.6 5.4 2.8 2.8 1.8
Maryland	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	26.3 51.2 28.7 36.1 33.3 33.6 42.7 33.6 36.4 24.2	35.6 37.7 40.7 37.9 50.9 42.4 48.8 44.5 54.6 50.0	24.4 7.5 20.6 18.2 14.0 14.8 6.1 17.1 3.0 15.2	13.8 3.7 10.1 7.9 1.8 9.3 2.4 4.8 6.1 10.6
New Jersey	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	47.9 26.1 39.0 25.0 22.2 31.4 28.8 31.2 47.0 43.7	37.9 59.4 40.7 59.1 58.7 45.5 50.7 42.0 35.8 37.8	10.8 14.5 12.5 13.9 11.1 15.0 16.6 17.6 12.5 11.8	3.3 7.8 2.0 7.9 8.1 3.9 9.2 4.8 6.7
South Carolina	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	25.5 28.4 27.6 18.6 19.1 34.3 19.8 33.9 28.8 35.9 30.6	53.8 40.9 46.2 49.6 44.4 42.9 52.2 38.2 50.4 39.9 52.8	15.9 22.7 17.8 20.9 17.5 11.4 21.9 21.2 16.6 14.1	4.8 8.0 8.4 10.9 19.1 11.4 6.1 6.7 4.3 10.1



Table 11. Number and percent distribution of optometrists by number of secretaries and/or receptionists used to assist in practice, according to geographic area and selected characteristics of the optometrist: United States, 1968

trist; united States, 1700						
	Total	Number of secretaries and/or receptionists				
Geographic area and selected characteristics of optometrist	optometrist s	None	1	2	3 or more	
		Numl				
				!		
United States	18,299	6,255	7,930	2,797	1,318	
Geographic region						
Northeast	4,721	2,063	1,852	546	259	
North Central	5,838 4,107	2,048 1,020	2,429	899 720	462 273	
South	3,633	1,124	1,554	631	324	
Geographic division						
	1,327	588	546	134	59	
	3,394	1,475	1,306	413	200	
Middle Atlantic	4,168 1,670	1,509	1,681	639 260	339 123	
	1,929	470	1,018	338	105	
	820	225 325	408 669	137 246	50 118	
Hest South Central	1,358	214	344	101	50	
Pacific	2,924	910	1,210	530	274	
Standard Federal Administrative Region						
Region I	1,327	588	546	134	59	
Region II	2,261 1,834	942 709	901	272 284	146 113	
	2,049	519	1,103	331	95	
- 1 · · · · · · · · · · · · · · · · · ·	4,521 1,429	1,636	1,815	703 256	367 118	
Region VI	1,151	369	533	166	82	
D-11 UTTT	556	163	1,035	82 428	51 237	
Region IX	2,448 725	748 237	297	141	49	
Age of optometrist				:		
Under 25 years	62	28	20	8	,	
	2,004	575	834	374	221	
	5,400 6,632	1,642	2,415 2,960	931	412 471	
35-44 years	2,601	988	1,149	3.34	130	
(f 7/ warms	1,205	592 248	448 104	103	61	
75 years and over	396	240	104	-	10	
Sex of optometrist	17,912	6,064	7,805	2,756	1,287	
MaleFemale	387	191	125	40	31	
Number of States licensed in			İ			
No States	20	3	12	2,023	957	
1 State	13,920 3,355	4,888	6,052 1,442	581	256	
2 States or more	1,005	288	423	189	104	
Hours per week usually worked						
1-34 hours	2,153	1,051	808	1 199	1 131	
35-39 hours	4,218	934	1,431	646	339	
	₹ Z.31U	777	1,007	381 563	165 274	
41-44 hours	1 1.41	1,111	1,484	606		
49 nours or more	. 3,207	., = ;		•		



Table 11. Number and percent distribution of optometrists by number of secretaries and/or receptionists used to assist in practice, according to geographic area and selected characteristics of the optometrist: United States, 1968—Con.

Coographic area and activity characteristics of		Number of secretaries and/or receptionists				
Geographic area and selected characteristics of optometrist	Total optometrists	None	1	2	3 or more	
	Pe	rcent di	stributi	on		
United States	100.0	34.2	43.3	15.3	7.2	
Geographic region			·			
Northeast	100.0 100.0 100.0 100.0	35.1 24.8	39.2 41.6 51.0 42.8	11.6 15.4 17.5 17.4	5.5 7.9 6.6 8.9	
Geographic division						
New England	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	36.2 32.3 24.3 27.4	41. 2 38. 5 40. 3 44. 8 52. 8 49. 8 49. 3 48. 5 41. 4	10.1 12.2 15.3 15.6 17.5 16.7 18.1 14.3	7.4 5.4	
Standard Federal Administrative Region						
Region I	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	25.3	41.2 39.8 39.7 53.8 40.2 49.8 46.3 46.7 42.3 41.0	10.1 12.0 15.5 16.2 15.6 17.9 14.5 14.7 17.5	4.5 6.2 4.7 8.1 8.3 7.1 9.7 9.7	
Age of optometrist			:			
Under 25 years	100.0 100.0 100.0 100.0 100.0 100.0	45.6 28.7 30.4 32.9 38.0 49.1 62.8	31.4 41.6 44.7 44.6 44.2 3/.2 26.2	12.3 18.7 17.2 15.4 12.9 8.6 6.9	10.7 11.0 7.6 7.1 5.0 5.1 4.2	
Sex of optometrist						
MaleFemale	100.0 100.0	33.9 49.4	43.6 32.3	15.4 10.4	7.2 7.9	
Number of States licensed in						
No States	100.0 100.0 100.0 100.0	16.6 35.1 32.1 28.7	60.9 43.5 43.0 42.1	17.1 14.5 17.3 18.8	5.5 6.9 7.6 10.4	
Hours per week usually worked						
1-34 hours	100.0 100.0 100.0 100.0 100.0 100.0	48.8 32.2 31.8 33.3 32.4 31.8	37.6 49.4 44.8 43.2 43.2 40.0	9.2 13.9 15.3 16.4 16.4 18.5	4.4 4.5 8.1 7.1 8.0 9.6	

Table 12. Number and percent distribution of optometrists by the number of secretaries and/or receptionists they used to assist in practice, according to selected professional characteristics of the optometrists United states, 1968

ectise (united states, 1700)						
Sologted professional sharpstoristics of aptemptrist	Total	Number of secretaries and/or receptionists				
Selected professional characteristics of optometrist	optometrists	None	1	2	3 or more	
		Num				
United States	18,299	6,255		2,797	1,318	
Principal form of employment						
Self employed: Solo practice	13,510 2,178 530	5,283 419 78	6,245 825 149	1,674 530 143	308 403 161	
Employed by: Optometriets Ophthalmologists or other physicians Profit-making firms Nonprofit organizations (including government) Other	C 51 171 6 36 183 140	195 24 164 50 42	353 32 227 57 43	225 41 130 33 21	178 74 116 44 34	
Number of office locations						
l office	15,083 2,806 410	5,286 856 113	6,827 991 111	2,160 591 46	810 368 140	
Number of patient visits per week						
Less than 25 visits	1,578 3,762 4,989 2,750 5,221	1,032 1,776 1,672 649 1,127	406 1,500 2,381 1,336 2,306	95 361 664 537 1,140	45 125 271 228 649	
Number of patients seen per week						
less than 25 patients	4,086 6,886 3,719 1,726 1,881	2,233 2,338 976 348 359	1,405 3,261 1,753 754 756	325 975 665 393 439	123 312 325 231 327	
Number of supplementary helpers of all types						
None	3,960 6,655 3,883 3,801	3,960 1,391 580 324	5,264 1,717 949	1,586 1,210	1,318	
Number of optometric services rendered						
1-3 services	900 4,075 7,344 5,980	477 1,809 2,310 1,659	268 1,509 3,495 2,658	88 453 1,077 1,179	67 304 463 485	
Type of optometric service						
Refractions	18,238 13,780 12,098 1,528 5,907 16,928 14,521 9,128 5,225 7,450 4,735 17,122 15,532 6,610 718	6,226 4,390 3,390 448 1,444 5,571 4,353 2,964 1,612 2,168 1,480 5,781 5,781 5,075 2,075	7,912 6,209 5,625 664 2,672 7,464 6,572 4,029 2,354 3,352 2,096 7,546 6,860 2,849	2,792 2,207 2,164 297 1,212 2,659 2,455 1,519 905 1,338 832 2,639 2,443 1,116 113	1,308 974 918 119 1,233 1,141 616 354 592 327 1,156 1,032 569	

Table 12. Number and percent distribution of optometrists by the number of secretaries and/or receptionists they used to assist in practice, according to selected professional characteristics of the optometrist: United States, 1968—Con.

					
	Total	Number	of secre	etaries and/or onists	
Selected professional characteristics of optometrist	optometrists	None	1	2	3 or more
	P	ercent di	stributi	on	
United States	100.0	34.2	43.3	15.3	7.2
Principal form of employment					
Self employed: Solo practice	100.0 100.0 100.0	39.1 19.2 14.7	46.2 37.9 28.1	12.4 24.4 27.0	2.3 18.5 30.3
Employed by: Optometrists	100.0 100.0 100.0 100.0 100.0	20.5 14.3 25.8 27.2 29.9	37.1 18.7 35.6 30.9 30.8	23.7 23.9 20.4 17.9 14.9	18.8 43.1 18.2 24.0 24.5
Number of office locations					
1 office	100.0 100.0 100.0	35.1 36.5 27.6	45.3 35.3 27.1	14.3 21.1 11.2	5.4 13.1 34.2
Number of patient visits per week		-			
Less than 25 visits	100.0 100.0 100.0 100.0 100.0	65.4 47.2 33.5 23.6 21.6	25.8 39.9 47.7 48.6 44.2	6.0 9.6 13.3 19.5 21.8	2.9 3.3 5.4 8.3 12.4
Number of patients seen per week					
Less than 25 visits	I IOO O	54.7 34.0 26.3 20.2 19.1	34.4 47.4 47.1 43.7 40.2	8.0 14.2 17.9 22.8 23.3	3.0 4.5 8.7 13.4 17.4
Number of supplementary helpers of all types					
None	100 0	100.0 20.9 14.9 8.5	79.1 44.2 25.0	40.9 31.8	34.7
Number of optometric services rendered					_
1-3 services	100.0 100.0 100.0 100.0	53.0 44.4 31.5 27.7	29.8 37.0 47.6 44.4	9.7 11.1 14.7 19.7	7.5 7.5 6.3 8.1
Type of optometric service					
Refractions	100.0 100.0 100.0 100.0 100.0 100.0	34.1 31.9 28.0 29.3 24.5 32.9 30.0 32.5 30.9 29.1 31.3 33.8 33.5	43.4 45.1 45.5 43.5 44.1 45.1 45.1 45.3 44.1 44.1 44.1	15.3 16.0 17.9 20.5 15.7 16.9 16.6 17.6 17.6 15.4 15.7 15.7	7. 2 7. 1 7. 8 9. 8 7. 3 7. 9 6. 8 6. 8 6. 6 8. 6



Table 13. Number and percent distribution of optometrists by number of general optometric assistants they used to assist in practice, according to State: United States, 1968

they used to assist in practice, according	g to State: Uni	ted Stat	es, 196 8	<u> </u>	
State	Total	Numbet	metric		
	optometrists	None	1	2	3 or more
		Nun	ber		
United States	18,299	14,070	3,011	826	393
Alabama	180 17 127 151 2,222 186 258 35 71 493	138 8 96 112 1,596 135 218 30 58 368	20 7 25 34 458 33 34 5 11	12 1 6 4 114 11 5 2 28	9 53 6 - 1 - 2
Georgia	261 64 86 1,602 503 336 229 229 222 116	190 53 58 1,291 359 229 160 181 168 103	56 7 20 212 104 76 51 33 36 10	11 1 3 57 31 14 15 5 16 2	5 3 4 42 10 17 3 10 2
Maryland	174 714 708 353 120 431 89 155 36 70	149 635 522 271 87 327 64 110 23 63	17 69 136 57 26 68 14 35 10	3 9 28 18 4 27 10 6 3	4 1 23 7 2 9 1 3
New Jersey New Mexico	674 71 1,587 320 72 927 245 265 1,133 132	583 56 1,332 219 54 710 175 204 952 115	71 11 180 78 10 159 50 48 124	12 4 47 21 5 41 18 7 41 3	29 2 3 16 1 6
South Carolina	155 94 292 740 74 38 272 356 147 428 41	118 74 200 480 58 31 197 258 114 309 29	25 14 57 165 9 3 51 64 24 79 9	12 5 21 62 4 2 17 22 5 25	1 13 34 4 1 8 13 3



Table 13. Number and percent distribution of optometrists by number of general optometric assistants they used to assist in practice, according to State: United States, 1968—Con.

they used to assist in practice, according t	State: United	States,	1968—C	on.	
00.00	Total	Number	netric		
State	optometrists	None	1	2	3 or more
	Pe	rcent di	stributio	o n	
United States	100.0	76.9	16.5	4.5	2, 2
Alabama	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	69.9 79.0 75.8 89.0 85.6 89.0 73.6 76.7 72.8 72.0 71.2 63.6 89.4	11.3 43.8 20.0 22.8 20.6 13.2 13.3 15.3 19.4 21.3 20.6 22.5 22.5 21.5 16.2 19.6 19.6 19.6 19.6 19.1 21.9 15.8 27.3 15.9 17.6 17.6 17.6 17.6 17.6 17.6 17.6 17.6	6.34 4.92 5.58 6.64 6.33 6.22 7.18 9.20 9.30 1.92 1.92 1.93 1.93 1.93 1.93 1.93 1.93 1.93 1.93	5.0
North carolina	100.0 100.0 100.0 100.0 100.0 100.0	68.6 74.6 76.7 71.6 76.8 84.0	24.3 14.3 17.2 20.5 18.0 11.0	6.4 6.4 7.4 2.8 3.7 2.5	0.7 4.8 1.7 0.4 2.4 1.4
South Carolina	1 100.0	68.7 64.8 77.8 82.9 72.5 72.4 77.7	15.9 14.8 19.6 22.2 12.7 8.6 18.6 17.9 16.6 18.4 22.2	7.6 5.7 7.3 8.4 4.8 5.1 6.1 3.6 5.8 5.6	0.7 1.1 4.4 4.6 4.8 2.9 3.6 2.2 3.5

Table 14. Number and percent distribution of optometrists by number of general optometric assistants they used to assist in practice, according to geographic area and selected characteristics of the optometrist: United States, 1968

Geographic area and selected characteristics of	Total	Number	of gener	al opto	metric
optometrist	optometrists	None	1	2	3 or more
			ber		
United Chabus	18 2001			2001	
United States	18,299	14,070	3,011	826	393
Geographic region					
NortheastNorth Central	4,721	4,032	510	124	55
South	5,838 4,107	4,416 2,984	1,001 784	272 241	150 9 8
West	3,633	2,637	717	188	91
Geographic division					
New England	1,327	1,166	134	24	3
Middle AtlanticEast North Central	3,394 4,168	2,866 3,191	375 690	100 182	52 105
West North Central	1,670	1,225	310	90	44
South AtlanticEast South Central	1,929 820	1,443	361 137	98 43	27 33
West South Central	1,358	935	285	100	37
MountainPacific	709 2,924	518 2,119	133 584	43 146	16 75
Standard Federal Administrative Region					
Region I	1,327	1,166	134	24	3
Region IIRegion III	2,261 1,834	1,914	251	59 69	36
Region IV	2,049	1,501	232 390	114	32 44
Region VRegion VI	4,521 1,429	3,461	747 296	200 105	113
Region VII	1,151	827	230	62	37 32
Region VIIIRegion IX	556 2,448	1,767	96 500	36 125	16
Region X	725	528	139	33	56 24
Age of optometrist					
Under 25 years	62	41	13	5	3
25-34 years	2,004 5,400	1,394	1,072	126 309	64 141
45-54 years	6,632	5.170	1,039	290	134
55-64 years	2,601 1,205	2,198 1,042	312 119	59 28	31 15
75 years and over	396	347	36	8	4
Sex of optometrist			1		
MaleFemale	17,912 387	13,761 308	2,957	812 14	382 11
Number of States licensed in					
No States	20 13,920	16	3		
State	13,920 3,355	10,850 2,464	2,202 635	587 174	280 82
States or more	1,005	739	170	65	32
Hours per week usually worked					
1-34 hours	2,153 2,897	1,821	252	59	21
40 hours	4.218	2,308 3,267	458 698	98 170	33 84
41-44 hours	2.330	1,736	404	131	59
49 hours or more	3,431 3,269	2,347			
41-44 hours	2,330 3,431	1,736			



Table 14. Number and percent distribution of optometrists by number of general optometric assistants they used to assist in practice, according to geographic area and selected characteristics of the optometrists United States, 1968—Con.

		Number of genera assista			
Geographic area and selected characteristics of optometrist	Total optometrists	None	1	2	3 or more
	Pe	rcent dis	tributio	r	
United States	100.0	76.9	16.5	4.5	2.2
Geographic region					
ortheastoorth Centralouth	100.0 100.0 100.0 100.0	85.4 75.6 72.7 72.6	10.8 17.1 19.1 19.7	2.6 4.7 5.9 5.2	1.2 2.6 2.4 2.5
Geographic division					
New England	100.0	87.9 84.5 76.6 73.4 74.8 74.0 68.9 73.1 72.5	10.1 11.1 16.6 18.6 18.7 16.7 21.0 18.7 20.0	1.8 3.0 4.4 5.4 5.1 5.3 7.4 6.0 5.0	0.2 1.5 2.5 2.7 1.4 4.1 2.7 2.2
Standard Federal Administrative Region					
Region I		87.9 84.7 81.8 73.3 76.6 69.3 71.8 74.4 72.2 72.9	10.1 11.1 12.7 19.1 16.5 20.8 20.0 16.2 20.4 19.2	1.8 2.6 3.8 5.5 4.4 7.3 5.4 6.5	0.2 1.6 2.2 2.6 2.8 2.8
Age of optometrist					
Under 25 years	100.0 100.0 100.0 100.0	65.2 69.6 71.8 78.0 84.5 86.5	20.8 20.9 19.9 15.7 12.0 9.9 9.2	8.7 6.3 5.7 4.4 2.3 2.4 1.9	5. 3. 2. 2. 1. 1.
Sex of optometrist		!			_
Male	100.0	76.8 79.7	16.5 13.8	4.5 3.7	2.
Number of States licensed in					
No States		83.2 78.0 73.5 73.5	15.8 18.9	4.2 5.2 6.4	2.
Hours per week usually worked	1				
1-34 hours	100.0	84.6 79.7 77.4 74.5 75.5 71.8	11.7 15.8 16.6 17.3 17.1 18.7	4.0 5.6 4.6	1. 2. 2. 2.

Table 15. Number and percent distribution of optometrists by number of general optometric assistants they used to assist in practice, according to selected professional characteristics of the optometrist; United States, 1968

Solveted professional phonosperions of enterestrict		Number of general optometric assistants					
Selected professional characteristics of optometrist	Total optometrists	None	1	2	3 or more		
		Number					
United States	18,299	14,070	3,011	826	393		
Principal form of employment							
Self employed: Solo practice	12.510						
Partnership	13,510 2,178 530	10,735 1,467 325	2,171 437 106	477 166 54	127 107 46		
Optometrists	951 171 636 183	680 138 481 140	152 25 73 23	63 1 48 10	57 7 35 10		
Number of office locations	140	104	24	8	4		
1 office	15,083 2,806 410	11,659 2,131 2 8 0	2,548 413 49	635 162 29	241 100 52		
Number of patient visits per week					İ		
Less than 25 visits	1,578 3,762 4,989 2,750 5,221	1,412 3,184 3,902 2,045 3,527	126 463 803 507 1,111	32 84 201 146 363	9 31 84 51 219		
Number of patients seen per week							
Less than 25 patients	4,086 6,886 3,719 1,726 1,881	3,512 5,448 2,709 1,233 1,168	454 1,082 719 326 429	91 261 197 115 162	29 95 94 53 122		
Number of supplementary helpers of all types							
None	3,960 6,655 3,883 3,801	3,960 5,504 2,522 2,084	1,151 951 909	411 415	393		
Number of optometric services rendered	900			20	١,,		
1-) services	900 4,075 7,344 5,980	793 3,535 5,850 3,892	59 351 1,122 1,479	30 102 254 440	19 87 118 169		
Type of optometric service							
Refractions	18,238 13,780 12,098 1,528 5,907 16,928 14,521 9,128 5,225 7,450 4,735 17,122 15,532 6,610	14,020 10,268 8,723 1,062 3,839 12,853 10,766 6,565 3,517 3,199 13,070 11,777 4,947	3,005 2,544 2,440 1,464 2,908 2,676 1,853 1,218 1,542 1,088 2,902 2,693 1,175	821 684 659 98 427 796 736 512 358 401 327 787 740 329	392 283 275 41 177 371 342 198 132 190 121 362 323 159		



Table 15. Number and percent distribution of optometrists by number of general optometric assistants they used to assist in practice, according to selected professional characteristics of the optometrist: United States, 1968—Con.

	7.0.1	Number of general optometric assistants					
Selected professional characteristics of optometrist	Total optometrists	None	1	2	3 or more		
	Per	rcent distribution					
United States	100.0	76.9	16.5	4.5	2.2		
Principal form of employment							
Self employed:				2.6	0.9		
Self employed: Solo practice Group practice Employed by:	100.0 100.0 100.0	79.5 67.4 61.3	20.1 20.0 20.0	3.5 7.6 10.1	4.9 8.7		
Optometrists Opthalmologists or other physicians Profit-making firms Nonprofit organizations (including gov_rnment)	100.0 100.0 100.0 100.0	1.5 1.7 75.6 76.5	16.0 14.8 11.4 12.6	6.6 0.6 7.5 5.5	6.0 3.9 5.5 5.4		
Other	100.0	74.3	17.2	5.4	3.1		
Number of office locations							
1 office	100.0	77.3	16.9	4.2 5.8	1.6		
offices or more	100.0 100.0	75.9 68.4	14.7 12.0	7.0	12.7		
Number of patient visits per week							
Less than 25 visits	100.0 100.0	89.5 84.6	8.0 12.3	2.0 2.2	0.6		
75-99 visits	130.0	78.2 74.4 67.6	16.1 18.5 21.3	4.0 5.3 7.0	1.7 1.9 4.2		
Number of patients seen per week					ļ		
Less than 25 patients	100.0	86.0 79.1 72.8 71.4 62.1	11.1 15.7 19.3 18.9 22.8	2.2 3.8 5.3 6.7 8.6	0.7 1.4 2.5 3.0 6.5		
Number of supplementary helpers of all types			1				
None	100.0	100.0 82.7 64.9 54.8	17.3 24.5 23.9	10.6	10.4		
Number of optometric so vices lendered	100.0		6.5	3.3	2.1		
1-3 services	100.0 100.0 100.0 100.0	88.1 86.7 79.7 65.1	8.6 15.3	2.5	2.2 1.6 2.8		
Type of optometric service	*						
Actions	100.0 100.0 100.0 100.0 100.0 100.0	76.9 74.5 72.1 69.5 65.0 75.9 74.1 71.9 67.3 71.4 67.6 76.3 75.8 74.9 63.1	16.5 18.5 20.2 21.4 24.8 17.2 18.4 20.3 23.3 20.7 23.0 17.0 17.3 17.8 24.5	4.5 5.5 6.4 7.2 4.7 5.1 5.6 9 5.4 4.6 4.8 7.4	2.2 2.1 2.7 3.0 2.4 2.2 2.6 2.1 2.1 2.1		

Table 16. Number and percent distribution of optometrists by number of optometric technicians they used to assist in practice, according to State: United States, 1968

to assist in practice, according to State:	United States	, 1968			
State	Total		ptomet ians	tometric ans	
State	optometrists	None	1	2	3 or more
		Number		-	
United States	18,299	17,649	485	104	62
Alabama	180 17 127 151 2,222 186 258 35 71 493	171 17 122 150 2,144 181 253 35 65 467	6 -2 1 58 4 2 -6 23	14 - 2 - 2	3 - 1 - 5 - - -
Georgia	261 64 86 1,602 503 336 229 229 229	253 61 83 1,540 483 320 218 226 213 113	7 -2 39 15 13 8 3 7	1 1 13 1 - 1 - 2	- 3 - 9 4 3 1 - -
Maryland	174 714 708 353 120 431 89 155 36 70	162 702 678 348 116 420 87 152 36	11 11 21 3 4 10 1 2	1 1 3 1 - -	- 6 1 - 1 -
New Jersey	674 71 1,587 320 72 972 245 265 1,133	664 67 1,518 308 71 903 238 254 1,099	7 3 50 12 - 17 7 10 20 2	2 1 11 - 1 5 - 1 10	1 7 - 1 - 4
South Carolina	155 94 292 740 74 38 272 356 147 428 41	150 94 277 682 70 37 262 341 144 415	5 13 39 1 1 8 13 1	- 1 15 4 - 2 1 1 2	1 3 3 1 1 1 1 1



Table in. Number and percent distribution of optometrists by number of optometric technicians they used to assist in practice, according to State: United States, 1968—Con.

to assist in practice, according to State: Un	ited States, 19	968—Con.			
	Total	Number te	ptomet Lans	ric	
State	optometrists	None	1	2	3 or more
	Perc	ent distri	ibutio	n	-
United States	100.0	96.5	2.7	0.6	0.3
AlabamaAlaska	100.0 100.0	95.0 100.0	3.1	-	1.9
Arizona	100.0	96.5	1.7	0 9	0.9
Arkansas	100.0	99.3	0.7	-	_
Californid	100.0	96.5	2.6	0.6	0.2
Colorado	100.0	97.7	2.3	-	-
Connecticut	100.0	98.4	0.8	0.8	-
Delaware	100.0	100.0	اءَ ۽ ا	-	-
District of Columbia	100.0 100.0	91.5 94.8	8.5	0.4	-
Georgía	100.0 100.0	96.8 95.1	2.8	0.4	4.9
Idaho	100.0	96.1	2.6	1.3	~ .
Illinois	100.0	96.2	2.5	0.8	0.6
Indiana	100.0	95.9	3.0	0.2	0.9
[0Mg	100.0	95.2	3.9	-	1.0
(ansas	100.0	95.4	3.7	0.5	0.5
Kentucky	100.0	98.6	1.4		-
Loui siana	100.0	96.0 98.2	3.0	1.0	-
Maryland	100.0	93.1	6.3	0.6	-
Massachusetts	100.0	98.3	1.5	0.2	
Michigan	100.0	95.7	2.9	0.5	0.9
Minnesotacco	100.0	98.5	0.9	0.3	0.
Mississippi	100.0	96.5	3.5	-	
Missouri	100.0	97.5	2.3	-	0.3
Montana	100.0	98.8	1.2	-	. :
Nebraska	100.0	98.0	1.4	-	0.
NevadaNew Hampshire	100.0	100.0	1.5	-	1 :
·	100.0	98.5	1	_	
New Jersey	100.0	98.5	1.0	0.3	0.3
New Mexico	100.0	94.2	3.2	1.5	۱ ۵
North Carolina	100.0	96.3	3:7	0.7	0.
Worth Dakota	100.0	98.4	3.7	1.6	ļ
Ohio	100.0	97.5	1.9	0.6	0.
Ok l a homa	100.0	96.9	3.1	"-	١ ٠٠
Oregon	100.0	96.0	3.6	0.4	-
Pennsylvania	100.0	96.9	1.8	0.9	0.
Rhode island	100.0	98.3	1.7	-	
South Dakota	100.0	96.6	3.5	-	
South Dakota	100.0	100.0	4.4	0.4	0.
14M125522	100.0	92.2	5.3	2.1	0.
1°X45	100.0	93.7	1.6	4.8	"
(, mont	100.0	97.1	2.9		
Virginia	100.0	96.4	2.8	0.8	1
Washing	100.0	95.8	3.6	0.3	0.
West Virginia	100.0	97.8	0.7	0.7	0.
Wisconsin	100.0	97.0	2.3	0.5	0.3
Wyomin.	100.0	97.2	2.8	-	
		L	1	L	L

Table 17. Number and percent distribution of optometrists by number of optometric technicians they used to assist in practice, according to geographic area and selected characteristics of the optometrist: United States, 1968

Geographic area and selected characteristics of	Total			of optometric	
optometrist	optometrists	None	1	2	3 or more
		Number			
United States	18 200				
CHARLES OCCUPANION OF THE PROPERTY OF THE PROP	18,299	17,649	485	104	62
Geographic region					
Northeast	4,721 5,838 4,107 3,633	4,585 5,642 3,918 3,503	96 138 154 96	27 28 26 23	12 30 9 11
Geographic division		ļ			
New England	1,327 3,394 4,168 1,670 1,929 820 1,358 709 2,924	1,304 3,281 4,019 1,623 1,847 789 1,283 686 2,817	19 77 102 36 74 26 55 15 81	3 24 25 3 8 1 18 7 16	12 22 8 1 4 3 1
Standard Federal Administrative Region					
Region I	1,327 2,261 1,834 2,049 4,521 1,429 1,151 556 2,448 725	1,304 2,182 1,768 1,967 4,367 1,349 1,110 544 2,363 696	19 57 46 74 105 58 33 8 61 25	3 14 14 26 19 1 5 15	- 8 6 4 23 3 6 - 10 1
Age of optometrist					
Under 25 years	62 2,004 5,400 6,632 2,601 1,205 396	62 1,931 5,215 6,389 2,502 1,163 388	55 144 175 75 32 3	11 29 42 13 6	7 12 26 11 4
Sex of optometrist					
MaleFemale	17,912 387	17,274 375	476 9	103 1	60 2
Number of States licensed in					
No States	20 13,920 3,355 1,005	16 13,454 3,209 970	349 108 27	3 70 27 4	47 11 3
Hours per week usually worked			-		
1-34 hours	2,153 2,897 4,218 2,330 3,431 3,269	2,102 2,819 4,080 2,240 3,289 3,118	37 70 99 67 98 113	8 5 21 17 30 23	7 10 7 14 14



Table 17. Number and percent distribution of optometrists by number of optometric technicians they used to assist in practice, according to geographic area and selected characteristics of the optometrist; United States, 1968—Con.

		Number of optometric technicians				
Geographic area and selected characteristics of optometrist	Total optometrists	None	1	2	3 or more	
	Perc	ent distr	ibut10	า		
United States	100.0	96.5	2.7	0.6	0.3	
Geographic region						
NortheastNorth CentralSouth	100.0 100.0 100.0 100.0	97.1 96.6 95.4 96.4	2.0 2.4 3.8 2.6	0.6 0.5 0.6 0.6	0. 0. 0. 0.	
Geographic division						
New England	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	98.3 96.7 96.4 97.2 95.7 96.2 94.5 96.7 96.4	1.5 2.3 2.5 2.2 3.8 3.1 4.0 2.2 2.8	0.2 0.7 0.6 0.2 0.4 0.1 1.3 1.0	0.4 0.5 0.5 0.1 0.5 0.2 0.2	
Standard Federal Administrative Region						
Region I	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	98.3 96.5 96.4 96.6 94.4 96.5 97.8 96.5 96.0	1.5 2.5 2.5 3.6 2.3 4.0 2.9 1.4 2.5 3.4	0.2 0.6 0.3 0.2 0.6 1.3 0.1 0.8 0.6	0.4 0.2 0.2 0.3 0.4 0.6	
Age of optometrist	İ					
Under 25 years	100.0 100.0 100.0 100.0 100.0 100.0	100.0 96.4 96.6 96.3 96.2 96.5 98.0		0.6 0.5 0.6 0.5 0.5	0.2	
Sex of optometrist						
MaleFemale	100.0	96.4 96.9	2.7	0.6 0.3	0.	
Number of States licensed in						
No States	1 100 0	83.1 96.7 95.7 96.5	2.5 3.2 2.7	16.9 0.5 0.8 0.4	0. 0. 0.	
Hours per week usually worked			ĺ			
1-34 hours	1 100 O	97.6 97.3 96.7 96.1 95.9 95.4	1.7 2.4 2.4 2.9 2.9 3.5	0.4 0.2 0.5 0.7 0.9	0. 0. 0.	



Table 18. Number and percent distribution of optometrists by number of optometric technicians they used to assist in practice, according to selected professional characteristics of the optometrist:

United States, 1968

AND THE RESIDENCE OF THE PROPERTY OF THE PROPE					
Selected professional characteristics of optometrist	Total	Number	r of c		tric
	optometrists	None	1	2	3 or more
		Number	•		1
United States	18,299	17,649	485	104	:
Principal form of employment					 ===
Self employed:	ı	1			İ
Solo practicePartnership	13,510	13,251	225	. 21	13
Group practice	2,178 530	1,990 472	131	. 39 15	
Employed by: Optometrists	1	ļ	1	1,	
Orbithalmologists or other physicians	951 ' 171 .		43	18 1	10 1
Prolit-making firmsNonprotit organizations (including government)	636	600	23	9	4
Other	183 140	168 132	7	2	6 1
Number of office locations	140	, 132	,	_	
l office	15,083	14.583	385	74	42
2 offices3 offices or more	2,806 410	14,583 2,675 391	92 8	29	10
Number of patient visits per week	410	7771		1	10
Less than 25 visits					
25 49 visits	1,578 3,762				
50-74 visits	4.989	4,849	113	19,	9
100 visits or more	2,750 5,221	2,650 4,913	75 221	19 48	5 39
Number of patients seen per week	-,,	,,,,,,			3,
Less than 25 patients25-49 patients	4,086		47	11	5
50-74 patients	6,886 3,719				
75-99 patients	1,726	3,568 1,632	109 70		13 9
100 patients or more	1,881	1,734	102	24	21
Number of supplementary helpers of all types None			t	į	
l assistant	3,960 ° 6,655 °	3,960 6,633	22	<u>- i</u>	-
2 assistants3 assistants or more	3,883	3,745	132		-
	3,801	3,310	330 1	98	62
Number of optometric services rendered	:	ļ		1	
1-3 services	900	878	12		6
7-9 services	4,075 7,344	3,944 7,140	92:		12 26
10 services or more	5,980	5,688		42	18
Type of optometric service				ĺ	
Refractions	18,238		485	104	62
Visual field examinationTonometry	13,780 12,098	13,277	386 361	73	44
Aniseikonic testing	1,528!	1.438	75	75	33 8
BiomicroscopyOphthalmoscopy	5,907 16,928	5,608	242 455	40 96	17
Contact lens fitting	14,521	13,973	409	85	55 53
Visual training (orthoptics)	9,128 5,225	8,785 5,009	272 170	46 32	25 14
Prescribing low vision aids	7,450	7,127	250	49	24
Visual readiness for reading	4,735 17,122	4,518	169 451	26 97	22 53
Frame repairsFabrication of eveware	15,532	14.988	411	83	50
Other	6,610 718	6,319	222	41	27
	1011	0/0	23	14	1

Table 18. Number and percent distribution of optometrists by number of optometric technicians they used to assist in practice, according to selected professional characteristics of the optometrist. United States, 1968—Con.

	Total	Number of optometric technicians					
Selected professional characteristics of optometrist	optometrists	None	1	2	3 or more		
	Į.	Percent distribution					
United States	100.0		2.7		0.3		
Principal form of employment		1					
Self employed:	!				,		
Solo practice	100.0	98.1	6.0				
Partnership	100.0	89 0	6.8	2 7	1.5		
Employed by:	1	. 07.0	v. 0	/	•		
(intometrists	100.0	92.6	4.5	1.9	1.1		
Ophthalmologists or other physicians	100.0	91.0	7.7	0.6	0.0		
Profit-making firms	100.0	94.2	3./	1.4	0.		
Nonprofit organizations (including government)	100.0	94.5	3.6	1.2	3.5		
	100.0	34.3	7.		. 0.0		
Number of office locations	1	1					
l office	100.0	96.7	2.6	0.5	0.3		
2 offices	100.0	95.3	1.9	1.0	0.4		
3 offices or port	100.0	95,4	1.9	0.5	2.5		
Number of patient visits per week	1	1			1		
Less than 25 visits	100.0	97.9	1.5	0.4	0.		
25-49 visits	100.0	98.1	1.4	0.4	0.		
75-99 visits	100.0	97.2	2.3	0.4	0.		
100 visits or more	100.0	94.1	4.2	0.4	0.2		
	1	11	'	1			
Number of patients seen per week	100.0	00.4			· •		
Less than 25 patients25-49 patients	100.0	98.4	1.2	0.3	0.1		
23-49 patients	100.0	1, Q5 Q	1 2 9	108	0.4		
23-49 patients	100.0	94.5	4.1	0.9	0.		
100 patients or more	100.0	92.2	5.4	1.3	1.		
Number of supplementary helpers of all types	1	ï	İ		1		
None	100.0	100.0	; _				
1	100.0		0.3	1 -	1		
2 appietants	100.0	96.5 87.1	3.4	0.1			
3 assistants or more	100.0	\$ 87.1	8.7	2.6	1.0		
Number of optometric services rendered		1	1		1		
1-3 services	100.0	97.5	1.3	0.5	0.		
/ 6 a.m./a	100.0	96.8	1 2 3	0.7	. 0		
7-9 services	100.0	97.2	2.0	0.4	; 0.		
10 services or more	100.0	95.1	3.9	, 0.7	0.		
Type of optometric service		1			į		
Refractions	100.0	96.4	2.7	0.6	0.		
Minus field evening tion	100.0	96.4			0.		
m	' 100 O	96.1	3.0		0.		
Aniseikonic testing	100.0	94.1	4.9	0.5	0.		
Aniseikonie testing	100.0			0.7	0.		
Contact lang fifting	, , , , , , , , , , , , , , , , , , , ,			0.6	0.7		
!!!	. , , , , , , , , , , , , , , , , , , ,	96.2	3.0	0.5	ŏ.		
Dove language 1 Winter and 1	: 100 O	95.9	3.3	0.6	0.		
Describbe las sides olde	100 0	95.7		10.7	0.		
Misusl medians for roading	. 100 0		3.6	0.6	0.		
Visual readiness for reading Dispensing and adjusting eyeware Frame repairs	1 100 0		1 2 7	0.6	0.		
Frame repairs	100.0	95.6		0.6	ŏ.		
Other	100.0	94.4	3.5	2.0	0.		
		<u> </u>	<u> </u>	1			



Table 19. Number and percent distribution of optometrists by number of dispensing opticians they used to assist in practice, according to State: United States, 1968

to assist in practice, according to State:	United States	, 1900			
Shaha	Total	Numbe	er of di opticia		ing
State	optometrists	None	1	2	3 or more
		Number	;		
United States	18,299	16,068	1,389	451	391
Alabama	130 17 127 151 2,222 186 258 35 71 493 261 64	157 16 112 143 1,960 152 244 35 47 428 224 63 85	15 10 8 144 22 12 13 58 25 1	2 2 41 4 1 - 4 6 4 4 1	6 -2 77 8 - 7 - 8
	1,602 503 336 229 229 222 116	1,442 433 300 206 214 190 110	96 46 19 20 11 16 4	41 11 10 2 4 6	23 13 6 1 - 10
Maryland	174 714 708 353 120 431 89 155 36 70	123 665 584 291 119 373 84 129 33 65	19 38 84 36 1 38 4 1/ 3	14 8 23 16 - 11 - 6	19 3 17 10 - 10 - 2 -
New Jersey	674 71 1,587 320 72 927 245 265 1,133	636 65 1,252 316 69 807 243 225 1,071	28 5 203 2 - 62 2 24 47 6	10 1 66 1 3 26 - 10 12 2	66 - 32 - 6 3
South Carolina	155 94 292 740 74 38 272 356 147 428 41	149 82 269 518 61 38 255 312 143 369 35	5 10 20 100 7 - 12 32 4 46 6	1 1 78 5 - 2 5 - 8	1 1 44 1 - 2 6



Table 19. Number and percent distribution of optometrists by number of dispensing opticians they used to assist in practice, according to State: United States, 1968—Con.

State	Total			of dispensing		
	optometrists	None	1	2	3 or more	
	Perce	ent distr	ent distribution			
United States	100.0	87.8	7.6	2.5	2.1	
AlabamaAlaska	100.0	87.4	8.2	1.3	3.1	
Arizona	100.0 100.0	93.8 88.7	6.3 7.8	1.7	1.7	
Arkansas	100.0	94.9	5.2	* -	1	
California	100.0	88.2	6.5	1.9	3.5	
Colorado	100.0	82.0	11.6	2.3	4.1	
Del aware-	100.0 100.0	94.8	4.8	0.4	-	
District of Columbia	100.0	66.1	18.6	5.1	10.2	
Florida	100.0	86.9	11.8	1.3		
Georgia	100.0	85.5	9.6	1.6	3.2	
Hawaii	100.0	98.4	1.6	-	-	
Illinois	100.0 100.0	98.7 90.0	1.3	2.5	1.5	
Indiana	100.0	86.1	9.2	2.2	2.6	
Towa	100.0	89.4	5.8	2.9	1.9	
KansasKentucky	100.0	89.8	8.8	0.9	0.5	
Kentucky	100.0 100.0	93.5	4.7 7.1	1.9	1.6	
Maine	100.0	85.9 95.4	3.7	0.9	4.6	
Maryland	100.0	70.6	10.6	8.1	10.6	
Massachusetts	100.0	93.1	5.3	1.1	0.5	
Michigan	100.0 100.0	82.5	11.9 10.3	3.2	2.4	
Mississippi	100.0	82.4 99.1	0.9	4.6	2.7	
Missouri	100.0	86.5	8.8	2.5	2.3	
Mont ana	100.0	95.1	4.9	-	-	
Nebraska	100.0	83.6	11.0	4.1	1.4	
Nevada New Hampshire	100.0 100.0	90.9 92.4	9.1 4.6	1.5	1.5	
New Jersey	100.0	94.4	4.1	1.5	-	
New MexicoNew York	100.0	93.1	7.3	1.5	, -	
North Carolinannannannannannannannannannannannannan	100.0 100.0	78.9 99.0	12.8	4.2 0.3	4.2	
North Dakota	100.0	95.2	1	4.8	_	
Ohi	100.0	87.1	6.7	2.8	3.5	
Okiahoma	100.0	99.1	0.9	-	-	
Oregon	100.0	84.8	9.2	3.6	2.4	
Rhode Island	100.0 100.0	94.5 94.1	4.2	1.1	0.3	
South Carolina	100.0	95.9	3.5	0.7	-	
Sout Vakotas	100.0	87.5	10.2	1.1	1.1	
Te .	100.0 100.0	92.4 70.0	13.6	0.4	0.4	
	100.0	82.5	9.5	6.4	1.6	
100000000000000000000000000000000000000	100.0	100.0	-	-	-	
'. vgi Di 2	100.0	93.9	4.5	0.8	0.8	
Asshington	100.0	87.6	9.1	1.5	1.8	
Wisconsin	100.0 100.0	97.1 86.4	2.9	1.8	1.0	
Wyoming	100.0	86.1	13.9	***	***	
		L	i	L	<u> </u>	

Table 20. Number and percent distribution of optometrists by number of dispensing opticians they used to assist in practice, according to geographic area and selected characteristics of the optometrist: United States, 1968

Tota		Number of dispensing opticians				
Geographic area and selected characteristics of optometrist	optometrists	None	1	2	3 or more	
	<u>-</u>	Number				
United States	18,299	16,068	1,389	451	391	
Geographic region						
Northeast	4,721 5,838 4,107 3,633	4,205 5,086 3,574 3,204	341 476 312 261		74 120 97 100	
Geographic division						
New England	1,327 3,394 4,168 1,670 1,929 820 1,358 709 2,924	1,246 2,958 3,635 1,450 1,721 759 1,094 628 2,576	63 278 335 140 139 47 126 58 203	13 88 107 50 33 8 84 12 56	4 69 90 30 36 7 54 11 90	
Standard Federal Administrative Region						
Region I	1,327 2,261 1,834 2,049 4,521 1,429 1,151 556 2,448 725	1,246 1,888 1,675 1,876 3,926 1,159 1,008 484 2,168 638	63 231 95 138 372 131 94 48 158	13 76 32 20 123 85 29 14 43 15	4 66 31 15 99 54 19 10 79	
Age of optometrist		<u> </u>				
Under 25 years	62 2,004 5,400 6,632 2,601 1,205 396	53 1,696 4,692 5,871 2,303 1,081 373	3 186 454 470 183 75 20	2 55 146 147 78 22 1	4 68 109 145 36 27	
Sex of optometrist					l	
Male	17,912 387	15,735 333	1,354	440 11	383 8	
Number of States licensed in						
No States	20 13,920 3,355 1,005	18 12,295 2,928 827	1 1,023 271 94	319 84 48	283 71 35	
Hours per week usually worked		}				
1-34 hours	2,153 2,897 4,218 2,330 3,431 3,269	2,015 2,667 3,596 1,996 2,953 2,841	92 147 357 205 291 298	29 44 132 67 106 74	18 39 134 62 82 56	



Table 20. Number and percent distribution of optometrists by number of dispensing opticians they used to assist in practice, according to geographic area and selected characteristics of the optometrist: United States, 1968—Con.

	Total	Number of dispensing opticians				
Geographic area and selected characteristics of optometrist	optometrists	None	1	2	3 or more	
	Perce	nt distr	ibution			
United States	100.0	87.8	7.6	2.5	2.1	
Geographic region						
Northeast	100.0 100.0 100.0 100.0	89.1 87.1 87.0 88.2	7.2 8.2 7.6 7.2	2.2 2.7 3.0 1.9	1.6 2.1 2.4 2.8	
Geographic division						
New England	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	93.9 87.2 87.2 86.8 89.2 92.6 80.6 88.5	8.1 8.4 7.2	1.0 2.6 2.6 3.0 1.7 0.9 6.2 1.7	0.3 2.1 2.2 1.8 1.9 0.8 4.0 1.5 3.1	
Standard Federal Administrative Region						
Region I	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	93.9 83.5 91.3 91.6 86.9 81.1 87.6 87.1 88.6 88.0		1.0 3.4 1.8 1.0 2.7 6.0 2.5 2.4 1.8 2.1	0.3 2.9 1.7 0.7 2.2 3.8 1.7 1.8 3.2	
Age of optometrist				1,		
Under 25 years	100.0 100.0 100.0 100.0 100.0 100.0	84.2 84.6 86.9 38.5 88.6 89.7 94.4	9.3 8.4 7.1	3.6 2.7 2.7 2.2 3.0 1.8 0.3	7.0 3.4 2.0 2.2 1.4 2.3 0.3	
Sex of optometrist						
MaleFemale	100.0	87.9 86.0		2.5	2.1	
Number of States licensed in		11				
No States	100.0 100.0 100.0 100.0	88.5 88.3 87.3 82.3	5.8 7.4 8.1 9.4	2.3 2.5 4.7	5.8 2.0 2.1 3.5	
Hours per week usually worked		l				
1-34 hours	100.0 100.0 100.0 100.0 100.0 100.0	93.6 92.1 85.2 85.7 86.1 86.9	4.3 5.1 8.5 8.8 8.5 9.1	1.3 1.5 3.1 2.9 3.1 2.3	0.8 1.4 3.2 2.7 2.4 1.7	

Table 21. Number and percent distribution of optometrists by number of dispensing opticians they used to assist in practice, according to selected professional characteristics of the optometrist: United States, 1968

	Total			ber of dispensi opticians				
Selected professional characteristics of optometrist	optometrists	None	1	2	3 or more			
		Numb	Number					
United States	18,299	16,068	1,389	451	391			
Principal form of employment	_							
Self employed: Solo practice	13,510 2,178 530	12,757 1,741 363	611 282 86	99 88 40	43 66 42			
Optometrists	951 171 636 183 140	578 97 311 119 101	190 31 146 26 18	101 18 88 11 7	82 26 91 27 14			
Number of office locations 1 office 2 offices	15,083 2,806 410	13,366 2,410 292	1,115 234 41	350 81 21	253 82 56			
Number of patient visits per week	1				, ,			
Less than 25 visits	1,578 3,762 4,989 2,750 5,221	1,504 3,572 4,491 2,386 4,116	57 125 339 209 659	6 37 93 66 249	11 29 67 89 196			
Number of patients seen per week								
Less than 25 patients	4,086 6,886 3,719 1,726 1,881	3,923 6,270 3,144 1,369 1,362	121 441 375 192 260	16 119 109 67 139	26 56 91 98 120			
Number of supplementary helpers of all types None	3,960 6,655 3,883 3,801	3,960 6,549 3,431 2,128	106 425 858	28 423	391			
Number of optometric services rendered								
1-3 services	900 4,075 7,344 5,980	731 3,431 6,550 5,356	.76 337 504 472	49 159 159 85	44 149 131 68			
Type of optometric service								
Refractions- Visual field examination- Tonometry	16.238 13.780 12.098 1,528 5,907 16,928 14,521 9,128 5,225 7,450 4,735 17,122 15,532 6,610 718	12,355 10,726 1,360 5,164 14,872 12,744 8,354 4,766 6,609 4,307 15,147 13,765 5,605	1,386 958 925 125 520 1,284 1,126 551 348 576 310 1,278 1,168 690 55	450 254 254 20 121 419 358 118 56 133 60 390 335 159	389 214 193 24 103 353 293 105 54 132 58 307 263 155			



Table 21. Number and percent distribution of optometrists by number of dispensing opticians they used to assist in practice, according to selected professional characteristics of the optometrist: United States, 1968—Con.

	Total		er of di optici	ng	
Selected professional characteristics of optometrist	optometrists	None	1	2	3 or more
	Per	cent dis	tributio	n	
United States	100.0	87.8	7.6	2.5	2.1
Principal form of employment					
Self employed: Solo practice Partnership Group prac: ice	100.0 100.0 100.0		4.5 12.9 16.1	0.7 4.0 7.5	0.3 3.0 7.8
Employed by: Optometrists	100.0 100.0 100.0 100.0 100.0	64.8	19.9 17.9 23.0 14.3 12.7	10.7 10.3 13.8 6.0 4.7	8.6 15.2 14.4 14.9 10.2
Number of office locations 1 office 2 offices	. 100.0 100.0 100.0	88.6 85.9 71.3	7.4 8.3 9.9	2.3 2.9 5.1	1.7 2.9 13.7
Number of patient visits per week Less than 25 visits	100.0	95.3 94.9 90.0 86.8 78.8	3.6 3.3 6.8 7.6 12.6	0.4 1.0 1.9 2.4 4.8	0.7 0.8 1.3 3.2 3.8
Number of patients seen per week Less than 25 patients		96.0 91.1 84.5 79.3 72.4		0.4 1.7 2.9 3.9 7.4	0.6 0.8 2.5 5.7 6.4
Number of supplementary helpers of all types None	1 100.0	100.0 98.4 88.4 56.0	1.6 10.9 22.6	0.7 11.1	10.3
Number of optometric services rendered 1-3 services	100.0 100.0 100.0 100.0	81.3 84.2 89.2 89.6	8.4 8.3 6.9 7.9	5.4 3.9 2.2 1.4	4.9 3.7 1.8 1.1
Type of optometric service Refractions	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	91.5 91.2 88.7 91.0 88.5 88.6 84.8	7.6 7.0 7.7 8.2 8.8 7.6 7.8 6.0 6.7 7.5 7.5 7.5	2.5 1.8 2.1 1.3 2.0 2.5 1.3 1.1 1.8 2.3 2.2 2.4	2.1 1.6 1.6 1.7 2.1 2.0 1.2 1.0 1.8 1.7 2.4 1.9

Table 22. Number and percent distribution of optometrists by number of contact lens technicians they used to assist in practice, according to State: United States, 1968

used to assist in practice, according to Sta	te: United Sta	tes, 1968				
State	Total	Number of contactechnicians			lens	
~ 	optometrists	None	1	2	3 or more	
		Number	Number			
United States	18,299	17,784	418	61	37	
Alabama	180 17 127 151 2,222 186 258 35 71 493	174 17 125 150 2,151 179 258 35 68 481	5 - 1 62 5 - 4 5	1	- 1 - 3 - - - 5	
Georgia- Hawaii- Idaho Illinois- Indiana Iowa- Kansas Kentucky Louisiana Maine	261 64 86 1,602 503 336 229 229 222 116	258 63 86 1,531 481 319 224 228 216 116	3 1 52 16 15 4 1	10 3 1 1 - 1	- - 8 3 1 - -	
Maryland	174 714 708 353 120 431 89 155 36 70	168 710 692 335 120 418 89 151 34 70	5 3 16 15 - 6 - 3 2	1 1 - 2 - 4 - 1	1 2	
New Jersey	674 71 1,587 320 72 927 245 265 1,133 132	665 71 1,546 319 72 898 241 262 1,104 130	8 -35 1 -24 3 2 24 2	1 - 2 - 4 1 - 4 -	3 	
South Carolina	155 94 292 740 74 38 272 356 147 428 41	151 92 283 681 71 38 265 345 146 419	4 1 6 53 1 - 6 9 1 6	- - - - 1 3 - 1	1 1	

Table 22 Number and percent distribution of optometrists by number of contact lens technicians they used to assist in practice, according to States United States, 1968—Con.

St. No.	Fot al	Number of contact len					
State	optometrists	None	1	2	3 or more		
	Perce	nt distr	nt distribution				
United States	190.0	97.2	2.3	0.3	0.2		
Alab maAlaska	100.0 100.0 100.0 100.0	96.9 100.0 99.1 99.3	2.5	0.6	0.9		
Calitornia	100.0 100.0 100.0 100.0	96.8 96.5 100.0 100.0	2.8	0.2 0.6 -	0.2		
District of Columbia	100.0	95.9 97.6	5.1	0.2	1.1		
Georgia	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	98.8 98.4 100.0 95.6 95.5 94.9 97.7 99.5 100.0	1.2 1.6 3.3 3.2 4.5 1.9 0.5 2.0	0.7 0.6 0.3 0.5	0.5		
Marviand	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	96.3 99.4 97.7 94.9 100.0 97.0 100.0 97.3 93.9 100.0	3.1 0.5 2.3 4.2 1.5 2.1 6.1	0.6 0.2 0.6 1.0	0.3		
New Jersey	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	98.7 100.0 97.4 99.7 100.0 96.9 98.3 98.8 97.4 98.3	1.2 2.2 0.3 - 2.5 1.3 0.8 2.1 1.7	0.2 0.1 0.5 0.4 0.4	0.2 0.1 0.4 0.1		
South Carolina	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	97.2 97.7 97.1 92.1 95.2 100.0 97.6 96.7 99.3 98.0 100.0		0.7 1.6 0.4 0.9	1.1 0.7 1 6		

Table 23. Number and percent distribution of optometrists by number of contact lens technicians they used to assist in practice, according to geographic area and selected characteristics of the optometrist: United States, 1968

Geographic area and selected characteristics of	Geographic area and selected characteristics of Total		Number of con technici		
optometrist	optometrists	None	1	2	3 or more
		Number			
United States	18,299	17,784	418	61	37
•		-	410		
Geographic region					
NortheastNorth Central	4,721	4,635	72	9	5
South	5,838	5,631	1.60	29	19
West	4,107 3,633	3,984	104	12	7
	3,633	3,533	82	11	7
Geographic division					
New England Middle Atlantic	1,327	1,320	5	1	_
East North Central	3,394	3,315	67	8	5
West North Central	4,168	4,021	115	19	14
South Atlantic	1,670 1,929	1,610 1.891	45 29	10 3	5
East South Central	1,323	805	12	1	2
West South Central	1,358	1,288	62	8	-
MountainPacific	709	696	9	2	2
	2,924	2,838	73	9	4
Standard Federal Administrative Region					
Region I	1,327	1,320	5	1	
Region II	2,261	2,211	43	3	3
Region IVRegion IV	1,834	1,787	39	7	1
Region V	2,049	2,014	26	2	7
Region VI	4,521 1,429	4,356	130 62	21	15
Region VII	1,151	1,359	29	8	3
Region VIII	7556	1,544	8	2	2
Region IXRegion X	2,448	2,374	65	5]	4
	725	710	11	3	1
Age of optometrist		l			
Under 25 years	62	58	3	_	1
25-34 years	2,004	1,932	56	9	ŝ
35-44 years45-54 years	5,400	5,246	131	13	10
55-64 years	6,632 2,601	6,444	151	24	13
65-74 years	1,205	2,541 1.174	50 23	8 4	2 3
75 years and over	396	389	4	2	-
Sex of optometrist			ŀ		
Male	17,912	17,415	404	58	35
Female	387	369	13	2	2
Number of States licensed in]	
No States	20	19	1	_	_
1 State	13,920	13,545	314	43	18
2 States3 States or more	3,355	3,260	67	14	18 14
į	1,005	961	35	3	5
Hours per week usually worked					
1-34 hours	2,153	2,111	31	7	4
35-39 hours	2.897	2,854	39	i	2
41-44 hours	4,218 2,330	4,098	98	12	11
45-48 hours	2,330 3,431	2,256 3,309	63	9	3 8
49 hours or more	3,269	3,309	99 88	16 16	8 9
,	3,209 []	3,130	00	10	7

Table 23. Number and percent distribution of optometrists by number of contact lens technicians they used to assist in practice, according to geographic area and selected characteristics of the optometrist: United States, 1968—Con.

	Total		Number of con technici		lens	
Geographic area and selected characteristics of optometrist	optometrists	None	1	2	3 or	
	Perce	nt distr	nt distribution			
United States	100.0	97.2	2.3	0.3	0.2	
Geographic region						
	100.0	98.2	1.5	0.2	0.1	
	100.0	96.5	2.7	0.5	0.3	
	100.0	97.0	2.5	0.3	0.2	
dest	100.0	97.3	2.3	0.3	0.2	
Geographic division						
	100.0	99.5	0.4	0.1		
	100.0	97.7	2.0	0.2	0.1	
- *	100.0	96.5	2.8	0.5	0.	
	100.0	96.4	2.7	0.6	0.3	
- · · · · · · · · · · · · · · · · · · ·	1 (30)	98.0	1.5	0.2	0.3	
	100.0	98.2		0.1	0.3	
		34.9	4.6	0.6	0.	
	100.0	98.1 97.1		0.3	0.	
MountainPacific	100.0	37.1	2.,	0.5	"	
Standard Federal Administrative Region						
Region I	100.0	99.5	0.4	0.1	1 , :	
* · · · · · · · · · · · · · · · · · · ·	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	97.8 97.4	1.9	0.2	0.7	
Region II	100.0	98.3	1.3	0.1	0.4	
	1 1187.13	96.3	2.9	0.5	0.	
	1 100.0	95.1	4.4	0.5		
	1 100.0	96.5	2.5	0.7	0.	
	1 1001-01	97.8	1.4	0.4	0.4	
) 11313.13	97.0	2.7	0.2	0.	
Region IXRegion X	100.0	97.9	1.5	0.5	0.	
Age of optomerrist				İ		
Under 25 years	100.0	93.0	5.2		1.	
		96.4		0.4	0.	
** **	1 1181-11	97.2		0.2		
10 01	1 100.0	97.2 97.7		0.3	0.	
45-34 years	100.0	97.4	1.9	0.4	Ŏ.	
6)-/4 years and over	100.0	98.3	i.i	0.6	•	
Sex of optomet 1982				Ì	i !	
Mal(100.0	97.2	2.3	0.3	0.	
Male	100.0	95.4		0.6	0.	
Number of States licensed in				i	i I	
No States	100.0	94.6		! -		
		97.3		0.3		
State	100.0	97.2		0.4		
	100.0	95.6	3.5	0.3	0.	
Hours per week annually worked	1					
1-34 hours	100.0	98.1		0.3		
35-39 hours	100.0	98.5		0.0		
		97.1 96.8		0.3		
		96.4		0.5		
41-44 hours	100.0	96.5		0.5		
49 hours or mot e	1	11 /5.7	1 ~~′′	1	1 -	

Table 24. Number and percent distribution of optometrists by number of contact lens used to assis in practice, according to selected professional characteristics of the optometrist; United States, 1968

	Total	Numbe	r of co	ntact lens cians			
Selected professional confactoristics of optometrist	optometrists	None	l	2	3 or more		
		Numbe	Number				
United States	18,299	17,784	418	61	37		
Principal form of employment							
Self employed; Solo practice	13,510 2,178 530	13,342 2,082 473	146 68 41	13 20 10	9 7 7		
Optometrists		864 149 566 175 132	76 21 53 5 8	6 1 10 1	6 - 7 2		
Number of office locations 1 office 2 offices 3 offices or more	15,083 2,806 410	14,695 2,711 378	322 75 20	42 13 6	24 7 7		
Number of patient visits per week Less than 25 visits	1,578 3,762 4,989 2,750 5,221	1,555 3,711 4,881 2,678 4,958	18 39 87 63 212	2 7 11 5 35	3 6 10 3 15		
25-49 patients	4,086 6,886 3,719 1,726 1,881	4,040 6,762 3,601 1,651 1,730	36 103 92 66 120	5 12 12 8 23	4 9 13 2 9		
None	3,960 6,655 3,883 3,801	3,960 6,648 3,829 3,347	- 8 54 356	- - 61	- - - 37		
Number of optometric services 1-3 services	900 4,075 7,344 5,980	857 3,931 7,176 5,821	34 110 145 128	5 19 16 21	4 16 7 11		
Type of optometric service Refractions	18,238 13,780 12,098 1,528 5,907 16,928 14,521 9,128 5,225 7,450 4,735 17,122	17,731 13,442 11,776 1,462 5,681 16,462 14,056 8,930 5,116 7,241 4,635 16,700	414 285 264 55 181 377 370 170 93 174 78 345	58 35 39 8 31 57 59 21 11 23 15	35 19 18 4 15 32 35 6 5 14 7		
Frame repairs	15,532	15,161 6,414 680	307 158 29	38 22 7	25 15 3		

Table 24. Number and percent distribution of optometrists by number of contact lens used to assist in practice, according to selected professional characteristics of the optometrist:

Inited States, 1708—con.					
	Total	Numbe	r of con techni		ens
Selected professional characteristics of optometrist	optometrists	None	1	2	3 or more
	Per	rcent dis	tributi	on	_
United States	100.0	97.2	2.3	0.3	0.2
Principal form of employment					
Self employed: Solo practice	100.0 100.0 100.0	98.8 95.6 89.3	1.1 3.1 7.7	0.1 0.9 1.8	0.1 0.3 1.2
Optometrists	100.0 100.0 100.0 100.0 100.0	90.9 87.2 89.0 95.2 94.6	8.0 12.2 8.3 2.9 5.4	0.6 0.6 1.6 0.6	0.6 1.1 1.3
Number of office locations 1 office 2 offices	100.0 100.0 100.0	97.4 96.6 92.2	2.1 2.7 4.8	0.3 0.5 1.4	0.2 0.2 1.6
Number of patient visits per week Less than 25 visits	100.0 100.0	98.5 98.7 97.8 97.4 95.0	1.1 1.0 1.7 2.3 4.1	0.1 0.2 0.2 0.2 0.7	0.2 0.2 0.2 0.1 0.3
Number of patients seen per week Less than 25 patients 35-49 patients	100.0	98.9 98.2 96.8 95.6 91.9	0.9 1.5 2.5 3.8 6.4	0.1 0.2 0.3 0.4 1.2	0.1 0.1 0.4 0.1
None	100.0		0.1 1.4 9.4	1.6	- - 1.0
Number of optometric services rendered [-] services	100.0 100.0 100.0 100.0	95.2 96.5 97.7 97.3	3.8 2.7 2.0 2.1	0.5 0.5 0.2 0.4	0.5 0.4 0.1 0.2
Type of optometric service Refraction	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	97.2 97.3 97.3 95.6 96.2 97.3 96.8 97.9 97.2 97.9	2.3 2.1 2.2 3.6 3.1 2.2 2.6 1.8 2.3 1.7 2.0 2.4 4.0	0.3 0.3 0.5 0.5 0.5 0.3 0.4 0.2 0.2 0.3 0.3 0.3	0.2 0.1 0.2 0.3 0.3 0.2 0.2 0.1 0.2 0.1 0.2 0.2

Table 25. Number and percent distribution of optometrists by number optical technicians (shopmen) they used to assist in practice, according to State: United States, 1968

State	Total			optica (shopm	
	optometrists	None	1	2	3 or more
		Number			
United States	18,299	16,825	981	249	245
AlabamaAlaskaArizonaArkansas	180 17 127	165 16 118	9 1 7	1 - 2	5 -
CaliforniaColorado	151 2,222 186 258 35	2,089 167 235 34	6 87 15 21 1	19 3 -	26
District of ColumbiaFlorida	71 493	54 457	11 32	5	1
Georgia	261 64 86 1,602 503 336 229 229 222 116	235 64 85 1,474 456 320 226 213 200	22 - 67 29 11 - 10 7	22 6 - 2 6 2	1 38 12 5 1
Mar/land	174 714 708 353 120 431 89 155 36 70	144 689 646 338 120 390 85 147	14 21 45 12 - 23 3 7	3 1 3 1 - 9 - - 2	13 3 14 2 - 10 -
New Jersey	674 71 1,587 320 72 927 245 265 1,133	232	26 3 170 12 2 45 11 16 48 16	12 -56 3 -15 2 3	19
South Carolina	155 94 292 740 74 38 272 356 147 428 41	140 86 265 666 64 38 243 334 140 381	7 6 17 45 5 - 22 19 6 38	1 7 21 4 6 2	1 1 2 9 2 - 1 1 1



Table 25. Number and percent distribution of optometrists by number of optical technicians (shopmen) they used to assist in practice, according to State: United States, 1968—Con.

they used to assist in practice, according to S	cate: United Sta	ites, 19	00	n.	
State	Total		er of cians		
	optometrists	None	ı	2	3 or more
	Perce	nt distr	ibutio	n	
United States	100.0	91.9	5.4	1.4	1.3
AlabamaAlaska	100.0	91.8 93.8	5.0 6.3	0.6	2.5
Arizona	100.0	93.0	5.2	1.7	-
Arkansas	100.0	94.9	3.7	1.5	-
California	100.0	94.0	3.9	0.9	1.2
Connecticut	100.0	90.1 91.2	8.1	1.7	0.8
nel auare	100.0	96.7	3.3	-	-
District of Columbia	100.0	76.3	15.3	6.8	1.7
Florida	100.0	92.7	6.5	0.7	0.2
Georgia	100.0	90.0	8.4	1.6	-
Hawaii	100.0	100.0 98.7	1 -	[1.3
Illinois	100.0	92.0	4.2	1.4	2.4
Indiana	100.0	90.6	5.8	1.3	2.4
Towa	100.0	95.2 98.6	3.2	0.9	1.6
Kentucky	100.0	93.0	4.2	2.8	"-
Louisiana	100.0	90.4	3.0	1.0	5.6
Maine	100.0	96.3	2.8	0.9	-
Mary land	100.0	82.5	8.1	1.9	7.5
Massachusetts	100.0	96.5	2.9	0.2	0.5 2.0
Michigan	100.0	91.2	3.3	0.5	0.6
Mississinni	100.0	100.0	"-	-	-
Miccouri	100.0	90.5	5.3	2.0	2.3
Montana	100.0	96.3 95.2	3.7	_	
Nevada	100.0	90.9	9.1	-	-
New Hampshire	100.0	95.5	•	3.0	1.5
New Jersey	100.0	94.4	3.8	1.8	-
New Hexico	100.0	95.7 83.0	10.7	3.5	2.8
Morth Carolina	100.0	94.6	3.7	1.0	0.7
Worth Nakota	100.0	96.8	3.2	-	i -
Chioassan	100.0	91.5	4.9	1.6	2.1
OklahomaOregonOregonOregon	100.0	94.8	6.0	0.9	:
Penney lyan i announce of the second	100.0	94.1	4.3	0.8	0.9
Rhode Island	100.0	88.2	11.8	-	-
South CarolinaSouth Dakota	100.0	93.8 90.9	4.8	1.7 1.1	0.7
Tongered	100.0	90.9	5.8	2.6	0.7
Tev25	100.0	90.0	6.0	2.8	1.2
Illah	100.0	85.7	6.4	4.8	3.2
VermontVirginia	100.0	100.0 89.5	8.1	2.0	0.4
Unchington	100.0	93.6	5.5	0.6	0.3
Unch Virginia	100.0	95.0		1.:	0.7
Wisconsin	100.0	89.1 100.0	8.8	1.5	0.5
Wyoming	100.0	100.0			

Table 26. Number and percent distribution of optometrists by number of optical technicians (shopmen) they used to assist in practice, according to geographic area and selected characteristics of the optometrist: United States, 1968

Geographic area and selected characteristics of	Total	Numl techn	er of	optica (sho _t -	ıl ren)	
optometrists	optometrists	None	ı	2	3 or more	
		Number		•		
United States	10 200					
	18,299	16,825	981	249	245	
Geographic region						
NortheastNorth Central	4,721	4,275	304	81	61 105	
South	5,838	5,381	286	66	105	
West	4,107 3,633	3,760 3,409	231 160	68 34	48 30	
Geographic division	5,055	3,407	100	J.4	30	
New England	, ,,,,					
Middle Atlantic	1 22/ 1,2/9	244	77	55		
East North Central	4,168	3,805	225	53	86	
South Atlantic	1,670	1,577	61	13	19	
East South Central	1,929 820	1,756	128	25	21	
West South Central	1,358	763 1,242	36 68	15 27	7 21	
MountainPacific	709	661 36		-6	3	
	2,924	2,748	124	25	27	
Standard Federal Administrative Region						
Region I	1,327	1,256	60	4	6	
Region II	2,261	1,953	195	68	6 44 27	
Region IV	1,834	1,682	103	23		
Region V	2,049 4,521	1,903 4,143	109 236	27 54	11	
Region VI	1,429	1,310	71	27	88 21	
Region VII	1,151	1,083	41	īi	16	
Region IX	556	513	32	8	_3	
Region X	2,448 725	2,303 681	97 36	22	26 2	
Age of optometrist		001	- 1	1	-	
Under 25 years			_	!		
2)-34 years	2,004	1,831	93	43	1 37	
35-44 years45-54 years	5,400	4,997	284	60	37 59	
))-64 years	6,632	6,106	354	88	84	
65-74 years	2,601 1,205	2,375 1.090	158 71	37 15	30	
75 years and over	396	370	15	4	28 5	
Sex of optometrist	j			1		
MaleFemale	17,912 38	16,463 362	964 16	248	237 8	
Number of States licensed in	i	i				
No States	20	١,,	l]	_	
1 State		19 12,828	724	180	1 188	
2 States3 States or more	3,355	3,071	199	44	41	
Hours per week usually worked	1,005	908	58	25	14	
1-34 hours		- 1				
35-39 hours	2,153	2,048	76	10	19	
40 hours	2,897 4,218	2,738 3,849	104	27	28	
41-44 hours45-48 hours	2,330	2,098	232 151	73 45	64 36	
49 hours or more	3,431	3,127	202	44	59	
	3,269	2,966	215	49	40	



Table 26. Number and percent distribution of optometrists by number of optical technicians (shopmen) they used to assist in practice, according to geographic area and selected characteristics of the optometrist: United States, 1968—Con.

	Tanal		er of o		
Geographic area and selected characteristics of optometrist	Total optometrists	None	1	2	3 or more
	Perce	nt distr	ibut ior	 1	
United States	100.0	91.9	5.4	1.4	1.3
Geographic region					
Northeast	100.0 100.0 100.0 100.0	90.6 92.2 91.6 93.8	6.4 4.9 5.6 4.4	1.7 1.1 1.7 0.9	1.3 1.8 1.2 0.8
Geographic division				1	
New England	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	94.7 89.0 91.3 94.4 91.0 93.0 91.5 93.2 94.0	4.5 7.2 5.4 3.7 6.6 4.4 5.0 5.1 4.2	0.3 2.3 1.3 0.8 1.3 1.8 2.0 1.3	0.5 1.6 2.1 1.2 1.1 0.8 1.6 0.5
Standard Federal Administrative Region					}
Region I	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	94.7 86.4 91.7 92.9 91.6 91.7 94.1 92.3 94.1 93.9	4.5 8.6 5.6 5.3 5.2 5.0 3.6 5.7 4.0 5.0	0.3 3.0 1.2 1.3 1.2 1.9 0.9 1.4 0.9	0.5 2.0 1.5 0.5 1.9 1.5 1.4 0.6 1.1
Age of optometrist					
Under 25 years	100.0 100.0 100.0 100.0 100.0 100.0	87.7 91.4 92.5 92.1 91.3 90.5 93.7	8.8 4.6 5.3 5.3 6.1 5.9 3.9	1.8 2.1 1.1 1.3 1.4 1.3	1.8 1.9 1.1 1.3 1.2 2.3 1.4
Sex of optometrist					
MaleFemale	100.0 100.0	91.9 93.5	5.4	1.4	1.3 2.0
Number of States licensed in					
No States	100.0 100.0 100.0 100.0	94.2 92.2 91.5 90.4	5.2 5.9 5.7	1.3 1.3 2.5	5.8 1.4 1.2 1.4
Hours per week usually worked					
1-34 hours	100.0 100.0 100.0	95.1 94.5 91.3 90.0 91.1 90.7	3.6 3.6 5.5 6.5 5.9 6.6	0.5 1.0 1.7 2.0 1.3 1.5	0.9 1.0 1.5 1.5 1.7

Table 27. Number and percent distribution of optometrists by number of optical technicians (shopmen) they used to assist in practice, according to selected professional characteristics of the optometrist; United States, 1968

**Market and **Mar					
	Total		mber of nicians		
Selected professional characteristics of the optometrist	optometrists	None	1	2	3 or more
		Numb	er		
United States	18,299	16,825	981	249	245
Principal form of employment					
Self employed. Solo practice Partnership Group practice Employed by:	2,170	12,945 1,832 397	477 222 60	53 71 33	35 52 40
Optometrists Ophthalmologists or other physicians Profit-making firms Nonprofit organizations (including government) Other	171	738 144 489 157 122	114 15 73 11 9	51 3 27 6 4	48 9 47 10 4
Number of office locations					
1 office2 offices3 offices or more	15,083 2,806 410	13,936 2,549 341	807 147 26	181 61 6	158 50 37
Number of patient visits per week					
Less than 25 visits	1,578 3,762 4,989 2,750 5,221	1,526 3,622 4,668 2,511 4,498	39 98 225 162 457	4 21 45 40 139	9 21 51 37 128
Number of patients seen per week					
Less than 25 patients	4,086 6,886 3,719 1,726 1,881	3,967 6,446 3,337 1,519 1,557	87 330 265 119 180	10 62 65 40 72	22 49 52 49 73
Number of supplementary helpers of all types	_				, •
None	3,960 6,655 3,883 3,801	3,960 6,606 3,602 2,656	49 277 654	- 3 245	245
Number of optometric services rendered	ŀ				
1-3 services	900 4,075 7,344 5,980	821 3,705 6,786 5,513	37 227 373 343	15 63 98 74	27 80 .7 50
Type of optometric service					
Refractions	18,238 13,780 12,098 1,528 5,907 16,928 14,521 9,128 5,225 7,450 4,735 17,122 15,532 6,610	16,774 12,769 11,180 1,420 5,391 15,562 13,371 8,58 4,899 6,895 4,438 15,749 14,299 5,709 653	975 711 633 71 370 918 780 408 234 393 216 925 852 626 43	248 166 161 20 79 232 191 88 56 94 39 238 209 148	242 135 124 17 67 216 178 74 36 68 42 211 172 7



Table 27. Number and percent distribution of optometrists by number of optical technicians (shopmen) they used to assist in practice, according to selected professional characteristics of the optometrists United States, 1968—Con.

Total				
optometrists	None	1	2	3 or more
	Numb	er		
100.0	91.9	5.4	1.4	1.3
100.0 100.0 160.0	95.8 84.2 74.9	3.5 10.2 11.4	0.4 3.3 6.2	0.3 2.4 7.5
100.0 100.0 100.0 100.0 100.0	77.6 84.1 76.9 85.6 37.4	12.0 8.9 11.5 6.1 6.3	5.4 1.9 4.3 3.0 3.1	5.1 5.1 7.4 5.3 3.2
100.0 100.0 100.0	92.4 90.8 83.1	5.4 5.2 6.4	1.2 2.2 1.6	1.1 1.8 8.9
!				
100.0	96.7 96.3 93.6 91.3 86.2	2.5 2.6 4.5 5.9 8.8	0.3 0.6 0.9 1.5 2.7	0.6 0.6 1.0 1.3 2.5
1 100 01	97.1 93.6 89.7 88.0 82.7	2.1 4.8 7.1 6.9 9.6	0.2 0.9 1.8 2.3 3.8	0.5 0.7 1.4 2.8 3.9
100.0 100.0 100.0 100.0	100.0 99.3 92.8 69.9	0.7 7.2 17.2	0.1 6.5	6.4
100.0 100.0 100.0 100.0	91.3 90.9 92.4 92.2	4.2 5.6 5.1 5.7	1.6 1.5 1.3 1.2	3.0 2.0 1.2 0.8
100.0	02.0	5 /	, ,	1 2
100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	92.7 92.4 92.9 91.3 91.9 92.1 93.8 93.8 92.6 93.7 92.0 92.1	5.2 5.27 6.34 5.44 5.3 4.5 5.4 5.5 9.5	1.2 1.3 1.3 1.4 1.4 1.3 1.0 1.1 1.3 0.8 1.4	1.3 1.0 1.0 1.1 1.1 1.3 1.2 0.8 0.7 0.9 0.9 1.2 1.1 1.9
	100.0 100.0	Total optometrists None Number Number None Number None Number None Number	Total optometrists None	None 1 2

APPENDIX I TECHNICAL NOTES

vackground of Report

the data presented in this report were collected as part of the 1968-69 Vision and Lye Care Manpower Survey, The survey, conducted by the U.S. Bureau of the Census under contract to the then Division of Health Resources Statistics, National Center for Health Statistics (NCUS), was designed to obtain information about the demographic and professional characteristics of optometrists engaged in providing direct health care to the public,

Survey Coverage

the total number of optometrists for purposes of this survey was defined as all legally registered persons licensed to practice optometry in any of the 50 States and the District of Columbia. The most complete and readily available list of these persons was The Blue Book of Optometrists, which provided the names and addresses of licensed optometrists in each State and the District of Columbia. This list of 20,565 names and addresses became the original mailing list for the survey.

A pretest of the questionnaire used for the optonictrists' survey was conducted during the period May-July 1960 Questionnaires were mailed to two optometrists in ach State and the District of Columbia. After an initial mailout, one mail followup, and a telephone followup a response rate of 91 percent was achieved. The questionnaire proved to be an effective instrument. Only minor alterations were required for the final questionnaire, (See appendix III for a copy of the final questionnaire.)

Data Collection and Processing

The collection of data for the 1968 Manpowe. rvey was accomplished under contract with the U.S. reau of the Census. This agency was responsible for ing the questionnaires, receipt and control proce-₹S, coding the completed questionnaires in accordance with specifications established by NCHS, and for followup

1 the Blue Book of Optometrists 1968. Chicago: Professional Press Inc., 1968:

whenever incomplete or inadequate questionnaires were returned or whenever a questionnaire was not returned,

For the actual survey, three mailouts were employed in an attempt to elicit a response, the first two by first-class mail, the last by certified mail. All three mailings were made in every case in which a return was not received.

Telephone contacts and personal interviews were also used. They were employed in cases of nonresponse or refusal as well as in cases of questionnaires that had been only partially completed.

A preliminary edit of the data was undertaken at the time of the return of the survey questionnaires. This was done to insure completeness of the responses. The data from the questionnaires were coded, punched on cards, transferred to computer tape, and sent to NCHS for processing. Processing included an elaborate series of checks and cross-checks to confirm the acturacy of responses, to correct coding and punching errors that occurred, and also to insure consistency between related items.

Response to the Survey

A total of 20,565 optometrists were provided by the original mailing list for the survey; 262 duplicate names and military personnel were eliminated, Military personnel were eliminated because some we'e inaccessible. The data provided in this report are for civilian optometrists in the 50 States and the District of Columbia. This amounted to 20,333 optometrists, or 98.7 percent of the original list.

A total of 18,533, or 91.2 percent of the 20,303, responded to the survey with usable questionnaires. The remainder was composed of 699 nonrespondents (i.e, reasons unknown); 533 postmaster returns (i.e, unable to locate); 308 deceased; and 230 refusals,

Of these 18,533 usable questionnaires (good responses), 16,835, or 90.8 percent, were active optometrists, while 1,698 reported that they were either retired or not currently engaged in optometrical activities although not retired (table 1). There is evidence to indicate that the responses from active optometrists were better than those from mactive optometrists.



Table I. Number and percent distribution of respondents to the questionnaire by question number and content, according to activity status: United States, 1968

- .	- comment - modern	, <u> </u>	
	Question number and content	All active respondents	Inactive respondents, retired and not retired
		Num	ber
	All respondents	16,835	1,698
		Percent di	stribution
T	otal	100.0	100.0
2. 5. 6a. 6b. 7. 8.	In what year were you born?	99.6 97.9 99.1 98.7 97.5	75.6
9. 10.	In which States do you currently hold an active license to practice optometry?	98.6 100.0	74.1 100.0
11. 12. 13a.	employment?	99.6 99.0 99.0 98.8	
16a.	In your optometric practice, approximately how many patient visits for all purposes do you have during a typical week?	92.0	•••
16b. 13.	Approximately how many patients does this represent? In your optometric practice do you have supplementary personnel to assist you?	88.4 98.4	•••
		70.4	

Item Response

A response to the saive, does not necessarily insure adequate answers to all of the questions on the questionnaire. In fact, a response to a single question is considered a response to the survey. This section will be concerned with the nonresponses to individual questions on the questionnaire, i.e., item nonresponses, the previous section discussed nonresponses to the survey as a whole, i.e., unit nonresponses. This discussion will involve only the 18,533 good unit responses because interest here concerns the variability of responses to different questions. Table 1 presents the distribution of responses to selected questions on the questionnaire. Selection of the questions was based on their relevance to this report.

One can hardly avoid noticing the differences in the potentiages of responses to the individual questions between the active and mactive respondents. At least 17 percent more active respondents answered every question (among those asked of both active and mactive optometrists) than did mactive respondents. Based on this finding, it is not unrealistic to suspect that a similar situation prevailed interms of responses to the question-

name generally. A larger share of the unit nonresponses were probably attributable to inactive persons than to those who were active.

Imputation for Unknowns

As a matter of policy, tables in this publication are presented with item nonresponses imputed. The allocation of the item nonresponses was done by computer, utilizing two principles: first, random assignment; and second, utilization of related information as category controls to insure consistency among different related items within the same record,

Assignment of values to replace item nomesponse is done on a random basis to prevent bias. The value used to replace an item nonresponse is randomly selected from within a range of values prescribed by related information from the record containing the item nonresponse, I stablishment of a range of values is necessary to insure that the value used to replace the item nonresponse will not be incensistent with other values within the record in which the value is being placed.



An example may clarify the procedures, Mr., Blank is 48 years of age, Hr. year at graduation is not known, It must be imputed, Ver and year at graduation are related items, In this case, Mr., Blank's age will be used as a category control to choose an appropriate record from which a year at graduation will be selected, By m. has of a candom selection process. Mr., Given's record is closen because his age was 49. The age category in this case could have been 48-50. Thus Mr., Blank's and Mr., Given's year at graduation was listed as 1942. The year 1942 is then copied into Mr., Blank's record as his year at graduation and will be counted in all tabulations as it it were the actual year Mr., Blank had provided on his questionnaire.

State and National Estimates

In sparsites presented in this report were intlated to allow for unitarity sponses, i.e., for entire question-

rairies that were not available, This "inflation" factor was the ratio of total optometrists to the number of usable (good) responses obtained, Within each State the number of optometrists was divided by the number of good tesponses to obtain the increment needed to adjust the statistics for the nonresponses. The increment multiplied by the number of respondents provided the inflated number of civilian optometrists (20,301). Table II presents the number of respondents to the optometry manpower survey, the ratio weights, and the inflated numbers of active optometrists for each State,

Rounding

Numbers that appear in the present report were independently rounded and may not add to totals. Persents were also independently rounded and may not always add to 100 percent. Percents and rates were calculated on the basis of original, unrounded figures and will not necessarily agree with rates and percents which might be calculated from rounded data.



Table II. Number of optometrists by activity status, before and after inflation: United States and each State, 1968

	ca t	nd each St	ace, 1900			
Chata	Optometrist		Inflation	Inflated active	Inflated inactive	Inflated total
State	Active	Inactive	factors	optometrists	optometrists	total
United States	16,835	1,698	1,10	18,427	1,873	20,301
Alabama	159	11	1.13	180	12	192
Alaska	16	1	1.06	17	1	18
Arizona	115	3	1.10	127	3	130
Arkansas	136	3	1.11	151	3	154
California-	2,077	231	1.08	2,242 188	· 249	2,492 199
Colorado	174	10	1.08 1.03	260	7	267
Connecticut	252 30	7	1.18	35	4	39
District of Columbia	59	12	1. 21	71	15	86
Florida	465	38	1.06	493	40	533
Georgia	250	15	1.05	263	16	278
Hawaii	61	4	1.05	64	-74	68
Idaho	77	5	1,12	86	6	92
Illinois	1,393	262	1.16	1,616	304	1,920
Indiana	472	27	1.08	510	29	539
Iowa	311	22	1.08	336	24	360
Kansas	216	20	1,06	229	21	250
Kentucky	214	8	1.07	229	9	238
Louisiana	199	15	1.12	223	17	240
Ma Ine	109	9	1.06	116	10	125
Maryland	160	17	1.09	175	19	194
Massachusetts	660	87	1.09	719 708	95 64	814
Michigan	656	59	1.08	354	46	772 400
Minnesota	331	; 43 8	1.05	121	8	129
Missouri	115	45	1.08	432	49	481
Montana	82	6	1.08	89	6	95
Ne braska	146	16	1.06	155	17	172
Nevada	33	-2	1,09	36	2	38
New Hampshire	66	ī	1.06	70	1	71
New Jersey	608	27	1.11	675	30	705
New Mexico	69	2	1.03	71	2	73
New York	1,402	178	1.14	1,598	203	1,801
North Carolina	298	19	1.08	322	21	342
North Dakota	63	4	1,15	72	5	77
Oh10	880		1.07	942	92	1,034
Oklahoma	231		1.07	247	13	260
Oregon	258	27	1.06	273	29 168	302 1,313
Pennsylvania	1,022	150	1,12	1,145	11	143
Rhode IslandSouth Carolina	119	6	07	155	6	162
South Dakota	88	7	1.07	94) ž	102
Tennessee	279	27	1.66	296	29	324
Texas	690	62	1.09	752	68	820
Utah	63	' 10	1.18	74	12	86
Vermont	35	ĩ	1.08	38	1	39
Virginia	249	9	1.10	274	10	284
Washington	330	37	1.08	356	į 40	396
West Virginia	139	10	1.06	147	11	158
Wisconsin	397	22	1.08	429	24	453
Wyoming	36	2	1,13	41	1 2	43

APPENDIX II

DEFINITIONS

In all cases, age is calcul 1970 and the respondent's	the respondent's age in 1970, lated as the difference between s year of birth, for the purpose of reporting	Standard Federal Administration Region with headquarters city	States included
states (the 50 States and divided into the geograph by the U.S. Bureau of	70 Podiatry Survey, the United the District of Columbia) is also regions and divisions used the Census and into the ten istrative Regions as follows:	Region I (Boston)	Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont
Geographic region and		Region II (New York)	New York, New Jersey
division	States included	Region III (Philadelphia)	District of Columbia, Delaware, Maryland,
Northeast New England	Maine, New Hampshire, Vermont, Massachusetts,		Pennsylvania, Virginia, West Virginia
Middle Atlantic North Central	Rhode Island, Connecticut New York, New Jersey, Pennsylvania	Region IV (Atlanta)	-Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee
	Ohio, Indiana, Illinois,	Region V (Chicago)	- Illinois, Indiana, Minnesota
	Michigan, WisconsinMinnesota, Iowa, Missouri,	(Cheugo)	Michigan, Ohio, Wisconsin
	North Dakota, South Dakota, Nebraska, Kansas	Region VI (Dallas-Fort Worth)	-Arkansas, Louisiana, New Mexico, Oklahoma, Texas
South Astanata			
South Atlantic	Delaware, Maryland, District of Columbia, Virginia, West Virginia,	Region VII (Kansas City)-	-lowa, Kansas, Missouri, Nebraska
Last South Central	North Carolina, South Carolina, Georgia, FloridaKentucky, Tennessee,	Region VIII (Denver)	Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming
	Alabama, Mississippi		
west South Central	Arkansas, Louisiana, Oklahoma, Texas	Region IX (San Francisco)	Arizona California, Hawaii, Nevada
West		Region X (Seattle)	- Alaska, Idaho, Oregon,
Mountain	Montana, Idaho, Wyoming, Colorado, New Mexico, Arizona, Utah, Nevada		Washington
Pacific	Washington, Oregon. Alaska, California, Hawaii		



77

-000----

APPENDIX III SURVEY QUESTIONNAIRE

4EV 8 68			Form Approved	
		H ₁ ,	Ignt Harnau So. 68 Set	n_194
US DEPARTMENT OF TOMMERCE				
ACTING AS CONFICT NO AGENT FOR THE	1			
S & HUTC HEALTH SE HUCE	1			
UNEIDEN HAL All information which remits				
he identification of the individual will be held trictis confidential, will be used solely by	1			
ersous engaged in and only for the purposes of	1			
he survey and will not be disclosed or released	l l			
o other persons or for any other purpose.	ł			
	1			
SURVEY OF OPTOMETRISTS				
	1			
·				
Is your name correct, and is the address ab	ove your	PRIMARY PLACE	OF PRACTICE?	
y Yes a No				
1				
It no please enter	the com	ect information belo		
·				
	"ame	f ist	W JJ's	La
Primary place of pi	actice			
		_mhe-	5 - Paris	•
			Mare	7.7 C 14
		,		
2 In what year were you born?				
2 In what year were you born?				
3 Where were you born?	. '050100	country)		
Orate o		country)		
Orate o				
(State of the United States? (P				
(State of the United States? (P				
(State of the United States? (P Tes Native Born Yes, Naturalized				
(State of the United States? (P				
(Next of the United States? (P , Yes Native Born , Yes, Naturalized , No				
(Next of the United States? (P , Yes Native Born , Yes Naturalized , No				
Yes Native Born Yes Naturalized No. Sex: 1 Male Hemple	llease ch	eck apprapriate box)		
Yes, Naturalized Yes, Valuralized Yes, Wale	llease ch	eck apprapriate box)		
Yes Native Born Yes Native Born Yes Naturalized No Sex: 1 Male Female A. From which so ool of optometry did yo	llease ch	eck apprapriate box)		
Yes Native Born Yes Native Born Yes Naturalized No Sex: 1 Male Female A. From which so ool of optometry did yo	ilease ch	eck apprapriate box)		
Yes Native Born Yes Native Born Yes Naturalized No Sex: 1 Male Female A. From which so ool of optometry did yo	ilease ch	eck apprapriate box)		
Are you a citizen of the United States? (P Yes, Native Born Yes, Naturalized No Sex: 1 Male Female A. From which so ool of optometry did your state.	rie School	te) State or Count		
Yes, Native Born Yes, Naturalized No Sex: 1 — Male Hemple A. From which so ool of optometry did yo	rie School	te) State or Count		
Yes Native Born 2 Yes Naturalized 3 No Sex: 1 Male 2 Female A. From which so ool of optometry did yo	rie School	te) State or Count		
Are you a citizen of the United States? (P Yes, Native Born Yes, Naturalized No Sex: 1 Male Female A. From which so ool of optometry did your state.	rie School	te) State or Count		



	What degrees have you earned?	
	Doctor at Optometry,	
	Poctorate No. 1 mg	correct
		State
		Note that the second of the second of
	Other Man	r
8	In which States do you currently	y hold an ACTIVE LICENSE to practice optometry?
	, , , , , , , , , , , , , , , , , , ,	ACTIVE LICENSE to practice optometry?
-		
		<u> </u>
9	As CHORESTI V . CO	•
,	NIE AND CORKENITI VCIIAE	in optemetry? "Include patient care, teaching, research, and adminis
	Yes Full-time	No. Not active in optometry
	Yes Patt time	No. Retired
	PROCEED 10	STOP
	Question 10	Remainder of questionneire does not apply. Place
		return questionnaire in the envalope provided
10	Self-employed = Solo p	This partnership or group practice, how
10	Self-employed - Noio pi Self-employed - Partner Self-employed - Group Fingloyed by - Military Employed by - Optomet Employed by - Optomet Employed by - Optomet Employed by - Physicia Employed by - Physicia Employed by - Nonprofi Other Meetry How many WEEKS per year do you	practice practice practice practice practice practice proup COUNTING YOURSELF? Number Number Number Titist(s) an(s) other than aphthalmologist(s) corporation prolit making; it organization of institution
	Self-employed - 2010 pt Self-employed - Partner Self-employed - Group Fingloyed by - Military Employed by - Optomet Imployed by - Optomet Imployed by - Physical Imployed by - Firm at Employed by - Nonprofit Other Species	practice practice practice practice practice practice proup COUNTING YOURSELF? Number Number Number Titist(s) an(s) other than aphthalmologist(s) corporation prolit making; it organization of institution
	Self-employed - Noiso pi Self-employed - Partner Self-employed - Group Fingloyed by - Military Employed by - Optomet Employed by - Optomet Employed by - Optomet Employed by - Physicial Imployed by - Physicial Imployed by - Nonprofit Other Species How many WEEKS per year do you administration Do not count vaccuary	practice practice practice practice practice practice proup COUNTING YOURSELF? Number Number Number Titist(s) an(s) other than aphthalmologist(s) corporation prolit making; it organization of institution
	Self-employed - Noio pi Self-employed - Partner Self-employed - Group Fingloyed by - Military Employed by - Optomet Employed by - Optomet Employed by - Optomet Employed by - Physicia Employed by - Physicia Employed by - Nonprofi Other Meetry How many WEEKS per year do you	practice practice practice practice practice practice proup COUNTING YOURSELF? Number Number Number Titist(s) an(s) other than aphthalmologist(s) corporation prolit making; it organization of institution
!1	Self-employed - 2010 pt Self-employed - Partner Self-employed - Group Fingloyed by - Military Employed by - Optomet Employed by - Optomet Employed by - Physical Employed by - Firm at Employed by - Nonprofi Other Species How many WEEKS per year do you administration Da not count vacc	practice practice practice practice practice practice proup COUNTING YOURSELF? Number Number Number Titist(s) an(s) other than aphthalmologist(s) corporation prolit making; it organization of institution
!1	Self-employed - 2010 pt Self-employed - Partner Self-employed - Group Fingloyed by - Military Employed by - Optomet Imployed by - Optomet Imployed by - Physical Imployed by - Firm at Employed by - Nonprofit Other Species How many WEEKS per year do you administration Do not count vacco Weeks per year	practice property practice property pro
!1	Self-employed - Noise possession of the self-employed - Partner Self-employed - Uroup - Self-employed - Uroup - Self-employed by - Military - Employed by - Optomet - Employed by - Optomet - Employed by - Physical - Employed by - Firm at - Employed by - Nonprofit - Other Meetry - Other Meetry - Other Meetry - Da not count vaccing the self-employed by - Self-employed by - Self-employed by - Nonprofit - Other Meetry - Other Meetry - Da not count vaccing - Weeks her year - How many HOURS per week do you administration - Other Meetry - Self-employed - Other Meetry - Self-employed - Other Meetry - Self-employed - Other Meetry - Self-employed - Other Meetry - Other Meetry - Other - Self-employed - Self-employed - Self-employed - Other - Self-employed - Other - Self-employed - Other - Self-employed - Other - Self-employed - Self-emplo	practice property practice property pro
!1	Self-employed - Noise possession of the self-employed - Partner Self-employed - Uroup - Self-employed - Uroup - Self-employed by - Military - Employed by - Optomet - Employed by - Optomet - Employed by - Physical - Employed by - Firm at - Employed by - Nonprofit - Other Meetry - Other Meetry - Other Meetry - Da not count vaccing the self-employed by - Self-employed by - Self-employed by - Nonprofit - Other Meetry - Other Meetry - Da not count vaccing - Weeks her year - How many HOURS per week do you administration - Other Meetry - Self-employed - Other Meetry - Self-employed - Other Meetry - Self-employed - Other Meetry - Self-employed - Other Meetry - Other Meetry - Other - Self-employed - Self-employed - Self-employed - Other - Self-employed - Other - Self-employed - Other - Self-employed - Other - Self-employed - Self-emplo	practice property practice property pro



Department of the process of the process of the policy of the process of the policy	usually spend in	indicated in Item 12 above, do you	eek, indicated		IMATELY what PERC			13
. Optometric research . Administration (Ostometric Association etc.) 100 c TOTAL 11 05 of your time is a speer in OPTOMETRIC PRACTICE, (Stew 13 e. above) \$TOP, and return reasonate in the envelope provided: otherwise continue. 14. In your OPTOMETRIC PRACTICE, which of the services below are randored to your potients by direction? (Check oil that apply) 22. Refractions 23. Aniserkouse testing 24. Aniserkouse testing 25. Bonicroscopy 26. Contact lens fitting 27. Visual training orthoptics 28. Developmental vision 29. Prescribing low vision aids 20. Dispensing and adjusting 20. Dispensing and adjusting 21. Frame repairs 22. Dispensing and adjusting 23. Frame repairs 24. Fabrication of eyewate 25. Other Sprices 26. Other Sprices 27. Other Sprices 28. SECONDARY activity 29. General practice 29. Ontact lens fitting 20. Visual training orthoptics 20. Ostometric lens fitting 21. Visual training orthoptics 22. Contact lens fitting 23. Ostometric lens fitting 24. PRIMARY privaty (Check one) 25. In your OPTOMETRIC PRACTICE, what do you consider to be your PRIMARY, and your SECONDARY activity 29. General practice 20. Ontact lens fitting 21. Visual training orthoptics 22. Ontact lens fitting 23. Visual training/orthop				ettic prictice	; Optome			
e 7 Other Voc. 15 100 107 11 If Or, of your time is spent in OPTOMETRIC PRACTICE, (from 13 o. above) \$TOP, and return transmit in the envelope previded otherwise continue. 14. In your OPTOMETRIC PRACTICE, which of the services below are rendered to your patients by direction? (Check all that apply) 12. Refractions 13. Visual fields 14. Tonometri 15. In your Optimalmoscopy 16. Ophthalmoscopy 17. Contact lens fitting 18. Visual training orthoptics 19. Prescribing low vision aids 10. Visual readiness for ceading 10. Dispensing and adjusting 10. Frame repairs 11. Fabrication of eyeware 12. Other Specify 13. In your OPTOMETRIC PRACTICE, what do you consider to be your PRIMARY, and your SECO 19. A. PRIMARY vision (Check one) 10. General practice 11. Contact lens fitting 12. Contact lens fitting 13. Visual training orthoptics 14. Ontact lens fitting 15. Visual training orthoptics 16. Ontact lens fitting 17. Visual training orthoptics 18. Developmental vision 19. Developmental vision 10. Prescribing low vision aids 10. Prescribing low vision aids 11. Prescribing low vision aids 12. Prescribing low vision aids 13. Prescribing low vision aids 14. Prescribing low vision aids 15. Prescribing low vision aids 16. Prescribing low vision aids 17. Prescribing low vision aids 18. Prescribing low vision aids 19. Prescribing low vision aids 19. Prescribing low vision aids 19. Prescribing low vision aids			in	ng in a school of optometr	Feachin	b _		
Council Total				etric research	; Optome			
100 FOTAL		on etc.	ociation etc.)	stration (1810m) tric Association	'r Adminis			
If OS of your time is spent in OPTOMETRIC PRACTICE, (from 13 a. above) STOP, and return transacts in the envelope provided: otherwise continue. 14. In your OPTOMETRIC PRACTICE, which of the services below are rendered to your patients by direction? (Check all that apply) 15. Refractions 16. Visual fields 17. Tonometri 28. Anisetkonic testing 29. Ophthalmoscopy 20. Contact lens fitting 20. Visual training orthoptics 20. Developmental vision 21. Visual readiness for reading 22. Dispensing and adjusting 23. Frame repairs 24. Fabrication of eyewate 25. Other Specify 26. PRIMARY visials (Check one) 27. General practice 28. SECONDARY activity General practice 29. Ontact lens fitting 20. Visual training orthoptics 20. Ontact lens fitting 21. Visual training orthoptics 22. Contact lens fitting 23. Visual training orthoptics 24. Developmental vision 25. Developmental vision 26. Ontact lens fitting 27. Visual training/orthop		,				• _	•	
14. In your OPTOMETRIC PRACTICE, which of the services below are rendered to your patients by direction? (Check all that apply)	ques-	. (Item 13 e. above) STOP, and return	CTICE, (Item 13			Г		
direction? (Check off that apply) Refractions Visual fields Tonometri Aniseikonia testing Biomicroscopy Ophthalmoscopy Contact lens fitting Visual training orthoptics Developmental vision Prescribing low vision aids Visual readiness for reading Dispensing and adjusting Frame repairs Fabrication of eyewate Other Species Other Species A PRIMARY invisity (Seek one) General practice Contact lens fitting Visual training orthoptics Octact lens fitting Visual training orthoptics Developmental vision Prescribing low vision aids Developmental vision Prescribing low vision aids		· · · · · · · · · · · · · · · · · · ·	finut.	pe provided: otherwise conti	tienneire in the envelop	L		
Visual fields Tonometri Aniseikonic testing Biomicroscopy Contact lens fitting Visual training forthoptics Developmental vision Prescribing low vision aids Visual readiness for reading Dispensing and adjusting Frame repairs Fabrication of eyeware Cother Specify Other Specify General practice Contact lens fitting Visual training orthoptics Contact lens fitting Visual training orthoptics Visual training orthoptics Developmental vision Prescribing low vision aids Visual training orthoptics Developmental vision Prescribing low vision aids	y you or under your	low are rendered to your patients	es below ore n					14.
Tonometry Aniseikonic testing Biomicroscopy Contact lens fitting Visual training orthoptics Developmental vision Tomoretry Training orthoptics Dispensing and adjusting Training orthoptics Training orthoptics Training orthoptics Training orthoptics Training orthoptics Training orthoptics Training orthoptics Training orthoptics Developmental vision Training orthoptics Developmental vision Trescribing low vision aids Trescribing low vision aids Training orthoptics Developmental vision Trescribing low vision aids Trescribing low vision aids Trescribing low vision Trescribing low vision aids Trescribing low vision Trescribing low vision					Refractions		:•	
Aniseikonic testing Biomicroscopy Contact lens fitting Visual training orthoptics Developmental vision Prescribing low vision aids Visual readiness for reading Dispensing and adjusting Frame repairs Fabrication of eyewate Cother Species Other Species A. PRIMARY invisity (Check one) General practice Contact lens fitting Visual training orthoptics Developmental vision Prescribing low vision aids Prescribing low vision aids Prescribing low vision aids Prescribing low vision aids Prescribing low vision aids Prescribing low vision aids Prescribing low vision aids Prescribing low vision aids Prescribing low vision aids Prescribing low vision aids Prescribing low vision aids Prescribing low vision aids Prescribing low vision aids							_	
Developmental vision A. PRIMARY artistity of Check one: General practice Contact lens fitting A. PRIMARY artistity of Check one: Contact lens fitting Visual training orthoptics Contact lens fitting Visual training orthoptics Developmental vision Contact lens fitting Visual training orthoptics Developmental vision Contact lens fitting Developmental vision Contact lens fitting Developmental vision Contact lens fitting Developmental vision Contact lens fitting Developmental vision Contact lens fitting Developmental vision Contact lens fitting Developmental vision Contact lens fitting Developmental vision Contact lens fitting Developmental vision Contact lens fitting Developmental vision Contact lens fitting				•				
Ophthalmoscopy Contact lens fitting Visual training orthoptics Developmental vision Prescribing low vision aids Visual readiness for reading Dispensing and adjusting Frame repairs Fabrication of eyewate Other Specify A. PRINARY privity (Check one) General practice ontact lens fitting Visual training orthoptics Developmental vision Prescribing low vision aids Prescribing low vision aids Prescribing low vision aids Prescribing low vision				•	_			
Visual training orthoptics Developmental vision Prescribing low vision aids Visual readiness for reading Dispensing and adjusting Frame repairs Fabrication of eyewate Other Specify Other Specify A. PRIMARY privity (heck one) General practice fontact lens fitting Visual training orthoptics Visual training orthoptics Developmental vision frescribing low vision aids Prescribing low vision Prescribing low vision					Ophthalmoscopy			
Developmental vision Prescribing low vision aids Visual readiness for reading Dispensing and adjusting Frame repairs Fabrication of eyewate Other Specify In your OPTOMETRIC PRACTICE, what do you consider to be your PRIMARY, and your SECO A. PRIMARY private (heck one) General practice fontact lens fitting Visual training orthoptics Developmental vision frescribing low vision aids Prescribing low vision				K	Contact lens fitting		3.	
Prescribing low vision aids Visual readiness for reading Dispensing and adjusting Frame repairs Fabrication of eyeware Other Specify Other Specify A. PRIMARY invisity (Check one) General practice Contact lens fitting Visual training orthoptics Developmental vision Frescribing low vision aids Prescribing low vision Prescribing low vision				*	•	•		
Visual readiness for reading								
Dispensing and adjusting Frame repairs Fabrication of eyeware Other Species A. PRIMARY invisity (Check one) B. SECONDARY activity General practice Contact lens fitting Visual training orthoptics Developmental vision frescribing low vision and					•			
Frame repairs Fabrication of eyewate Other Specify In your OPTUMETRIC PRACTICE, what do you consider to be your PRIMARY, and your SECO A. PRIMARY invisity (Check one) General practice Contact lens fitting Visual training orthoptics Developmental vision Frescribing low vision and some prescribing low vision						-		
Fabrication of eyeware Other Species Other Species Other Species Is Other Species Other Species Other Species Other Species Is Other Species A. PRIMARY invisity (Check one) A. PRIMARY invisity (Check one) General practice Ontact lens fitting Visual training orthoptics Overlapmental vision Overlapmental vision Overlapmental vision Prescribing low vision iids Prescribing low vision				,	• •			
Other Species 15. In your OPTOMETRIC PRACTICE, what do you consider to be your PRIMARY, and your SECO A. PRIMARY privates (Check one) B. SECONDARY activity General practice Contact lens fitting Visual training orthoptics Developmental vision Frescribing low vision aids Prescribing low vision				wate	•			
A. PRIMARY invisity (Check one) General practice Contact lens fitting Visual training orthoptics Developmental vision Frescribing low vision and so Prescribing low vision					Other Species	-		
General practice Contact lens fitting Visual training orthoptics Developmental vision Prescribing low vision and so Prescribing low vision			der to be your !	TICE, whet do you consid	PTOMETRIC PRACT	wr Q	. In ye	15.
Contact lens fitting 2 Contact lens fitting Visual training orthoptics 3 Nisual training/orthop Developmental vision 4 Developmental vision Frescribing low vision yields 5 Prescribing low vision	ly (Check one)	B. <u>SECONDARY</u> activ		sity (heck one)	4. PRIMARY 1005			
Visual training orthoptics 1 Visual training/orthop Developmental vision 4 Developmental vision Frescribing low vision aids 5 Prescribing low vision		1 📜 General practice	, [General practice		•	
Developmental vision Prescribing low vision ands Prescribing low vision ands		2 Contact lens fitting	ž,	R	Contact lens fitting		•	
Frescribing low viscon sids 5 Prescribing low vision		-	1 (·			,	
	ı	4 Developmental visio	•				•	
4 Industrial vision 4 _ Industrial vision	n aids	5 Prescribing low vision	5	seem rids	•		•	
		• _ Industrial vision	• -				•	
9 Other Spreads Other (Specify)		Other (Specify	, ,		Other Spring		Ŷ	
• ~ None		• ~ None	• ~					

PHS-T407 3 (PAGE 3)

	Approximate transport for sp	_			
What is the total number of affice locations at which you currently practice optometry? Note PRINCIPAL FORM OF EMPLOYMENT, indicated in Item 10 above, do you have supplementary personnel to assist year? Note No	•				
What is the total number of affice locations of which you currently practice optometry? In your PRINCIPAL FORM OF EMPLOYMENT, indicated in Item 10 above, do you have supplementary personnel to assist you?	B. APPROXIMATELY how many PA only once)	TIENTS does thi	is represent? (Patients)	with multiple visits sl	hould be counted
In your PRINCIPAL FORM OF EMPLOYMENT, indicated in [sem 10 above, do you have supplementary personnal to assist you? Yes: No Please indicate the NUMBER in each caregory below for ALL offices combined which are related to your principal form of employment. Persons who spend less than 75% of their time in any one caregory below should be counted in category by general optimetric assistants. NUMBER WHO WORK FILL TIME AND FOR YOU FOR YOU AND FOR YOU AND FOR YOU AND ASSOCIATES. A Secretaries Receptionists. b (central optometric assistants.) c Optometric exchaicians. d Dispensing opticians. e Contact lens technicians. Vergenera. g. Other Vibrial associates, COUNTING YOURSELE, share those personnel? **Number of associates, COUNTING YOURSELE, share those personnel?** (Number of associates). **Dispension opticities are invited as well as comments on specific items: **PLEASE RETURN QUESTIONNAIRE IN THE STAMPED ENVELOPE PROVIDED. **Forts IPAGE 41 **PLEASE RETURN QUESTIONNAIRE IN THE STAMPED ENVELOPE PROVIDED.	र त्रीविका रामाखन व्यक्तीर छ। १ वेबरान्य ।	,			
In your PRINCIPAL FORM OF EMPLOYMENT, indicated in [sem 10 above, do you have supplementary personnal to assist you? Yes: No Please indicate the NUMBER in each caregory below for ALL offices combined which are related to your principal form of employment. Persons who spend less than 75% of their time in any one caregory below should be counted in category by general optimetric assistants. NUMBER WHO WORK FILL TIME AND FOR YOU FOR YOU AND FOR YOU AND FOR YOU AND ASSOCIATES. A Secretaries Receptionists. b (central optometric assistants.) c Optometric exchaicians. d Dispensing opticians. e Contact lens technicians. Vergenera. g. Other Vibrial associates, COUNTING YOURSELE, share those personnel? **Number of associates, COUNTING YOURSELE, share those personnel?** (Number of associates). **Dispension opticities are invited as well as comments on specific items: **PLEASE RETURN QUESTIONNAIRE IN THE STAMPED ENVELOPE PROVIDED. **Forts IPAGE 41 **PLEASE RETURN QUESTIONNAIRE IN THE STAMPED ENVELOPE PROVIDED.	What is the total number of affice loci	otions of which y	ou currently practice opt	ometry?	
Please indicate the NUMBER in each caregory below for ALL offices combined which are related to your principal farm of employment 'Persons who spend less than 75% of their time in any one caregory be the should be counted in category by general optimetric assistant) NUMBER WIND WORK FULL TIME NUMBER WIND WORK PART-TIME NUMBER WORK PART-TIME NUMBER WORK PART-TIME NUMBER WORK PART-TIME NUMBER WORK PART-TIME NUMBER WORK PART-TIME NUMBER WORK PART-TIME NUMBER WORK PART-TIME NUMBER WORK PART-TIME NUMBER WORK PART-TIME NU	Sammer of arrings	_			
Please indicate the NUMBER in each category below for ALL offices combined which are related to your principal farm of employment 'Persons who spend less than 75% of their time in any one category be an should be counted in category by general optimetric assistant) NUMBER WIND WORK FULL TIME NUMBER WIND WORK PART-TIME NUMBER WORK PART-TIME NUMBER WORK NUMBER WORK PART-TIME NUMBER WORK PART-TIME NUMBER WORK PART	I Principal con				
Please indicate the NUMBER in each caregory below for ALL offices combined which are related to your principal farm of employment Persons who spend less than 75% of their time in any one caregory be an should be counted in category b, general opportunities assistant? NUMBER WHO WORK FULL TIME ALWER WHO WORK PART TIME Less than 15 hours per Leek; FOR NOT FOR NOT FOR NOT AND ALWE ASSOCIATES A Secretation Receptionists a Secretation Receptionists b General oppometric assistants c Optometric estancians d Dispensing opticians e Contact leas technicians f Optical	to assist you?	OYMENT, Indica	ted in Item 10 above, do	you have supplement	try personnel
Persons who spend less than 75% of their time in ony one category be aw should be counted in category by general opportunities assistant) **MMBER WHO WORK FITLI-TIME SEMBER WHO WORK PART-TIME (Less than 15 hours per neck) **PORTOUT FOR YOU AND FOR YOU AND ALONE ASSOCIATES (Love than 15 hours per neck) **ACCRETATION RECEPTIONISTS **D. General optometric assistants **C. Optometric rechnicians **d. Dispensing opticians** **C. Ontact lens technicians** **E. Ontact lens technicians** **D. Optical technicians** **D. Other (Specific Months) **A. If you have made entries under FOR YOU AND ASSOCIATES in the full-time or part-time columns in Item 18 above many associates, **COUNTING YOURSELF** **Number of associates, how many are OPTOMETRISTS, **COUNTING YOURSELF** **COUNTING YOURSELF** **COUNTING YOURSELF** **COUNTING YOURSELF** **COUNTING YOURSELF** **Number of optometrists) **MEEN 15 - General comments are invited as well as comments on specific items: **PLEASE RETURN QUESTIONNAIRE IN THE STAMPED ENVELOPE PROVIDED.** **FA07-3 (PAGE 4)	i A Yes . No	•			
**Persons who spend less than 75% of their time in ony one category be aw should be counted in category by general optimization assistant) **MMBER WHO WORK FILLI-TIME **SUBBER WHO WORK PART-TIME **I must or more personal **Less than 15 hours per	 ∳				
*** ALUNE CONTROL POR SOCIATES AND SOCIATES AND PORTOR ASSISTANTS *** ALUNE CONTROL PORTOR ASSISTANTS AND PORTOR ASSISTANTS AND ALUNE ASSOCIATES AND PORTOR ASSOCIATES ASSOCIATES AND PORTOR ASSOCIATES ASSOCIATES AND PORTOR ASSOCIATES ASSOCIATES AND PORTOR ASSOCIATES ASSOCIATES AND PORTOR ASSOCIATES ASSOCIATES AND PORTOR ASSOCIATES ASSOCIATES ASSOCIATES ASSOCIATES ASSOCIATES AND PORTOR ASSOCIATES ASSOCIAT	Please indicate the NUMBER is principal form of employment	n each caregory	below for <u>ALL</u> offices co	ambined which are reli	cted to your
AL MBER RIFO RORA FULLI-TIME ALMBER VIIO RORK PART-TIME (Less than 15 hours per here) (Les					
AL MBER RIFO RORA FULL-TIME	Persons who spend less than 7	5's of their time	in one one category he s	w should be counsed .	a cataones. L
Contact of more per series Contact of more per series	general oprometric assistant)		,,,,	- should be coolined .	ir cureyory o,
ALONE ASSOCIATES FOR YOU AND ASSOCIATES ALONE ESPICIATES A Secretaries Receptionists b General optometricassistants c Optometric rechnicians d Dispensing opticians e Contact lens technicians f Optical technicians g. Other Optical technicians A. If you have made entries under FOR YOU AND ASSOCIATES in the full-time or part-time calumas in Item 18 above many associates, COUNTING YOURSELF, share these personnal? **Number of associates, how many are OPTOMETRISTS, COUNTING YOURSELF? **Outher of optometrists** MEN 15 - General comments are invited as well as comments an apacific items: **PLEASE RETURN QUESTIONNAIRE IN THE STAMPED ENVELOPE PROVIDED.** **FAOT-3 (PAGE 4)**		At MBER WHO	IORA FULE-TIME	NEMBER MIO	NORK PART-TIME
ALONE ASSOCIATES ALONE ASSOCIATES A Secretaries Receptionists b (reneral optometric assistants c Optometric rechnicians d Dispensing opticians e Contact lens technicians f Optical technicians Seaponer g. Other Opticals A. If you have made entries under FOR YOU AND ASSOCIATES in the full-time or pert-time columns in Item 18 above many associates, COUNTING YOURSELF, share those personnel? **Number of associates, COUNTING YOURSELF?** (Number of optometrists) MEN 15 - General comments are invited as well as comments on specific items: PLEASE RETURN QUESTIONNAIRE IN THE STAMPED ENVELOPE PROVIDED.		ess males de	mine per weeks	· Less than s	s hauss perweeks
b General optometric assistants c Optometric rechnicians d Dispensing opticians e Contact lens technicians f Optical technicians Veripment g. Other Opticals A. If you have made entries under FOR YOU AND ASSOCIATES in the full-time or part-time calumns in Item 18 above many associates, COUNTING YOURSELF, share these personnel? **Number of associates, how many are OPTOMETRISTS, COUNTING YOURSELF? **Outhor of optometrists** B. Of these essociates, how many are OPTOMETRISTS, COUNTING YOURSELF? **Outhor of optometrists** MEN 15 - General comments are invited as well as comments on specific items: PLEASE RETURN QUESTIONNAIRE IN THE STAMPED ENVELOPE PROVIDED.					FOR YOU AND ASSACIATES
d Dispensing opticians e Contact lens technicians f Optical technicians Adaptive g. Other Aprilly A. If you have made entries under FOR YOU AND ASSOCIATES in the full-time or part-time calumns in Item 18 above many associates, COUNTING YOURSELF, share these personnel? **Counter of associates, how many are OPTOMETRISTS, COUNTING YOURSELF? (Number of optometrists) MEN 15 - General comments are invited as well as comments an apacific items: PLEASE RETURN QUESTIONNAIRE IN THE STAMPED ENVELOPE PROVIDED.	a Secretaries Receptionists				
d Dispensing opticians e Contact lens technicians f Optical technicians Verpment g. Other Opticals A. If you have made entries under FOR YOU AND ASSOCIATES in the full-time or pert-time calumns in Item 18 above bew many associates, COUNTING YOURSELF, share these personnel? **Coumber of associates** B. Of these essociates, how many are OPTOMETRISTS, COUNTING YOURSELF? **Coumber of optometrists** MEN 1.S. General comments are invited as well as comments on specific items: PLEASE RETURN QUESTIONNAIRE IN THE STAMPED ENVELOPE PROVIDED.	b General optometricassistants				
f Optical technicians Ventures g. Other (Vertify) A. If you have made entries under <u>FOR YOU AND ASSOCIATES</u> in the full-time or part-time columns in Item 18 above many associates, <u>COUNTING YOURSELF</u> , share these personnel? (Sumbar of associates) B. Of these essociates, how many are <u>OPTOMETRISTS</u> , <u>COUNTING YOURSELF</u> ? (Sumber of optometrists) MEN i S - General comments are invited as well as comments on specific items:	c. Optometric rechnicians		 · ·	·	
g. Other (\pricite g. Other (\pricite A. If you have made entries under <u>FOR YOU AND ASSOCIATES</u> in the full-time or pert-time calumns in Item 18 above many associates, <u>COUNTING YOURSELF</u> , share these personnel? (\text{\text{Number of associates}} B. Of these essociates, how many are <u>OPTOMETRISTS</u> , <u>COUNTING YOURSELF</u> ? (\text{\text{Number of optometrists}} MEN iS - General comments are invited as well as comments an apacific items:	d. Dispensing opticians			· · <u> </u>	4
A. If you have made entries under <u>FOR YOU AND ASSOCIATES</u> in the full-time or part-time calumns in Item 18 above how many associates, <u>COUNTING YOURSELF</u> , share these personnel?	e Contact lens technici ins		· · · ·	· · · · <u>——</u> . ·	· <u> </u>
A. If you have made entries under <u>FOR YOU AND ASSOCIATES</u> in the full-time or part-time calumns in Item 18 above how many associates, <u>COUNTING YOURSELF</u> , share those personnel? Number of associates, how many are <u>OPTOMETRISTS</u> , <u>COUNTING YOURSELF</u> ? (Number of optometrists) MEN i S - General comments are invited as well as comments on specific items: PLEASE RETURN QUESTIONNAIRE IN THE STAMPED ENVELOPE PROVIDED.	f Optical technicians Venturent		 ·		
B. Of these essociates, how many are OPTOMETRISTS, COUNTING YOURSELF? (Number of optometrists) MEN î S - General comments are invited as well as comments on specific items: PLEASE RETURN QUESTIONNAIRE IN THE STAMPED ENVELOPE PROVIDED.	g. Other Opicify		. <u></u>		
B. Of these esseciates, how many are OPTOMETRISTS, COUNTING YOURSELF? (Number of optometrists) MEN 15 - General comments are invited as well as comments an apacific items: PLEASE RETURN QUESTIONNAIRE IN THE STAMPED ENVELOPE PROVIDED.					
B. Of these esseciates, how many are OPTOMETRISTS, COUNTING YOURSELF? (Number of optometrists) MEN i S - General comments are invited as well as comments an apacific items: PLEASE RETURN QUESTIONNAIRE IN THE STAMPED ENVELOPE PROVIDED.	A If you have made anning out to EO	# YOU AND ACC	**************************************		
B. Of these esseciates, how many are OPTOMETRISTS, COUNTING YOURSELF? (Number of optometrists) MEN i S - General comments are invited as well as comments an specific items: PLEASE RETURN QUESTIONNAIRE IN THE STAMPED ENVELOPE PROVIDED.	how many associates, COUNTING	YOURSELF, she	<u>PULIATES</u> in me full-fim pre these personnel?	e or pert-time column:	in Item \$ ebove
B. Of these esseciates, how many are OPTOMETRISTS, COUNTING YOURSELF? (Number of optometrists) MEN i S - General comments are invited as well as comments an specific items: PLEASE RETURN QUESTIONNAIRE IN THE STAMPED ENVELOPE PROVIDED.		<u>-</u>			
(Number of optometrists) MEN 15 - General comments are invited as well as comments an specific items: PLEASE RETURN QUESTIONNAIRE IN THE STAMPED ENVELOPE PROVIDED.	(Number (4) assix (ales)				
(Number of optometrists) MEN 15 - General comments are invited as well as comments an specific items: PLEASE RETURN QUESTIONNAIRE IN THE STAMPED ENVELOPE PROVIDED.					
MEN i S - General comments are invited as well as comments an specific items: PLEASE RETURN QUESTIONNAIRE IN THE STAMPED ENVELOPE PROVIDED.		<u>OPTOMETRIST</u>	S. COUNTING YOURSE	<u>LF</u> ?	
MEN i S - General comments are invited as well as comments an specific items: PLEASE RETURN QUESTIONNAIRE IN THE STAMPED ENVELOPE PROVIDED.	B. Of these esseciates, how many are				
PLEASE RETURN QUESTIONNAIRE IN THE STAMPED ENVELOPE PROVIDED.					
F407-3 (PAGE 4)	(Number of optometrists)				
F407-3 (PAGE 4)	(Number of optometrists)	es well as com	ments on specific items:		
F407-3 (PAGE 4)	(Number of optometrists)	l és well as com	nents on specific items:		
7407-3 (PAGE 4)	(Number of optometrists)	es well as com	nents on specific items:		
7407-3 (PAGE 4)	(Number of optometrists)	i es well as com	nents on specific items:		
	(Number of optometrists)				<u> </u>
	(Number of optometrists)			E PROVIDED.]
	(Number of optometrists) MMEN i S - General comments are invited PLEASE RETURN QUE			E PROVIDED.]
	(Number of optometrists) WHEN i S - General comments are invited PLEASE RETURN QUE			E PROVIDED.]



VITAL AND HEALTH STATISTICS PUBLICATION SERIES

Originally Public Health Service Publication No. 1000

- Series 1. Programs and collection proceed as s.—Reports which describe the general programs of the National vanter for Pealth Statistics in 143 offices and divisions, data collection methods used, definitions, a situation of the action of the action of the action process of the action of the act
- Series 2. Isita evaluation and mothor's resourch.—Studies of new statistical methodology including: experiencental tests of new survey methods studies of vital statistics collection methods, new analytical configues on crive valuations of eliabnic of collector, rata, contributions to statistical theory.
- See 8.3. See this figure ports resented in living distribution interpretate studies based on vital and health false. The figure for the constitution of reports in the other series.
- See the second of the season of the season of the second o
- The second secon
- the control of the co

