#### CHAPTER 1.-DRUG STORES AND THEIR OPERATIONS

**Description of the business.**—The stores described in this report are engaged primarily in selling drugs, proprietaries, pharmaceuticals, patent medicines, prescriptions, and toilet goods at retail. They sell a variety of other merchandise in both related and unrelated lines in widely varying proportions, but the sale of drugs, sick-room supplies, and toiletries constitutes the bulk of the business. Other stores may, and do, sell drugs and toiletries, but unless such sales predominate such stores are not classified in the Retail Census as drug stores.

Number of stores and sales.—There were 58,258 drug stores in operation in the United States in 1929 and the sales of these stores amounted to \$1,690,398,682. This national sales total represented 3.44 per cent of the country's total retail business. Table 1 enumerates these stores and sales by States. Drug stores are classified into two kinds in each of the separate State reports, namely, those with fountains and those without fountains. There are also other kinds of drug stores, but the data furnished permitted no greater segregation of classification.

There were 23,414 drug stores without fountains reported in operation during 1929. The sales of these stores amount to \$541,138,956. The drug stores with fountains reported sales of \$1,149,259,726 in 34,844 stores. The average sales 'volume of the stores with fountains is materially higher than in the drug stores without fountains. These national averages follow:

RINDS OF BUSINESS	Number of stores	Net sales	Average sales per store
All drug stores	58, 258	\$1, 690, 398, 682	\$29, 016
Drug stores without fountains Drug stores with fountains	23, 414 34, 844	541, 138, 950 1, 149, 259, 726	23, 112 32, 083

AVERAGE DRUG-STORE SALES

Size of stores.—More than 75 per cent of the stores without fountains reported sales of less than \$30,000. Nearly one-fourth of the stores reported sales of less than \$10,000 and more than 55 per cent had annual sales of less than \$20,000. Despite the fact that 23.87 per cent of the stores reported sales of less than \$10,000, they did less than 6 per cent of the business of all stores without fountains. The group with sales from \$10,000 to \$20,000 accounted for one-fifth of the business.

Stores with sales of less than \$30,000 actually accounted for less than 50 per cent of the total sales of fountainless drug stores, although they constituted 76.21 per cent of the total number of stores. Hence, more than 50 per cent of the business of these stores was done by the remaining 23.79 per cent of the stores.

In contrast, only 14.67 per cent of the business of drug stores with fountains was done by the stores with less than \$20,000 of annual sales.

About 30 per cent of all drug stores (10,382) did less than \$10,000 each, but they accounted for only 3.5 per cent of the total drug-store sales. About 69 per cent of the drug stores had an annual volume of less than \$30,000 per store, but these 39,921 stores did only slightly more than 36 per cent of the total business. On the other hand, nearly 46 per cent of the business is done by the 16,641 stores with sales ranging from \$30,000 to \$100,000 annually.

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Classified according to size of business (annual sales per store), the 58,258 stores making up the drug-store total for the United States are shown in the brief table below:

	STORES		SALES		Average sales per	
AMOUNT OF ANNUAL SALES	Number	Per cent	Amount	Per cent	store	
Total—All drug stores	58, 258	100.00	\$1, 690, 399, 000	100, 00	\$29, 016	
Total—All stores with sales of over \$30,000	18, 337	31. 48	1, 073, 535, 000	63. 51	58, 545	
Stores with sales of- Over \$500,000. \$200,000 to \$500,000. \$200,000 to \$300,000. \$100,000 to \$200,000. \$50,000 to \$100,000. \$50,000 to \$500,000.	25 100 277 1, 294 5, 187 11, 454	. 04 . 17 . 48 2. 22 8. 91 19. 66	23, 654, 000 35, 991, 000 65, 290, 000 174, 199, 000 342, 850, 000 431, 545, 000	$\begin{array}{c} 1.\ 40\\ 2.\ 13\\ 3.\ 86\\ 10.\ 31\\ 20,\ 28\\ 25.\ 53 \end{array}$	$\begin{array}{c} 946,160\\359,910\\235,704\\134,621\\66,090\\37,676\end{array}$	
Total—All stores with sales of less than \$30,000	39, 921	68. 52	616, 855, 000	36, 49	15, 452	
Stores with sales of- \$20,000 to \$30,000 \$10,000 to \$20,000 Under \$10,000	12, 673 16, 866 10, 382	21.75 28.05 17.82	$308, 333, 000 \\ 249, 069, 000 \\ 59, 453, 000$	18. 24 14. 73 3. 52	24, 328 14, 708 5, 727	

### DRUG STORES, BY SIZE OF BUSINESS

Table 2 of this report analyzes the stores in greater detail, showing also separate analyses for each of the two kinds of drug stores. State reports provide similar data for each State. A study of these separate State reports discloses many significant differences in the size of stores in different sections of the country.

Geographic arrangement of stores and sales.—More than 12 per cent of the total drug-store business of the country is transacted in the stores located in the State of New York. Next in order of relative sales importance are Illinois, California, Pennsylvania, Texas, Ohio, Michigan, and Massachusetts. These eight States, which contain 47 per cent of the total population of the United States and 50 per cent of the drug stores, account for slightly less than 53 per cent of the country's drug-store business, or more than the remaining 40 States and the District of Columbia combined.

The table given below illustrates the many irregularities of geographic distribution of drug stores. The States are arranged in the order of their relative sales importance, which does not necessarily correspond closely to the order of population. Also this store arrangement does not correspond to per capita sales of drug stores. It is obvious that this is partly due to the variety of merchandise sold and the variation in the importance of many of the commodities in different sections of the country. It is, however, apparent that some relationship does exist between the number of stores and the populace. This relationship is discussed in some detail on page 11.

#### DRUG-STORE SALES BY STATES

[Arranged in the order of sales importance]

STATES IN ORDER OF SALES         Drug-store sales         Drug-store sales         Curnu- lative per total         STATES IN ORDER OF SALES         Drug-store sales         Curnu- lative per sales           United States, total         Drug-store sales         Drug-store sales         Drug-store sales         Drug-store sales         Drug-store sales         Drug-store cent of States         Drug-store sales         Drug-stor sales		-						
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		Drug-store sales	cent of United States	lative per cent of United States		Drug-store sales	cent of United States	lative per cent of United States
Connecticut	total	$\begin{array}{c} 203, 102, 709\\ 131, 448, 830\\ 115, 831, 476\\ 113, 200, 508\\ 97, 083, 841\\ 90, 819, 227\\ 78, 700, 206\\ 64, 378, 590\\ 66, 820, 797\\ 50, 088, 720\\ 46, 027, 488\\ 37, 307, 270\\ 36, 975, 202\\ 33, 003, 670\\ 30, 675, 202\\ 27, 860, 328\\ 26, 136, 525\\ 227, 860, 328\\ 225, 136, 525\\ 25, 110, 070\\ 24, 976, 944\\ 24, 602, 999\\ 23, 398, 535\\ \end{array}$	$\begin{array}{c} 12.\ 02\\ 7.\ 78\\ 6.\ 85\\ 6.\ 71\\ 5.\ 73\\ 5.\ 37\\ 4.\ 06\\ 3.\ 81\\ 3.\ 53\\ 3.\ 00\\ 2.\ 76\\ 2.\ 21\\ 2.\ 13\\ 1.\ 05\\ 1.\ 82\\ 1.\ 46\\ 1.\ 49\\ 1.\ 48\\ 1.\ 48\\ 1.\ 46\\ 1.\ 48\end{array}$	$\begin{array}{c} 12.02\\ 10.80\\ 26.05\\ 33.30\\ 00\\ 44.40\\ 40.12\\ 62.93\\ 55.46\\ 50.46\\ 60.222\\ 60.56\\ 60.56\\ 70.33\\ 71.99\\ 73.63\\ 75.12\\ 76.60\\ 70.54\\ 70.54\\ 80.92\\ \end{array}$	Virginia. Louisiana. Nebraska	$\begin{array}{c} 22, 700, 756\\ 21, 000, 101\\ 20, 384, 940\\ 10, 052, 349\\ 18, 273, 293\\ 17, 310, 073\\ 10, 413, 828\\ 10, 344, 178\\ 14, 820, 400\\ 13, 344, 706\\ 13, 344, 706\\ 13, 344, 706\\ 13, 344, 706\\ 13, 80, 600\\ 13, 344, 706\\ 14, 800, 400\\ 13, 344, 706\\ 14, 800, 600\\ 6, 182, 425\\ 7, 256, 425\\ 7, 256, 425\\ 7, 256, 425\\ 7, 256, 425\\ 7, 256, 425\\ 7, 256, 425\\ 7, 256, 425\\ 7, 256, 425\\ 7, 256, 425\\ 7, 256, 425\\ 7, 256, 425\\ 7, 256, 425\\ 7, 256, 425\\ 7, 266,$	$\begin{array}{c} 1 & 34 \\ 1 & 25 \\ 1 & 21 \\ 1 & 13 \\ 1 & 02 \\ 1 & 07 \\ 07 \\ 07 \\ 07 \\ 07 \\ 07 \\ 07 \\ 07$	$\begin{array}{c} 84, 96\\ 84, 96\\ 80, 212\\ 88, 55\\ 89, 65\\ 89, 65\\ 90, 65\\ 91, 62\\ 92, 50\\ 91, 62\\ 92, 50\\ 91, 62\\ 92, 50\\ 91, 62\\ 92, 50\\ 91, 62\\ 92, 50\\ 91, 50\\ 91, 50\\ 91, 50\\ 91, 50\\ 91, 50\\ 91, 50\\ 91, 50\\ 91, 50\\ 90, 50\\ 90, 75$

Nearly 23 per cent of the drug-store business is concentrated in the East North Central Division, surrounding Chicago. The Middle Atlantic Division centering on New York City accounts for nearly 22 per cent more. These two divisions and the West North Central Division (with 11 per cent of the drug-store sales) contain 55 per cent of the country's drug stores and account for more than 55 per cent of the drug-store sales. The divisional allocation of stores and sales is as follows:

STORES Per cent SALES of total DIVISION popula-tion Number Per cent Dollars Por cont United States, total 100.00 58, 258 100.00 1,000,398,682 100.00 New England. 7.09 21.71 22.70 6.65 3,902 119, 870, 631 6.70 Middle Atlantic.... East North Central..... West North Central.....  $\begin{array}{c} 110,\,870,\,631\\ 306,\,091,\,943\\ 383,\,601,\,013\\ 186,\,200,\,812\\ 103,\,375,\,498\\ 87,\,645,\,881\\ 172,\,791,\,285\\ 54,\,003,\,590\\ 155,\,708,\,020\\ \end{array}$ 12, 614 12, 000 7, 515 5, 808 21.38 21. 65 20.6120.61 10,83 12,00 11. 02 South Atlantic.... 12.86 10.07 9,66 East South Central 8,05 3, 468 5.95 5.18 West South Central 9.926, 488 11, 14 10. 22 Mountain 3.02 1,778 3.05 3. 20 Pacific\_\_\_\_\_ 0.68 7, 93 155, 768, 020 9, 22

DRUG STORES AND SALES BY GEOGRAPHIC DIVISIONS

How size of city affects sales.—The cities of more than 30,000 population (with 38.75 per cent of the population of the country) contain 49 per cent of all drug stores and they account for nearly 59 per cent of the drug-store business. This proportion varies in different sections of the country, depending on the number of cities of more than 30,000 population located therein. In those States having a fairly large proportion of both large and small cities, the ratio of sales in the cities

of more than 30,000 population exceeds 60 per cent, and increases proportionately with the number of large eities and the increase in eity population. The United States sales ratio for eities from 10,000 to 30,000 population is nearly 12 per cent with 8.77 per cent of the national population and for places of less than 10,000 population is hardly more than 29 per cent with 52.48 per cent of the population. These average ratios also vary between States depending upon the number of eities within their boundaries.

There are six States in which there are no cities of more than 30,000 population. In five of these six States the proportion of sales for the 10,000 to 30,000 group exceeds 24 per cent. Idaho (the one State excepted) with 85 per cent of the drug-store sales in places of less than 10,000 population has the highest sales ratios for the under 10,000 group of any of the States; 91.46 per cent of the population of Idaho live in such smaller communities. The lowest sales ratio for the under 10,000 places among the six States is Nevada where the ratio is 65.87 per cent. For more detailed data see Table 1.

Factors affecting sales of drug stores.—There are a number of factors which affect the sales potentialities of drug stores. One of the influencing factors naturally is population. However, population is only one of the influencing factors and alone is not a reliable index of sales potentialities because of the other factors directly affecting the buying habits of purchasers. Even between States, as reflected in the table shown below, per capita sales are unreliable and should be used only by those thoroughly conversant with the many other factors involved and then only with extreme caution and care.

Another factor which exerts a strong influence on the sales of drug stores is eustomer preference, which may be the result of habit induced by any one of a number of causes such as advertising, convenience of location, local reputation, religious or civic prejudice, length of store hours, and sometimes local legislative restrictions. Another factor is the character of the community which the stores are serving, while still another may be described as the character and aggressiveness of local competition. All of these factors are particularly emphasized in connection with the related lines of merchandise which are sold by drug stores. However, in the sale of these related lines the drug stores, as a general rule, have a distinct advantage over other kinds of stores. Because of the variety of merchandise sold and the long business hours, it is possible to attract many customers who would, under normal conditions, purchase from a store of another kind. It is well recognized that in most drug stores, particularly the neighborhood stores, the evening hours when most other stores are closed, are the best from the standpoint of sales.

A more reliable index, and one which takes into account many of the factors discussed, is found in a comparison of the sales of a given kind of store or a given commodity to the total retail sales of the State. The comparison of the ratio for a given State to the United States ratio expresses the relative position of that kind of store in that State. Similarly a comparison for a city may be made with the State ratio. This method is referred to as the position index. For example, in New York State the sales of drug stores constitute 2.88 per cent of the total sales in that State. The sales for all drug stores in the United States average 3.44 per cent. Thus the position index for drug stores in the State of New York is 84 (that is, 2.88 per cent is 84 per cent of 3.44 per cent).

In the table following is shown the position of drug stores in relation to all other kinds of stores in the form of a position index, with 100 representing the average ratio of drug-store sales to total retail sales.

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### RANKING OF STATES WITH PER CAPITA SALES AND POSITION INDEX

	1	1	1	1				
	Per cent of drug	Position index		n Nonan agamu opinina		RANK		- No. 1
STATES .	store sales to State total sales in all stores	(relation of State drug store sales to U, S, sales)	Per eaplta sales of drug stores	Order of popu- lation	Order of drug store sales	Order of per capita sales	Order of num- ber of drug stores	Order of posi- tion index
United States	8.44	100	\$13, 77					
NEW ENGLAND:	0.00	0.0						
Maino. New Hampshire	3, 13 3, 58 2, 07	97 108 81 91 104 80	$\begin{array}{c} 12,87\\ 14,65\\ 11,73\\ 15,15\\ 16,55\\ 14,20 \end{array}$	35 42 46 8 37 29	37 41 46 8 30 23	20 20 32 18 10 22	30 41 45 9 35 27	20 10 45 36 25 41
MIDDLE ATLANTIC: Now York. Now Jersey. Pennsylvania. EAST NORTH CENTRAL:	2, 88 2, 74 2, 98	84 80 87	16, 13 12, 54 11, 75	$\begin{array}{c}1\\9\\2\end{array}$	$10 \\ 10 \\ 4$	14 27 31	$1 \\ 10 \\ 2$	44 40 40
Olio Indiana Illinois Michigan Wisconstin WEST NORTH CENTRAL:	3, 17 3, 81 3, 55 3, 54 2, 91	$92 \\ 111 \\ 103 \\ 103 \\ 85$	$\begin{array}{c} 13.\ 06\\ 14.\ 40\\ 17.\ 23\\ 16.\ 27\\ 12.\ 24 \end{array}$	4 11 3 7 13	6 11 2 7 13	23 21 5 13 20	0 11 3 7 13	34 17 20 27 45
Minnesota Iowa Missouri North Dakota South Dakota Nebraska Kansas	$\begin{array}{c} 2.\ 67\\ 3.\ 40\\ 4.\ 13\\ 2.\ 63\\ 3.\ 16\\ 3.\ 62\\ 4.\ 12\\ \end{array}$	78 99 120 76 92 105 120	$\begin{array}{c} 10,93\\ 13,30\\ 16,48\\ 0,08\\ 11,63\\ 14,70\\ 10,34 \end{array}$	18 10 38 30 32 24	$16 \\ 14 \\ 0 \\ 42 \\ 38 \\ 27 \\ 15 \\ 15 \\ 16 \\ 16 \\ 16 \\ 16 \\ 16 \\ 16$	$35 \\ 24 \\ 11 \\ 43 \\ 34 \\ 10 \\ 12$	17 12 8 38 37 23 15	47 28 9 48 35 22 10
SOUTH ATLANTIC: Delaware. Maryland District of Columbia Virginia. West Virginia. North Carolina. South Carolina. Georgía. Florida EAST SOUTH CENTRAL:	$\begin{array}{c} 2.43\\ 3.08\\ 4.88\\ 3.77\\ 2.98\\ 3.82\\ 3.96\\ 4.39\\ 4.87\end{array}$	71 90 142 110 87 111 115 128 142	$\begin{array}{c} 10.\ 55\\ 11.\ 08\\ 33.\ 71\\ 9.\ 38\\ 7.\ 72\\ 7.\ 88\\ 6.\ 84\\ 9.\ 58\\ 16.\ 70\end{array}$	47 28 41 20 27 12 26 14 81	48 28 31 25 34 20 35 17 21	36 33 1 41 47 48 40 40 6	48 30 40 28 34 21 33 10 18	49     38     1     1     1     3     3     1     1     3     1     1     7     2     2     1
Kontucky. Tennessee. Alabama. Mississippi. WEST South CENTRAL:	3, 88 3, 91 4, 44 3, 95	$113 \\ 114 \\ 120 \\ 115$	8, 71 9, 61 8, 84 8, 13	$17 \\ 10 \\ 15 \\ 23$	$24 \\ 18 \\ 22 \\ 32 \\ 32$	45 30 44 46	22 20 10 20	$15 \\ 14 \\ 5 \\ 12$
Arkansas Louisiana Oklahoma Texas MOUNTAIN:	$\begin{array}{c} 4,19\\ 4,42\\ 4,60\\ 4,75\end{array}$	$122 \\ 128 \\ 130 \\ 138 $	$\begin{array}{c} 9, 33 \\ 10, 04 \\ 15, 57 \\ 16, 67 \end{array}$	$25 \\ 22 \\ 21 \\ 5$	$30 \\ 26 \\ 12 \\ 5$	$^{42}_{38}_{16}_{8}$	$20 \\ 24 \\ 14 \\ 4$	8 6 4 3
Montana. Idaho Wyoming Colorado New Mexico Arizona Utah. Nevada	$\begin{array}{c} 2,94\\ 3,28\\ 3,05\\ 3,92\\ 3,59\\ 3,60\\ 3,11\\ 3,33\end{array}$	85 05 100 114 104 106 90 97	$\begin{array}{c} 13, 32\\ 12, 47\\ 16, 74\\ 17, 04\\ 10, 14\\ 10, 06\\ 12, 03\\ 18, 41\\ \end{array}$	39 43 48 33 45 44 40 49	40 44 47 29 45 39 43 43	$25 \\ 28 \\ 7 \\ 4 \\ 37 \\ 9 \\ 30 \\ 3 \\ 3 \\ 3 \\ 3 \\ 3 \\ 3 \\ 3 \\ 3 \\ $	39 42 47 31 40 44 43 49	42 31 13 24 20 37 30
PACIFIC: Washington Oregon Oalifornia	3. 30 3. 25 3. 61	93 04 105	$\begin{array}{c} 16,07\\ 15,54\\ 20,40 \end{array}$	30 34 6	$\begin{smallmatrix}&19\\33\\&3\end{smallmatrix}$	15 17 2	25 32 5	33 32 23

There are 26 States and the District of Columbia in which the drug stores hold a better than average position, or more than 100. This indicates that in these States the drug stores do a greater proportion of total sales than in the other States. It is obvious that the District of Columbia, which is coextensive with the eity of Washington can not be compared with any of the States. Also, because of the peculiarities of its composition there is very little basis for its comparison with any other city. There are 11 States in which the position index ranges from 1 to 10 points below the national average. These States are Iowa, Maine, Nevada, Idaho, Oregon, Washington, Ohio, South Dakota, Massachusetts, Utah, and Maryland. The remaining 11 States vary from 13 to 29 points below the national average. These 11 States in the order of their position index are West Virginia, Pennsylvania, Connecticut, Montana, Wisconsin, New York, Vermont, New Jersey, Minnesota, North Dakota, and Delaware. While it is doubtless true that sales are influenced by such factors as elimate, population, relative wealth and standards of living, no one of these is the dominating factor responsible for these varied differences. In fact, a study of the differences between the position index and sales suggests the presence of other influencing factors, some of which are known and therefore can be measured, and others about which little real knowledge is available and therefore can not be satisfactorily gaged.

There is nothing to indicate that the per capita consumption of drugs is appreciably lower in the 22 States below the national average than in the 26 States above that average. The fact that drugs, patent medicines, etc., are frequently sold by department stores, general merchandise stores, and general stores partly explains some of the marked differences which are so evident from an examination of the tables. The fact that the sales volume is influenced by the character and proportions of related commodities sold probably furnishes a better explanation. Further discussion of this matter must be deferred until the discussion of the commodity sales of these stores.

The per capita sales column has been added solely for the purpose of illustrating the many differences and to show that no real close relationship exists between drug-store sales and population. As a relative measure for city consumption the per capita sales figures are even less reliable than as a State index.

The most consistent relationship yet developed is that which exists between population and the number of stores (rather than sales). There are few exceptions to this parallel and in each of those where a material difference appears, an obvious explanation presents itself. The following table shows the relationship between number of stores and population. This table includes all retail stores as well as drug stores only in order that significant differences in both relationships will be apparent.

	Population			STORES PER 1,000 FOPULATION		
DIVISIONS AND STATES	(thousands)	All stores	Drug stores	Allstores	Drug stores	
United States, total	122, 775	1, 543, 168	58, 258	12. 57	0. 47	
NEW ENGLAND Multon New Hampshire Vermont Massachusetts Rhote Island Connecticut	707 465 360 4, 250	$\begin{array}{c} 108,764\\ 11,001\\ 0,657\\ 5,180\\ 54,183\\ 0,542\\ 22,202 \end{array}$	3, 902 378 228 148 1, 971 403 774	$\begin{array}{c} 13.32\\ 13.91\\ 14.10\\ 14.41\\ 12.75\\ 13.89\\ 13.81\\ \end{array}$	, 48 , 47 , 40 , 41 , 40 , 59 , 48	
MUDLE ATLANTIC. Now York Now Jersoy Pompsylania.	$26, 261 \\ 12, 588 \\ 4, 041 \\ 9, 632$	385, 302 190, 017 60, 010 135, 275	$12, 614 \\ 6, 392 \\ 1, 817 \\ 4, 405$	14. 67 15. 09 14. 85 14. 04	.48     .51     .45     .46	
EAST NORTH CENTRAL. Ohlo. Indiana. Illinois. Mioligan. Wisconsin.	25, 207 0, 647 3, 238 7, 031 4, 842 2, 939	317, 667 83, 717 41, 618 96, 900 55, 958 39, 474	12,006 2,808 1,621 3,809 2,416 1,292	12, 56 12, 50 12, 85 12, 70 11, 56 13, 43	. 47 . 43 . 50 . 50 . 50 . 44	

#### NUMBER OF RETAIL STORES AND NUMBER OF DRUG STORES PER 1,000 POPULATION BY STATES AND GEOGRAPHIC DIVISIONS

NUMBER OF RETAIL STORES AND NUMBER OF DRUG	STORES PER 1,000 POPULATION
BY STATES AND GEOGRAPHIC DIVIS	IONS-Continued

	Deputation			STORES PER 1,000 FOPULATION		
DIVISIONS AND STATES	Population (thousands)	All stores	Drugstores	All stores	Drug stores	
West NORTH CENTRAL Minnesota Iowa Missouri North Dakota South Dakota Nehraska Kansas	2, 504 2, 471 3, 629 681 603 1, 378	$170, 644 \\ 30, 725 \\ 32, 716 \\ 47, 039 \\ 8, 077 \\ 8, 845 \\ 17, 037 \\ 25, 605 \\ 170, 100 \\ 100 $	7, 515 1, 079 1, 448 2, 330 285 357 876 1, 134	$12.83 \\ 11.98 \\ 13.24 \\ 12.96 \\ 11.86 \\ 12.76 \\ 12.80 \\ 13.61 $	$\begin{array}{c} 0.58 \\ .42 \\ .58 \\ .04 \\ .42 \\ .51 \\ .63 \\ .60 \end{array}$	
SOUTH ATLANTIC Delaware Maryland District of Columbia Virginia West Virginia. North Carolina South Carolina Georgia Florida	$238 \\ 1, 032 \\ 487 \\ 2, 422 \\ 1, 729 \\ 3, 170 \\ 1, 739 \\ 2, 909 \\ $	$\begin{array}{c} 169,008\\ 3,088\\ 21,082\\ 5,931\\ 26,120\\ 17,244\\ 28,831\\ 16,036\\ 28,687\\ 22,449 \end{array}$	$5,868\\107\\654\\240\\771\\475\\920\\530\\1,132\\1,027$	$\begin{array}{c} 10.70\\ 15.49\\ 12.02\\ 12.18\\ 10.78\\ 9.07\\ 9.09\\ 8.05\\ 0.80\\ 15.29\end{array}$	. 37 . 45 . 40 . 32 . 27 . 29 . 31 . 30 . 70	
EAST SOUTH CENTRAL. Kontucky Tennessee Alabama. Mississippi	2, 615 2, 616 2, 646	$\begin{array}{c} 80,199\\ 27,117\\ 23,384\\ 21,442\\ 17,256\end{array}$	3, 408 887 920 945 710	$\begin{array}{c} 9.\ 02\\ 10.\ 37\\ 8.\ 94\\ 8.\ 10\\ 8.\ 58\end{array}$	. 35 . 34 . 35 . 30 . 35	
WEST SOUTH CENTRAL Arkansas Louisiana Oklahoma Texas		$\begin{array}{c} 135, 482 \\ 17, 937 \\ 23, 288 \\ 27, 339 \\ 66, 918 \end{array}$	6, 488 820 864 1, 280 3, 518	11.139.6711.0811.4111.40	. 53 . 44 . 41 . 53 . 60	
MOUNTAIN. Montana Idabo Wyoming. Colorado New Mexico. Arizona. Utah Nevada.	537 445 226	44, 661 6, 951 4, 916 2, 983 13, 903 4, 191 5, 068 5, 249 1, 310	$1,778 \\ 272 \\ 202 \\ 124 \\ 048 \\ 133 \\ 100 \\ 187 \\ 40$	$\begin{array}{c} 12,06\\12,94\\11,05\\13,20\\13,51\\0,91\\11,02\\10,33\\14,39 \end{array}$	. 48 . 51 . 55 . 62 . 31 . 38 . 37 . 50	
PACIFIC	8, 194 1, 563 954 5, 677	$122, 371 \\ 22, 110 \\ 14, 570 \\ 85, 691$	4, 619 846 507 3, 206	14, 93 14, 14 15, 27 15, 09	. 50 . 54 . 59 . 50	

• Cash versus credit.—A total of 48,954 drug stores out of the United States total of 58,258 stores reported data concerning their credit activities. These 48,954 stores are included in a detailed analysis in which they are classified according to the degree of credit business. Slightly more than 54 per cent reported that they were selling entirely for cash. This 54 per cent of the stores account for 54 per cent of the business. The remaining 46 per cent reported that they sell on credit as well as for cash. However, credit represents a relatively insignificant part of the total sales.

Based on this analysis of the 48,954 stores, the fact that the 54 per cent which sell strictly for cash actually do 54 per cent of the business, invites the conclusion that cash stores have no sales advantages over credit-granting stores. However, further analysis of the figures indicates that higher average sales are reported by the fountain stores selling for each than are reported by the strictly professional drug stores operating on the same cash basis. Other significant differences are brought out in the following table:

DEGREE OF CREDIT	Number of stores	Total sales, cash and credit, (shown in thousands)	Approximate cash sales (computed) (shown in thousands)	Approxi- mate credit sales (com- puted) (shown in thousands)
All cash. 1 to 10 per cent credit	$\begin{array}{c} 26,529\\ 10,015\\ 4,529\\ 3,319\\ 2,414\\ 1,169\\ 406\\ 229\\ 165\\ 179\\ 48,954\end{array}$	$\begin{array}{c} \$775, 944\\ 262, 744\\ 131, 538\\ 106, 562\\ 79, 184\\ 34, 970\\ 14, 979\\ 7, 022\\ 7, 652\\ 5, 301\\ 1, 426, 396\\ 100, 00\\ \end{array}$	\$775,944 249,607 110,508 79,921 51,470 19,233 6,345 2,458 1,913 580 1,298,279 9,02	\$13, 137 20, 730 26, 641 27, 714 15, 737 8, 634 4, 564 5, 739 5, 221 128, 117 8, 98

#### CREDIT SALES IN DRUG STORES

As indicated above, credit represents only about 9 per cent of the sales of stores reporting as to their credit activities. There is no reason to believe that the cash and credit ratios of the 9,304 stores which furnished no data on this subject would be materially different than those which did report. In fact, it is doubtful if any adjustment in percentages would be necessary in view of the fact that the reporting stores accounted for 85 per cent of the total drug-store business.

Careful consideration of the figures shown in Table 3A indicates that the drug stores with fountains and the professional type drug stores doing an all-cash business have a slight sales advantage over those credit-granting drug stores which do no more than 10 per cent of their business on a credit basis. In each of the other credit groupings the credit factor seems to offset other inherent advantages of the cash stores. Such comparisons must be made cautiously, however. There is no ground for assuming that a credit store could change to a strictly cash store and still enjoy the same patronage. Even the character of a part of the merchandise might change. Credit-granting stores may be considered, in many respects, a different kind of business from all-cash stores.

Independents versus chains in the drug field.—Chain organizations, further classified as local, sectional, or national chains operated 3,526 stores with total sales of \$312,450,889 in 1929. These 3,526 stores were operated by 249 chains and the sales represented 18.49 per cent of all drug-store sales. Of the independents, 50,088 were single-store independents, with sales of \$1,210,201,836, which is 71.59 per cent of the total; and 4,497 are 2-store and 3-store independents and local branch systems with sales of \$161,783,820, which is 9.57 per cent of the total. (See Table 4, page 39).

In the cities of more than 30,000 population 28.46 per cent of the drug-store business is done by the chains. In cities of 10,000 to 20,000 population 10.25 per cent of the drug-store business is done by the chains. In places of less than 10,000 population, the chains account for only 1.89 per cent of the business. These proportions vary somewhat in different sections of the country, as shown in Table 4.

CHAINS Total Per cent Number or of total amount 3, 513 \$312, 301, 721 \$27. 64 6,03 58, 258 \$1, 690, 398, 682 18,48 Number of stores..... \$27, 16 Sales Expenses (per \$100 of sales)\_\_\_\_\_

#### DRUG STORES

**Drug chains.**—The merchandising series of reports includes one devoted to drug chains (R-66).<sup>1</sup> This report shows that nearly one-fourth of all chain units operating at the end of 1929 were established during that year, and that 36 per cent were opened during the period from 1925 to 1929. It also shows that 53 per cent of the chain drug stores are located in the two geographic divisions centering around New York and Chicago, namely, the East North Central and Middle Atlantic Divisions, with the greatest chain development in the division which has Chicago for its principal city. The Pacific Coast States have the third highest chain development.

The following table shows a résumé of chain-store data for ready reference:

### SUMMARY-DRUG-STORE CHAINS

Total drug-store chains	249
Chains operating stores with fountain	169
Number of local chains. Number of sectional chains) Number of national chainsj	235 14
Number of national chains	1.4
Total units	3, 513
Chains operating stores with fountain Other drug-store chains.	$3,031 \\ -182$
Local chains. Sectional and national chains.	1,953 1,560
Total sales	\$312, 301, 721
Chains operating stores with fountain	288, 680, 707 23, 620, 924
Local chains	132,017,912 180,283,809
Store operating expenses (per \$100 of sales)	27.64
Chains operating stores with fountain Other drug-store chains. Chains extending credit Chains not extending credit	27, 88 24, 80
Local chains Sectional and national chains	20, 66 28, 37
Pay-roll cost, 33,417 employees (per \$100 of sales)	13, 44
Chains operating stores with fountain Other drug-store chains	$13.47 \\ 13.12$
Local chains Sectional and national chains	$   \begin{array}{r}     43.01 \\     13.10   \end{array} $
Other store operating expenses, including rent (per \$100 of sales)	14, 20
Chains operating stores with fountain Other drug-store chains	1.4 . 4 4
Local chains. Sectional and national chains	16.07
Rent-3,451 leased stores (per \$100 of sales)	7, 43
Other drug-store chains (463 stores)	D 08

Cost of doing business.—The average expense ratio of drug stores, including both chains and independents, is \$27.11 per \$100 of sales for the entire United States. Of this amount, pay roll is \$15.85 and rent averages \$5.65. The balance includes advertising, supplies, taxes, heat, light, power, insurance, depreciation,

<sup>1</sup> Copies of merchandising series of reports (18 in number) may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., separately or in quantities at 5 cents per copy. In ordering specify Census of Distribution, Retail Merchandising Series, Report No. R-66. interest, delivery service, and other expenses incidental to the operation of drug stores.

The difference in expense between the two kinds of drug stores is negligible. Those with fountains have an average expense rate of \$27.06 per \$100 of sales, as compared with \$27.21 in the stores without fountains. Differences in wage costs are more marked, although the average variation is only about \$1 per \$100 of sales. Fountain stores pay out in salaries and wages an average of 15.43 per cent of sales, while drug stores without fountains pay out an average of 16.73 per cent. The higher wage cost in the stores without fountains is due largely to the absence of the lower-paid fountain employees as is clearly indicated by the average salaries paid. The average annual salary of full-time employees in drug stores without fountains is \$1,324 while in the fountain stores it is \$1,234. An explanatory table follows:

маниунд балаа калаба жала кала – 10 — он онолго кала – истоба кала байан кала салаба салаба са и полоколого собъщ коже кала кала кала кала кала кала кала кал	l an anna an a' faoi an a tao 1600 an a <b>nn an 1</b> 500 an ann an 1500 an an 1	aliya of 17 paralisis françaisis en accesso Salaya de la companya de la companya de la companya	
	Total drug stores	Drug stores with foun- tains	Drug stores without fountains
Average full-time wage. Average part-time wage Average sales per employee cincludes proprietors, full-time and	\$1, 200 \$283	\$1, 234 \$288	\$1, 324 \$272
full-time equivalent of part-time employees). Number of employees par each \$100 of sales Proportion of part timers to total employees (per cent)	16,93	\$7, 993 1, 26 16, 28 \$32, 983	\$7, 862 1, 27 18, 48 \$23, 112
കളും ഡ്യൂക്കിനെ സംഭവം പടിവാനം നിന്നും നിന്നും പിന്നും പിന്നായിയി കുടുന്ന പടിന്നും പുനിനായില് കുന്നില്ന് തിനും പോയുമായില്ലോ തന്ത	and the party of the party determined and the		

EMPLOYMENT AND WAGES IN DRUG STORES

In contrast, the other expenses of fountain drug stores are more than 1 per cent higher, on the average, than are those of stores which do not operate fountains. The rents paid by the fountain stores, which averages nearly threefourths of 1 per cent higher than the professional drug stores, account for the major part of this increase in other expenses. This difference in rentals is made the basis of more detailed explanation later in this chapter.

Costs vary with the size of city.—Total operating costs vary 2 to 4 per cent depending on the size of the city in which the stores are located. For the same kind and type of business it costs more to operate in a large city than in a city of moderate size and more in a small city than in a village or country town. This is because many of the factors entering into the cost of doing business are more expensive in the larger cities. Rent is higher, wages are higher and delivery is more costly. In fact, the same is true of nearly every item of expense involved in drug-store operation in a moderate sized city and is even more so in the larger cities. The general principle that expenses increase with the size of city has been definitely established by the Retail Census.

In the cities of more than 30,000 population the expense ratio for drug stores averages 28.47 per cent; in the cities of 10,000 to 30,000 population it averages 26.44 per cent, over 2 per cent less than the over 30,000 average; and nearly 1 per cent less than the national average of 27.11 per cent; in the places of less than 10,000 population the average is 24.65 which is nearly 4 per cent less than that of the large eities, and about 2.5 per cent less than the national average. For detailed data on expenses see Tables 5 and 9 of this report, and the special chapter on expenses in the Chicago-Milwaukee area beginning on page 27.

Cost of rent.—Nearly 46,000 of the 58,258 drug stores (78.74 per cent) covered by this report are operated in leased premises. These stores account for 86 per cent of the total sales of all drug stores. The cost of rent in these 45,872 stores averages \$5.65 for each \$100 of sales. It has been pointed out in an earlier paragraph that the percentage of rental cost in the drug stores with fountains (with an average rental cost of 5.87 per cent), is higher by three-fourths of 1 per cent than the average of 5.14 per cent for the nonfountain stores. It has been indicated that the advantage in pay-roll costs obtained by the employment of lower priced fountain employees is largely offset by the necessity for selecting locations especially favorable to the sale of ice cream, fountain drinks, and lunches necessitating the outlay of a larger proportion of the stores gross sales in the form of rent.

In comparison with these rent averages for all stores, which include both chains and independents, the average rental cost for chain drug stores is \$7.43 per each \$100 of sales. The chains operating stores with fountains pay an average rental of \$7.65 per \$100 of sales, while those chains which do not operate fountains pay out only 4.76 per cent of their sales for rent. Complete expense data of the operation of drug stores by the chains will be found in the report  $(R-66)^{\perp}$  of the merchandising series entitled "Drug Store Chains."

Stocks on hand.—The stocks of merchandise on hand for sale were reported at cost valuation as of the end of the reporting year. This stock figure is not a measure of turnover and can not be used as a basis for estimating stock turn even though the stock on hand in drug stores at the end of the year be considered to be fairly representative of the average stock carried throughout the entire year, because cost valuations for stocks can not be satisfactorily related to sales without data on the actual marking rate.

In the absence of sufficient data, no attempt has been made to estimate the turnover. However, interested executives of individual stores may gain some helpful data by comparing their stock (cost values at end of year) with the following table:

KIND OF DRUG STORES	Number of stores	Annual sales (1929)	Stocks at cost (end of year)	Ratio of stock to sales
Drug stores, without fountains	23, 414	\$541, 138, 956	\$148, 256, 100	27. 4
Drug stores, with fountains	34, 844	1, 149, 259, 726	225, 7 <b>32, 7</b> 00	19. 6
All drug stores	58, 258	1, 690, 398, 682	373, 988, 800	22. 1
Drug stores in cities of over 30,000 population	28, 602	902, 194, 401	187, 056, 080	18, 0
Drug stores in cities of 10,000 to 30,000 population	5, 773	202, 001, 858	47, 894, 040	23, 7
Drug stores in places of less than 10,000 population	23, 883	496, 202, 423	130, 038, 740	28, 0

RATIO OF STOCK TO SALES

<sup>1</sup> Copies of merchandising series of reports (18 in number) may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., separately or in quantities at 5 cents per copy. In ordering specify Census of Distribution, Retail Merchandising Series Report No. R-00.

### CHAPTER 2.—COMMODITIES SOLD BY DRUG STORES

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Not over 15 per cent of all retail stores keep records in such detail that they are able to report accurately their sales in terms of commodities sold. They know the amount of their total business but many stores can not tell how much of each commodity has been sold. After the experience gained in the Eleven City Census taken in 1926 it was decided to limit requests for data on the commodities sold to the stores located in the cities of more than 10,000 population and to stores in such cities doing at least \$60,000 worth of business annually.

Only about 10 per cent of the drug stores reported sales amounting to as much as \$60,000 annually. Consequently, commodity data were obtained only from that portion of the 10 per cent which was able to furnish detailed figures on each commodity. However, the sales of these stores amounted to approximately 35 per cent of the sales of all drug stores. This sizable sample of the total sales is believed to be fairly representative of the business done by all drug stores and presents a basis for reasonably accurate estimates of that portion of the retail drug business which is not reported in detail.

In the various State reports the commodity sales for each kind of store are shown as a percentage, namely, the percentage which the sales of the given commodity form of the total sales reported by commodities in that kind of store. At the same time the degree of commodity coverage, namely the percentage which the total sales of the stores reporting commodity data form of the total sales of all stores in the same kind of business, is regularly shown.

Applying the commodity ratios against the total sales of all stores in the same kind of business, it is possible to build up what is believed to be a reasonably accurate and approximately complete sales figure for any listed commodity, both for a given kind of business and for all kinds of business combined. The dollar totals as computed for the two kinds of drug stores are shown in Table 7 of this report.

This national commodity-sales table shows as nearly a complete distribution of the sales by commodities as is consistent with the data available, and is believed to be the only commodity information available on a national basis. The table indicates that in addition to sales of drugs, patent medicines, etc., which amount (on the basis stated) to \$563,000,000, and prescription sales of \$209,000,000, the drug stores also had \$221,000,000 of sales in toilet articles and toilet preparations, \$244,000,000 of fountain sales (including drinks, ice cream, and lunches), and \$216,000,000 of cigars, cigarettes, and tobacco products. In addition to these major commodity items there were also a number of other lines carried, which were of lesser sales importance to the drug stores but frequently added considerable to the sales income. The sales figures listed above do not include estimates for the value of medicines dispensed by physicians from their own stocks or by hospitals, dispensaries, and other institutions.

**Competition with other kinds of stores.**—It is popularly recognized that the merchandise sold in drug stores is sufficiently diversified in character to bring those stores into competition with many other kinds of stores. In the case of prescriptions the competition from other kinds of stores is entirely unimportant. The same is true in the case of drugs, patent medicines, etc., since more than 95 per cent of the total retail sales of these lines is sold in drug stores. However,

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there are a number of commodity lines in which drug stores are in direct competition with stores of other kinds, and in other lines they are competing indirectly with still different kinds of stores. This condition is worthy of careful consideration, especially in relation to certain lines of merchandise which are consistently sold in drug stores but which are reported as sold in widely varying propor-Toilet articles and preparations constitute a good typical illustration of tions. the wide variation in the sales volume. The proportion of this merchandise sold by drug stores as reflected by the national average is about 54 per cent of the total. This figure varies between States from a low of 32.5 per cent in Rhode Island to a high of 76.5 in Florida and New Mexico. There are 10 States in which more than two-thirds of the toilet articles and preparations are sold in These States in addition to Florida and New Mexico are Maine. drug stores. New Hampshire, Oklahoma, Arizona, Idaho, Montana, Wyoming, and Oregon. In addition to the States listed above there are eight States in which the proportion of the total United States volume in toilet articles and preparations which is done by the drug stores is from 60 to 65 per cent. These eight States are Kansas, South Dakota, Delaware, Texas, Colorado, Nevada, California, and Washington.

By contrast, the other extreme shows 4 States with a ratio of less than 40 per cent of the sales in drug stores, and 15 States (including the 4 under 40 per cent) with a ratio of less than 50 per cent in drug stores.

The preceding paragraphs have covered the 53.5 per cent of the sales of toilet articles and toilet preparations which were sold by drug stores. The remaining 46.5 per cent, representing all other kinds of business which are selling this commodity item, can be confined very largely to six kinds of stores which together sell 43.5 per cent of the total. These six kinds of stores are shown below with their dollar volume in toilet articles and preparations:

APPROXIMATE SALE OF TOILET ARTICLES AND PREPARATIONS

Department stores	\$76, 503, 769
Variety stores	
Patent medicine, extracts, tolletries dealers (usually house-to-house)	
General stores.	
Dry goods stores	
Women's ready-to-wear stores	
Other retailers (includes beauty parlors, general merchandise stores, lewelry stores, family	
clothing stores, mail-order houses)	12, 404, 112

There are unquestionably many reasons why certain consumers prefer to purchase this merchandise from other than drug stores. The two reasons which are probably the most important to the customer are price appeal and convenience of purchase. Either may influence the sale. Certainly, merchandise of this kind is often featured at reduced prices, or as loss leaders, to draw traffic to other departments. Also the convenience to the customer of being able to purchase at the place of making other purchases is important and often has a tendency to offset any small saving which might be possible by shopping elsewhere.

Commodity sales shown in tables.—Table 8A of this report shows for the United States the approximate total sales of toilet articles and preparations, also of drugs, patent medicines, etc., and shows the kinds of stores selling these commodity lines and the proportions sold by each. This table furnishes a reasonably accurate comparison of the importance of these two lines of merchandise in each of these kinds of business. Supplementing Table 8A are three tables referred to as 8B, 8C, and 8D.

These tables list by States the approximate dollar values of toilet articles and preparations, drugs, patent medicines, etc., and prescriptions sold, shown separately for drug stores and for all other kinds of stores and the proportion of each State's total which was sold by each. These tables provide data from which it is possible to determine the relative importance of these stores as outlets for these three commodity lines in each of the several States. They also provide an explanation of a comment made earlier in this report to the effect that climate apparently has no effect on total drug-store sales.

It might be supposed that in certain sections of the country where the climate is mild or where the temperature is more stable and less subject to sudden changes the health of the residents is better and there is less need for medicants. If so, it does not follow that the number of drug stores is also reduced or that the drug-store sales are proportionately less. Such a circumstance might logically be expected if the drug stores were engaged exclusively in the sale of drugs. patent medicines, etc. However, the high proportion of related and unrelated merchandise which these stores sell frequently offsets the effect on drug-store sales of the particularly healthful climate. The census figures indicate that the drug stores in these areas have usually increased their sales of other commodity lines to the extent that their sales have not suffered in comparison with the sales of other States or the United States as a whole. Florida and California are typical examples of what can be accomplished in successfully promoting other lines to offset low sales in drug lines. Even in number of stores these two States are above the average in relation to population, and their total sales ratios are well above the general average. The commodity figures which are shown in Tables 8A, 8B, 8C, and 8D provide the basis for further study and development of the idea. Further discussion of the commodities sold and their relative importance will be more fully covered in the section devoted to the various lines of merchandise sold.

### CHAPTER 3.—OPERATING EXPENSES OF COMPETING STORES COMPARED

The following table contains the operating expenses of the two kinds of drug stores and six of their principal competitors in the sale of toiletries:

LINDS OF BUSINESS	All cities	Cities of more than 30,000 pop- ulation	Cities of 10,000 to 30,000 pop- ulation	Places of less than 10,000 pop- ulation
Drug stores Department stores Yariety stores Patent medicine, extracts, tolletries dealers (house and home)	Per cent of sales 27, 11 28, 36 24, 96 34, 46 13, 59 24, 17 20, 10	Per cent of saics 28, 47 20, 24 25, 10 (x) 15, 32 25, 85 20, 01	Per cent of sales 20. 44 24. 22 24. 60 (x) 15. 40 25. 71 25. 98	Per cent of sales 24.65 10.84 24.77 (x) 13.38 21.47 24.88

PER CENT OF OPERATING EXPENSES TO SALES

(x) Can not show.

The kinds of business listed above are those which feature toiletries and toilet articles. They do not include eigar stores and stands, and others with which the drug stores compete for the tobacco business; nor does the table include the candy and confectionery stores, competitors for the fountain and candy business of the country. Likewise the eating places, with which many of the drug stores are competing for the light-lunch business, have been excluded. These kinds of business are fully discussed in the special food report soon to be available.<sup>1</sup>

Department stores are the largest competitors of drug stores in the sale of toilet goods. These stores do 18.5 per cent of the nation's retail business in toilet articles and preparations and operate at an average cost of \$28.36 per \$100 of sales. The popularity of this merchandise in department stores is caused partly by price and partly because of its ready accessibility to other desired commodities. The latter is often a sufficiently important consideration, often offsetting the strictly price appeal of the so-called cut-rate drug stores. Beauty parlors operated in department stores are also instrumental in adding many dollars to the sales of toilet-goods departments.

Variety stores are large distributors of toiletries. More than 10 per cent of this commodity item is sold by such stores, which have an average operating expense of \$24.96 per \$100 of sales. Much of the merchandise of nationally advertised brands is put up in special-sized containers for the variety stores.

House-to-house canvassers, representing well-advertised manufacturers of toilet goods, patent medicines, and extracts, are large distributors of these products through agents, where practically the entire selling expense consists of salaries or commissions, and they provide keen competition for many drug stores. The major part of this business is done in the small towns and rural areas. Nearly 7 per cent of toilet-goods business of the country is done by these direct-to-user organizations.

<sup>&</sup>lt;sup>1</sup> Food retailing, a special trade study of the Bureau of the Census, may be obtained from the Superintendent of Documents, Government Printing Office.

General stores found occasionally in the suburbs of the large cities but for the most part located in the small villages and in the country, distribute a material amount of toilet goods. These low-expense stores are able to do business at an expense rate averaging only \$13.59 per \$100 of sales.

Other competitors are dry goods stores with expenses of 24.17 per cent of sales and women's specialty stores having an expense ratio of 29.10 per cent. Each accounts for more than 1 per cent of the national total of toilet-goods sales. Several other kinds of business also sell this merchandise but in such insignificant amounts that they are relatively unimportant from the standpoint of competition. However, they operate at expense ratios well within the drug-store range and are in position to develop this related line. Most retail stores sell a variety of merchandise which can us gated into two classes. The first is *primary or basic commodities* w is *related or secondary commodities*. The first class consists of the representing a substantial proportion of the total goods sold and ally synonymous in the customer's mind with the kind of store in second is made up of goods which are often associated by the cus primary merchandise sold by the store but which are secondary in mind to the primary commodities featured by the stores. Cigars are good typical examples. They are primary commodities in distands but are related or at least secondary commodities in drug and patent medicines are primary merchandise in drug stores but or "related" commodities in department stores.

Retailers are interested in related commodities.--Related comm interest to the retailer because this class of merchandise should with less sales effort and at a correspondingly lower expense than chandise. The drug store is in a particularly advantageous positi of a variety of merchandise lines, as a result of the practices wh developed. They remain open for business later than most of the stores and have come to be recognized by the public as a sort of where many different kinds of merchandise can be secured at nig during the day. They have continually added more lines and field until drugs and prescriptions are only a part of their popular net result has been that morchandise which was once considered to secondary has become such an important item that it is now a bor modity and may be considered in either class with equal authority cigarettes, representing nearly 13 per cent of the drug-store sale examples. Basically these commodities are related rather than pri stores when considered in connection with cigar stores. The same i of the fountains, as evidenced by the fact that there were in 19: 23,000 drug stores which reported no fountain sales. Yet fountain sented 14.5 per cent of all drug-store business and about 21 per cent o of stores operating fountains (which supports the belief that the fe ation has now or will very soon become one of the primary lines stores).

The eigar counter and fountain sales have been considered as re this census and have been so classed in the following table whic comparison of the importance of related commodities between chai all drug stores. The lines which have been considered as primary are: Drugs, patent medicines, etc., prescriptions, rubber goods, hospital supplies, and toilet goods. The table follows:

### RELATED MERCHANDISE SOLD IN DRUG STORES

[Comparison between chains and independents]

KIND OF STORES	Total sales, all commodities	Approxim: sales of oth than prima merchandi
All drug stores with fountains	\$1, 149, 250, 726	\$526, 832, {
Chain stores with fountains	288, 680, 797	136, 834, (
All drug stores without fountains	541, 138, 056	09, 700, 4
Ohain stores without fountains	23, 620, 924	6, 500, 2

Related commodities are of value to the retailer.—The drug-store executive is particularly interested in ascertaining what lines of drug merchandise are being sold by other than drug stores, and what they are doing with such lines; second, what related commodites the other drug stores are selling, to determine the nature and extent of their competition; third, how the expense ratios of these competitors compare with drug stores to develop what is the probable rate of mark up; fourth, to determine the approximate total sale of the merchandise in question in any given city or area, and, fifth, how much of this total is accounted for by each kind of store.

The answers to these questions can be obtained with a minimum of effort by referring to the several State reports of the retail census. Table 1 shows the total sales of each kind of store. Table 15 contains commodity breakdowns for nearly every kind of store. By applying the percentages shown in Table 15 against the total sales reported in Table 1 for the same kind of store it is possible to obtain a close approximation of the dollar sales of any given commodity in the kind of store under consideration.

Related commodities are of value to the manufacturer or wholesaler.—That the drug store offers a present and potential market for manufacturers and wholesalers not interested in drugs and toilet goods is evident when it is realized that fountain sales, which include ice cream and lunches, exceeded \$244,000,000 and that sales of tobacco products amounted to more than \$216,000,000 in drug stores. Confectionery and nuts added \$51,000,000 to the total receipts of these stores. It is also evident that there are other commodity lines for which the drug store provides a substantial present and prospective market.

As indicated in the table on page 22, the independent drug stores have not developed the sale of related commodities in the same proportion as the drug-store chains. In fact, the percentage of related merchandise sold in chain stores without fountains is more than 50 per cent greater than in independent stores without fountains. However, the drug chains have concentrated largely on the cities which no doubt has an important bearing on the sale of related and unrelated merchandise.

The data officially at the disposal of the bureau and available for analysis are limited to the facts contained in the retail questionnaire. This questionnaire was necessarily confined to the minimum consistent with the securing of a mass of necessary basic data. These necessary limitations preclude any attempt to itemize the innumerable commodities which have been developed as related commodities in drug stores. It is significent, however, that 37.1 per cent of drug-store sales relate to commodities other than strictly drug-store merchandise, and this indicates a total sale of such commodities of \$626,631,807.

### CHAPTER 5.-DRUG STORES AS A MARKET

If the manufacturers of the major commodity lines handled by drug stores wanted to contact every drug-store buyer in the country it would require 53,488 separate contacts to reach the 58,258 drug stores and the 959 drug wholesalers: And this would not include wholesalers of candy, tobacco products, and fountain supplies and sirups nor the wholesalers of periodicals and magazines. Also these 53,488 contacts do not take into account the department stores, general stores, variety stores, etc. which are large outlets for many of the same commodity lines.

There are 52,280 independent drug-store proprietors who buy for their stores, either directly from the manufacturer or from their nearby wholesalers. The stores for which they buy do a total retail business of \$1,377,948,000 of which the sale of drugs and patent medicines represents approximately 45.6 per cent, fountain sales about 14.5 per cent, toilet goods about 13 per cent and cigars, cigarettes, and tobacco products 12.8 per cent. There are in addition 240 drug-chain buyers directing the purchases in certain commodity lines for stores with sales aggregating \$312,302,000.

There are also 959 wholesale drug houses whose total sales (wholesale valuation) amounted to \$486,779,000 in 1929. These wholesalers supply the independent stores with a large part of their merchandiso expecially in goods where the turnover is not sufficiently rapid to make purchasing direct from the manufacturer more economical. In the case of the small independent stores, practically all of the merchandise handled is purchased through wholesalers. It is impossible to determine from the data available how many of the independently operated stores are buying their merchandise direct from the manufacturers, but obviously a substantial proportion of the stock of independent drug stores is purchased through wholesalers.

In the case of the chains, where quantity purchases are made wherever possible, the bulk of the merchandise is purchased direct from manufacturers or their agents, with the purchases from wholesalers limited to specialties and items of merchandise for which there is infrequent demand.

Where the buyers are located.—Table on page 26 shows where the drug-store buyers are located. Few, if any, national distributors in the field would ever have occasion to contact all the drug-store buyers. However, the value of this information lies in having authentic knowledge of the number of potential buyers in any geographic division or combination of divisions in the country. These data compiled with the commodity information shown in each of the separate State reports, provide a sound index for establishing sales quotas and for planning promotional campaigns.

Nearly 22 per cent of the buyer contacts are located in the Middle Atlantic Division, centering on New York City, in which city alone there are 3,673 buyers. Philadelphia contains 1,428; Pittsburgh, 314; and Buffalo, 272. These 4 cities alone contain approximately half the buyer contacts in the division. The East North Central Division, centering on Chicago, has 20 per cent of the buyer contacts of the country. Chicago has 1,693; Indianapolis, 234; Cleveland, 405; Detroit, 722; Cincinnati, 229; and Milwaukee, 338.

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More than 6 per cent of the buyers are in New England centering on Boston, which itself has 372. Over 13 per cent are in the West North Central Division. St. Louis has 550 and Kansas City 334. The South Atlantic Division has more than 10 per cent of the drug-store buyers with 388 in Baltimore, 164 in Atlanta, and 187 in Washington, D.C. The States west of the Mississippi comprising the West South Central Division have more than 11 per cent of the contacts. New Orleans has 249; Dallas, 215; San Antonio, 130; and Oklahoma City, 112. The Mountain States contain 3 per cent of the buyer contacts with Denver showing 203. The Pacific Coast States have nearly 8 per cent of the total drug-store buyers of which San Francisco has 328, Los Angeles 792, and Seattle 206.

The table on the following page shows the number of buyer contacts in each of the 9 geographic divisions and in 19 principal cities. In the preparation of this table all chain stores are eliminated from each division and from each of the cities, and the entire buying power or sales volume of such chains is added to State or city where the buying offices are located. Only those cities are listed in which there were 3 or more drug chain headquarters unless at the same time there were an adequate number of drug wholesalers. In a few instances, sales figures are necessarily eliminated to avoid disclosure of individual operations, but the deleted amounts are sufficiently large to warrant the city's inclusion in the table. In some of the cities the number of drug wholesalers is not disclosed by the wholesale census and therefore can not be shown in this table. The fact that none are shown does not necessarily mean that there are none in those cities.

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# RETAIL STORE BUYERS-DRUGS

(Drug stores, drug chains, and drug wholesalers) (

[Sales shown in thousands of dollars]

	INDEPI	-STORE ENDENT FACTS	DEPE	DRE IN- NDENT FACTS	CONTA	V-STORE CTS (CEN- OFFICES)	MER	ESALE- CHANT TACTS	Total bayor con-	Per cent of total con-
Boston, Mass Boston, Mass New York, N. Y. Philadeiphia, Pa Buffalo, N. Y Pittsburgh, Fa. Chicago, III Cheveland, Ohio Cincinnati, Ohio Millwaukee, Wis W. N. CENTRAL St. Louis, Mo Kansns City Mo Sourth AtLANTIC Washington D. O Baltimore, Md. E. S. CENTRAL Birmingham Ala New Orleans La	Stores	Sales	Con- tacts	Sales	Con- tacts	Sales	Num- ber	Sales	tacts	tacts
T. S. totals	50,285	1, 218, 184	2,045	161, 784	249	312, 302	959	486, 779	53, 486	100, 00
NEW ENGLAND	3,378 332	88, 451 10, 029	138 21	10, 649 1, 730	16 3	3, 768 779	63 16	$23,883 \\ 5,280$	3, 505 372	6.7
MIDDLE ATLANTIC New York, N. Y. Philadelphia, Pa. Buffalo, N. Y.	10, 846 3, 353 1, 333 249 286	261, 672 84, 191 22, 344 6, 263 7, 884	436 135 61 15 12	31, 003 9, 710 3, 675 1, 171 1, 246	$     \begin{array}{r}       42 \\       10 \\       8 \\       2 \\       4     \end{array} $	128, 982 115, 297 4, 057 (X) 1, 383	303 175 28 10 12	$118,537 \\ 65,815 \\ 19,712 \\ 5,842 \\ 10,989$	${ \begin{array}{c} 11, 027\\ 3, 073\\ 1, 428\\ 272\\ 314 \end{array} }$	21.7
E. N. CENTRAL. Chicago, Ill. Cleveland, Ohio. Cincinnati, Ohio	9, 993 1, 581 367 217	254, 857 46, 115 9, 684 5, 500	447 71 15 10	37, 353 5, 985 1, 656 000	62 5 4 2	94, 265 47, 667 8, 237 (X)	184 36 19 (x)	102, 288 20, 328 10, 652 (X)	10, 686 1, 693 405 (x)	20. 0
Ind Tulsa, Okla Detroit, Mich	214 56 645	5, 231 1, 857 19, 105	17 3 47	1,292 131 3,707	3 3 14	7, 702 3, 401 8, 030	(X)	(x) (x) 10, 549	$\begin{pmatrix} x \\ x \\ 722 \end{pmatrix}$	
Grand Rapids, Mich	. 90	2, 374	7	538	2	(x)	(x)	(x)	(x)	
Milwaukee, Wis	. 306	7,848	13	763	1	(x)	18	6, 020	338	
W. N. CENTRAL St. Louis, Mo	. 514	145, 504 11, 897	195 21	15,146 1,083		14, 747		53, 504 4, 644	7,150	13.4
	316	7, 983	13	894	5	9, 737	(x)	(x)	(x)	
SOUTH ATLANTIC		116, 887	214	16, 518	24	80, 515	2 105	44, 278	5,405	10.1
D. C Atlanta, Ga Baltimore, Md.	- 175 - 145	5, 507 4, 056 7, 096	9 10 30		2	$\langle x \rangle$	2 7 17	3,601	187 164 388	
E. S. CENTRAL	3, 082	70, 360	80	6, 358	3 0	5, 79	1 48	29, 623	3, 219	6.0
Ala		2, 599	4	314	1 2	(x)	(x)	(x)	(x)	
W. S. CENTRAL	- 5,750	133, 348	215	17, 28	9 82	2 18,70	0 64	45, 620	6,081	11, 3
La. Dallas, Tex	_ 235						6 4 3 7		240 217	
MOUNTAIN Denver, Colo	1, 549 181					1 3,60 3 1,70	3 22 7 8		1,642	3, 1
PACIFIC Los Angeles	3, 740	103, 74	3 26	22, 26	9 2	8 11,80	5 7	5 50, 037	4, 108	7.7
Calif Seattle, Wash San Francisco	) 700					1 5, 10 3 3, 40	18 2: 15 10		200	
Callf	27	7 6, 81	4 2	5 2, 39	16	4 99	96 2	2 12,600	32	3

(x) Indicates number can not be shown.

<sup>1</sup> Does not include department stores, general stores, variety stores, etc., which are large outlots for many kinds of merchandise, particularly toiletries.

This table is in agreement with other tables in this report except that the multiunit independents have been reduced to one buyer for each separate organization. It does not take into consideration the buyers for department stores, specialty stores, variety stores, general stores, and other competitors of drug stores.

### CHAPTER 6.—ALL DRUG STORES LOCATED IN THE CHICAGO-MIL-WAUKEE AREA ANALYZED BY SIZE OF BUSINESS AND BY SIZE OF CITY

The preceding chapters of this report have been devoted to a discussion of national and State averages, supplemented by separate calculations for certain individual cities, in the belief that these general analyses are of maximum value to the greatest number of persons interested in drug store operations.

This chapter is devoted to a detailed analysis of the operating expenses of drug stores in the 22 counties located in reasonably close proximity to the cities of Chicago and Milwaukee. This territory, which has been designated as the Chicago-Milwaukee area, contains the following counties:

Illinois, I	12 counties	Indiana, 3 counties	Wisconsin, 7 counties
Boone. Cook. De Kalb. Du Page Grundy. Kane.	Kankakee. Kendall. Lake. La Salle. McHeury. Will.	Lake. Laporte. Porter.	Dodge. Jefferson. Kenosha. Milwaukee. Racine. Sheboygan. Waushara.

The Chicago-Milwaukee area was selected for special study because the 22 counties comprising it contain a representative number of cities in each of the several size-of-city groups. There are 164 cities and towns of varying size from 1,000 to more than 3,000,000 population as well as a large rural population. All cities and towns are grouped according to size. In addition to Chicago and Milwaukee (the 2 cities in the over 150,000 population group) containing 65.13 per cent of the total population, there are 8 cities with populations ranging from 50,000 to 150,000, containing 8.75 per cent of the population of the area, 9 cities in the group from 25,000 to 50,000 population, containing 5.47 per cent of the population, 30 places from 5,000 to 10,000 population containing 3.52 per cent of the population and 90 places 1,000 to 5,000 population.

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Following is a table showing by counties the number of incorporated eities and towns in each of the respective size-of-city groups:

	POPULATION							
COUNTIES	Over 150,000	50,000 to 150,000	25,000 to 50,000	10,000 to 25,000	5,(NR) £0 10,(NR)	1,000 to 5,000		
Total for area	2	8	1	25	30	90		
Illinois: Boone Cook De Kalb Ju Page Grundy Kane			1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	12 12 1 1	1 0 1 7 1			
Kane. Kankakee. Kondall. Lake. La Salle McHenry.		********	2	1	й Ранитски т. Манрама (17) (1 2) 2) 4			
Will Indiana: Lake La Porte Porter Wisconsin:		3	1	аннокация аннокация 1 1 1 0 листра	а рыя в насти 1 чала ссыя як 1	; ; ;		
Wisconsin: Dodge. Jefferson Kenosha Milwaukee. Racine	1	1	( 1	1	" 1 1	1		
Sheboygan Waushara		L	ī	*******	N 49 A an in in g 21 N 41 Li pa a ar a a			

OITIES AND TOWNS IN THE CHICAGO-MILWAUKEE AREA

<sup>1</sup> Includes incorporated places only, but not the unincorporated or rural areas or any places of less than 1,000 population.

There were 3,053 drug stores operated in the Chicago-Milwaukee area in 1929. The aggregate sales of these stores amounted to \$117,188,947 for the same year. Total operating expenses were \$33,956,325 for an average operating cost of \$28.98 per \$100 of sales, compared with \$27.11 for the United States as a whole. This amount included pay roll, proprietors' compensation, interest, light, heat, power, delivery costs, and all other operating expenses.

Wage costs, by far the largest single item of expense, amounted to \$18,978,324, an average for the 3,053 stores of \$16.19 for each \$100 of sales. Wage costs include wages paid to employees, and proprietors' compensation computed at the same rate as that paid to full-time employees. This computed figure was used instead of the reported salaries of proprietors because many stores failed to report compensation for proprietors while others reported amounts which were obviously out of all proportion to sales.

Rent, the next largest single item of expense averaged \$7.36 for each \$100 of sales. In obtaining this ratio of rent to sales, only those stores which were operating in leased premises were used. Stores operating in owned premises or in premises which were partly owned and partly leased were excluded. All rents are included in total operating expenses.

Stores and sales by size of city.—Nearly 72 per cent of the stores (2,191) in the area were located in the two cities having a population of more than 150,000 and their sales represent more than 75 per cent of the total drug-store sales of the entire area of 22 counties. Nearly 8 per cent of the stores, doing slightly more than 8 per cent of the business, were located in cities having from 50,000 to 150,000

population. Five per cent of the stores, with 5 per cent of the sales, were located in cities from 25,000 to 50,000 population while  $4\frac{1}{2}$  per cent of the stores with  $4\frac{1}{2}$ per cent of the sales were found in places from 10,000 to 25,000 population. The incorporated places with a population of from 5,000 to 10,000 contained only 2.82 per cent of the stores while the sales of these stores represented 2.45 per cent of the total sales of the area. In the places of less than 5,000 population were found 7.70 per cent of the stores. These small-town drug stores were doing but 4.39 per cent of the business for the area. Following is a brief table showing the proportion of stores and sales in each of these size-of-city groups, related to the proportion of the population in each size group:

	Per cent	DRUG	STORES	DRUG STORE	BALES
SIZE OF CITY GROUPS	of popu- lation	Stores	Per cent	Sales	Per cent
Totals for the area	100.00 65.13 8.75 5.47 5.51 3.52 11.62	3, 053 2, 191 240 162 139 86 235	100.00 71.76 7.86 5.31 4.55 2.82 7.70	\$117, 188, 947 88, 033, 394 9, 644, 375 6, 170, 185 5, 318, 197 2, 865, 223 5, 157, 573	100.00 75.12 8.23 5.27 4.54 2.45 4.39

STORES AND SALES BY SIZE OF CITY

Expenses compared in various size-of-city groups.—In the studies previously completed, containing analyses of expenses, in other kinds of business, the ratios have shown that expenses generally increase as the size of city increases. National averages for drug stores, as shown in chapter 1 of this report, bear out the same conclusions for drug stores. However, valuable as the national averages are as general indexes, state and city averages (the bases for which may be found in the separate State reports on retail distribution) should be used whenever possible for studies of any specific area. The soundness of this precautionary measure is clearly established by the expense variations brought out in this study of the Chicago-Milwaukee area. The data shown in the following table, indicate that the size of city does not consistently affect the cost of doing business within the area. In the accompanying table, rent is the only item of expense which steadily increases with the size of city.

While the area covered by this special study includes a fairly representative number of cities of all sizes (see table on p. 28 for number of cities in the various size-of-city groups), the influence of the cities of Chicago and Milwaukee are reflected over a large part of the area. In view of the difference brought to light in this study, it seems important to emphasize the admonition to use State and city averages whenever possible and use national ratios only as a general index and check on the city and State ratios. This is necessary because in any kind of business there are great differences between individual stores which in extreme cases make them practically different kinds of stores. These differences disappear in any grouping of a large number of stores, but may appear as significant differences in a close analysis.

Total operating expenses for the area discussed.—The total operating expenses of the 3,053 drug stores average \$28.98 for each \$100 of sales. Wage costs account for \$16.19 of this amount while the rent averages \$7.36 for the entire area. The highest total operating-expense ratio is found in the group containing the cities of more than 150,000 population where the ratio is \$29.81 per \$100 of sales. The second highest total expense is found in the groups containing the cities ranging in size from 25,000 to 50,000 population where the average is \$29.00 per \$100 of sales. The 5,000 to 10,000 group is third with \$27.40. The 50,000 to 150,000 group of cities is fourth with \$27.06. The group of cities with population from 10,000 to 25,000 follows with a ratio of \$25.88 while the lowest ratio (23.61 per \$100 of sales) is found in the group containing the places of less than 5,000 population.

Wage ratios compared.—Average wage costs in the various size-of-city groups follow a slightly different arrangement from that of total operating expense. The highest wage ratio is found in the group of more than 150,000 population. The 5,000 to 10,000 population group is second with \$15.85. This group is third in total operating costs. Third in average wage costs is the group containing the cities of 25,000 to 50,000 population, which was second in total expense. The 50,000 to 150,000 group is fourth with an average of \$15.02. This follows the same order as total operating cost, as is the case with the over 150,000 cities groups. The 10,000 to 25,000 cities with a wage ratio of \$14.91 and total operating cost of \$25.88 are fifth in both cases. The last group, containing places with less than 5,000 population shows a wage ratio of \$14.81, which is the lowest of the six size groups.

Variation in rentals in different sizes of cities.—It has been shown in other studies that as a general rule the rental costs for leased premises increase in direct relation to the size of the city. In the case of drug stores there is one exception but the amount of difference is not considered to be of sufficient importance to challenge previous conclusions. It is quite possible that the presence of one unusually high-class city or the reverse, in either of the two groups affected, would result in the minor difference found.

Following is a table showing the average expense ratios for the entire area and for each of the six size-of-city groups:

SIZE-OF-CITY GROUPS	Number of stores	Wage costs per \$100 of sales	Total oper- ating ex- pense per \$100 of sales	Rent paid in leased premises per \$100 of sales
Average for entire area	3, 053	\$16. 19	\$28, 98	\$7.30
Average for cliles over 150,000           Average for 50,000 to 150,000 cliles           Average for 25,000 to 50,000 cliles           Average for 25,000 to 25,000 cliles           Average for 5,000 to 10,000 places           Average for under 5,000 places	2, 191 240 162 139 86 235	16.58 15.02 15.24 14.91 15.85 14.81	$\begin{array}{c} 29.81 \\ 27.06 \\ 20.00 \\ 25.88 \\ 27.40 \\ 23.01 \end{array}$	$\begin{array}{c} 7.95\\ 6.11\\ 6.25\\ 4.84\\ 4.72\\ 3.84\end{array}$

#### EXPENSES COMPARED BY SIZE OF CITY

Stores and sales by size-of-business groups.—More than 6 per cent of the drug stores in the Chicago-Milwaukee area had annual sales of more than \$100,000 each. The aggregate sales of these 186 stores amounted to \$31,830,466 (27.16 per cent). Annual sales of \$18,356,578 (15.66 per cent) were reported by the 243 stores (7.96 per cent) whose annual sales were between \$60,000 and \$100,000. The size-of-business group containing stores with sales from \$25,000 to \$60,000, which contains the largest number of stores as well as the greatest total sales of any single group, shows 38.42 per cent of the area's sales from 39.40 per cent of the stores. The \$10,000 to \$25,000 group contains 37.50 per cent of the stores but had only 17.32 per cent of sales, while in the group of stores with sales of less than \$10,000 each, the total sales were only 1.44 per cent from 9 per cent of the area's drug stores. A table showing the relative importance of the size-of-business groups follows:

SIZE OF BUTINESS OROUTS		STORES	DRUG STORE SALES		
	Stores	Per cont	Sales	Per cent	
Total for entire area, Sales of more than \$100,000, Bales from \$60,000 to \$100,000, Bales from \$25,000 to \$25,000, Sales from \$10,000 to \$25,000, Sales from \$10,000 to \$25,000,	150 213 1, 201 1, 141 276	100.00 0.09 7.96 30.40 37.50 9.05	\$117, 188, 047 31, 830, 466 18, 356, 578 45, 070, 879 20, 205, 030 1, 036, 388	100.00 27.16 15.66 38.42 17.32 1.44	

### STORES AND SALES BY SIZE-OF-BUSINESS GROUPS

Expenses of drug stores compared by size-of-business groups.—Recognizing the value of an expense analysis made on the basis of the size of business, a special tabulation has been prepared for drug stores showing how expense ratios vary in the different size-of-business groups.

This special tabulation would seem to indicate that, without exception, in the Chicago-Milwaukee area the operating costs of drug stores decrease proportionately as the stores increase in size (volume of sales), although when the figures for the independent stores are isolated the expense ratio rises again with the largest businesses. The highest expense ratio is shown in the stores with less than \$10,000 of annual sales. Operating costs in these stores amounted to \$47.47 for each \$100 of sales, of which wage costs averaged \$28.53 and rent averaged \$12.52. In the stores with sales ranging from \$10,000 to \$25,000 total expense averaged \$30.40, per \$100 of sales, with wages averaging \$17.39 and rent \$7.75. This 17-point difference in operating costs between these two sizes of stores indicates the limited possibilities for profit in stores doing less than \$10,000 of business annually.

The group with annual sales ranging from \$25,000 to \$60,000 shows an average operating expense of \$28.57 per \$100 of sales, which is about one-half point under the \$60,000 to \$100,000 group with its average of \$29.01. The slight variation in expenses between these two groups suggests that within the range of these two groups there is an ideal size which may be operated with the greatest degree of economy without sacrificing any of the stores' individuality and effectiveness.

The \$25,000 to \$60,000 group, with its total operating cost of \$28.57 per \$100 of sales, has a wage cost averaging \$16.79 and a rental cost averaging \$6.73. In the \$00,000 to \$100,000 group the wage ratio is \$16.25 and rent is \$6.65. Since the total operating cost of these stores is \$29.01 it is clear that all other expenses amount to only \$6.11. The 180 stores, in the 22 counties comprising this area, with sales in 1920 in excess of \$100,000 each, show the lowest operating costs of any of the five-size groups. Their total expense ratio of \$27.70 per \$100 of sales is made up of wage costs, \$13.93, rent \$8.14 (the highest in any size group) and all other expenses of \$5.63 for each \$100 of sales.

1

		EXPENSES FOR EACH \$100 OF SALES				
SIZE-OF-BUSINESS GROUPS	Number of stores	Wage costs per \$100 of sales	Total oper- ating ex- pense per \$100 of sales	Rent paid in leased premises per \$100 of sales		
Total for entire area	3, 053	\$16.19	\$28.98	\$7. 36		
Sales of more than \$100,000 Sales from \$60,000 to \$100,000 Sales from \$25,000 to \$60,000 Sales from \$10,000 to \$25,000 Sales under \$10,000	186 243 1, 204 1, 144 276	13. 93 16, 25 16, 79 17. 39 28. 53	27. 70 29. 01 28. 57 30. 40 47. 47	8. 14 6. 65 6. 73 7. 75 12. 52		

A summary table follows, showing the variations in expense ratios between each of the five-size groups:

Comparison between chains and independents operating in the Chicago-Milwaukee area.—There were 283 chain drug stores and 2,770 independent drug stores in operation during 1929 in the Chicago-Milwaukee area. The chain sales totaled \$33,319,565 as compared with sales of \$83,869,382 by the independently operated stores. Throughout all census reports, multiunit retailers with two or three stores are excluded from the chain classification and are considered multiunit independents.

Degree of chain penetration in various sizes of cities.—Nearly 90 per cent of the chain stores in the entire area were located and operated in Chicago and Milwaukee, the two cities in the area having more than 150,000 population. The sales of these stores represented 90.86 per cent of all chain drug-store sales in the area. The group of cities with 50,000 to 150,000 population contained 7.42 per cent of the chain drug stores whose sales were 6.12 per cent of the chain store total. In the cities from 25,000 to 50,000 population were found 2.47 per cent of the chain stores doing 2.89 per cent of the chain business.

Only one chain drug store was operated in the 10,000 to 25,000 population group while in the 5,000 to 10,000 and in the under 5,000 group no chain drug stores were found. No data on the one chain store located in the 10,000 to 25,000 group can be shown because it would disclose individual store operations. It is evident, from an examination of the data contained in Table 9 that in 1929 the retail drug-store chains had not penetrated, to any appreciable extent into the cities below 50,000 population in the Chicago-Milwaukee area, and that for the most part their stores were located in the cities having a population in excess of 150,000. (In this connection attention is directed to the data contained in Merchandising Series Report No. R-66 entitled "Retail Distribution-Drug Store Chains" covering all drug-store chains in the United States which brings out substantially the same conclusions as are developed in this study of one specific area.)

Average size of drug stores operated by the chains.—The Chicago-Milwaukee area contained only 283 chain drug stores which represented 9.27 per cent of all drug stores in the area. However, the sales of these stores amounted to more than 28 per cent of the area's total drug-store sales. Of this total of chain drug stores, more than half had annual sales in excess of \$100,000 and their aggregate sales were of \$25,899,571 or 77.73 per cent of the total chain drug-store sales for the area. More than 22 per cent of the stores had annual sales ranging from \$60,000 to \$100,000 while about 15 per cent were in the \$25,000 to \$60,000 groups. The \$10,000 to \$25,000 group contained slightly more than 9 per cent of the chain drug stores while the group under \$10,000 had only four chain stores, each of which were new stores opened during 1929 and in operation for only a portion of the year.

Chains predominate as large-store operators.—Nearly 80 per cent of the drug stores with annual sales in excess of \$100,000 were operated by the chains and they did about \$1 per cent of the total business of this large-store group. In the group of stores with annual sales ranging from \$60,000 to \$100,000 the chains operate 25.93 per cent of the stores doing 27.62 per cent of the business of the group. The 211 chain drug stores with sales of more than \$60,000 actually accounted for more than 26 per cent of the entire sales volume of all drug stores in the area.

Table 9 of this report contains a detailed analysis of the 3,053 drug stores located in the Chicago-Milwaukee area. It shows complete sales data by size-ofbusiness groups as well as by size-of-city groups. It further classifies the expenses of the business on the same basis. The four chain stores in the under \$10,000 volume-group are not comparable because they had operated only for part of the year.

Expenses of chains and independents compared.—Table 9 also contains an interesting comparison of operating expenses between chain drug stores and independent drug stores. This expense analysis is further segregated to show separate data by size-of-business groups and by size-of-city groups. The expense ratios show that chain stores doing more than \$100,000 a year in cities having more than 50,000 population are operated at an expense rate approximately 2 per cent lower than that of the independents in the same size of city. The chain stores operating with a volume of less than \$100,000 annually in the cities with more than 50,000 population show higher expense ratios than the independents. The other groups contain few if any chain stores and for that reason no further multiple correlation is possible. Wage ratios of the chains are also lower than those of the independents in both size-of-city groups above mentioned and in the same size-of-store groups. Rents paid by the chains are consistently higher than those of the independents. For full detailed information on wage costs, total operating expenses and rents, see Table 9 previously referred to which contains the data arranged by size of business for each of the six size-of-city groups.

TABLE	1DRUG	STORES					GEOGRAPHIC DIVISIONS
			ANI	р ву Si	ZE	OF CITY	

		TOTAL		CIT	IES OVEI	1 30,000 POPU	LATION
DIVISIONS AND STATES	Stores Sales		Per cent of United States total	Num ber o citles	() Stores	Sales	Per cent of State total
United States, total		81, 690, 398, 682	100. 00	\$10	28, 602	\$992, 194, 40	1 58.70
New BNGLAND Connecticut Maine Massachusetts New Hampshire. Rhode Island Vermont.	3,902 774 378 1,971 228 403 148	$\begin{array}{c} 119,870,631\\ 22,816,732\\ 10,265,955\\ 64,378,590\\ 6,816,603\\ 11,876,597\\ 4,217,154 \end{array}$	$\begin{array}{r} 7.09 \\ 1.35 \\ .61 \\ 3.81 \\ .40 \\ .67 \\ .25 \end{array}$	45 8 29 29 2 4	2, 243 432 69 1, 395 59 288	74, 054, 35 13, 405, 42 2, 598, 69 47, 737, 05 1, 702, 33 8, 600, 95	7         61.78           1         58.70           3         25.31           3         74.15           3         24.97           7         75.68
MIDDLE ATLANTIC New Jersey New York Pennsylvania	12, 614 1, 817 6, 392 4, 405	366, 991, 943 50, 688, 726 203, 102, 709 113, 200, 508	21.72 3.00 12.02 6.70	64 22 22 20	8, 670 1, 086 5, 057 2, 527	205, 894, 540 31, 605, 850 165, 741, 916 08, 480, 765	72.45 62.47 81.60 60.50
EAST NORTH CENTRAL Illinois Indiana Michligan Ohio Wisconsin	12,006 3,809 1,621 2,410 2,868 1,292	383, 661, 013 181, 448, 830 46, 627, 488 78, 700, 266 90, 819, 227 35, 975, 202	22. 70 7. 78 2. 76 4. 06 5. 37 2. 13	81 20 13 15 23 10	7, 055 2, 488 727 1, 489 1, 759 592	270, 454, 015 101, 045, 220 27, 181, 320 55, 996, 882 06, 071, 219 20, 159, 374	1 70 40
WEST NORTH CENTRAL Iowa. Kansas. Mintesota. Missouri. Nebraska. North Dakota. South Dakota.	7,515 1,448 1,134 1,079 2,336 876 285	$\begin{array}{c} 186, 200, 812\\ 33, 003, 676\\ 30, 715, 413\\ 28, 028, 252\\ 59, 829, 797\\ 20, 384, 946\\ 6, 182, 443 \end{array}$	$11.02 \\ 1.95 \\ 1.82 \\ 1.66 \\ 3.53 \\ 1.21 \\ .37$	21 7 3 5 2	2, 385 316 224 467 1, 153 206	79, 862, 196 9, 855, 915 8, 003, 408 15, 083, 380 39, 622, 432 6, 589, 417	
SOUTH ATLANTIO Delaware District of Columbia Florida. Georgia Maryland North Oarolina. South Carolina Virginia West Virginia.	357 5, 868 107 240 1, 027 1, 132 654 926 530 771 475	6, 182, 443 8, 056, 285 163, 375, 498 2, 514, 577 16, 413, 828 24, 602, 909 27, 860, 328 19, 052, 349 24, 976, 944 11, 891, 011 22, 709, 756 13, 344, 706	. 48 9.66 . 15 . 97 1.46 1.64 1.13 1.48 . 70 1.34 . 79	1 34 1 5 5 8 2 6 3	19 2, 268 63 240 384 367 473 240 74 304 128	647, 644 82, 087, 234 1, 756, 283 16, 413, 828 10, 541, 905 12, 471, 224 14, 600, 605 6, 491, 088 2, 248, 600, 611 10, 796, 211 4, 304, 314	8.04 50.01 60.84 100.00 42.85 44.75 76.68 38.00 18.91 47.51 32.70
Alabama Alabama Kentucky Mississippi Tennessee	3, 468 945 887 710 928	87, 645, 881 23, 398, 535 22, 766, 643 16, 344, 178 25, 136, 525	5. 19 1. 38 1. 35 . 97 1. 49	13 3 4 2 4	1,050 270 304 51 425	35, 806, 981 9, 171, 725 10, 307, 690 1, 902, 034 14, 425, 532	40. 92 39. 20 45. 54 11. 84 57. 39
WEST SOUTH CENTRAL Arkansas Louislana Oklahoma Texas	6, 488 826 864 1, 280 3, 518	172, 791, 285 17, 310, 073 21, 090, 101 37, 307, 270 97, 083, 841	10, 21 1, 02 1, 25 2, 21 5, 73	21 2 3 3 13	1,758 89 354 254 1,061	64, 469, 444 2, 826, 836 10, 415, 998 10, 966, 901 40, 259, 709	37. 31 16. 33 40. 30 29. 40 41. 47
MOUNTAIN Arizona Colorado Idaho Montana Nevada New Mexico Utah Wyoming	$1,778 \\ 166 \\ 648 \\ 202 \\ 272 \\ 46 \\ 133 \\ 187 \\ 124 $		8.20 .43 1.08 .33 .42 .10 .25 .28	8 2 3 1 2	442 55 280 21 77	17, 837, 049 3, 061, 036 10, 237, 703 895, 569 3, 642, 741	32. 97 42. 19 56. 03 12. 51 50. 62
ACTFIC California Oregon Washington	4, 619 3, 206 567 846	155, 768, 020 115, 831, 475 14, 820, 466 25, 116, 079	9, 21 6, 85 , 88 1, 48	23 17 1 5	2, 731 2, 092 238 401	101, 068, 585 80, 527, 489 6, 402, 230 14, 138, 860	04. 89 69, 52 43, 20 58, 80

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# DRUG RETAILING

	CITIKS	10,000 1	0 80,000 POPU	LATION	PLAC	ES UNDER 10,0 POPULATION	000
DIVISIONS AND STATES	Num- ber of cities	Stores	Sales	Per cent of State total	Stores	Sales	Per cent of State total
United States, total	645	5, 773	\$202, 001, 858	11.95	23, 883	8496, 202, 423	29.35
NEW ENGLAND Connecticut. Maine. Massachusetts. New Hampshire. Rhode Island Vermont.	84 12 7 44 8 10 3	$ \begin{array}{r} 685 \\ 117 \\ 69 \\ 322 \\ 50 \\ 03 \\ 25 \\ \end{array} $	$\begin{array}{c} 21,008,064\\ 3,560,270\\ 2,207,101\\ 0,756,218\\ 2,112,564\\ 2,339,166\\ 1,032,745\end{array}$	$\begin{array}{c} 17.\ 52\\ 15.\ 60\\ 21.\ 50\\ 15.\ 10\\ 30.\ 00\\ 20.\ 56\\ 24.\ 49\end{array}$	074 225 240 254 110 22 123	$\begin{array}{c} 24,808,210\\ 5,850,041\\ 5,460,161\\ 0,884,419\\ 3,001,706\\ 427,474\\ 3,184,409 \end{array}$	$\begin{array}{c} 20.\ 70\\ 25.\ 64\\ 53.\ 19\\ 10.\ 69\\ 44.\ 04\\ 3.\ 76\\ 75.\ 51\end{array}$
MIDDLE ATLANTIC. New Jersey New York. Pennsylvanla	152	$1,212 \\ 244 \\ 351 \\ 617$	30, 004, 032 7, 704, 084 13, 118, 222 19, 081, 726	$     \begin{array}{r}       10.87 \\       15.20 \\       6.46 \\       16.86     \end{array} $	2, 732 487 984 1, 261	61, 193, 371 11, 318, 783 24, 242, 571 25, 632, 017	16. 68 22. 33 11. 94 22, 64
EAST NORTH CENTRAL Illinois Indiana Michigan Ohio Wisconsin	137 38 21 25 36 17	1, 086 279 109 105 273 140	$\begin{array}{c} 38, 551, 800 \\ 10, 435, 731 \\ 7, 234, 134 \\ 7, 248, 605 \\ 8, 800, 708 \\ 4, 742, 652 \end{array}$	10. 05 7. 94 15. 52 9. 20 9. 70 13. 18	3,805 1,042 095 732 830 <i>500</i>	74, 655, 108 19, 907, 879 12, 212, 034 15, 544, 719 15, 857, 300 11, 073, 178	10.46 15.10 26.10 19.73 17.46 30.78
WEST NORTH (JENTRAL Iowa. Kansas. Minnesota. Missouri. Nebraska. North Dakota Sonth Dakota	68	600 140 167 63 122 48 29 31	22, 633, 270 4, 555, 074 6, 404, 151 2, 037, 704 4, 109, 315 1, 880, 469 1, 518, 544 1, 467, 123	$\begin{array}{c} 12.\ 16\\ 13.\ 81\\ 21.\ 05\\ 0.\ 41\\ 6.\ 87\\ 0.\ 23\\ 24.\ 50\\ 18.\ 21\end{array}$	4,530 092 743 549 1,061 622 256 307	83, 705, 346 18, 501, 787 16, 187, 854 10, 307, 168 16, 098, 050 11, 915, 070 4, 663, 809 5, 941, 518	44, 95 50, 33 52, 70 36, 78 26, 91 58, 45 75, 44 73, 75
HOTITE ATTANTIC	67	010	21, 496, 669	13. 16	2, 084 44	59, 191, 595 758, 204	36, 23 30, 16
Delawaro District of Columbia Florida Georgia Maryland North Carolina Vorth Carolina Virginia West Virginia	9 10 3 13 7 8 7	133 08 18 108 82 92 85	4, 024, 862 3, 250, 052 007, 449 3, 739, 156 2, 786, 720 3, 492, 158 3, 295, 376	$16.36 \\ 11.66 \\ 4.76 \\ 14.97 \\ 23.44 \\ 16.38 \\ 24.70$	510 667 163 678 380 375 267	10, 036, 152 12, 147, 152 3, 535, 235 11, 746, 700 6, 855, 659 8, 427, 387 5, 685, 016	40,79 43,59 18,56 47,03 57,65 37,11 42,60
EAST SOUTH CENTRAL. Alabama Kontucky. Mississippi. Tonnessoo.	35	360 124 102 105 35	$\begin{array}{c} 11,791,085\\ 4,049,387\\ 2,824,552\\ 3,550,724\\ 1,301,022 \end{array}$	13, 45 17, <i>31</i> 12, 41 21, 76 5, 41	2,052 551 481 554 400	39, 987, 215 10, 177, 423 9, 574, 401 10, 885, 420 9, 349, 971	45. 63 43. 49 42. 05 66. 60 37. 20
WEST SOUTH CENTRAL Arkunsus Louisianu Okinioma Toxus		015 114 78 132 291	21, 912, 011 3, 109, 687 2, 270, 861 6, 109, 915 10, 415, 548	12, 68 17, 90 10, 79 16, 38 10, 73	4, 116 623 432 894 2, 160	86, 409, 830 11, 373, 550 8, 397, 242 20, 230, 454 46, 408, 584	50.01 65.71 30.82 54.22 47.80
MOUNTAIN	19	100 38 10 49 12 28 6 20	7, 457, 536 1, 527, 910 783, 502 1, 921, 570 572, 142 1, 381, 843 207, 505 1, 062, 938	13.70 8.36 14,12 20.84 84,13 32.19 3.40 28,14	$1,167 \\ 111 \\ 321 \\ 180 \\ 202 \\ 34 \\ 105 \\ 104$	28, 799, 014 4, 194, 389 6, 507, 680 4, 765, 058 4, 342, 996 1, 104, 047 2, 911, 529 2, 259, 302 2, 713, 953	53, 24 67, 81 35, 61 85, 88 60, 65 65, 87 67, 81 36, 98 71, 80
PACINIC. California Oregon. Washington		424 276 54 04	17, 246, 701 11, 240, 572 2, 023, 987 3, 982, 142	11. 07 9. 70 <i>13. 66</i> 15. 85	1, 464 838 275 351	87, 452, 734 24, 063, 414 6, 894, 249 6, 995, 071	24. 04 20. 78 43. 14 27. 85

### TABLE 1.—DRUG STORES AND SALES, BY STATES AND GEOGRAPHIC DIVISIONS AND BY SIZE OF CITY—Continued

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# TABLE 2.-DRUG STORES CLASSIFIED BY SIZE OF BUSINESS

[Sales expressed in thousands of dollars]

		DRUG	stores
	Total, drug stores	Without fountains	With fountains
United States total: Number of stores Per cent of stores Net sales Per cent of net sales	100.00 \$1.690.399	23,414 100.00 \$541,139 100.00	34,844 100,00 \$1,140,200 100,00
STORES WITH ANNUAL SALES OF-			
\$500,000 and over: Number of stores Per cent of stores Net sales Per cent of net sales \$300,000 to \$490,909: Number of stores Per cent of stores Not sales	0.04 \$23,654 1.40 100 0.17	3 0.01 \$3,607 0.68 18 0.08 \$0,08	22 0,06 \$10,937 1.74 82 0,24 \$29,024
Per cent of net sales \$200,000 to \$299,090: Number of stores. Per cent of stores. Per cent of stores. Per cent of net sales. Per cent of net sales. Per cent of stores. Number of stores. Per cent of stores.	277 0.48 \$65,290 3.86	1.18 47 0.20 \$11,158 2.06 234	2, 58 230 0, 66 \$54, 182 4, 71 1, 000
Per cent of net sales	2, 22 \$174, 199 10, 31 5, 187 8, 90 \$342, 850	1.00 \$30,862 5.70 1,370 5.85	3.04 \$143,337 12.47 3,817 10.95
Per cent of net sales 80,000 to \$49,909: Number of stores Per cent of stores Per cent of net sales Per cent of net sales Fer cent of net sales	20, 28 20, 28 11, 454 10, 66 \$431, 545 25, 53	\$88, 031 16. 27 3, 898 16. 65 \$148, 250 27. 03	\$254, 825 22, 17 7, 550 21, 00 \$285, 205 24, 83
Number of stores. Per cent of stores. Net sales. Per cent of net sales. \$10,000 to \$19,999: Number of stores.	12, 673 21, 76 \$308, 333 18, 24	4, 747 20. 27 \$114, 938 21. 24	7, 926 22, 76 \$193, 395 16, 83
Number of stores Per cent of stores Not sales Per cent of net sales 5,000 to \$9,909:  Number of stores	16, 866 28, 95 \$249, 069 14, 73	7, 508 32, 07 \$109, 166 20, 17	9, 358 26, 86 \$139, 903 12, 17
Per cent of stores Per cent of net sales Less than \$5,000: Number of stores	6, 431 11. 04 \$48, 315 2. 86	3, 276 13, 99 \$24, 409 4, 51	3, 155 9, 05 \$23, 903 2, 08
Per cent of stores Net sales Per cent of net sales	3,951 6.78 \$11,128 0.66	2, 313 9. 88 \$6, 272 1, 10	1,638 4,70 \$4,856 0,42

# DRUG RETAILING

# TABLE 3A .--- CREDIT SALES IN DRUG STORES

<b>anna ann a</b> chuirt anns rabhail Crist ann a cuirtean a' Crist ann an an ann an ann ann an ann an ann an a	ALL DRUG STORES REPORTING		DRUG ST WITHO FOUNT.	UT	DRUG STO WITH FOUL	
CLASSIFIED BY DEGREE OF CREDIT	United States total stores and sales (those re- porting as to their credit activity)	Per cent of stores and sales	Stores and sales	Per cent of stores and sales	Stores and sales	Por cent of stores and sales
Total reporting: Number of stores Net sales.	48, 953 \$1, 426, 399	100. 0 100. 0	19, 512 \$447, 456	100). 0 100, 0	29, 441 \$978, 940	100. 0 100. 0
All-cash stores: Number of stores Net sales. Cash credit stores and proportion of credit;	20, 529 \$775, 944	$54.2 \\ 54.4$	10, 148 \$212, 994	52. 1 47. 8	16, 381 \$562, 950	55. 0 57. 5
I to 10 per cent credit Number of stores Net sales		$20.4 \\ 18.4$	3, 919 \$85, 256	20, 1 19, 1	8, 090 \$177, 488	20.7 18.1
11 to 20 per cent credit		9, 3 9, 2	1, 907 \$44, 941	0.8 10.0	2, 621 \$86, 597	8.9 8.8
21 to 30 per cent credit Number of stores Net sales		6.8 7.5	1, 417 \$38, 472	7.2 8.6	1,902 \$68,090	0.5 7.0
31 to 40 per cent credit - Number of stores Net sales	2, 414 \$79, 184	4.9 5.6	1, 110 \$33, 623	5.7 7.5	1, 205 \$45, 501	4.4 4.7
41 to 50 per cent credit- Number of stores. Not sules. 51 to 60 per cent credit-	1, 169 \$34, 970	$   \begin{array}{c}     2.4 \\     2.5   \end{array} $	542 \$14, 354	2, 8 3, 2	627 \$20, 616	2, 1 2, 1
Number of storesand a constant of stores and the second stores and the second stores and the second stores and	406	$   \begin{array}{c}     0.8 \\     1.0   \end{array} $	180 \$0, 591	0.9 1.5	226 \$8,388	0.7 0.8
61 to 70 per cent credit Number of stores Not sales	220 \$7, 022	0, 5 0, 5	113 \$3, 357	0. 8 0. 8	116 \$3, 665	0,4 0,4
71 to 80 per cent credit Number of stores Net sales	165 \$7, 652	0.3 0.5	89 \$5, 524	0.4 1.2	76 \$2, 128	0.3 0.2
Over 80 per cent credit Number of stores Net sules	\$5,801	0. 4 0. 4	78 \$2, 344	0.4 0.5	101 \$3, 457	0.4 0.4

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	TOTAL STO	DRES REPORT- ING	ALL-CA	SH STORES	CASH-CRI	DIT STORES
DIVISION AND STATE	Number of stores	Net sales	Number of stores	Net sales	Number of stores	Net sales
United States, totals	48, 954	\$1, 426, 396	26, 529	\$775, 944	22, 425	\$650, 452
DIVISION						]
New ENGLAND Connecticut Maine Massachusetts New Hampshire Rhode Island Vermont	$\begin{array}{r} 3,121\\ 609\\ 332\\ 1,469\\ 208\\ 362\\ 141 \end{array}$	98, 623 18, 894 9, 116 50, 202 6, 237 10, 174 4, 000	$2, 151 \\ 408 \\ 201 \\ 1, 073 \\ 136 \\ 274 \\ 59$	65, 814 11, 785 5, 072 35, 537 3, 879 7, 670 1, 871	970 201 131 396 72 88 82	$\begin{array}{c} 32,809\\ 7,109\\ 4,044\\ 14,665\\ 2,358\\ 2,504\\ 2,129\end{array}$
MIDDLE ATLANTIC New Jersey New York Pennsylvania	9, 933 1, 326 4, 941 3, 666	301, 988 38, 538 166, 607 96, 843	7, 247 928 3, 768 2, 551	212, 710 26, 425 120, 548 65, 737	2, 686 398 1, 173 1, 115	89,278 12,113 46,059 31,106
EAST NORTH CENTRAL Illinois Indiana Michigan Ohio Wisconsin	$\begin{array}{c} 10,137\\ 3,437\\ 1,319\\ 2,026\\ 2,250\\ 1,105 \end{array}$	$\begin{array}{c} 321,380\\ 119,936\\ 35,935\\ 65,828\\ 68,838\\ 30,843 \end{array}$	6, 211 2, 407 767 1, 203 1, 339 495	208, 154 89, 015 21, 076 40, 556 42, 879 14, 628	3, 926 1, 030 552 823 911 610	$\begin{array}{c} 113,226\\ 30,921\\ 14,859\\ 25,272\\ 25,959\\ 16,215 \end{array}$
WEST NORTH CENTRAL Iowa Kansas Minnesota Missouri Nebraska North Dakota South Dakota	$\begin{array}{c} 6,528\\ 1,325\\ 1,074\\ 844\\ 1,934\\ 805\\ 241\\ 305 \end{array}$	$\begin{array}{c} 163,961\\ 30,397\\ 29,182\\ 22,268\\ 51,349\\ 18,915\\ 5,194\\ 6,656\\ \end{array}$	2, 627 467 424 293 958 281 78 126	$\begin{array}{c} 70,\ 698\\ 10,\ 234\\ 11,\ 722\\ 8,\ 799\\ 30,\ 203\\ 5,\ 979\\ 1,\ 234\\ 2,\ 527\end{array}$	3, 901 858 650 551 976 524 163 179	$\begin{array}{c} 93,263\\ 20,163\\ 17,460\\ 13,469\\ 21,146\\ 12,936\\ 3,960\\ 4,129\end{array}$
SOUTH ATLANTIC. Delaware. District of Columbia Florida. Georgia Maryland. North Carolina. South Carolina. Virginia. West Virginia.	5, 021 102 64 892 1, 027 489 845 499 705 398	$132, 395 \\ 2, 479 \\ 2, 257 \\ 21, 126 \\ 25, 528 \\ 14, 832 \\ 22, 970 \\ 11, 006 \\ 20, 994 \\ 11, 203 \\ 11, 203 \\ 135, 100 \\ 110, 100 \\ 100 \\ 110, 100 \\ 100 \\ 100 \\ 110, 100 \\ 100 \\ 110, 100 \\ 10$	2, 397 56 575 354 362 319 236 286 209	60, 921 1, 500 	$2,624 \\ 46 \\ 64 \\ 317 \\ 673 \\ 127 \\ 526 \\ 263 \\ 419 \\ 189$	$71, 474 \\ 979 \\ 2, 257 \\ 8, 069 \\ 17, 532 \\ 3, 475 \\ 14, 806 \\ 6, 513 \\ 12, 210 \\ 5, 633 \\ \end{array}$
EAST SOUTH CENTRAL. Alabama. Kentucky. Missisippi. Tennessee.	3, 268 898 827 664 879	82, 985 22, 528 20, 996 15, 505 23, 956	$^{1,200}_{\begin{array}{c}316\\313\\218\\353\end{array}}$	29, 409 7, 580 8, 032 3, 796 10, 001	$2,068 \\ 582 \\ 514 \\ 446 \\ 526$	53, 576 14, 948 12, 964 11, 709 13, 955
WEST SOUTH CENTEAL Arkansas Louisiana Oklahoma Texas	5, 917 771 768 1, 191 3, 187	159, 484 16, 300 19, 360 35, 475 88, 349	2, 315 308 340 581 1, 086	52, 700 5, 529 7, 266 17, 077 22, 828	3, 602 463 428 610 2, 101	106, 784 10, 771 12, 094 18, 398 65, 521
MOUNTAIN Arizona Colorado Idaho Montana Newada New Mexico Utah Wyoming	1, 530 147 571 180 241 38 104 136 113	$\begin{array}{c} 46,672\\ 6,474\\ 15,855\\ 4,904\\ 6,302\\ 1,513\\ 3,412\\ 4,738\\ 3,474\\ \end{array}$	642 54 271 69 87 10 35 63 53	$16, 418 \\ 1, 827 \\ 7, 099 \\ 1, 562 \\ 2, 063 \\ 269 \\ 691 \\ 1, 329 \\ 1, 578 \\ 1, 578 \\ 1, 578 \\ 1, 578 \\ 1, 578 \\ 1, 827$	888 93 300 111 154 28 69 73 60	30, 254 4, 647 8, 756 3, 342 4, 239 1, 244 2, 721 3, 409 1, 896
PACIFIC California Oregon Washington	3, 499 2, 288 493 718	118, 908 83, 843 13, 091 21, 974	1, 739 1, 185 247 307	59, 120 43, 866 5, 949 9, 305	1, 760 1, 103 246 411	59, 788 39, 977 7, 142 12, 669

# TABLE 3B.-CREDIT SALES IN DRUG STORES, BY STATES

### TABLE 4 .--- DRUG STORES AND SALES

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DRUG RETAIL

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### (Classified by types of operation, by size of city)

[Sales shown in thousands of dollars]

	UNITED STATES			
TYPE OF OPERATION	Total <sup>1</sup>	Cities of over 30,000 population	Cities 10,000 to 30,000 population	Places un- der 10,000 population
Total all types: Stores Net sales Per cent of total, by class of city Per cent of total, by types	58, 258 \$1, 690, 399 100. 00 100. 00	28, 602 \$992, 194 58, 70 100, 00	5, 773 \$202, 002 11. 95 100. 00	23, 883 \$496, 203 29, 35 100, 00
Single-store independents: Stores Net sales Per cent of total, by class of city Per cent of total, by type 2 and 3 store independents and local branch:	50, 088 \$1, 210, 202 100. 00 71. 59	22, 728 \$600, 914 49. 65 60. 56	4, 789 \$153, 771 12, 71 76, 12	22, 571 \$455, 517 37, 64 91, 80
Stores Net sales Per cent of total, by class of city Per cent of total, by type Local chains:	4, 497 \$161, 784 100. 00 9. 57	2,890 \$108,431 67.02 10.93	$\begin{array}{r} 663 \\ \$27, 430 \\ 16.96 \\ 13.58 \end{array}$	944 \$25, 923 16. 02 5. 23
Stores	1, 965 \$132, 474 100. 00 7. 84	1, 592 \$115, 279 87. 02 11. 62	192 \$10, 627 8. 02 5. 26	181 \$6, 568 4. 96 1. 32
Stores Net sales Per cent of total, by class of city Per cent of total, by type	483 \$45, 974 100, 00 2, 72	391 \$39, 386 85. 67 3. 97	63 \$5, 382 11. 71 2. 66	29 \$1, 206 2, 62 0, 24
National chains: Stores	1,078 \$134,003 100.00 7.93	991 \$127, 675 95. 28 12. 87	63 \$4, 698 3. 50 2. 33	24 \$1, 630 1. 22 0. 33
Other types of operation: Stores. Net sales. Per cent of total, by class of city Per cent of total, by type	147 \$5, 962 100. 00 0. 35	10 \$509 8, 54 0, 05	3 \$94 1.57 0.05	134 \$5, 359 89. 89 1. 08
		new englan	D DIVISION	
'Total, all types: Stores Net sales Per cent of total	3, 902 \$119, 871 100. 00	2, 243 \$74, 055 100. 00	685 \$21, 008 100. 00	974 \$24, 808 100. 00
Single-store independents: Stores	3, 376 \$88, 431 73. 77	1, 850 \$48, 603 65. 63	607 \$16, 998 80. 91	919 \$22, 830 92. 03
2 and 3 store independents: Stores. Net sales. Per cent of total, by type	303 \$10, 649 8. 88	216 \$7, 628 10. 30	44 \$1,614 7.68	43 \$1, 407 5. 67
Local chains: Stores Net sales Per cent of total, by type	88 \$4, 512 3. 77	71 \$3, 631 4. 90	9 \$547 2.60	8 \$334 1.35
:Sectional chains: Stores Net sales Per cent of total, by type National chains:	16 \$1, 365 1. 14	11 \$924 1. 25	5 \$441 2. 10	
National chains:         Stores.         Net sales.         Per cent of total, by type.         Other types of operation:	117 \$14, 894 12, 42	95 \$13, 269 17. 92	20 \$1,408 6.70	2 \$217 0.87
Stores	2 \$20 . 02			2 \$20 • 08

<sup>1</sup> See footnote at end of table.

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	MIDDLE ATLANTIC DIVISION			
TYPE OF OPERATION	Total	Cities of over 30,000 population	Cities 10,000 to 30,000 population	Places un- der 10,000 population
Total all types: Stores Net sales Per cent of total	12, 614 \$366, 992 100. 00	8, 670 \$265, 895 100. 00	1, 212 \$39, 904 100. 00	2, 732 \$61, 193 100. 00
Single-store independents: Stores Net sales Per cent of total, by type 2 and 3 store independents and local branch:	10, 824 \$260, 599 71. 01	7, 318 \$178, 156 67. 00	994 \$28, 475 71. 36	2, 512 \$53, 968 88. 19
Stores Net sales Per cent of total, by type Local chains:	960 \$31, 003 8. 45	707 \$23, 864 8. 97	104 \$3, 492 8. 75	149 \$3, 647 5. 96
Stores Net sales Per cent of total, by type Sectional chains:	394 \$25, 870 7. 05	305 \$21, 507 8. 09	51 \$2, 726 6. 83	38 \$1, 637 2. 68
Stores_ Net sales Per cent of total, by type National chains:	171 \$15, 717 4. 28	126 \$12,098 4.55	39 \$3, 302 8. 27	6 \$317 0. 52
Stores Net sales Per cent of total, by type Other types of operation:	243 \$32, 730 8. 92	210 \$30, 125 11. 33	23 \$1, 835 4. 60	10 \$770 1.26
Stores Net sales Per cent of total, by type	22 \$1,073 0.29	4 \$145 0.06	1 \$74 0. 19	17 \$854 1.39
	EAST NORTH CENTRAL DIVISION			
Total, all types: Stores Net sales Per cent of total	12, 006 \$383, 661 100. 00	7, 055 \$270, 454 100. 00	1, 086 \$38, 552 100. 00	3, 865 \$74, 655 100. 00
Single-store independents: Stores Net sales Per cent of total, by type- 2 and 3 store independents and local branch:	9, 968 \$253, 938 66. 19	5, 387 \$155, 027 57. 32	899 \$29, 294 75. 99	3, 682 \$69, 617 93. 25
Stores Net sales Per cent of total, by type Local chains:	983 \$37, 353 9. 74	723 \$28, 562 10. 56	137 \$5, 949 15. 43	123 \$2, 842 3. 81
Stores Net sales Per cent of total, by type Sectional chains:	554 \$38, 371 10. 00	494 \$35, 099 12. 98	34 \$2, 310 5. 99	26 \$962 1. 29
Stores Net sales Per cent of total, by type National chains:	129 \$9, 784 2, 55	110 \$8,772 3.24	7 \$524 1.36	12 \$488 0.65
Stores Net sales Per cent of total, by type Other types of operation:	347 \$43, 296 11. 28	339 \$42,831 15.84	8 \$465 1.21	
Stores Net sales Per cent of total, by type	25 \$919 0.24	2 \$163 0.06	1 \$10 0.02	22 \$746 1.00
	WEST NORTH CENTRAL DIVISION			ION
Total, all types: Stores Net sales Per cent of total	7, 515 \$186, 201 100, 00	2, 385 \$79, 863 100. 00	600 \$22, 633 100, 00	4, 530 \$83, 705 100, 00

# TABLE 4.-DRUG STORES AND SALES-Continued

Per cent of total	\$186, 201	\$79, 863	\$22, 633	\$83, 705
	100.00	100. 00	100. 00	100. 00
Single-store independents: Stores Net sales Per cent of total, by type 2 and 3 store independents and local branch: Stores Net sales Per cent of total, by type	6, 816 \$144, 971 77. 86 428 \$15, 146 8. 13	1, 915 \$47, 210 59, 11 257 \$9, 220 11, 55	496 \$17, 704 78. 22 81 \$3, 526 15. 58	4, 405 \$80, 057 95, 64 90 \$2, 400 2, 87

# DRUG RETAILING

# TABLE 4.-DRUG STORES AND SALES-Continued

	WEST NORT	H CENTRAL	DIVISION-CO	ntinued
TYPE OF OPERATION	Total	Cities of over 30,000 population	Cities 10,000 to 30,000 population	der 10,000
Local chains: Stores Net sales Per cent of total, by type Sectional chains:	157 \$14, 496 7. 78	121 \$12, 626 15. 81	19 \$1, 145 5. 06	17 \$725 0. 87
Stores Net sales Per cent of total, by type	1 \$70 0. 04	1 \$70 0.09		
National chains: Stores Net sales Per cent of total, by type Other types of operation:	94 \$10, 985 5. 90	90 \$10, 727 13. 43	4 \$258 1.14	
Stores Net sales Per cent of total, by type	19 \$533 0. 29	1 \$10 0.01		18 \$523 0.62
	5	SOUTH ATLAN	TIC DIVISION	[
Total, all types: Stores Net sales Per cent of total	5, 868 \$163, 375 100. 00	2, 268 \$82, 686 100. 00	\$21, 497	\$59, 192
Single-store independents: Stores Net sales Per cent of total, by type	5, 041 \$116, 159 71. 10	1, 734 \$45, 480 55, 01	\$17,050	\$53, 620
Per cent of total, by type 2 and 3 store independents and local branch: Stores Net sales Per cent of total, by type	471 \$16, 515 10, 11	\$10, 82	3 \$2,49	\$3, 202
Local chains: Stores Net sales Per cent of total, by type	156 \$8,903 5.45	\$7,37		3 \$902 0 1.52
Sectional chains: Stores Net sales Per cent of total, by type	122 \$16,663 10.20	3 \$15,40	3 \$96 3 4.5	0 0.49
National chains: Stores Net sales Per cent of total, by type	57 \$4,40 2.70	3, 59	8 \$3.	6 0.76
Other types of operation: Stores Net sales Per cent of total, by type	- \$72 - \$72 - 0.4	8		21 \$728 1.23
	E	AST SOUTH C	ENTRAL DIVI	ISION
Total, all types: Stores Net sales Per cent of total	3,46 \$87,64 	1, 0 6 \$35, 8 0 100.	67 \$11,7	66 2,055 92 \$39,987 00 100.00
Single-store independents: Stores	3, 05 \$69, 20 79. (	\$4 \$22,7	75 \$9,4	96 92.6
Net sales. Per cent of total, by type 2 and 3 store independents and local branch: Stores. Net sales. Per cent of total, by type	\$6,3 7.5	( )		05 4.3
Local chains: Stores Net sales Per cent of total, by type	\$6,2 \$6,2 7.	35 \$5,3	25 39 \$7 88 6.	15 775 \$11 57 0.1
Sectional chains: Stores Net sales Per cent of total, by type	\$2,2	34 81 \$2, 1 60 5.	30 115 \$1 .90 1.	3 147 \$1 .25 0.0

	EAST SOU	TH CENTRAL	DIVISION-CO	ontinued
TYPE OF OPERATION	Total	Cities of over 30,000 population	Cities 10,000 to 30,000 population	der 10,000
National chains: Stores Net sales Per cent of total, by type Other types of operation:	29 \$2, 412 2. 75	27 \$2, 274 6. 34	2 \$138 1.17	
Stores Net sales Per cent of total, by type	25 \$1,096 1.25	1 \$49 0.14		24 \$1,047 2.62
	WES	T SOUTH CEN	TRAL DIVISIO	DN
Total, all types: Stores Net sales Per cent of total	6, 488 \$172, 791 100. 00	1,758 \$64,469 100.00	615 \$21,912 100.00	4, 115 \$86, 410 100. 00
Single-store independents: Stores. Net sales. Per cent of total, by type	5, 725 \$132, 293 76. 56	1, 357 \$37, 000 57. 39	489 \$16, 336 74. 55	3, 879 \$78, 957 91, 38
2 and 3 store independents and local oranen: Stores	472 \$17, 289 10. 01	195 \$7, 616 11. 81	99 \$4, 459 20. 35	178 \$5, 214 6. 03
Stores	236 \$18, 800 10. 88	$176 \\ \$16, 512 \\ 25, 61$	26 \$1,035 4.72	34 \$1,253 1.45
Stores Net sales Per cent of total, by type National chains:				
Stores Net sales Per cent of total, by type Other types of operation:	30 \$3, 354 1. 94	29 \$3, 272 5. 08	1 \$82 0.38	
Stores Net sales Per cent of total, by type	25 \$1, 055 0. 61	1 \$69 0.11		24 \$986 1.14
		MOUNTAIN	DIVISION	
Total, all types: Stores. Net sales Per cent of total	1, 778 \$54, 094 100. 00	442 \$17,837 100.00	169 \$7,458 100.00	1, 167 \$28, 799 100. 00
Single-store independents: Stores Net sales Per cent of total, by type 2 and 3 store independents and local branch:	1, 546 \$41, 125 76. 02	335 \$9, 776 54. 81	138 \$5, 696 76. 37	1, 073 \$25, 653 89. 08
Stores. Net sales. Per cent of total, by type	131 \$5, 202 9. 62	41 \$2, 107 11. 81	21 \$1,005 13.48	69 \$2, 090 7. 26
Stores. Net sales. Per cent of total, by type Sectional chains:	60 \$3, 947 7. 30	36 \$2,633 14.76	10 \$757 10.15	14 \$557 1.93
Stores Net sales Per cent of total, by type National chains:	4 \$ <del>94</del> 0. 17			4 \$94 0. 33
Stores Net sales Per cent of total, by type Other types of operation:	34 \$3, 512 6, 49	30 \$3,321 18.62		4 \$191 0.66
Stores Net sales Per cent of total, by type	3 \$214 0.40			3 \$214 0. 74

### TABLE 4.-DRUG STORES AND SALES-Continued

### DRUG RETAILING

	PACIFIC DIVISION			
TYPE OF OPERATION	Total	Cities of over 30,000 population	Cities 10,000 to 30,000 population	Places un- der 10,000 population
Total, all types: Stores Net sales Per cent of total	4, 619 \$155, 768 100. 00	2,731 \$101,068 100.00	424 \$17, 246 100. 00	1, 464 \$37, 454 100. 00
Single-store independents: Stores Net sales Per cent of total, by type 2 and 3 store independents and local branch:	3, 735 \$103, 422 66. 40	2, 039 \$56, 887 56, 29	338 \$12, 780 74. 10	1, 358 \$33, 755 90. 12
Stores Net sales Per cent of total, by type Local chains:	572 \$22, 269 14. 29	403 \$15, 296 15, 14	69 \$3, 592 20. 83	100 \$3, 381 9. 03
Stores Net sales Per cent of total, by type Sectional chains:	174 \$11, 340 7. 28	156 \$10, 554 10. 44	15 \$709 4. 11	3 \$77 0. 21
Stores Net sales Per cent of total, by type National chains:				
Stores. Net sales Per cent of total, by type Other types of operation:	$^{133}_{\$18,413}_{11.82}$	132 \$18, 258 18, 06	1 \$155 0. 90	
Net sales Per cent of total, by type	5 \$324 0. 21	\$73 0.07	\$10 0.06	3 \$241 0.64

### TABLE 4 .- DRUG STORES AND SALES-Continued

<sup>1</sup>In comparing this table with the text table appearing on page 14 it must be realized that many chains operate some stores of a different kind from that applicable to the chains as a whole. This explains the comparatively insignificant differences between the two tables.

### TABLE 5A .- OPERATING EXPENSES

#### [By kinds of stores]

	DRUG STORES				
	Total	Without foun- tains	With fountains		
Number of stores Net sales Proprietors	58, 258 \$1, 690, 398, 682 57, 415	23, 414 \$541, 138, 956 24, 381	34, 844 \$1, 149, 259, 726 33, 034		
Employees: Full time Part time Pay roll: Total Per cent of sales Average salary per full-time employee Part time Value of proprietors' services <sup>1</sup> Total wage cost Per cent of sales All other expenses (including rent) Total operating expense (one cent of sales)	$\begin{array}{c} \$195,762,402\\ 11.58\\ \$.1,260\\ \$8,565,830\\ \$72,046,325\\ \$267,862,747\\ 15.85\\ \$190,350,923\end{array}$	$\begin{array}{c} 42,467\\9,630\\\$58,847,577\\\$1,324\\\$2,61,352\\\$31,696,553\\\$90,524,130\\16,73\\\$56,730,091\\.77,21\end{array}$	$106, 113 \\ 20, 642 \\ \$136, 914, 825 \\ 11, 91 \\ \$1, 234 \\ \$40, 349, 772 \\ \$40, 349, 772 \\ \$177, 338, 617 \\ 15, 43 \\ \$133, 620, 832 \\ 27, 06 \\ 20, 00 \\ 27, 06 \\ 20, 00 \\ 20, $		

<sup>1</sup> Proprietors compensation is computed at the same rate paid to full time employees.

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# TABLE 5B .--- OPERATING EXPENSES

[By size of city]

	DRUG STORES					
	United States, total	Cities of over 30,000 popula- tion	Cities 10,000 to 30,000 popula- tion	Places under 10,000 popula- tion		
Number of stores Net sales Proprietors	58, 258 \$1, 690, 398, 682 57, 415	28, 602 \$992, 194, 401 25, 264	5, 773 \$202, 001, 858 5, 502	23, 883 \$496, 202, 423 26, 649		
Employees: Full time	148, 580 30, 272 \$195, 762, 402 \$1, 260 11. 58 \$25, 565, 830 \$72, 046, 325 \$267, 862, 747 15. 85 \$190, 350, 923	92,782 15,877 \$126,099,309 \$1,305 12,71 \$5,046,387 \$34,502,615 \$160,745,944 16,20 \$121,738,130	18,090 3,159 \$23,944,735 \$1,276 \$1.85 \$870,576 \$7,020,552 \$30,965,287 15.33 \$22,448,859	37, 708 11, 236 \$45, 718, 358 9, 21 \$2, 648, 867 \$30, 433, 158 \$76, 151, 516 15, 35 \$46, 163, 934		
sales) Per cent of drug-store sales Per cent of United States, total	27. 11 100. 00 3. 44	28. 47 58. 70 2. 02	26.44 11.95 0.41	24.65 29.35 1.01		

### TABLE 6 .- OPERATING EXPENSES

[Rent]

	DRUG STORES			
DATA ON ALL STORES OPERATING IN LEASED PREMISES	Total	Without foun- tains	With fountains	
Number of stores Rent paid Net sales Rental cost in (per cent of sales)	45, 872 \$82, 003, 619 \$1, 451, 944, 575 5. 65	16, 950 \$22, 310, 864 \$434, 287, 486 5. 14	28, 922 \$59, 692, 755 \$1, 017, 657, 089 5. 87	

# TABLE 7.-COMMODITIES SOLD IN DRUG STORES

A DESCRIPTION OF THE OWNER OWNER							
ALL DRUG ST		ALL DRUG STORES		WITH NS	DRUG STORES WITH- OUT FOUNTAINS		
COMMODITIES SOLD	United States, Per total cen		United States, total	Per cent	United States, total	Per cent	
Total sales	\$1, 690, 398, 682	100.0	\$1, 149, 259, 726	100. 0	\$541, 138, 956	100.0	
Bottled beverages	7,069,031 216,034,180 51,202,758 562,550,169 244,369,635	0.4 12.8 3.0 33.3 14.5	6, 131, 993 168, 982, 860 42, 917, 007 348, 084, 736 244, 369, 635	0.5 14.7 3.7 30.3 21.3	937, 038 47, 051, 320 8, 285, 751 214, 465, 433	0.2 8.7 1.5 39.6	
Prescriptions Rubber goods Stationery, books, periodicals Surgical and hospital supplies Toilet articles and preparations	$\begin{array}{c} 80,781,514\\ 208,635,205\\ 36,022,380\\ 27,174,689\\ 35,818,871\\ 220,740,250\end{array}$	4.8 12.4 2.1 1.6 2.1 13.0	$\begin{array}{r} 47, 384, 468\\ 111, 350, 196\\ 19, 333, 197\\ 17, 046, 388\\ 17, 278, 773\\ 126, 380, 473\end{array}$	4.1 9.7 1.7 1.5 1.5 11.0	33, 397, 046 97, 285, 009 16, 689, 183 10, 128, 301 18, 540, 098 94, 359, 777	$\begin{array}{r} 6.2 \\ 18.0 \\ 3.1 \\ 1.9 \\ 3.4 \\ 17.4 \end{array}$	

CABLE 8A.—APPROXIMATE SALES OF TOILET ARTICLES AND PREPARATIONS AND DRUGS, PATENT MEDICINES, ETC., AND PRESCRIPTIONS IN ALL KINDS OF STORES

KINDS OF BUSINESS	TOILET ARTICI PREPARAT		DRUGS, PATENT MEDI- CINE, ETC.		
	Sales	Per cent	Sales	Per cent	
Total all stores	\$412, 985, 922	100.0	\$590, 775, 327	100.0	
rotal drug stores	220, 740, 250	53.5	562, 550, 169	95.2	
With fountains Without fountains	126, 380, 473 94, 359, 777	30.6 22.9	348, 084, 736 214, 465, 433	58.9 36.3	
<b>P</b> otal, all other stores	192, 245, 672	46.5	28, 225, 158	4.8	
Department stores Variety, 5-and-10, and to-a-dollar stores	76, 503, 769 42, 266, 974	18.5 10.2	6, 677, 506	1.1	
Patent medicines, extracts, toiletries, stores (usually house to house) Country general stores 1 Dry goods stores	27, 954, 138 20, 957, 313 7, 136, 794	6.8 5.1 1.7	12, 080, 921 6, 985, 772	2.1 1.2	
Women's ready-to-wear stores Beauty shops General merchandise stores	5,022,572 3,909,076	1.2 0.9 0.6	751,019	0.1	
Jewelry stores Family clothing stores Mail order houses (catalogue only)	1, 944, 483 1, 681, 301 1, 604, 858	0.5 0.4 0.4			
Cigar stores	975, 706	0.2			

<sup>1</sup> In the absence of data distinguishing the sale of toilet articles and preparations from several other comrnodities in country general stores, the same ratios are used as those found to exist in department stores. TABLE 8B.—Comparison of Approximate Sales of Toilet Articles and Preparations in Drug Stores and Other Kinds of Stores, by States

					والمراجع والمتحدين والمحتوي والمراجع والمحتوي والمحتوي والمحتوي والمحتوي والمحتوي والمحتوي والمحتوي و		
	Total sales of toilet articles	Per cent			AMOUNT SOLD IN AL OTHER STORES		
DIVISIONS AND STATES	and prepara- tions	United States total	Amount	Per cent	Amount	Per cent	
United States, total	\$412, 985, 922	100.0	\$220, 740, 250	53.45	8192, 245, 672	46. 55	
NEW ENGLAND Connecticut. Maine Massachusetts New Hampshire Rhode Island Vermont	25, 828, 496 4, 276, 892 2, 895, 967 14, 349, 522 1, 158, 527 2, 408, 306 739, 282	1.04 0.70 3.48 0.28 0.58 0.18	$\begin{array}{c} 10,838,653\\ 1,547,718\\ 1,943,063\\ 5,392,172\\ 805,698\\ 784,741\\ 365,261 \end{array}$	$\begin{array}{r} 41.96\\ 36.19\\ 67.10\\ 37.58\\ 69.55\\ 32.58\\ 49.41 \end{array}$	$\begin{array}{c} 14,989,843\\ 2,729,174\\ 952,904\\ 8,957,350\\ 352,829\\ 1,623,565\\ 374,021 \end{array}$	$\begin{array}{c} 58.\ 04\\ 63.\ 81\\ 32.\ 90\\ 62.\ 42\\ 30.\ 45\\ 67.\ 42\\ 50.\ 59\end{array}$	
MIDDLE ATLANTIC New Jersey New York Pennsylvania	103, 226, 777 13, 811, 900 56, 426, 421 32, 988, 456	3.35 13.66 7.99	48, 432, 790 7, 087, 549 26, 799, 183 14, 546, 058	46. 92 51. 31 47. 49 44. 09	54, 793, 987 6, 724, 351 29, 627, 238 18, 442, 398	53. 08 48. 69 52. 51 55. 91	
EAST NORTH CENTRAL Illinois Indiana Michigan Ohio Wisconsin	28, 233, 470	6.83 2.45 3.57 6.37 2.04	45, 480, 414 15, 864, 968 5, 354, 775 7, 346, 527 13, 137, 171 3, 776, 973	51. 75 56. 19 52. 84 49. 81 49. 87 44. 78	$\begin{array}{r} 42,412,423\\ 12,368,502\\ 4,779,322\\ 7,403,171\\ 13,203,906\\ 4,657,522\end{array}$	48, 25 43, 81 47, 16 50, 19 50, 13 55, 22	
WEST NORTH CENTRAL Iowa Kansas Minnesota Missouri Nebraska North Dakota South Dakota	$\begin{array}{c} 43,407,696\\ 8,869,964\\ 5,186,763\\ 7,317,347\\ 14,386,476\\ 4,463,782\\ 1,400,305\\ 1,783,059\\ \end{array}$	$2.15 \\ 1.26 \\ 1.77 \\ 3.48 \\ 1.08 \\ 0.34 \\ 0.43$	$\begin{array}{c} 22,491,493\\ 4,535,689\\ 3,313,308\\ 3,017,315\\ 7,301,132\\ 2,431,395\\ 791,497\\ 1,101,157\end{array}$	$51.81 \\ 51.14 \\ 63.88 \\ 41.24 \\ 50.75 \\ 54.47 \\ 56.52 \\ 61.76 \\$	$\begin{array}{c} 20,916,203\\ 4,334,275\\ 1,873,455\\ 4,300,032\\ 7,085,344\\ 2,032,387\\ 608,808\\ 681,902 \end{array}$	48. 19 48. 85 36. 12 58. 76 49. 25 45. 53 43. 48 38. 24	
SOUTH ATLANTIC. Delaware District of Columbia Florida. Georgia. Maryland. North Carolina. South Carolina. Virginia. West Virginia.	$\begin{array}{c} 40,752,378\\ 692,225\\ 3,047,175\\ 7,131,629\\ 7,687,812\\ 3,953,351\\ 6,549,309\\ 2,192,733\\ 5,649,232\\ 3,848,912 \end{array}$	0. 17 0. 74 1. 73 1. 86 0. 96 1. 58 0. 53 1. 36 0. 93	$\begin{array}{c} 23,121,558\\ 445,875\\ 1,380,177\\ 5,458,780\\ 4,430,155\\ 1,503,502\\ 3,843,607\\ 1,180,880\\ 3,003,552\\ 1,875,030 \end{array}$	$\begin{array}{c} 56.\ 74\\ 64.\ 41\\ 45.\ 29\\ 76.\ 54\\ 57.\ 63\\ 38.\ 03\\ 58.\ 69\\ 53.\ 85\\ 53.\ 17\\ 48.\ 72\\ \end{array}$	$\begin{array}{c} 17,630,820\\ 246,350\\ 1,666,998\\ 1,672,849\\ 3,257,657\\ 2,449,849\\ 2,705,702\\ 1,011,853\\ 2,645,680\\ 1,973,882 \end{array}$	$\begin{array}{c} 43.\ 26\\ 35.\ 59\\ 54.\ 71\\ 23.\ 46\\ 42.\ 37\\ 61.\ 97\\ 41.\ 31\\ 46.\ 15\\ 46.\ 83\\ 51.\ 28\end{array}$	
EAST SOUTH CENTRAL Alabama Kentucky Mississippi Tennessee	$19, 506, 245 \\5, 409, 137 \\4, 414, 485 \\4, 020, 488 \\5, 662, 135$	$     \begin{array}{r}       1.31 \\       1.07 \\       0.98 \\       1.37 \\     \end{array} $	10, 569, 905 3, 194, 598 1, 955, 351 2, 171, 367 3, 248, 589	54.19 59.06 44.29 54.01 57.37	$\begin{array}{c} 8,936,340\\ 2,214,539\\ 2,459,134\\ 1,849,121\\ 2,413,546\end{array}$	45. 81 40. 94 55. 71 45. 99 42. 63	
WEST SOUTH CENTRAL Arkansas Louisiana Oklahoma. Texas	36, 006, 010 4, 042, 179 4, 645, 846 6, 856, 357 20, 461, 628	$\begin{array}{c} 0.98 \\ 1.12 \\ 1.66 \\ 4.96 \end{array}$	23, 148, 441 2, 394, 662 2, 678, 065 4, 706, 952 13, 368, 762	$\begin{array}{c} 64.\ 29\\ 59.\ 24\\ 57.\ 64\\ 68.\ 65\\ 65.\ 34 \end{array}$	$12,857,569\\1,647,517\\1,967,781\\2,149,405\\7,092,866$	35.71 40.76 42.36 31.35 34.66	
MOUNTAIN. Arizona Colorado. Idaho Montana Nevada. New Mexico. Utah. Wyoming.	$\begin{array}{c} 13, 902, 307\\ 1, 772, 160\\ 4, 538, 924\\ 1, 405, 927\\ 2, 281, 692\\ 505, 230\\ 1, 271, 354\\ 1, 160, 752\\ 966, 268\end{array}$	0. 43 1. 10 0. 34 0. 55 0. 12 0. 31 0. 28 0. 24	$\begin{array}{c} 9,441,788\\ 1,320,012\\ 2,733,398\\ 1,061,782\\ 1,723,503\\ 331,137\\ 973,043\\ 564,493\\ 734,420 \end{array}$	67. 92 74. 49 60. 22 75. 52 75. 54 65. 54 76. 54 48. 63 76. 01	$\begin{array}{c} \textbf{4, 460, 519} \\ \textbf{452, 148} \\ \textbf{1, 805, 526} \\ \textbf{344, 145} \\ \textbf{558, 189} \\ \textbf{174, 093} \\ \textbf{298, 311} \\ \textbf{596, 259} \\ \textbf{231, 848} \end{array}$	$\begin{array}{c} 32.08\\ 25.51\\ 39.78\\ 24.48\\ 24.46\\ 34.46\\ 23.46\\ 51.37\\ 23.99\end{array}$	
PACIFIC California Oregon Washington	42, 463, 176 33, 307, 009 3, 852, 702 5, 303, 465	8.07 0.93 1.28	27, 215, 208 21, 250, 016 2, 682, 219 3, 282, 973	$\begin{array}{c} 64.\ 09\\ 63.\ 80\\ 69.\ 62\\ 61.\ 90 \end{array}$	$15, 247, 968 \\ 12, 056, 993 \\ 1, 170, 483 \\ 2, 020, 492$	35, 91 36, 20 30, 38 38, 10	

TABLE SC.—Comparison of Approximate Sales of Drugs, Patent Medicines, Etc., in Drug Stores and Other Kinds of Stores, by States

	Total sales of	Per cent of	AMOUNT SO DRUG STO		AMOUNT SO ALL OTHER S		
DIVISIONS AND STATES	drugs, patent medicines, etc.	United States total	Amount	Per cent	Amount	Per cent	
United States total	\$590, 775, 327	100.00	\$562, 550, 164	95. 22	\$28, 225, 163	4. 78	
New EngLAND Connecticut. Maine Massachusetts New Hampshire. Rhode Island Vermont.	44, 540, 271 9, 708, 120 4, 169, 646 23, 260, 446 1, 779, 304 3, 746, 298 1, 876, 457	1.64 0.71 3.94 0.30 0.63 0.32	43, 933, 147 9, 598, 910 4, 092, 756 22, 994, 477 1, 733, 835 3, 713, 899 1, 799, 270	98. 64 98. 88 98. 16 98. 86 97. 44 99. 14 95. 89	607, 124 109, 210 76, 890 265, 969 45, 469 32, 399 77, 187	$1.36 \\ 1.12 \\ 1.84 \\ 1.14 \\ 2.56 \\ 0.86 \\ 4.11$	
MIDDLE ATLANTIC New Jersey New York Pennsylvania	132, 229, 666 20, 538, 640 69, 183, 160 42, 507, 866	3.48 11.71 7.20	126, 873, 629 20, 013, 150 66, 348, 813 40, 511, 666	95. 95 97. 44 95. 90 95. 30	5, 356, 037 525, 490 2, 834, 347 1, 996, 200	4. 05 2. 56 4. 10 4. 70	
EAST NORTH CENTRAL Illinois Indiana. Michigan Ohio Wisconsin	40 416 611	6. 84 2. 85 4. 93 5. 67 2. 32	$\begin{array}{c} 126,093,179\\ 38,139,902\\ 16,136,416\\ 26,758,809\\ 32,365,036\\ 12,693,016 \end{array}$	94. 42 94. 37 96. 00 91. 90 96. 55 92. 77	7,454,5982,276,709672,0652,358,8371,158,128988,859	5, 58 5, 63 4, 00 8, 10 3, 45 7, 23	
WEST NORTH CENTRAL Iowa Kansas Minnesota Missouri Nebraska North Dakota South Dakota	$\begin{array}{c} 65,635,305\\ 12,810,527\\ 9,258,597\\ 13,289,514\\ 17,770,489\\ 7,376,983\\ 2,027,804\\ 3,101,391 \end{array}$	$\begin{array}{c} 2.17\\ 1.57\\ 2.25\\ 3.01\\ 1.25\\ 0.34\\ 0.52\end{array}$	60, 911, 204 11, 821, 576 8, 880, 756 11, 523, 141 16, 893, 285 6, 986, 379 1, 865, 928 2, 940, 139	92. 80 92. 28 95. 92 86. 71 95. 06 94. 71 92. 02 94. 80	$\begin{array}{c} 4,724,101\\ 988,951\\ 377,841\\ 1,766,373\\ 877,204\\ 390,604\\ 161,876\\ 161,252\end{array}$	7. 20 7. 72 4. 08 13. 29 4. 94 5. 29 7. 98 5. 20	
SOUTH ATLANTIC Delaware District of Columbia Florida Georgia Maryland North Carolina South Carolina Virginia West Virginia	56, 299, 116 1, 110, 029 3, 324, 340 7, 885, 614 10, 776, 592 7, 818, 788 6, 836, 746 3, 773, 353 8, 767, 936 6, 005, 718	0.19 0.56 1.33 1.82 1.32 1.16 0.64 1.48 1.02	$\begin{array}{c} 53,219,510\\ 1,096,613\\ 3,241,309\\ 7,798,322\\ 9,608,304\\ 7,541,943\\ 6,451,686\\ 3,615,091\\ 8,330,928\\ 5,535,224 \end{array}$	94. 53 98. 79 97. 51 98. 89 89. 16 96. 46 94. 37 95. 81 95. 02 92. 17	$\begin{array}{c} \textbf{3,079,606} \\ \textbf{13,416} \\ \textbf{82,941} \\ \textbf{87,292} \\ \textbf{1,168,288} \\ \textbf{276,845} \\ \textbf{385,060} \\ \textbf{158,262} \\ \textbf{437,003} \\ \textbf{470,494} \end{array}$	$5.47 \\ 1.21 \\ 2.49 \\ 1.11 \\ 10.84 \\ 3.54 \\ 5.63 \\ 4.19 \\ 4.98 \\ 7.83 \\ $	
EAST SOUTH CENTRAL. Alabama. Kentucky. Mississippi. Tennessee.	29, 430, 210 6, 777, 777 8, 919, 534 5, 456, 348 8, 276, 551	1.15 1.51 0.92 1.40	27, 541, 194 6, 378, 857 8, 442, 544 5, 060, 506 7, 659, 287	93. 58 94. 11 94. 65 92. 75 92. 54	$\begin{array}{c} 1,889,016\\ 398,920\\ 476,990\\ 395,842\\ 617,264 \end{array}$	6. 42 5. 89 5. 35 7. 25 7. 46	
WEST SOUTH CENTRAL. Arkansas. Louisiana. Oklahoma. Texas.	58, 781, 673 6, 616, 745 10, 558, 222 11, 194, 583 30, 412, 123	1. 12 1. 79 1. 89 5. 15	56, 795, 451 6, 262, 049 10, 309, 109 10, 865, 790 29, 358, 503	96. 62 94. 64 97. 64 97. 06 96. 54	$\begin{array}{c} 1,986,222\\ 354,696\\ 249,113\\ 328,793\\ 1,053,620 \end{array}$	3, 38 5, 36 2, 36 2, 94 3, 46	
MOUNTAIN Arizona Colorado Idaho Montana Nevada New Mexico Utah Utah	$18, 320, 441 \\ 2, 348, 062 \\ 5, 871, 029 \\ 1, 905, 154 \\ 2, 074, 994 \\ 585, 416 \\ 1, 206, 074 \\ 2, 885, 862 \\ 1, 443, 850 \\ 1, 443, 850 \\ 1, 208, 000 \\ 1, 200, 000 \\ 1,$	0. 40 0. 99 0. 32 0. 35 0. 10 0. 20 0. 49 0. 25	$\begin{array}{c} 17,483,616\\ 2,295,775\\ 5,440,212\\ 1,863,019\\ 1,985,176\\ 549,323\\ 1,136,440\\ 2,819,970\\ 1,393,701 \end{array}$	95. 43 97. 77 92. 66 97. 79 95. 67 93. 83 94. 23 97. 72 96. 53	836, 825 52, 287 430, 817 42, 135 89, 818 36, 093 69, 634 65, 892 50, 149	4.57 2.23 7.34 2.21 4.33 6.17 5.77 2.28 3.47	
PACIFIC California Oregon Washington	51, 990, 868 37, 323, 478 4, 898, 145 9, 769, 245	6. 32 0. 83 1. 65	49, 699, 234 35, 767, 775 4, 476, 899 9, 454, 560	95.59 95.83 91.40 96.78	2, 291, 634 1, 555, 703 421, 246 314, 685	4. 41 4. 17 8. 60 3. 22	

# TABLE 8D.—Approximate Sales of Prescriptions in Drug Stores, by States

	DRUG STORES									
DIVISIONS AND STATES	Total	,	With foun	tains	Without fountains					
	Amount	Per cent	Amount	Per cent	Amount	Per cent				
United States total	\$229, 525, 930	100.00	\$132, 240, 921	57.61	\$97, 285, 009	42. 39				
NEW ENGLAND Connecticut Maine Massachusetts New Hampshire Rhode Island Vermont	$15,570,041\\4,017,384\\1,249,905\\7,659,865\\870,056\\1,263,833\\508,998$	6.78 1.75 0.54 3.34 0.38 0.55 0.22	$\begin{array}{c} 10, 679, 581\\ 2, 992, 187\\ 519, 968\\ 5, 571, 258\\ 584, 201\\ 889, 316\\ 122, 651 \end{array}$	68. 59 74. 48 41. 60 72. 73 67. 15 70. 37 24. 10	4, 890, 460 1, 025, 197 729, 937 2, 088, 607 285, 855 374, 517 386, 347	31. 41 25. 52 58. 40 27. 27 32. 85 29. 63 75. 90				
MIDDLE ATLANTIC New Jersey New York Pennsylvania	58, 408, 800 8, 932, 900 29, 540, 876 19, 935, 024	25. 45 3. 89 12. 87 8. 69	30, 208, 531 4, 678, 154 15, 839, 974 9, 690, 403	51. 72 52. 37 53. 62 48. 61	28, 200, 269 4, 254, 746 13, 700, 902 10, 244, 621	48. 28 47. 63 46. 38 51. 39				
EAST NORTH CENTRAL Illinois Indiana Michigan Ohio Wisconsin	43, 685, 114 19, 070, 059 4, 392, 203 7, 016, 255 8, 529, 559 4, 677, 038	$19.03 \\ 8.31 \\ 1.91 \\ 3.05 \\ 3.72 \\ 2.04$	$\begin{array}{c} 26,799,537\\ 12,616,174\\ 2,622,446\\ 3,107,027\\ 5,918,288\\ 2,535,602 \end{array}$	61. 35 66. 16 59. 71 44. 28 69. 39 54. 21	$\begin{array}{c} 16,885,577\\ 6,453,885\\ 1,769,757\\ 3,909,228\\ 2,611,271\\ 2,141,436 \end{array}$	38. 65 33. 84 40. 29 55. 72 30. 61 45. 79				
WEST NORTH CENTRAL Iowa	$\begin{array}{c} 27,804,456\\ 5,227,172\\ 4,313,714\\ 6,205,382\\ 7,130,044\\ 2,886,648\\ 886,648\\ 781,285\\ 1,260,211 \end{array}$	$12.11 \\ 2.28 \\ 1.88 \\ 2.70 \\ 3.10 \\ 1.26 \\ 0.34 \\ 0.55$	$\begin{array}{c} 14,544,442\\ 2,518,707\\ 3,026,979\\ 2,976,716\\ 4,014,957\\ 1,265,017\\ 245,465\\ 496,601 \end{array}$	$52. 31 \\ 48. 18 \\ 70. 18 \\ 47. 97 \\ 56. 31 \\ 43. 82 \\ 31. 42 \\ 39. 41$	$\begin{array}{c} 13, 260, 014\\ 2, 708, 465\\ 1, 286, 735\\ 3, 228, 666\\ 3, 115, 087\\ 1, 621, 631\\ 535, 820\\ 763, 610 \end{array}$	47. 69 51. 82 29. 82 52. 03 43. 69 56. 18 68. 58 60. 59				
SOUTH ATLANTIC. Delaware District of Columbia Florida Georgia Maryland North Carolina South Carolina Virginia West Virginia	22, 144, 776 439, 040 2, 403, 185 2, 653, 660 2, 998, 252 3, 323, 858 4, 112, 060 2, 198, 809 2, 802, 841 1, 213, 071	$\begin{array}{c} 9.\ 65\\ 0.\ 19\\ 1.\ 05\\ 1.\ 16\\ 1.\ 30\\ 1.\ 45\\ 1.\ 79\\ 0.\ 96\\ 1.\ 22\\ 0.\ 53\\ \end{array}$	$\begin{array}{c} 16,123,297\\ 264,529\\ 2,245,561\\ 1,683,789\\ 1,911,339\\ 2,492,113\\ 3,264,075\\ 1,530,516\\ 1,852,333\\ 879,042 \end{array}$	$\begin{array}{c} 72.\ 81\\ 60.\ 25\\ 93.\ 44\\ 63.\ 45\\ 63.\ 75\\ 74.\ 98\\ 79.\ 38\\ 69.\ 61\\ 66.\ 09\\ 72.\ 46 \end{array}$	$\begin{array}{c} 6,021,479\\174,511\\157,624\\969,871\\1,086,913\\831,745\\847,985\\668,293\\950,508\\334,029\end{array}$	$\begin{array}{c} 27.\ 19\\ 39.\ 75\\ 6.\ 56\\ 36.\ 55\\ 25.\ 02\\ 20.\ 62\\ 30.\ 39\\ 33.\ 91\\ 27.\ 54 \end{array}$				
EAST SOUTH CENTRAL Alabama Kentucky Mississippi Tennessee	$\begin{array}{c} 12,410,434\\ 3,188,226\\ 3,770,365\\ 2,188,328\\ 3,263,515 \end{array}$	5. 41 1. 39 1. 64 0. 96 1. 42	7, 995, 627 2, 303, 567 2, 228, 573 1, 253, 320 2, 210, 167	64. 43 72. 25 59. 11 57. 27 67. 72	$\begin{array}{r} 4,414,807\\ 884,659\\ 1,541,792\\ 935,008\\ 1,053,348 \end{array}$	35. 57 27. 75 40. 89 42. 73 32. 28				
WEST SOUTH CENTRAL Arkansas Louisiana Oklahoma. Texas	$\begin{array}{c} 24,941,651\\ 2,264,593\\ 3,369,583\\ 4,284,640\\ 15,022,835 \end{array}$	$10.87 \\ 0.99 \\ 1.47 \\ 1.87 \\ 6.54$	14, 819, 277 1, 141, 994 2, 110, 425 2, 497, 564 9, 069, 294	59. 42 50. 43 62. 63 58. 29 60. 37	$\begin{array}{c} 10,122,374\\ 1,122,599\\ 1,259,158\\ 1,787,076\\ 5,953,541 \end{array}$	40. 58 49. 57 37. 37 41. 71 39. 63				
MOUNTAIN Arizona Colorado Idaho Montana Nevada New Mexico Utah Wyoming	$\begin{array}{c} 6, 584, 119\\ 828, 275\\ 2, 296, 449\\ 697, 430\\ 996, 475\\ 224, 782\\ 556, 579\\ 745, 563\\ 238, 566\\ \end{array}$	2. 87 0. 36 1. 00 0. 30 0. 44 0. 10 0. 24 0. 33 0. 10	$\begin{array}{c} \textbf{3, 624, 312} \\ \textbf{520, 310} \\ \textbf{1, 636, 857} \\ \textbf{282, 704} \\ \textbf{356, 450} \\ \textbf{61, 764} \\ \textbf{169, 167} \\ \textbf{458, 591} \\ \textbf{138, 469} \end{array}$	$\begin{array}{c} 55.\ 05\\ 62.\ 82\\ 71.\ 28\\ 40.\ 54\\ 35.\ 77\\ 27.\ 48\\ 30.\ 39\\ 61.\ 51\\ 58.\ 04\\ \end{array}$	$\begin{array}{c} 2,959,807\\ 307,965\\ 659,592\\ 414,726\\ 640,025\\ 163,018\\ 387,412\\ 286,972\\ 100,097 \end{array}$	$\begin{array}{r} 44.\ 95\\ 37.\ 18\\ 28.\ 72\\ 59.\ 46\\ 64.\ 23\\ 72.\ 52\\ 69.\ 61\\ 38.\ 49\\ 41.\ 96\end{array}$				
PACIFIC. California Oregon Washington	17, 976, 539 12, 264, 675 1, 988, 421 3, 723, 443	7.83 5.34 0.87 1.62	7, 446, 317 5, 957, 629 542, 118 946, 570	$\begin{array}{c} 41.42\\ 48.58\\ 27.26\\ 25.42 \end{array}$	10, 530, 222 6, 307, 046 1, 446, 303 2, 776, 873	58, 58 51, 42 72, 74 74, 58				

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# TABLE 9.—AN ANALYSIS OF STORES, SALES, AND EXPENSES IN THE CHICAGO-MILWAUKEE AREA BY SIZE OF BUSINESS AND BY SIZE OF CITY

[Shown separately for chains and independents]

DRUG STORES	Num- ber of stores	Propor- tion of chains and inde- pendent stores, per cent	Net sales 1929	Propor- tion of chains and inde- pendent sales, per cent	Wage costs per \$100 of sales	Total operat- ing expense per \$100 of sales	Rental cost per \$100 of sales in leased prem- ises
Total for area	3, 053	100.00	\$117, 188, 947	100.00	\$16. 19	\$28.98	\$7.36
Independents Chains	2, 770 283	90. 73 9. 27	83, 869, 382 33, 319, 565	71. 57 28. 43	16.89 14.45	$29.14 \\ 28.60$	6.97 8.24
Sales of more than \$100,000 Independents Chains Sales from \$60,000 to \$100,000 Independents Sales from \$25,000 to \$60,000 Independents Chains Sales from \$10,000 to \$25,000 Independents Chains Sales under \$10,000 Independents. Chains Chains Sales under \$10,000 Independents. Chains Chains	1,204 1,162 42 1,144 1,118	$\begin{array}{c} 100.\ 00\\ 20.\ 43\\ 79.\ 57\\ 100.\ 00\\ 74.\ 07\\ 25.\ 93\\ 100.\ 00\\ 96.\ 51\\ 100.\ 00\\ 97.\ 73\\ 2.\ 27\\ 100.\ 00\\ 98.\ 55\\ 1.\ 45\\ \end{array}$	$\begin{array}{c} 31, 830, 466\\ 5, 930, 895\\ 25, 899, 571\\ 18, 356, 578\\ 13, 275, 5926\\ 5, 080, 652\\ 45, 070, 879\\ 43, 207, 618\\ 1, 863, 261\\ 120, 295, 636\\ 19, 831, 546\\ 464, 090\\ 1, 635, 388\\ 1, 623, 397\\ 11, 991\\ \end{array}$	$\begin{array}{c} 100.\ 00\\ 18.\ 63\\ 81.\ 37\\ 100.\ 00\\ 72.\ 32\\ 27.\ 68\\ 100.\ 00\\ 95.\ 87\\ 4.\ 13\\ 100.\ 00\\ 97.\ 71\\ 2.\ 29\\ 100.\ 00\\ 99.\ 27\\ 0.\ 73\\ \end{array}$	$\begin{array}{c} 13.93\\ 14.89\\ 13.71\\ 16.25\\ 16.14\\ 16.55\\ 16.79\\ 16.76\\ 17.42\\ 17.39\\ 17.31\\ 20.77\\ 28.58\\ 28.58\\ 20.46 \end{array}$	$\begin{array}{c} 27,70\\ 29,02\\ 27,36\\ 29,01\\ 27,93\\ 31,82\\ 28,57\\ 28,33\\ 34,23\\ 30,40\\ 30,19\\ 39,34\\ 47,47,55\\ 36,28\\ \end{array}$	$\begin{array}{c} 8.14\\ 7.61\\ 8.27\\ 6.65\\ 6.06\\ 8.07\\ 6.73\\ 6.65\\ 8.29\\ 7.75\\ 8.67\\ 12.52\\ 12.61\\ 3.04\\ \end{array}$
LATION Total drug stores Independents Chains Sales of more than \$100,000 Independents Chains. Sales from \$25,000 to \$40,000 Independents Chains. Sales from \$10,000 to \$25,000 Independents Chains Sales under \$10,000 to \$25,000 Independents Chains	26 135 167 110 57 842 807	$\begin{array}{c} 100.\ 00\\ 88.\ 41\\ 11.\ 59\\ 100.\ 00\\ 16.\ 15\\ 83.\ 85\\ 100.\ 00\\ 65.\ 87\\ 34.\ 13\\ 100.\ 00\\ 95.\ 84\\ 4.\ 16\\ 100.\ 00\\ 97.\ 21\\ 2.\ 79\\ 100.\ 00\\ 97.\ 2.\ 03\\ \end{array}$	$\begin{array}{c} 88,033,394\\ 57,760,343\\ 30,277,810,096\\ 4,130,053\\ 23,680,043\\ 12,766,351\\ 8,172,704\\ 4,595,649\\ 29,907,067\\ 1,577,102\\ 15,747,383\\ 14,339,115\\ 408,268\\ 1,223,395\\ 1,211,901\\ 11,991\\ \end{array}$	$\begin{array}{c} 100.\ 00\\ 65.\ 61\\ 34.\ 39\\ 100.\ 00\\ 14.\ 85\\ 15\\ 100.\ 00\\ 94.\ 99\\ 5.\ 01\\ 100.\ 00\\ 94.\ 99\\ 5.\ 01\\ 100.\ 00\\ 91.\ 06\\ 8.\ 94\\ 100.\ 00\\ 99.\ 22\\ 0.\ 98\\ \end{array}$	$\begin{array}{c} 16.58\\ 17.63\\ 14.57\\ 14.98\\ 13.91\\ 16.62\\ 17.69\\ 17.70\\ 17.70\\ 17.75\\ 16.58\\ 17.93\\ 21.19\\ 27.97\\ 28.04\\ 20.46\\ \end{array}$	$\begin{array}{c} 29.\ 81\\ 30.\ 28\\ 28.\ 91\\ 28.\ 13\\ 29.\ 67\\ 27.\ 86\\ 29.\ 81\\ 31.\ 96\\ 29.\ 91\\ 29.\ 65\\ 34.\ 68\\ 20.\ 45\\ 31.\ 17\\ 40.\ 88\\ 47.\ 97\\ 48.\ 09\\ 36.\ 28\\ \end{array}$	$\begin{array}{c} 7.95\\ 7.68\\ 8.42\\ 8.53\\ 8.90\\ 8.47\\ 7.21\\ 6.70\\ 8.11\\ 7.35\\ 7.29\\ 8.42\\ 8.29\\ 8.42\\ 8.29\\ 9.19\\ 13.49\\ 13.49\\ 13.49\\ 3.04\\ \end{array}$
LATION Total drug stores Independents Chains Sales of more than \$100,000 Independents Sales from \$60,000 to \$100,000 Independents Chains Sales from \$25,000 to \$60,000 Independents Chains Sales from \$25,000 to \$25,000 Independents Chains Sales under \$10,000 to \$25,000 Independents Chains Sales under \$10,000 Independents Chains	25	$\begin{array}{c} 100,00\\ 91,25\\ 8,75\\ 100,00\\ 35,71\\ 64,29\\ 100,00\\ 80,00\\ 20,00\\ 100,00\\ 95,54\\ 4,46\\ 100,00\\ 97,18\\ 2,82\\ 100,00\\ 100,00\\ 100,00\\ \end{array}$	$\begin{array}{c} 9,\ 644,\ 375\\ 7,\ 603,\ 709\\ 2,\ 040,\ 666\\ 2,\ 297,\ 824\\ 887,\ 129\\ 1,\ 410,\ 695\\ 1,\ 867,\ 224\\ 1,\ 471,\ 584\\ 395,\ 644\\ 4,\ 091,\ 416\\ 3,\ 898,\ 614\\ 192,\ 802\\ 1,\ 275,\ 561\\ 1,\ 232,\ 032\\ 41,\ 529\\ 114,\ 550\\ 114,\ 350\\ 114,\ 350\\ \end{array}$	$\begin{array}{c} 100.\ 00\\ 78.\ 84\\ 21.\ 16\\ 100.\ 00\\ 38.\ 60\\ 61.\ 40\\ 100.\ 00\\ 78.\ 82\\ 21.\ 18\\ 100.\ 00\\ 95.\ 30\\ 4.\ 70\\ 100.\ 00\\ 96.\ 74\\ 3.\ 26\\ 100.\ 00\\ 100.\ 00\\ 100.\ 00\\ \end{array}$	$\begin{array}{c} 15.\ 02\\ 15.\ 44\\ 13.\ 43\\ 12.\ 58\\ 13.\ 69\\ 17.\ 13\\ 17.\ 24\\ 16.\ 69\\ 14.\ 55\\ 14.\ 42\\ 17.\ 12\\ 16.\ 60\\ 14.\ 55\\ 14.\ 42\\ 17.\ 12\\ 16.\ 60\\ 17.\ 59\\ 30.\ 65\\ 30.\ 65\\ \end{array}$	$\begin{array}{c} 27.\ 06\\ 27.\ 36\\ 25.\ 92\\ 24.\ 85\\ 27.\ 36\\ 28.\ 39\\ 31.\ 63\\ 28.\ 39\\ 31.\ 63\\ 26.\ 00\\ 25.\ 63\\ 33.\ 45\\ 29.\ 48\\ 29.\ 57\\ 26.\ 56\\ 49.\ 43\\ 49.\ 43\\ 49.\ 43\\ \end{array}$	

<sup>1</sup> New stores opened in 1929 and operated only for part of the year.

TABLE 9.—AN ANALYSIS OF STORES, SALES, AND EXPENSES IN THE CHICAGO-MILWAUKEE AREA BY SIZE OF BUSINESS AND BY SIZE OF CITY—Continued

Drug stores	Num- ber of stores	Propor- tion of chains and inde- pendent stores, per cent	Net sales 1929	Propor- tion of chains and inde- pendent sales, per cent	Wage costs per \$100 of sales	Total operat- ing expense per \$100 of sales	Rental cost per \$100 of sales in leased prem- ises
CITIES FROM 25,000 to 50,000 POPU- LATION							
Total drug stores Independents. Chains. Sales of more than \$100,000 Independents. Chains. Sales from \$60,000 to \$100,000 Independents. Sales from \$25,000 to \$60,000 Independents.	162 155 7 8 4 18 17 1 62 61	$\begin{array}{c} 100.\ 00\\ 95.\ 68\\ 4.\ 32\\ 100.\ 00\\ 50.\ 00\\ 100.\ 00\\ 94.\ 44\\ 5.\ 56\\ 100.\ 00\\ 98.\ 39\end{array}$	\$6, 170, 185 5, 208, 783 961, 402 1, 385, 558 576, 725 808, 833 1, 311, 177 (x) (x) (x) (x) (x)	100.00 84.42 15.58 100.00 41.63 58.37 100.00 (x) (x) 100.00 (x)	\$15.24 15.92 11.57 12.79 15.14 11.10 14.54 (x) (x) 15.85 (x)	\$29.00 28.68 22.44 23.97 27.55 21.42 27.64 (x) (x) 28.09 (x)	\$6. 2/ 6. 3( 6. 0) 5. 6( 5. 77 5. 56 6. 1( (x) (x) 6. 1( (x)
Sales from \$10,000 to \$25,000 Independents Chains	60 59	1. 61 100. 00 98. 33 1. 67 100. 00	(x) 1,016,816 (x) (x)	(x) 100.00 (x) (x) 100.00	(x) 16.38 (x) (x)	(x) 29.88 (x) (x)	(X) 7.42 (X) (X)
Sales under \$10,000 Independents Chains	14	100.00	77, 439	100.00	37.33	55.08	10. 33
CITIES FROM 10,000 TO 25,000 POPU- LATION	139	100. 00	5, 318, 197	100. 00	14.91	25, 88	4. 84
Total drug stores Independents Chains Sales of more than \$100,000:	139 138 1	(X) (X)	(X) (X)	(X) (X)	(X) (X)	(x) (x)	(X) (X)
Independents	2	100.00	212, 874	100.00	13.80	23.17	2.68
Sales from \$60,000 to \$100,000: Independents Chains	23	100. 00	1, 736, 494	100. 00	14.17	25. 18	4. 33
Sales from \$25,000 to \$60,000 Independents	68 67 1	100.00 (X) (X)	2, 667, 805 (X) (X) (X)	100.00 (X) (X)	14.68 (x) (x)	25.17 (X) (X)	4.79 (x) (x)
Sales from \$10,000 to \$25,000: Independents Chains	40	100.00	681, 629	100. 00	17.17	30.15	7.49
Sales under \$10,000: Independents Chains	6	100.00	19, 395	100. 00	44.73	64. 26	12, 73
PLACES FROM 5,000 TO 10,000 POPU- LATION							
Total drug stores: Independents Chains	86	100.00	2, 865, 223	100. 00	15.85	27.40	4.72
Chains Sales of more than \$100,000: Independents Chains	1	(x)	(X)	(x)	(x)	(x)	(X)
Sales from \$60,000 to \$100,000: Independents Chains	6	(X)	(x)	(X)	(x)	(x)	(X)
Sales from \$25,000 to \$60,000:	44	100.00	1, 686, 122	100. 00	15. 33	26. 59	4. 52
Chains cales from \$10,000 to \$25,000: Independents chains	32	100.00	634, 136	100. 00	16. 73	28.63	5. 52
ales under \$10,000: Independents Chains	3	100.00	8, 000	100. 00	45.00	64.94	14. 21

TABLE 9.—AN ANALYSIS OF STORES, SALES, AND EXPENSES IN THE CHICAGO-MILWAUKEE AREA BY SIZE OF BUSINESS AND BY SIZE OF CITY—Continued

DRUG STORES	Num- ber of stores	Propor- tion of chains and inde- pendent stores, per cent	Net sales 1929	Propor- tion of chains and inde- pendent sales, per cent	Wage costs per \$100 of sales	Total operat- ing expense per \$100 of sales	\$100 of sales in leased
PLACES UNDER 5,000 POPULATION							
Total drug stores: Independents Chains	235	100.00	\$5, 157, 573	100.00	\$14.31	\$23.61	\$3.84
Sales of more than \$100,000: Independents							
Chains Sales from \$60,000 to \$100,000: Independents Chains		100.00	260, 481	100.00	17. 58	26. 89	3.11
Sales from \$25,000 to \$60,000: Independents Chains	76	100. 00	2, 762, 172	100.00	13.44	22.05	3. 55
Sales from \$10,000 to \$25,000: Independents Chains	118	100.00	1, 942, 111	100.00	14.05	24. 02	4.11
Sales under \$10,000: Independents Chains	37	100.00	192, 809	100.00	24.98	37.69	7.07

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