M.—Foreign Branches.

- 1. What countries.
- 2. What city located.
- 3. Capital each.
- 4. Tangible assets each.
- 5. Sales per year last 5 years of each.
- 6. Give names of countries where trade marked.
- 7. Above are recapitulation figures.

Fill in as far as possible this entire questionnaire for each branch.

N.—Additional Data Not Requested in this Questionnaire Noticed by Investigator Which Buyer Should Know.

### COMMENTS, QUESTIONS AND SUGGESTIONS ARE WELCOME.

Readers are invited to submit comments, criticisms and suggestions regarding the material which appears in this department. The editor will also undertake to answer questions regarding general problems of business management. Letters of general interest will be published, but the writer's name will not be revealed without his permission.

### SEASONABLE DISPLAYS FOR FEBRUARY AND MARCH.

Surgical goods and sick-room supplies.

Dental supplies.

Olive oil.

Telephone order business.

Shampoos and hair tonics.

Castile soap.

Face creams, lotions and powders.

Easter perfumes, toilet waters and sachets.

# A COMPARATIVE STATISTICAL STUDY OF THE NUMBER OF REGISTERED PHARMACISTS, OF DRUG STORES AND OF HOSPITALS OF TWENTY-FIVE OR MORE BEDS' CAPACITY.\*

BY HENRY J. GOECKEL.1

The objective of this investigation is to show, if possible, on the basis of supply that a large percentage of the hospitals in the United States do not employ registered or qualified pharmacists to compound and dispense and to have general supervision over the drug supplies of these institutions. Incidental objectives are to call attention to the need for developing this branch of pharmaceutical service, to learn how many registered pharmacists there actually are and how this number compares with the total number of pharmacies, hospitals of more than twenty-five beds' capacity and with the total population.

The excellent statistical study on the number of drug stores and the relation to populations of the various states, etc., by W. F. Rudd,<sup>2</sup> presented at the last

<sup>\*</sup> Read before Section on Practical Pharmacy and Dispensing, A. Ph. A., Des Moines meeting, 1925.

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<sup>&</sup>lt;sup>2</sup> W. F. Rudd, Jour. A. Ph. A., p. 1153 (December 1924).

meeting of the American Pharmaceutical Association, covered this phase of the subject in a very thorough manner.

The writer has used the figures for 1923, as they are the most recent and thorough statistics available which will permit a reasonably accurate comparative study of value. It was ascertained that thirty of the states have annual registrations which makes their data of the most value, three states have bi-annual registration, one has tri-annual registration, seven have no periodic registration and eight did not publish sufficient data to be of much value in this study. The data secured from various sources is given in Table I, columns 1, 2, 3, 4, 8 and 9; columns 5 and 6 present data calculated from this by the writer.

An attempt was made to learn the average number of registered pharmacists employed in pharmacies, from persons much interested in State Boards in the East. As the replies stated that no such tabulation had been attempted or was possible with present data the writer tabulated a series of stores with which he is personally acquainted and decided that an average of one and a half per store is a conservative figure to use in determining the number of registered pharmacists employed in the retail drug trade. The figures given in column five were obtained by multiplying the number of drug stores in each state by this factor. Subtracting these from the total numbers of resident pharmacists in each state gave the figures tabulated in column six. It will be noted that ten of the states show negative numbers.

As it is necessary to be reasonably sure of the accuracy of the data used if results are to be of any value, the writer scrutinized the published data very carefully and concluded that much of it is more of a rough guess than an actual careful statistical tabulation, especially the data given in columns two and three. Columns one and four are probably correct. The hospital data is the result of a careful census. The tabulation of the total number and the division into non-resident and resident pharmacists not being given by New Jersey the writer, possessing a copy of the directory issued by the New Jersey State Board under date of January 1924, compiled these statistics. The results are found on line 32 of Table I.

In studying the published figures those for Idaho, Missouri, Wyoming and New Hampshire seemed to be the results of very careful mathematical tabulation. These figures therefore were used with those from New Jersey to obtain an average figure for the percentage of total who are non-residents of the states. As these states were well distributed they were very good for this purpose. The result is an average of 31.4 per cent, as shown in Table II. It is desirable to have approximately correct figures for this, as otherwise the statistics will be very much padded and show more than 20,000 more registered pharmacists than there actually are. As an example, the writer being registered in three states appears three times in the list. As the majority of non-resident pharmacists are registered in the state where they reside, deducting the non-resident numbers from the totals will give the approximately correct number of registered pharmacists in the United States. To test the validity of this average percentage factor all of the first thirty-four States' total figures for registered pharmacists were used to calculate the probable number of non-resident pharmacists in each state. To permit a ready comparison the published figures also are given, in Table III. It will be noted at once that

 $<sup>^{1}</sup>$  By Council of Medical Education and Hospitals,  $\it Jour.~A.~M.~A.,~V.~82$  (January 12, 1924).

the figures published by the states having the lesser numbers of pharmacists, in most instances, compare favorably with the average figure while those states with many thousands of registered pharmacists on their lists present figures which suggest a guess at the number of non-residents. As the writer believed that the figures obtained in Table III will come nearer being correct than those in Table I, he has used the former for the purpose of this study.

### TOTAL NUMBER OF REGISTERED PHARMACISTS.

Using the totals so obtained in the states publishing complete data as a basis by the rule of three a fairly accurate estimate can be made of the total number of persons actually registered.

Total number of resident pharmacists in the 34 tabulated states	48,705
Total number of drug stores in these states	32,518
Total number of drug stores in the rest of the states	20.452

48,705:32,518::X:20,452; X equals 30,633 in the states 35 to 49. 48,705 plus 30,633 gives 79,338 as the total number of persons holding registered pharmacist certificates, an average of 1.497 per drug store.

## COMPARISON OF AVAILABLE REGISTERED PHARMACISTS AND DRUG STORES IN THE VARIOUS STATES.

The figures obtained would tend to show that many states have scarcely more registered pharmacists than there are drug stores. Some actually have less. Considering the hours that the majority of stores are open, this would suggest that either the registered pharmacists are employed too many hours for the maintenance of their health or to conserve the best interests of society, or that many are very poorly manned. It certainly tends to show that the hospitals in these states cannot be making strong demands upon the supply of pharmacists.

### COMPARISON OF HOSPITALS TO SUPPLY OF REGISTERED PHARMACISTS.

By the conservative figures of the Council on Medical Education and Hospitals, we find the following:

Total number of hospitals of 25 or more bed capacity	4,006
Total number of patients—average per day	528,686
Average number of patients per hospital per day	132

Any one who has had experience in a hospital where pharmacy is actually practiced will be quite willing to admit that this average number of patients will not leave much time for loafing. Where there is also a busy clinic a hospital of that size would require at least two pharmacists. In the hospital in which the writer in past years was a pharmacist, with an average housing of about 160 patients and a busy clinic, it took all of the time of three registered men and a porter to give good service.

If to this group of 4006 hospitals which, if properly served pharmaceutically, should require at least 5000 pharmacists we add the total numbers of registered men who are not engaged or available by reasons of other forms of employment, it

does not look as if there was an excess of registered pharmacists in the very recent year 1923. Pharmacists not available would include all holding certificates but retired, engaged in teaching, in the U. S. Army, Navy or Public Health Service, all engaged in the pharmaceutical, chemical and other lines of manufacturing, in other retail or wholesale business, and those holding certificates but now practicing medicine or engaged in laboratory activities.

#### REMARKS.

In selecting statistics for the preceding study the writer took the figures of the Council on Medical Education and Hospitals of the American Medical Association because they are the most conservative and take in only institutions relative to which there can be no question of the propriety of adequate pharmaceutical supervision. This tabulation was considered more satisfactory than that of the "Modern Hospital" or of the United States Public Health Service as these include sanatoriums and hospitals for nervous and mental diseases. The total number of hospitals by the American Medical Association classification is 6830. The United States Public Health Service census figures for 1922, including sanatoria and institutions for the mentally diseased, feeble minded and epileptic, are 11,522.

As the care for the last three types of patients is now as much of a medical as a housing and segregating proposition, most of these could properly be classed with institutions requiring the services of pharmacists for the proper discharge of their obligations to the public.

The writer wishes, before summarizing, to acknowledge the assistance of the Director of the Hospital Library and Service Bureau in furnishing the data on hospitals and to Secretary H. C. Christensen, of the National Association of Boards of Pharmacy, who furnished the writer with a copy of the data compiled by E. L. Newcomb, published in the *Northwestern Druggist*, September 1923, and for the data on which was based the arrangement of the states on the basis of intervals of registration.

### SUMMARY AND CONCLUSIONS.

Data is presented showing that there were about 79,338 persons in the United States registered as pharmacists—an average of 1.497 for each of the 52,970 drug stores. Deducting those engaged in other lines of activity will greatly reduce this average number.

Considering the hours that the average drug store is open to serve the public, it would appear that the average pharmacist either spends too many hours at his vocation or that many of the drug stores in the United States are not at all times under the supervision of registered pharmacists.

It is evident from the statistics that many of the hospitals cannot be employing registered pharmacists. The hospitals of the United States for the proper discharge of their obligations would require the services of more than 5000 pharmacists.

The data presented in this paper show, if the number of drug stores is not excessive, that the supply of registered pharmacists is not excessive, which is significant when we compare this with the large classes at our colleges.

It was deemed unnecessary for the purposes of this paper to compare the number of registered pharmacists with the population of the states as this can readily be done if desired by using these data and those of the article by W. F. Rudd.

The proper manning of hospitals pharmaceutically will aid in advancing the professional status of pharmacy as it has that of medicine, dentistry and nursing, and will benefit the profession in general as well as the public by proper pharmaceutical service where it is of educational value to both the medical profession and to pharmacy.

TABLE I.—STATES WITH ANNUAL REGISTRATION.

State		Registered Pharmacists. Non-				Reg. pharm.		Hospita	ls 25	Daily average	
1 Alabama		Stota	Totals	resi-		Stores	employed		or mor	e Bed	pa-
2 Arizona 415 100 315 125 187 128 35 3,262 2,224 3 Arkansas 1,000 300 700 1,000 1,500 -800 37 4,832 3,490 4 California 8,200 100 8,100 2,750 4,135 3,965 219 36,231 26,391 5 Colorado 1,960 300 1,660 950 1,425 235 63 10,902 7,861 6 Connecticut 1,375 150 1,225 640 960 265 55 11,596 9,460 7 Florida 1,022 400 822 646 969 -147 9 1,063 783 8 Idaho 684 252 432 290 435 - 3 21 2,172 1,575 9 Illinois 6,000 500 5,500 3,000 4,500 1,000 270 50,678 31,463 10 Indiana 3,964 200 3,764 1,418 2,127 1,637 97 17,018 12,481 11 Iowa 4,500 500 4,000 2,200 3,300 700 103 14,882 11,457 12 Kansas 2,150 250 1,990 1,600 2,400 -500 73 9,743 7,417 13 Kentucky 1,850 275° 1,575° 880 1,290 285 62 10,237 7,825 14 Louisiana 1,840 200 1,640 882 1,293 347 44 8,745 6,984 15 Minnesota 2,150 400 1,750 1,050 1,575 175 113 19,843 15,265 15 Minnesota 2,150 400 1,750 1,050 1,575 175 113 19,843 15,265 16 Missouri 5,185 1,556 3,629 2,238 3,357 272 119 20,909 16,821 17 Montana 687 300 337 320 480 -160 40 4,181 2,802 17 Montana 687 300 333 110 162 171 31 3,401 2,433 10 North Carolina 1,000 15 985 802 1,203 -218 88 10,129 6,798 10 North Carolina 1,000 15 985 802 1,203 -218 88 10,129 6,798 21 North Dakota 625 150 475 350 525 -50 29 3,395 2,565 20 Olahoma 2,900 700 2,200 1,239 1,858 342 53 6,332 4,626 22 Olahoma 2,900 700 2,200 1,239 1,858 342 53 6,332 4,626 22 Olahoma 2,900 700 2,200 1,239 1,858 342 53 6,332 4,626 22 Olahoma 2,900 700 2,200 1,239 1,858 342 53 6,332 4,626 22 Olahoma 2,900 700 2,200 1,239 1,858 342 53 6,332 4,626 22 Olahoma 2,900 700 2,200 1,239 1,858 342 53 6,332 4,626 22 Olahoma 2,900 700 2,200 1,239 1,858 342 53 6,332 4,626 23 Oregon 1,400 300 1,100 470 705 395 45 6,886 5,756 24 South Carolina 1,000 150 850 500 750 100 34 6,018 4,048 22,725 100 120 56 9,077 6,322 100 120 56 9,077 6,322 100 120 56 9,077 6,322 100 120 56 9,077 6,322 100 120 56 9,077 6,322 100 120 56 9,077 6,322 100 120 56 9,077 6,322 100 120 56 9,077 6,322 100 120 56 9,077 6,322 100 120 56 9,077 1,020 120 56 9,077 1,020 120 56 9,077 1,020 120 56 9,077 1,020 120 56 9,077 1,020 120	1										
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5         Colorado         1,960         300         1,660         950         1,425         235         63         10,902         7,861           6         Connecticut         1,375         150         1,225         640         960         265         55         11,596         9,466           7         Florida         1,022         400         822         646         969         -147         9         1,063         783           8         Idaho         684         252         432         290         435         -         3         21         2,172         1,575           9         Illinois         6,000         500         5,500         3,000         4,500         1,000         2,700         1,637         97         17,018         12,481           10         Indiana         3,964         200         3,764         1,418         2,127         1,637         97         17,018         12,481           11         Iowa         4,500         50         4,000         2,200         3,00         700         103         14,882         11,457           12         Kansas         2,150         400         1,750         1,650			-				•				
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7 Florida 1,022 400 822 646 969 -147 9 1,063 783 8 Idaho 684 252 432 290 435 - 3 21 2,172 1,575 9 Illinois 6,000 500 5,500 3,000 4,500 1,000 270 50,678 31,463 10 Indiana 3,964 200 3,764 1,418 2,127 1,637 97 17,018 12,481 11 Iowa 4,500 500 4,000 2,200 3,300 700 103 14,882 11,457 12 Kansas 2,150 250 1,900 1,600 2,400 -500 73 9,743 7,417 13 Kentucky 1,850 275° 1,575° 860 1,290 285 62 10,237 7,829 14 Louisiana 1,840 200 1,640 882 1,293 347 44 8,745 6,984 15 Minnesota 2,150 400 1,750 1,050 1,575 175 113 19,843 15,268 16 Missouri 5,185 1,556 3,629 2,238 3,357 272 119 20,909 16,821 17 Montana 687 300 387 320 480 -160 40 4,181 2,803 18 Nebraska 2,000 100 1,900 906 1,359 541 50 7,043 5,455 19 New Mexico 833 500 333 110 162 171 31 3,401 2,435 19 New Mexico 833 500 333 110 162 171 31 3,401 2,435 10 North Dakota 625 150 475 350 525 - 50 29 3,395 2,565 22 Oklahoma 2,900 700 2,200 1,239 1,858 342 53 6,332 4,626 22 Oklahoma 2,900 700 2,200 1,239 1,858 342 53 6,332 4,626 22 Oklahoma 2,000 150 850 500 750 100 34 6,018 4,048 25 South Dakota 600 250 350 450 675 -225 33 4,045 2,275 27 Utah 376 56° 320° 1,320° 800 1,200 120 56 9,077 6,325 27 Utah 376 56° 320° 1,320° 800 1,200 120 56 9,077 6,325 27 Utah 376 56° 320° 1,320° 800 1,200 120 56 9,077 6,325 29 Wisconsin 2,150 215 2,035 1,050 1,575 460 151 19,539 15,083 30 Wyoming 220 75 145 145 202 57 16 1,517 956 30 Wyoming 220 75 145 145 202 57 16 1,517 956 30 Wyoming 220 75 145 145 202 57 16 1,517 956 30 Wyoming 220 75 145 145 202 57 16 1,517 956 30 Wyoming 220 75 145 145 202 57 16 1,517 956 30 New Jersey 3,658* 1,014* 2,644* 1,442 2,165 481 124 22,756 17,023 30 Vermont 450 67° 383° 162 243 140 20 2,353 1,863	_		-				•				
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9 Illinois 6,000 500 5,500 3,000 4,500 1,000 270 50,678 31,463 10 Indiana 3,964 200 3,764 1,418 2,127 1,637 97 17,018 12,481 11 Iowa 4,500 500 4,000 2,200 3,300 700 103 14,882 11,457 12 Kansas 2,150 250 1,900 1,600 2,400 -500 73 9,743 7,417 13 Kentucky 1,850 275° 1,575° 860 1,290 285 62 10,237 7,829 14 Louisiana 1,840 200 1,640 862 1,293 347 44 8,745 6,984 15 Minnesota 2,150 400 1,750 1,050 1,575 175 113 19,843 15,268 16 Missouri 5,185 1,556 3,629 2,238 3,357 272 119 20,909 16,821 17 Montana 687 300 387 320 480 -160 40 4,181 2,803 18 Nebraska 2,000 100 1,900 906 1,359 541 50 7,043 5,455 19 New Mexico 833 500 333 110 162 171 31 3,401 2,436 20 North Carolina 1,000 15 985 802 1,203 -218 88 10,129 6,798 21 North Dakota 625 150 475 350 525 -50 29 3,395 2,566 22 Oklahoma 2,900 700 2,200 1,239 1,858 342 53 6,332 4,625 23 Oregon 1,400 300 1,100 470 705 395 45 6,886 5,756 24 South Carolina 1,000 150 850 500 750 100 34 6,018 4,048 25 South Dakota 600 250 350 450 675 -225 33 4,045 2,273 26 Tennessee 1,550 230° 1,320° 800 1,200 120 56 9,077 6,322 27 Utah 376 56° 320° 121 181 139 11 1,817 1,296 28 Virginia 1,278 200 1,078 736 1,104 - 26 73 12,861 9,227 29 Wisconsin 2,150 215 2,035 1,050 1,575 460 151 19,539 15,082 20 Wisconsin 2,150 215 2,035 1,050 1,575 460 151 19,539 15,082 21 New Hampshire 503 143 360 221 331 39 29 4,452 3,466 22 New Jersey 3,658 1,014° 2,644° 1,442 2,165 481 124 22,756 17,023 23 New Jersey 3,658 1,014° 2,644° 1,442 2,165 481 124 22,756 17,023 23 New Jersey 3,658 1,014° 2,644° 1,442 2,165 481 124 22,756 17,023 24 New Jersey 3,658 1,014° 2,644° 1,442 2,165 481 124 22,756 17,023 25 New Jersey 3,658 1,014° 2,644° 1,442 2,165 481 124 22,756 17,023 25 New Jersey 3,658 1,014° 2,644° 1,442 2,165 481 124 22,756 17,023 25 New Jersey 3,658 1,014° 2,644° 1,442 2,165 481 124 22,756 17,023 25 New Jersey 3,658 1,014° 2,644° 1,442 2,165 481 124 22,756 17,023 25 New Jersey 3,658 1,014° 2,644° 1,442 2,165 481 124 22,756 17,023 25 New Jersey 3,658° 1,014° 2,644° 1,442 2,165 481 124 22,756 17,023	•		,						-	•	
10       Indiana       3,964       200       3,764       1,418       2,127       1,637       97       17,018       12,481         11       Iowa       4,500       500       4,000       2,200       3,300       700       103       14,882       11,457         12       Kansas       2,150       250       1,900       1,600       2,400       -500       73       9,743       7,417         13       Kentucky       1,850       275°       1,575°       860       1,290       285       62       10,237       7,829°         14       Louisiana       1,840       200       1,640       862       1,293       347       44       8,745       6,984         15       Minnesota       2,150       400       1,750       1,050       1,575       175       113       19,843       15,268         16       Missouri       5,185       1,556       3,629       2,238       3,357       272       119       20,909       16,821         17       Montana       687       300       387       320       480       -160       40       4,181       2,802         18       Nebraska       2,000       100 </td <td>_</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>•</td> <td></td>	_									•	
11         Iowa         4,500         500         4,000         2,200         3,300         700         103         14,882         11,457           12         Kansas         2,150         250         1,900         1,600         2,400         -500         73         9,743         7,417           13         Kentucky         1,850         275°         1,575°         860         1,290         285         62         10,237         7,829           14         Louisiana         1,840         200         1,640         862         1,293         347         44         8,745         6,984           15         Minnesota         2,150         400         1,750         1,050         1,575         175         113         19,843         15,268           16         Missouri         5,185         1,556         3,629         2,238         3,357         272         119         20,999         16,821           17         Montana         687         300         387         320         480         -160         40         4,181         2,802           18         Nebraska         2,000         100         1,900         906         1,359         541	-		•		•	•	•			•	•
12   Kansas			•		-	-	•			•	
13         Kentucky         1,850         275°         1,575°         860         1,290         285         62         10,237         7,829           14         Louisiana         1,840         200         1,640         862         1,293         347         44         8,745         6,984           15         Minnesota         2,150         400         1,750         1,050         1,575         175         113         19,843         15,268           16         Missouri         5,185         1,556         3,629         2,238         3,357         272         119         20,909         16,821           17         Montana         687         300         387         320         480         -160         40         4,181         2,802           18         Nebraska         2,000         100         1,900         906         1,359         541         50         7,043         5,455           19         New Mexico         833         500         333         110         162         171         31         3,401         2,438           20         North Carolina         1,000         15         985         802         1,203         -218					•	•	•				
14         Louisiana         1,840         200         1,640         862         1,293         347         44         8,745         6,984           15         Minnesota         2,150         400         1,750         1,050         1,575         175         113         19,843         15,268           16         Missouri         5,185         1,556         3,629         2,238         3,357         272         119         20,909         16,821           17         Montana         687         300         387         320         480         -160         40         4,181         2,803           18         Nebraska         2,000         100         1,900         906         1,359         541         50         7,043         5,455           19         New Mexico         833         500         333         110         162         171         31         3,401         2,482           20         North Carolina         1,000         15         985         802         1,203         -218         88         10,129         6,798           21         North Dakota         625         150         475         350         525         -50         <			•			-	•				-
15         Minnesota         2,150         400         1,750         1,050         1,575         175         113         19,843         15,268           16         Missouri         5,185         1,556         3,629         2,238         3,357         272         119         20,909         16,821           17         Montana         687         300         387         320         480         -160         40         4,181         2,803           18         Nebraska         2,000         100         1,900         906         1,359         541         50         7,043         5,455           19         New Mexico         833         500         333         110         162         171         31         3,401         2,439           20         North Carolina         1,000         15         985         802         1,203         -218         88         10,129         6,798           21         North Dakota         625         150         475         350         525         50         29         3,395         2,562           22         Oklahoma         2,900         700         2,200         1,239         1,85         342 <t< td=""><td></td><td>-</td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td>,</td><td>•</td></t<>		-			-					,	•
16         Missouri         5,185         1,556         3,629         2,238         3,357         272         119         20,909         16,821           17         Montana         687         300         387         320         480         -160         40         4,181         2,803           18         Nebraska         2,000         100         1,900         906         1,359         541         50         7,043         5,455           19         New Mexico         833         500         333         110         162         171         31         3,401         2,438           20         North Carolina         1,000         15         985         802         1,203         -218         88         10,129         6,798           21         North Dakota         625         150         475         350         525         -50         29         3,395         2,566           22         Oklahoma         2,900         700         2,200         1,239         1,858         342         53         6,332         4,626           23         Oregon         1,400         300         1,100         470         705         395         45 <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		-									
17         Montana         687         300         387         320         480         -160         40         4,181         2,803           18         Nebraska         2,000         100         1,900         906         1,359         541         50         7,043         5,455           19         New Mexico         833         500         333         110         162         171         31         3,401         2,438           20         North Carolina         1,000         15         985         802         1,203         -218         88         10,129         6,798           21         North Dakota         625         150         475         350         525         - 50         29         3,395         2,566           22         Oklahoma         2,900         700         2,200         1,239         1,858         342         53         6,332         4,626           23         Oregon         1,400         300         1,100         470         705         395         45         6,886         5,756           24         South Dakota         600         250         350         450         675         -225         33							-				
18         Nebraska         2,000         100         1,900         906         1,359         541         50         7,043         5,455           19         New Mexico         833         500         333         110         162         171         31         3,401         2,439           20         North Carolina         1,000         15         985         802         1,203         -218         88         10,129         6,798           21         North Dakota         625         150         475         350         525         -50         29         3,395         2,563           22         Oklahoma         2,900         700         2,200         1,239         1,858         342         53         6,332         4,626           23         Oregon         1,400         300         1,100         470         705         395         45         6,886         5,756           24         South Carolina         1,000         150         850         500         750         100         34         6,018         4,048           25         South Dakota         600         250         350         450         675         -225         33 <td></td> <td></td> <td>•</td> <td></td> <td>-</td> <td></td> <td>•</td> <td></td> <td></td> <td>•</td> <td></td>			•		-		•			•	
19         New Mexico         833         500         333         110         162         171         31         3,401         2,439           20         North Carolina         1,000         15         985         802         1,203         -218         88         10,129         6,798           21         North Dakota         625         150         475         350         525         -50         29         3,395         2,568           22         Oklahoma         2,900         700         2,200         1,239         1,858         342         53         6,332         4,626           23         Oregon         1,400         300         1,100         470         705         395         45         6,886         5,756           24         South Carolina         1,000         150         850         500         750         100         34         6,018         4,048           25         South Dakota         600         250         350         450         675         -225         33         4,045         2,275           26         Tennessee         1,550         230°         1,320°         800         1,200         120         56<										,	
20       North Carolina       1,000       15       985       802       1,203       -218       88       10,129       6,789         21       North Dakota       625       150       475       350       525       - 50       29       3,395       2,563         22       Oklahoma       2,900       700       2,200       1,239       1,858       342       53       6,332       4,626         23       Oregon       1,400       300       1,100       470       705       395       45       6,886       5,756         24       South Carolina       1,000       150       850       500       750       100       34       6,018       4,048         25       South Dakota       600       250       350       450       675       -225       33       4,045       2,273         26       Tennessee       1,550       230°       1,320°       800       1,200       120       56       9,077       6,329         27       Utah       376       56°       320°       121       181       139       11       1,817       1,296         29       Wisconsin       2,150       215       2,035 </td <td></td> <td></td> <td></td> <td></td> <td>•</td> <td></td> <td>•</td> <td></td> <td></td> <td>•</td> <td>•</td>					•		•			•	•
21       North Dakota       625       150       475       350       525       - 50       29       3,395       2,566         22       Oklahoma       2,900       700       2,200       1,239       1,858       342       53       6,332       4,626         23       Oregon       1,400       300       1,100       470       705       395       45       6,886       5,756         24       South Carolina       1,000       150       850       500       750       100       34       6,018       4,048         25       South Dakota       600       250       350       450       675       -225       33       4,045       2,273         26       Tennessee       1,550       230°       1,320°       800       1,200       120       56       9,077       6,328         27       Utah       376       56°       320°       121       181       139       11       1,817       1,296         28       Virginia       1,278       200       1,078       736       1,104       - 26       73       12,861       9,27         29       Wisconsin       2,150       215       2,035											
22       Oklahoma       2,900       700       2,200       1,239       1,858       342       53       6,332       4,626         23       Oregon       1,400       300       1,100       470       705       395       45       6,886       5,756         24       South Carolina       1,000       150       850       500       750       100       34       6,018       4,048         25       South Dakota       600       250       350       450       675       -225       33       4,045       2,275         26       Tennessee       1,550       230°       1,320°       800       1,200       120       56       9,077       6,329         27       Utah       376       56°       320°       121       181       139       11       1,817       1,298         28       Virginia       1,278       200       1,078       736       1,104       - 26       73       12,861       9,227         29       Wisconsin       2,150       215       2,035       1,050       1,575       460       151       19,539       15,083         30       Wyoming       220       75       145	_									•	
23 Oregon 1,400 300 1,100 470 705 395 45 6,886 5,756 24 South Carolina 1,000 150 850 500 750 100 34 6,018 4,048 25 South Dakota 600 250 350 450 675 -225 33 4,045 2,273 26 Tennessee 1,550 230° 1,320° 800 1,200 120 56 9,077 6,329 27 Utah 376 56° 320° 121 181 139 11 1,817 1,295 28 Virginia 1,278 200 1,078 736 1,104 - 26 73 12,861 9,227 29 Wisconsin 2,150 215 2,035 1,050 1,575 460 151 19,539 15,083 30 Wyoming 220 75 145 145 202 57 16 1,517 956  Totals 59,959 8,879 51,080 28,293 40,464 9,083 2,077 324,665 235,422  States with Bi-annual Registration.  31 New Hampshire 503 143 360 221 331 39 29 4,452 3,466 32 New Jersey 3,658° 1,014° 2,644° 1,442 2,165 481 124 22,756 17,023 33 Vermont 450 67° 383° 162 243 140 20 2,353 1,862						-	-			,	-
24         South Carolina         1,000         150         850         500         750         100         34         6,018         4,048           25         South Dakota         600         250         350         450         675         -225         33         4,045         2,273           26         Tennessee         1,550         230°         1,320°         800         1,200         120         56         9,077         6,320°           27         Utah         376         56°         320°         121         181         139         11         1,817         1,298°           28         Virginia         1,278         200         1,078         736         1,104         - 26         73         12,861         9,227°           29         Wisconsin         2,150         215         2,035         1,050         1,575         460         151         19,539         15,083           30         Wyoming         220         75         145         145         202         57         16         1,517         956           Totals         59,959         8,879         51,080         28,293         40,464         9,083         2,077 <td></td> <td></td> <td>•</td> <td></td> <td>,</td> <td>•</td> <td></td> <td></td> <td></td> <td></td> <td></td>			•		,	•					
25 South Dakota 600 250 350 450 675 -225 33 4,045 2,273 26 Tennessee 1,550 230° 1,320° 800 1,200 120 56 9,077 6,325 27 Utah 376 56° 320° 121 181 139 11 1,817 1,295 28 Virginia 1,278 200 1,078 736 1,104 - 26 73 12,861 9,227 29 Wisconsin 2,150 215 2,035 1,050 1,575 460 151 19,539 15,083 30 Wyoming 220 75 145 145 202 57 16 1,517 956 30 Wyoming 59,959 8,879 51,080 28,293 40,464 9,083 2,077 324,665 235,422 34    States with Bi-annual Registration.  31 New Hampshire 503 143 360 221 331 39 29 4,452 3,466 32 New Jersey 3,658° 1,014° 2,644° 1,442 2,165 481 124 22,756 17,023 33 Vermont 450 67° 383° 162 243 140 20 2,353 1,862		•	•				_		_	,	
26 Tennessee 1,550 230 $^{a}$ 1,320 $^{a}$ 800 1,200 120 56 9,077 6,320 27 Utah 376 56 $^{a}$ 320 $^{a}$ 1,21 181 139 11 1,817 1,295 28 Virginia 1,278 200 1,078 736 1,104 $-$ 26 73 12,861 9,227 29 Wisconsin 2,150 215 2,035 1,050 1,575 460 151 19,539 15,085 30 Wyoming 220 75 145 145 202 57 16 1,517 956 Totals 59,959 8,879 51,080 28,293 40,464 9,083 2,077 324,665 235,422 States with Bi-annual Registration.  31 New Hampshire 503 143 360 221 331 39 29 4,452 3,466 32 New Jersey 3,658 $^{b}$ 1,014 $^{b}$ 2,644 $^{b}$ 1,442 2,165 481 124 22,756 17,023 33 Vermont 450 67 $^{a}$ 383 $^{a}$ 162 243 140 20 2,353 1,865			•							-	
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28 Virginia 1,278 200 1,078 736 1,104 - 26 73 12,861 9,227 29 Wisconsin 2,150 215 2,035 1,050 1,575 460 151 19,539 15,083 30 Wyoming 220 75 145 145 202 57 16 1,517 956  Totals 59,959 8,879 51,080 28,293 40,464 9,083 2,077 324,665 235,422  States with Bi-annual Registration.  31 New Hampshire 503 143 360 221 331 39 29 4,452 3,466 32 New Jersey 3,658 <sup>b</sup> 1,014 <sup>b</sup> 2,644 <sup>b</sup> 1,442 2,165 481 124 22,756 17,022 33 Vermont 450 67 <sup>a</sup> 383 <sup>a</sup> 162 243 140 20 2,353 1,862	-		-		•			_		•	
29 Wisconsin 2,150 215 2,035 1,050 1,575 460 151 19,539 15,083 30 Wyoming 220 75 145 145 202 57 16 1,517 956  Totals 59,959 8,879 51,080 28,293 40,464 9,083 2,077 324,665 235,422  States with Bi-annual Registration.  31 New Hampshire 503 143 360 221 331 39 29 4,452 3,466 32 New Jersey 3,658 <sup>b</sup> 1,014 <sup>b</sup> 2,644 <sup>b</sup> 1,442 2,165 481 124 22,756 17,023 33 Vermont 450 67 <sup>a</sup> 383 <sup>a</sup> 162 243 140 20 2,353 1,862										•	
30 Wyoming 220 75 145 145 202 57 16 1,517 956  Totals 59,959 8,879 51,080 28,293 40,464 9,083 2,077 324,665 235,422  States with Bi-annual Registration.  31 New Hampshire 503 143 360 221 331 39 29 4,452 3,466 32 New Jersey 3,658 <sup>b</sup> 1,014 <sup>b</sup> 2,644 <sup>b</sup> 1,442 2,165 481 124 22,756 17,023 33 Vermont 450 67 <sup>a</sup> 383 <sup>a</sup> 162 243 140 20 2,353 1,862		•			•		•				
Totals 59,959 8,879 51,080 28,293 40,464 9,083 2,077 324,665 235,422 States with Bi-annual Registration.  States with Bi-annual Registration.  31 New Hampshire 503 143 360 221 331 39 29 4,452 3,466 32 New Jersey 3,658 $^b$ 1,014 $^b$ 2,644 $^b$ 1,442 2,165 481 124 22,756 17,023 33 Vermont 450 67 $^a$ 383 $^a$ 162 243 140 20 2,353 1,862	-				-	•	-			•	
States with Bi-annual Registration.   31 New Hampshire 503 143 360 221 331 39 29 4,452 3,460 32 New Jersey 3,658 $^b$ 1,014 $^b$ 2,644 $^b$ 1,442 2,165 481 124 22,756 17,023 33 Vermont 450 67 $^a$ 383 $^a$ 162 243 140 20 2,353 1,862	30	Wyoming	220	75	145	145	202	57	16	1,517	956
31 New Hampshire     503     143     360     221     331     39     29     4,452     3,460       32 New Jersey     3,658 <sup>b</sup> 1,014 <sup>b</sup> 2,644 <sup>b</sup> 1,442     2,165     481     124     22,756     17,022       33 Vermont     450     67 <sup>a</sup> 383 <sup>a</sup> 162     243     140     20     2,353     1,862		Totals	59,959	8,879	51,080	28,293	40,464	9,083	2,077	324,665	235,422
32 New Jersey 3,658 <sup>b</sup> 1,014 <sup>b</sup> 2,644 <sup>b</sup> 1,442 2,165 481 124 22,756 17,023 33 Vermont 450 67 <sup>a</sup> 383 <sup>a</sup> 162 243 140 20 2,353 1,862	States with Bi-annual Registration.										
33 Vermont 450 67° 383° 162 243 140 20 2,353 1,862	31	New Hampshire			360	221	331	39	29	4,452	3,460
33 Vermont 450 67° 383° 162 243 140 20 2,353 1,862	32	New Jersey	$3,658^{b}$	$1,014^{b}$	$2,644^{b}$	1,442	2,165	481	124	22,756	17,021
Totals 4,611 1,224 3,387 1,825 2,737 660 173 29,561 22,343	33	Vermont			383ª	162	243	140	20	,	1,862
a_Coloulated by average of all other stated formers b Tabulated by outlier from the		Totals	4,611	1,224	3,387	1,825	,	660	173	29,561	22,343

<sup>&</sup>lt;sup>a</sup>—Calculated by average of all other stated figures. <sup>b</sup>—Tabulated by author from the directory issued by the New Jersey State Board of Pharmacy under date of January 1924.

	State with Tri-annual Registration.											
34	Ohio	<b>4,5</b> 00	150	4,350	2,400	3,600	750	171	36,365	25,277		
	States Having	No Perio	dic Rene	ewal of I	Registratio	n or Pub	lishing	Incom	plete Dat	ta.		
35	District of											
	Columbia	500	300	200	<b>25</b> 0			22	9,157	7,001		
36	Maryland	1,000			550			75	14,302	10,357		
37	Massachusetts	2,800			1,804			191	41,493	33,744		
38	Michigan	4,627			1,981			114	21,232	15,853		
39	Mississippi	1,100			634			41	6,190	4,229		
40	New York	15,000			5,487			448	111,010	85,714		
41	Pennsylvania	6,000			3,740			309	61,162	47,200		
	Totals	31,027			14,446			1,200	264,546	204,098		
42	Delaware				110			9	1,063	783		
43	Georgia				1,095			57	9,074	7,121		
44	Maine				395			40	5,028	3,885		
45	Nevada				46			9	580	304		
46	Rhode Island				324			25	5,507	3,563		
47	Texas				2,927			117	17,307	12,384		
48	Washington				690			77	11,587	8,549		
49	West Virginia	• • •			419		• • •	51	7,129	4,956		
	Totals	?	?	?	6,006	?	?	385	57,275	41,545		

Table II.—Showing the Percentage of the Total Number of Registered Pharmacists Who Are Non-residents of the State.

State.	Idaho.	Missouri.	Wyoming.	New Hampshire.	New Jersey.	Average.
Percentage of total	36.8	30.0	34.0	28.4	27.7	31.4

Table III.—Same States as in Table I from 1 to 34 with Non-resident Registered Pharmacists Calculated with Average Percentage from Table II. Figures from Table I Are Given for Comparison.

	State.		resident. Calculated.	Resi- dent.		State.		resident. Calculated	Resi- dent,
1	Alabama		328	717	18	Nebraska	100	628	1,372
2	Arizona	100	130	285	19	New Mexico	500	262	571
3	Arkansas	300	314	686	20	North Carolina	15	314	686
4	California	100	2,575	5,625	21	North Dakota	150	190	429
5	Colorado	300	615	1,345	22	Oklahoma	700	911	1,989
6	Connecticut	150	432	943	23	Oregon	300	<b>44</b> 0	960
7	Florida	400	321	822	24	South Carolina	150	314	686
8	Idaho	252	(215)	(432)	25	South Dakota	250	188	412
9	Illinois	500	1,884	4,116	26	Tennessee		487	1,063
10	Indiana	200	1,245	2,719	27	Utah		118	258
11	Iowa	500	1,413	3,087	28	Virginia	200	401	877
12	Kansas	250	675	1,475	29	Wisconsin	215	675	1,475
13	Kentucky		581	1,269	30	Wyoming	75	(69)	(145)
14	Louisiana	200	578	1,262	31	New Hampshire	143	(158)	(360)
15	Minnesota	400	675	1,475	32	New Jersey		(1,014)	(3,658)
16	Missouri	1,556	(1,628)	(3,629)	33	Vermont		141	309
17	Montana	300	216	471	34	Ohio	150	1,413	3,087
						Totals	•	21,525	48,705

Where parentheses are used the original figures were employed in total summary.