

DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON

FOURTEENTH CENSUS OF THE UNITED STATES
MANUFACTURES: 1919

PRINTING AND PUBLISHING

Prepared under the supervision of EUGENE F. HARTLEY, Chief Statistician for Manufactures

CONTENTS

	Page.		Page.
EXPLANATION OF TERMS.....	2	Newspapers and periodicals, number and circulation.....	19
GENERAL STATISTICS.		Number and character of periodicals, by states.....	19
General character of the industry.....	3	Daily newspapers, number of, morning and evening.....	21
Comparative summary.....	4	Daily newspapers in leading cities.....	21
Comparative summary for the combined industry and each of the six branches.....	5	Daily newspapers, by geographic divisions and states.....	22
Principal states, ranked by value of products.....	5	Dailies in foreign languages, by states.....	23
Persons engaged in the industry.....	6	Dailies in foreign languages, by circulation.....	23
Wage earners, by months, for states.....	6	Sunday newspapers, by geographic divisions and states.....	23
Average number of wage earners, by prevailing hours of labor per week, for states.....	8	Sunday newspapers in 12 cities.....	25
Size of establishments, by average number of wage earners, for states.....	9	Weekly newspapers and periodicals, number and circulation, by geographic divisions and states.....	25
Size of establishments, by value of products.....	10	Weekly newspapers and periodicals, number and circulation, by leading states.....	26
Character of ownership.....	11	Weekly periodicals, number and circulation, by character of publication.....	27
Number and horsepower of types of prime movers.....	11	Weekly newspapers and periodicals in foreign languages.....	27
Fuel consumed.....	12	Weekly newspapers and periodicals in foreign languages, by states.....	28
SPECIAL STATISTICS.		Publications other than daily, Sunday, and weekly.....	28
Comparative statistics of printing and publishing, value.....	13	Triweeklies and semiweeklies.....	29
Statistics, by geographic divisions and states, industry proper.....	13	Monthly publications.....	29
Printing and publishing, book and job.....	16	Quarterly publications.....	29
Books and pamphlets.....	16	All other publications.....	30
Printing and publishing, music.....	17	Foreign-language publications other than dailies and weeklies.....	30
Newspapers and periodicals, by value of products.....	17	GENERAL TABLES.	
Newspapers and periodicals, by character of publications.....	17	Comparative summary, by states.....	31
		Detailed statement for the industry, by states.....	32



WASHINGTON
GOVERNMENT PRINTING OFFICE

EXPLANATION OF TERMS.

Scope of census.—Census statistics of manufactures are compiled primarily for the purpose of showing the absolute and relative magnitude of the different branches of industry covered and their growth or decline. Incidentally, the effort is made to present data throwing light upon character of ownership, size of establishments, and similar subjects. When use is made of the statistics for these purposes it is imperative that due attention be given to their limitations, particularly in connection with any attempt to derive from them figures purporting to show average wages, cost of production, or profits.

The census did not cover establishments which were idle during the entire year or for which products were valued at less than \$500, or the manufacturing done in educational, eleemosynary, and penal institutions.

Period covered.—The returns relate to the calendar year 1910, or the business year which corresponded most nearly to that calendar year, and cover a year's operations, except for establishments which began or discontinued business during the year.

The establishment.—As a rule, the term "establishment" represents a single plant or factory, but in some cases it represents two or more plants which were operated under a common ownership or for which one set of books of account was kept. If, however, the plants constituting an establishment as thus defined were not all located within the same city, county, or state, separate reports were secured in order that the figures for each plant might be included in the statistics for the city, county, or state in which it was located. In some instances separate reports were secured for different industries carried on in the same establishment.

Classification by industries.—The establishments were assigned to the several classes of industries according to their products of chief value. The products reported for a given industry may thus, on the one hand, include minor products different from those covered by the class designation, and, on the other hand, may not represent the total product covered by this designation, because some products of this class may be made in establishments in which it is not the product of chief value.

Influence of increased prices.—In comparing figures for cost of materials, value of products, and value added by manufacture in 1910 with the corresponding figures for earlier censuses, account should be taken of the general increase in the prices of commodities during recent years. To the extent to which this factor has been influential the figures fail to afford an exact measure of the increase in the volume of business.

Persons engaged in the industry.—The following general classes of persons engaged in the manufacturing industries were distinguished: (1) Proprietors and firm members, (2) salaried officers of corporations, (3) superintendents and managers, (4) clerks (including other subordinate salaried employees), and (5) wage earners.

The number of persons engaged in each industry, segregated by sex, and, in the case of wage earners, also by age (whether under 16 or 16 and over), was reported for a single representative day. The 15th of December was selected as representing for most industries normal conditions of employment, but where this date did not portray such conditions, an earlier date was requested.

In the case of employees other than wage earners the number thus reported for the representative date has been treated as equivalent to the average for the year, since the number of employees of this class does not ordinarily vary much from month to month. In the case of wage earners the average has been obtained in the manner explained in the next paragraph.

In addition to the more detailed report by sex and age of the number of wage earners on the representative date, a report was obtained of the number employed on the 15th of each month, by sex, without distinction of age. From these figures the average number of wage earners for the year has been calculated by dividing the sum of the numbers reported for the several months by 12. The importance of the industry as an employer of labor is believed to be more accurately measured by this average than by the number employed at any one time or on a given day.

The number of wage earners reported for the representative day, though given in certain tables for each separate industry, is not totaled for all industries combined, because, in view of the variations of date, such a total is not believed to be significant. It would involve more or less duplication of persons working in different industries at different times, would not represent the total number employed in all industries at any one time, and would give an undue weight to seasonal industries as compared with industries in continual operation.

In order to determine as nearly as possible the age distribution of the average number of wage earners for an industry, the per cent distribution by age of the wage earners for December 15, or the nearest representative day, has been calculated from the actual numbers reported for that date. The percentages thus obtained have been applied to the average number of wage earners for the year to determine the average numbers 16 years and over, and under 16, employed.

Salaries and wages.—Under these heads are given the total payments during the year for salaries and wages, respectively. The Census Bureau has not undertaken to calculate the average annual earnings of either salaried employees or wage earners. Such averages would possess little real value, because they would be based on the earnings of employees of both sexes, of all ages, and of widely varying degrees of skill. Furthermore, so far as wage earners are concerned, it would be impossible to calcu-

late accurately even so simple an average as this, since the number of wage earners fluctuates from month to month in every industry, and in some cases to a very great extent. The Census Bureau's figures for wage earners, as already explained, are averages based on the number employed on the 15th of each month, and while representing the number according to the pay rolls to whom wages were paid on that date, no doubt represent a larger number than would be required to perform the work in any industry if all were continuously employed during the year.

Prevailing hours of labor.—No attempt was made to ascertain the number of wage earners working a given number of hours per week. The inquiry called merely for the prevailing practice followed in each establishment. Occasional variations in hours in an establishment from one part of the year to another were disregarded, and no attention was paid to the fact that a few wage earners might have hours differing from those of the majority. All the wage earners of each establishment are therefore counted in the class within which the establishment itself falls. In most establishments, however, practically all the wage earners work the same number of hours, so that the figures give a substantially correct representation of the hours of labor.

Capital (amount actually invested).—The instructions on the schedule for securing data relating to capital were as follows:

"The answer should show the total amount of capital, both owned and borrowed, on the last day of the business year reported. All the items of fixed and live capital may be taken at the amounts carried on the books. If land or buildings are rented, that fact should be stated and no value given. If a part of the land or buildings is owned, the remainder being rented, that fact should be so stated and only the value of the owned property given. Do not include securities and loans representing investments in other enterprises."

These instructions were identical with those employed at the censuses of 1914 and 1909. The data compiled in respect to capital, however, at both censuses, as well as at all preceding censuses of manufactures, have been so defective as to be of little value except as indicating general conditions. In fact, it has been repeatedly recommended by the census authorities that this inquiry be omitted from the schedule. While there are some establishments whose accounting systems are such that an accurate return for capital could be made, this is not true of the great majority, and the figures therefore do not show the actual amount of capital invested.

Materials.—The statistics as to cost of materials relate to the materials used during the year, which may be more or less than the materials purchased during the year. The term "materials" covers fuel, rent of power and heat, mill supplies, and containers, as well as materials which form a constituent part of the product.

Rent and taxes.—The taxes include certain Federal taxes and state, county, and local taxes. Under "Federal taxes" there are included the internal revenue tax on manufactures (tobacco, beverages, etc.), excise taxes when included in values reported for products, corporation capital stock tax, and corporation income tax, but not the income tax for individuals and partners.

Value of products.—The amounts given under this heading represent the selling value or price at the factory of all products manufactured during the year, which may differ from the value of the products sold.

Value added by manufacture.—The value of products is not always a satisfactory measure of either the absolute or the relative importance of a given industry, because only a part of this value is actually created by the manufacturing processes carried on in the industry itself. Another part, and often by far the larger one, represents the value of the materials used. For many purposes, therefore, the best measure of the importance of an industry, from a manufacturing standpoint, is the value created by the manufacturing operations carried on within the industry. This value is calculated by deducting the cost of the materials used from the value of the products. The figure thus obtained is termed in the census reports "value added by manufacture."

Cost of manufacture and profits.—The census data do not show the entire cost of manufacture, and consequently can not be used for the calculation of profits. No account has been taken of depreciation or interest, rent of offices and buildings other than factory or works, insurance, ordinary repairs, advertising, and other sundry expenses.

Primary horsepower.—This item represents the total primary power equipment of the manufacturing establishments plus the amount of power, principally electric, rented from other concerns. It does not cover the power of electric motors taking their current from dynamos driven by primary power machines operated by the same establishment, because the inclusion of such power would obviously result in duplication. The figures for primary horsepower represent the rated capacity of the engines, motors, etc., and not the amount of power in actual daily use.

Fuel.—Statistics of the quantity of fuel used are shown only for anthracite and bituminous coal, coke, fuel oils, gasoline and other volatile oils, and gas, and represent the quantity used during the year. As only the principal kinds of fuel are shown, comparison as to the total cost of all fuel is impracticable.

PRINTING AND PUBLISHING.

GENERAL STATISTICS.

General character of the industry.—The printing and publishing industry as here presented comprises establishments included under six census classifications, as follows: (1) Job printing, book printing and publishing, or publishing only, and machine composition; (2) music printing and publishing, or publishing only; (3) newspaper and periodical printing and publishing, or publishing only; (4) bookbinding and blank-book making; (5) engraving, steel and copper plate, including plate printing; and (6) lithographing. The first three comprise what is referred to in this publication as the printing and publishing industry proper. It should be stated that an establishment printing and publishing or publishing a newspaper or periodical is classified under newspapers and periodicals, regardless of the fact that the value of its receipts from other sources may be greater. Somewhat similar conditions prevail in the other branches of the industry in which there is more or less overlapping. The value of products, therefore, represents the total receipts of the establishments of these branches, which may not represent the exact totals in accordance with the industry heading.

Comparison with earlier censuses.—Table 1 shows the statistics for the six branches of the printing and publishing industry combined, for five censuses, 1899 to 1919. In all essential features, increases are shown from census to census, except that from 1914 to 1919 there are decreases in number of establishments and proprietors and firm members. The large increases in salaries and wages, cost of materials, and the value of products from 1914 to 1919 are due largely to a general rise of prices and wages following the World War, and can not, therefore, properly be used to measure the growth of the industry during that census period. The addition of the Federal income tax since 1914 will account for the exceptional increase in "Rent and taxes."

Comparative summary.—Table 2 shows the general statistics of each of the six branches of the printing and publishing industry for 1919 and 1914. In this industry, as in many other industries, there are duplications of values. A publisher, for instance, often has the printing or the machine composition done by another establishment in the industry, and this work legitimately becomes part of the value of products of each. These duplications in the three printing and publishing industries proper, to which they apply, may, in part, be secured from Table 14.

Of the three printing and publishing industries proper, only one, book and job, shows an increase in number of establishments for the five-year period 1914-1919. During this five-year period the increase in value of products for book and job printing was

\$290,332,367, or 94.5 per cent. For newspapers and periodicals, the increase in value of products was \$428,246,930, or 86.4 per cent, and for music, \$7,320,911, or 100.7 per cent. In average number of wage earners, for the same five-year period, book and job printing reported the largest absolute increase, 9,884, or 8.7 per cent; as compared with 6,006, or 5.3 per cent, for newspapers and periodicals; and 26, or 3 per cent, for music.

Of the three analogous branches—bookbinding and blank-book making; engraving, steel and copper plate, including plate printing; and lithographing—lithographing reported 44.8 per cent of the total value of products; engraving, steel and copper plate, 14.8 per cent; and bookbinding and blank-book making, 40.4 per cent. Their percentages of increase in value of products over 1914 were 86.9, 75.6, and 73.3 per cent, respectively. These three industries combined, in 1919, reported 9.6 per cent of the total value of products for the six branches combined, as compared with 10.1 per cent in 1914.

Summary, by states.—Table 3 shows, by states, for the six branches of the industry combined, so far as they can be presented without disclosing individual operations, the average number of wage earners, value of products, and value added by manufacture, with per cent distribution and rank for 1919. The states in this table are ranked by value of products, which is not always conclusive as indicating their real importance. Their ranking in many instances would change materially if based upon average number of wage earners or value added by manufacture. The total value of products for the nine states included as "All other states" represented only 1 per cent of the total value of products for all states in the industry in 1919.

Persons engaged in the industry.—All branches of the industry combined are shown in Table 4, by persons engaged, according to occupation and sex, and by age, for wage earners. The decrease in proprietors and firm members from 1914 to 1919 naturally follows the reduction in number of establishments shown in other tables and the increase in corporations. The increase in salaried officers of corporations likewise is in harmony with the increase in number of corporations, shown in Table 9. The decrease in percentage of male and increase of female wage earners appears to be one of the effects of the World War.

In 1919 as compared with 1914, while there was an actual increase of 5.6 per cent in the average number of wage earners, their relative proportion to all classes decreased 2 per cent. Clerks and other subordinate salaried employees increased 16.7 per cent, while proprietors and officials increased 10.3 per cent.

Wage earners, by months.—Table 5 shows the statistics for wage earners, by months, for all branches combined, and for each of the six branches, 1919 and 1914, and by states, 1919. The table also shows for 1919 the number of males and females for all branches of the industry combined and for each branch separately, and the number of females in certain states in which a comparatively large number of female wage earners were employed.

Prevailing hours of labor.—Table 6 presents the classification of wage earners by number of hours worked per week, in each of the six branches of the industry, and separately for the states, 1919 and 1914. This table shows a marked shortening of the working day for the industry since 1914. In that year only 68.6 per cent of the wage earners were reported in the group "48 and under" as against 86.8 per cent in 1919. In 1914 the groups "Between 48 and 54," "54," and "Between 54 and 60" constituted 29.6 per cent, and the groups "60" and "Over 60," 1.8 per cent of the total number of wage earners, as compared with 12.4 per cent and eight-tenths of 1 per cent, respectively, for 1919. The same general conditions of the shortening of the hours of labor in 1919 as compared with 1914 are evidenced for the separate states.

Size of establishments, by average number of wage earners.—Table 7 gives the size of establishments, by average number of wage earners, for the six branches of the industry separately, and for all branches combined for 1919 and 1914, and by states for 1919. The statistics in this table emphasize the predominance of the number of small establishments, when based on the number of wage earners employed. In 1919, for instance, of the total number of establishments in the printing and publishing industry as a whole, 98.6 per cent were in the several classes having fewer than 101 wage earners, while such establishments employed 61.5 per cent of the total number of wage earners. The establishments in the industry employing an average of more than 100 wage earners represented only 1.4 per cent of the total number of establishments, but reported 38.5 per cent of the total number of wage earners.

Size of establishments, by value of products.—Table 8 presents the statistics for all branches of the industry combined, and separately for each of the six branches, as to the number of establishments in the several classes by value of products, 1919 and 1914. The figures strikingly illustrate the fact that the number of establishments of itself is no real index of their importance to the industry.

Character of ownership.—Table 9 shows the character of ownership for the industry as a whole, and for each of the six branches, 1919 and 1914, and by states for 1919. This table illustrates the preponderance of corporate ownership. Although corporations owned but 27.5 per cent of the number of establishments in the combined industry, they reported 74.9 per cent of the average number of wage earners and 80 per cent of value of products. During the five-year period 1914-1919, the average number of wage earners, as reported by corporations, increased 26,208, or 13.9 per cent, and the value of products \$672,967,256, or 98 per cent. Similar conditions prevailed in practically all branches of the industry.

Number and horsepower of types of prime movers.—Table 10 shows, for the industry as a whole, the total number and horsepower of the several types of prime movers used in the industry in 1919, 1914, and 1909. The total horsepower reported in 1919, as compared with that for 1914, shows an increase of 32,913 horsepower, or 10 per cent. This increase is due to the gain of 54,596 horsepower, or 22.5 per cent, in rented power, since owned power decreased 21,683 horsepower, or 25.1 per cent, during the five-year period. Of the total horsepower in 1914, 26.2 per cent was owned power and 73.8 per cent rented. The corresponding proportions for 1919 were 17.9 per cent and 82.1 per cent, respectively.

Fuel consumed.—Table 11 shows the principal kinds and the quantities of fuel used in the combined industry, by states, for 1919 and 1914. The most marked increase during the five-year period was in oils, 49,105 barrels, or 92.9 per cent, several states showing a decrease in the use of coal with an increase in oil.

TABLE 1.—COMPARATIVE SUMMARY: 1919, 1914, 1909, 1904, AND 1899.

	1919	1914	1909	1904	1899	PER CENT OF INCREASE. ¹			
						1914-1919	1909-1914	1904-1909	1899-1904
Number of establishments.....	32,476	39,471	31,445	27,703	23,814	-3.0	6.4	13.1	16.7
Persons engaged.....	455,822	419,313	388,466	316,047	261,440	8.0	7.9	22.9	20.9
Proprietors and firm members.....	28,493	31,041	30,424	28,368	25,495	-8.2	2.0	7.2	11.3
Salaried employees.....	140,051	116,180	99,608	68,592	40,685	21.4	16.6	45.2	68.6
Wage earners (average number).....	287,278	272,092	258,434	219,087	195,260	5.6	5.3	18.0	12.2
Primary horsepower.....	302,123	320,210	297,763	180,380	119,775	10.0	10.9	79.0	38.9
Capital.....	\$1,150,505,247	\$720,231,054	\$588,345,708	\$432,853,984	\$339,003,432	59.7	22.4	35.9	30.0
Salaries and wages.....	563,584,011	337,007,294	278,080,431	194,044,287	189,291,335	69.3	24.2	37.5	40.0
Salaries.....	232,064,588	137,396,936	103,458,251	67,748,298	39,475,220	68.9	32.8	52.7	71.6
Wages.....	331,519,423	199,510,358	164,622,180	127,195,989	99,316,115	69.6	18.8	29.4	27.4
Paid for contract work.....	87,087,115	41,532,001	36,384,359	28,880,362	19,235,938	111.1	14.2	28.0	50.1
Rent and taxes.....	56,404,238	24,201,193	16,347,081	* 12,123,888	10,383,485	132.4	48.6	84.8	37.5
Cost of material's.....	571,510,277	257,847,076	201,774,500	142,514,182	103,654,284	121.0	27.8	41.6	38.8
Value of products.....	1,699,789,220	901,534,801	737,876,087	552,473,353	395,186,620	88.5	22.2	35.6	38.6
Value added by manufacture.....	1,128,273,952	643,686,825	536,101,407	400,959,171	291,632,345	75.3	20.1	30.8	40.6

¹ A minus sign (—) denotes decrease.

* Exclusive of Internal revenue.

² Value of products less cost of materials.

PRINTING AND PUBLISHING.

TABLE 2.—COMPARATIVE SUMMARY FOR THE COMBINED INDUSTRY AND EACH OF THE SIX BRANCHES: 1919 AND 1914.

	TOTAL FOR INDUSTRY.			ESTABLISHMENTS ENGAGED PRIMARILY IN—					
				Printing and publishing, book and job.			Printing and publishing, music.		
	1919	1914	Per cent of increase, ¹ 1914-1919.	1919	1914	Per cent of increase, 1914-1919.	1919	1914	Per cent of increase, ¹ 1914-1919.
Number of establishments.....	32,476	33,471	-3.0	13,089	12,115	8.0	160	180	-11.1
Persons engaged.....	455,822	419,313	8.0	171,199	152,908	12.0	2,622	2,182	20.2
Proprietors and firm members.....	28,493	31,041	-8.2	12,185	11,717	4.0	107	146	-26.7
Salaried employees.....	140,051	116,180	21.4	36,009	28,070	28.3	1,616	1,163	39.0
Wage earners (average number).....	287,278	272,692	5.6	123,005	113,121	8.7	899	873	3.0
Primary horsepower.....	362,123	329,210	10.0	131,961	115,233	14.5	634	594	6.7
Capital.....	\$1,150,505,247	\$720,231,654	59.7	\$405,554,084	\$247,282,409	64.0	\$8,006,122	\$4,260,844	87.9
Salaries and wages.....	563,584,011	332,907,294	69.3	207,196,883	113,419,236	82.7	3,974,228	1,903,872	108.7
Salaries.....	232,064,588	137,398,930	68.9	65,720,640	35,005,536	87.7	3,047,240	1,330,887	129.0
Wages.....	331,519,423	195,510,358	69.6	141,476,243	78,413,700	80.4	926,988	572,985	61.8
Paid for contract work.....	87,687,115	41,532,001	111.1	32,283,303	17,658,478	82.6	2,712,899	1,561,812	73.8
Rent and taxes.....	56,464,238	24,291,193	132.4	19,853,046	10,278,667	93.1	642,249	246,945	160.1
Cost of materials.....	571,510,277	257,847,976	121.6	211,037,174	96,453,232	118.8	2,123,781	1,046,630	102.9
Value of products.....	1,009,789,229	901,534,801	88.5	597,063,228	307,330,861	94.5	14,592,177	7,271,266	100.7
Value added by manufacture.....	1,128,278,052	643,686,825	75.3	388,596,054	210,877,629	83.3	12,468,396	6,224,636	100.3

	ESTABLISHMENTS ENGAGED PRIMARILY IN—											
	Printing and publishing, newspapers and periodicals.			Bookbinding and blank-book making.		Engraving, steel and copper plate, including plate printing.			Lithographing.			
	1919	1914	Per cent of increase, ¹ 1914-1919.	1919	1914	Per cent of increase, ¹ 1914-1919.	1919	1914	Per cent of increase, ¹ 1914-1919.	1919	1914	Per cent of increase, ¹ 1914-1919.
Number of establishments.....	17,362	19,317	-10.1	1,113	1,124	-1.0	421	399	5.5	331	336	-1.5
Persons engaged.....	228,030	212,000	7.8	25,287	25,633	-1.3	8,779	8,521	3.0	19,305	18,069	6.8
Proprietors and firm members.....	14,570	17,560	-17.0	1,111	1,078	3.1	370	369	0.3	150	171	-12.3
Salaried employees.....	93,679	80,045	17.0	3,815	2,862	33.3	1,395	1,293	7.9	3,537	2,727	20.7
Wage earners (average number).....	120,381	114,375	5.3	20,361	21,693	-6.1	7,014	6,859	2.3	15,618	15,171	2.9
Primary horsepower.....	194,361	181,269	7.2	11,123	11,266	-1.3	5,420	5,670	-4.4	18,624	15,178	22.7
Capital.....	\$614,045,344	\$384,744,761	59.0	\$43,041,207	\$20,179,790	47.5	\$19,040,260	\$18,078,545	-0.2	\$60,817,330	\$35,685,305	70.4
Salaries and wages.....	288,198,701	179,580,971	60.5	26,112,733	15,026,590	73.8	10,787,426	6,404,409	68.4	27,314,040	16,572,216	64.8
Salaries.....	143,850,528	91,019,723	58.0	7,453,912	3,451,867	115.9	2,879,317	1,877,725	53.3	9,112,951	4,711,198	93.4
Wages.....	144,348,173	88,561,248	63.0	18,658,821	11,574,723	61.2	7,908,109	4,526,684	74.7	18,201,089	11,861,018	53.5
Paid for contract work.....	50,776,049	20,960,716	142.2	452,225	381,087	18.7	138,215	267,207	-48.3	1,363,424	703,601	93.8
Rent and taxes.....	30,201,682	10,816,270	179.2	2,501,266	1,372,850	82.2	865,542	471,509	83.6	2,400,403	1,104,936	117.2
Cost of materials.....	300,85,187	129,082,218	132.7	23,235,171	13,334,207	74.3	6,980,747	3,914,508	78.3	27,718,217	14,017,181	97.7
Value of products.....	924,152,878	495,905,948	86.4	66,020,677	38,104,368	73.3	24,209,154	13,786,385	75.6	73,151,115	33,135,973	86.9
Value added by manufacture.....	623,767,691	366,823,730	70.0	42,785,506	24,770,161	72.7	17,228,407	9,871,877	74.5	45,432,898	25,118,792	80.9

¹ A minus sign (-) denotes decrease.

² Value of products less cost of materials.

TABLE 3.—PRINCIPAL STATES, RANKED BY VALUE OF PRODUCTS—ALL BRANCHES COMBINED: 1919.

STATE.	Number of establishments.	WAGE EARNERS.			VALUE OF PRODUCTS.			VALUE ADDED BY MANUFACTURE.		
		Average number.	Per cent distribution.	Rank.	Amount (expressed in thousands).	Per cent distribution.	Rank.	Amount (expressed in thousands).	Per cent distribution.	Rank.
United States.....	32,476	287,278	100.0	.....	\$1,699,789	100.0	.....	\$1,128,279	100.0	.....
New York.....	4,831	67,491	23.5	1	478,898	28.2	1	326,371	28.9	1
Illinois.....	2,647	36,537	12.7	2	219,331	12.9	2	140,023	12.4	2
Pennsylvania.....	2,457	26,456	9.2	3	165,344	9.7	3	104,322	9.3	3
Ohio.....	1,780	19,174	6.7	4	112,029	6.6	4	73,712	6.5	4
Massachusetts.....	1,327	18,247	6.3	5	104,551	6.2	5	69,645	6.2	5
California.....	1,504	10,047	3.5	7	61,816	3.6	6	41,476	3.7	6
Missouri.....	1,310	11,465	4.0	6	61,250	3.6	7	38,118	3.4	7
Michigan.....	1,015	7,880	2.7	8	46,829	2.8	8	31,293	2.8	8
Minnesota.....	1,003	6,319	2.2	10	33,480	2.0	9	23,127	2.0	9
Texas.....	1,087	5,594	1.9	12	32,687	1.9	10	21,561	1.9	10
Indiana.....	865	6,772	2.4	9	30,612	1.8	11	20,504	1.8	11
Iowa.....	907	4,808	1.7	14	26,806	1.6	12	18,955	1.7	12
Wisconsin.....	842	5,838	2.0	11	26,467	1.6	13	17,377	1.5	13
New Jersey.....	772	5,356	1.9	13	24,218	1.4	14	15,567	1.4	14
Maryland.....	385	4,391	1.5	15	28,835	1.4	15	14,720	1.3	15
Washington.....	569	2,453	0.8	23	17,349	1.0	16	12,796	1.1	16
District of Columbia.....	185	2,154	0.7	25	16,859	1.0	17	12,311	1.1	17
Tennessee.....	368	2,667	1.0	18	15,833	0.9	18	10,361	0.9	19
Nebraska.....	694	2,531	0.9	22	15,322	0.9	19	10,374	0.9	18
Georgia.....	418	2,344	1.0	19	14,130	0.8	20	8,908	0.8	21

MANUFACTURES.

TABLE 3.—PRINCIPAL STATES, RANKED BY VALUE OF PRODUCTS—ALL BRANCHES COMBINED: 1919—Continued.

STATE.	Number of establishments.	WAGE EARNERS.			VALUE OF PRODUCTS.			VALUE ADDED BY MANUFACTURE.		
		Average number.	Per cent distribution.	Rank.	Amount (expressed in thousands).	Per cent distribution.	Rank.	Amount (expressed in thousands).	Per cent distribution.	Rank.
Connecticut.....	412	3,021	1.1	17	\$14,036	0.8	21	\$9,496	0.8	20
Virginia.....	380	2,710	0.9	21	13,162	0.8	22	8,626	0.8	22
Kansas.....	738	3,043	1.0	16	12,717	0.7	23	7,696	0.7	25
Colorado.....	461	2,366	0.8	24	12,613	0.7	24	8,449	0.7	23
Kentucky.....	373	2,850	1.0	20	11,735	0.7	25	8,121	0.7	24
Oklahoma.....	510	1,931	0.7	26	10,241	0.6	26	7,193	0.6	26
Oregon.....	358	1,595	0.6	30	10,155	0.6	27	7,140	0.6	27
Louisiana.....	270	1,581	0.6	31	8,110	0.5	28	5,029	0.5	29
Rhode Island.....	155	1,650	0.6	27	7,326	0.4	20	5,108	0.5	28
Alabama.....	237	1,253	0.4	33	7,286	0.4	30	4,907	0.4	30
North Carolina.....	319	1,608	0.6	28	6,404	0.4	31	4,371	0.4	31
Maine.....	175	1,599	0.6	20	5,932	0.3	32	3,531	0.3	31
Florida.....	237	1,172	0.4	35	5,618	0.3	33	3,911	0.3	32
West Virginia.....	222	1,339	0.5	32	4,837	0.3	34	3,255	0.3	36
Montana.....	247	1,011	0.4	38	4,763	0.3	35	3,436	0.3	34
Arkansas.....	294	1,102	0.4	36	4,747	0.3	36	3,300	0.3	35
Utah.....	156	1,218	0.4	34	4,581	0.3	37	3,165	0.3	37
South Carolina.....	174	1,022	0.4	37	4,005	0.2	38	2,801	0.2	39
South Dakota.....	358	766	0.3	40	3,882	0.2	39	2,900	0.3	38
North Dakota.....	318	660	0.2	41	3,225	0.2	40	2,374	0.2	40
All other states.....	994	4,508	1.6	.....	16,769	1.0	.....	11,939	1.1	.....

TABLE 4.—PERSONS ENGAGED IN THE INDUSTRY: 1919, 1914, AND 1909.

CLASS.	Census year.	Total.	Male.	Female.	PER CENT OF TOTAL.		CLASS.	Census year.	Total.	Male.	Female.	PER CENT OF TOTAL.	
					Male.	Female.						Male.	Female.
All classes.....	1919	455,822	335,063	120,759	73.6	26.4	Clerks and other subordinate salaried employees.	1919	110,380	62,338	48,042	56.5	43.5
	1914	419,313	325,983	93,330	77.7	22.3		1914	94,510	62,436	32,074	66.1	33.9
	1909	388,466	301,681	86,785	77.7	22.3		1909	80,700	54,905	25,795	68.0	32.0
Proprietors and officials.....	1919	58,164	54,006	3,558	93.9	6.1	Wage earners (average number)...	1919	287,278	218,719	68,559	76.1	23.9
	1914	52,711	50,236	2,475	95.3	4.7		1914	272,092	213,311	58,781	78.4	21.6
	1909	49,332	47,351	1,981	96.0	4.0		1909	258,434	199,425	59,009	77.2	22.8
Proprietors and firm members	1919	28,493	26,941	1,552	94.0	6.0	16 years of age and over.....	1919	278,990	211,939	67,051	76.0	24.0
	1914	31,041	29,467	1,574	94.9	5.1		1914	265,860	208,053	57,807	78.3	21.7
	1909	30,424	29,130	1,294	95.7	4.3		1909	252,101	194,175	57,926	77.0	23.0
Salaried officers of corporations	1919	11,523	10,805	718	93.8	6.2	Under 16 years of age.....	1919	8,288	6,780	1,508	81.8	18.2
	1914	9,000	8,528	472	94.8	5.2		1914	6,232	5,258	974	84.4	15.6
	1909	7,265	6,952	313	95.7	4.3		1909	6,333	5,250	1,083	82.9	17.1
Superintendents and managers.	1919	18,148	16,800	1,288	92.9	7.1							
	1914	12,670	12,241	429	96.6	3.4							
	1909	11,643	11,269	374	96.8	3.2							

TABLE 5.—WAGE EARNERS, BY MONTHS, FOR THE UNITED STATES AND EACH OF THE SIX BRANCHES OF THE INDUSTRY, 1919 AND 1914; AND FOR COMBINED INDUSTRIES, FOR STATES: 1919.

[The month of maximum employment is indicated by bold-faced figures and that of minimum employment by *italic* figures.]

INDUSTRY, SEX, AND STATE.	Average number employed during year.	NUMBER EMPLOYED ON 15TH DAY OF THE MONTH OR NEAREST REPRESENTATIVE DAY.												Per cent minimum is of maximum.		
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.			
United States:																
1919.....	287,278	276,448	278,620	281,043	281,401	283,046	285,243	288,110	291,226	293,648	287,446	293,783	307,232	309,000	307,232	90.0
Males.....	218,719	209,618	211,220	212,077	214,274	215,894	218,242	220,147	222,802	224,746	218,248	222,734	233,720	233,720	233,720	89.7
Females.....	68,559	66,830	67,394	68,966	67,127	67,152	67,001	67,963	68,424	68,902	69,198	71,049	73,512	73,512	73,512	90.9
1914.....	272,092	274,519	274,926	276,848	278,901	272,907	271,313	267,625	266,932	269,842	271,009	271,598	272,724	272,724	272,724	95.4
Printing and publishing, book and job:																
1919.....	123,005	119,117	119,993	120,294	120,206	120,515	121,811	123,230	125,111	126,470	121,000	124,512	133,741	133,741	133,741	89.1
Males.....	91,544	88,480	88,916	89,080	89,518	90,069	91,107	92,198	93,752	94,623	89,436	91,806	99,483	99,483	99,483	88.9
Females.....	31,461	30,637	31,077	31,214	30,748	30,446	30,704	31,032	31,359	31,847	31,564	32,706	34,258	34,258	34,258	89.9
1914.....	113,121	114,868	115,215	116,406	114,034	113,221	112,223	110,453	110,475	111,999	112,852	112,726	112,890	112,890	112,890	91.8
Printing and publishing, music:																
1919.....	899	840	863	850	890	900	920	897	892	902	919	950	956	956	956	87.9
Males.....	714	661	675	668	692	718	738	725	721	732	740	785	783	783	783	87.2
Females.....	185	179	188	182	198	191	182	172	171	170	179	165	167	167	167	83.7
1914.....	873	893	880	901	887	876	850	846	849	873	877	884	884	884	884	93.8
Printing and publishing, newspapers and periodicals:																
1919.....	120,381	116,986	116,902	118,540	118,724	119,798	120,078	120,617	121,511	122,270	121,215	123,006	125,907	125,907	125,907	92.0
Males.....	90,572	86,390	86,304	87,530	87,981	88,900	89,029	89,796	90,730	91,635	90,522	92,096	94,375	94,375	94,375	91.4
Females.....	29,809	28,596	28,598	31,010	30,743	30,898	31,049	30,821	30,781	30,635	30,693	30,910	31,532	31,532	31,532	91.7
1914.....	114,375	114,492	114,495	114,838	114,812	114,842	114,145	112,555	112,504	113,694	115,041	115,248	115,834	115,834	115,834	97.1

MANUFACTURES.

TABLE 8.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS, FOR THE COMBINED INDUSTRIES AND EACH OF THE SIX BRANCHES: 1919 AND 1914.

INDUSTRY AND VALUE OF PRODUCT.	NUMBER OF ESTABLISHMENTS.				AVERAGE NUMBER OF WAGE EARNERS.				VALUE OF PRODUCTS.				VALUE ADDED BY MANUFACTURE.			
	1919		1914		1919		1914		1919		1914		1919		1914	
			Per cent distribution.	Per cent distribution.			Per cent distribution.	Per cent distribution.			Per cent distribution.	Per cent distribution.			Per cent distribution.	Per cent distribution.
UNITED STATES.....	32,476	33,471	100.0	100.0	287,278	272,002	100.0	100.0	\$1,699,780,229	\$901,534,801	100.0	100.0	\$1,128,278,052	\$643,680,825	100.0	100.0
Less than \$5,000.....	12,113	17,201	37.3	51.4	7,300	19,205	2.5	7.1	31,520,745	42,359,622	1.9	4.7	23,362,140	33,658,091	2.1	5.2
\$5,000 to \$20,000.....	11,547	10,306	35.6	30.8	30,791	43,437	10.7	16.0	116,673,097	99,039,126	6.9	11.0	84,772,863	70,856,305	7.5	11.9
\$20,000 to \$100,000.....	6,140	4,473	18.9	13.4	92,046	68,253	21.6	25.1	270,110,339	193,007,423	15.9	21.4	100,081,006	142,655,537	16.8	22.2
\$100,000 to \$500,000.....	2,117	1,239	6.5	3.7	81,623	101,634	28.4	37.4	441,609,418	248,103,243	26.0	27.5	302,974,293	240,958,797	26.9	28.4
\$500,000 to \$1,000,000.....	324	148	1.0	0.4	35,439	70,070	12.3	24.4	219,157,554	104,149,363	12.9	11.4	146,319,733	143,558,085	13.0	22.3
\$1,000,000 and over.....	235	104	0.7	0.3	70,070	30,503	24.4	14.5	620,662,176	215,879,024	36.5	23.9	380,708,917	143,558,085	33.7	22.3
PRINTING AND PUBLISHING, BOOK AND JOB.....	13,089	12,115	100.0	100.0	123,005	113,121	100.0	100.0	597,663,228	307,330,861	100.0	100.0	386,596,654	210,877,629	100.0	100.0
Less than \$5,000.....	4,216	5,402	32.2	44.6	1,750	4,945	1.4	4.4	10,359,620	13,065,623	1.7	4.3	6,935,152	9,463,400	1.8	4.5
\$5,000 to \$20,000.....	4,542	4,094	34.7	33.8	11,920	18,317	9.7	16.2	47,714,891	40,551,051	8.0	13.2	31,343,275	28,908,705	8.1	13.7
\$20,000 to \$100,000.....	3,127	2,047	23.9	16.9	32,640	34,903	26.5	30.9	138,402,721	88,944,772	23.2	28.9	80,955,251	61,112,627	23.3	29.0
\$100,000 to \$500,000.....	1,013	514	7.7	4.3	41,821	46,324	34.0	41.0	203,507,319	100,802,347	34.1	32.8	132,110,447	87,095,322	34.2	41.6
\$500,000 to \$1,000,000.....	138	40	1.1	0.3	17,137	8,632	13.0	7.6	89,451,341	27,415,557	15.0	8.9	59,494,298	23,697,575	15.4	11.2
\$1,000,000 and over.....	53	18	0.4	0.1	17,737	8,632	14.4	7.6	108,104,236	36,551,611	18.1	11.9	66,757,631	23,697,575	17.3	11.2
PRINTING AND PUBLISHING, MUSIC.....	160	180	100.0	100.0	899	873	100.0	100.0	14,592,177	7,271,266	100.0	100.0	12,468,396	6,224,636	100.0	100.0
Less than \$5,000.....	46	71	28.8	39.4	2	15	0.2	1.7	110,226	150,600	0.8	2.1	97,046	140,432	0.8	2.3
\$5,000 to \$20,000.....	41	45	25.6	25.0	32	75	3.5	8.6	455,242	450,427	3.1	6.2	359,772	410,326	2.9	6.6
\$20,000 to \$100,000.....	38	46	23.7	25.6	82	173	9.2	19.8	1,750,253	2,372,863	12.0	32.6	1,383,011	2,127,283	11.1	34.2
\$100,000 to \$500,000.....	29	18	18.1	10.0	391	610	43.5	69.0	6,483,324	4,444,444	44.4	50.1	5,184,847	3,546,595	44.4	57.0
\$500,000 and over.....	6	18	3.8	10.0	392	610	43.6	69.0	5,793,132	4,207,367	39.7	50.1	5,443,120	3,546,595	43.7	57.0
PRINTING AND PUBLISHING, NEWSPAPERS AND PERIODICALS.....	17,362	19,317	100.0	100.0	120,381	114,375	100.0	100.0	924,152,578	495,905,948	100.0	100.0	623,767,691	306,823,730	100.0	100.0
Less than \$5,000.....	7,472	11,142	43.0	57.7	5,279	13,374	4.4	11.7	20,024,337	27,631,219	2.2	5.6	15,486,712	22,783,258	2.5	6.2
\$5,000 to \$20,000.....	6,340	5,633	36.5	28.6	15,915	20,344	13.2	17.8	61,499,459	51,317,416	6.7	10.3	47,542,141	42,297,720	7.6	11.5
\$20,000 to \$100,000.....	2,429	1,940	14.0	10.0	20,774	22,180	17.2	19.4	105,595,917	82,109,202	11.4	16.0	81,746,205	60,132,178	13.1	18.0
\$100,000 to \$500,000.....	829	538	4.8	2.8	20,201	21,790	16.5	20.0	179,020,050	109,578,913	19.4	22.1	132,788,556	125,109,125	21.3	34.1
\$500,000 to \$1,000,000.....	137	80	0.8	0.4	10,233	33,155	8.5	20.0	94,186,006	90,572,174	10.2	12.2	64,447,204	64,447,204	10.3	34.1
\$1,000,000 and over.....	155	78	0.9	0.4	41,970	25,322	35.1	22.1	463,826,569	164,697,024	50.2	33.2	281,756,873	110,504,449	45.2	30.1
BOOKBINDING AND BLANK-BOOK MAKING.....	1,113	1,124	100.0	100.0	20,361	21,693	100.0	100.0	66,020,677	38,104,368	100.0	100.0	42,785,506	24,770,161	100.0	100.0
Less than \$5,000.....	248	300	22.3	35.5	235	743	1.2	3.4	681,104	1,070,870	1.0	2.8	536,643	894,173	1.3	3.6
\$5,000 to \$20,000.....	431	414	38.9	36.8	2,163	3,300	10.6	15.2	4,861,125	4,249,843	7.4	11.2	3,862,703	3,329,346	9.0	13.4
\$20,000 to \$100,000.....	312	233	28.0	20.7	5,172	6,458	25.4	20.8	13,564,105	9,964,163	20.5	20.1	9,433,080	6,798,330	22.0	27.4
\$100,000 to \$500,000.....	95	65	8.5	5.8	5,886	28,690	28.9	31.0	29,449,337	12,251,470	31.0	32.2	12,774,700	13,748,312	30.9	35.5
\$500,000 and over.....	27	13	2.4	1.2	6,905	11,192	33.0	51.5	29,463,006	10,568,013	40.1	27.7	10,177,471	13,748,312	37.8	55.5
ENGRAVING, STEEL AND COPPER PLATE, INCLUDING PLATE PRINTING.....	421	399	100.0	100.0	7,014	6,859	100.0	100.0	24,209,154	13,789,385	100.0	100.0	17,228,407	9,871,877	100.0	100.0
Less than \$5,000.....	90	130	21.4	34.1	36	158	0.5	2.3	251,048	349,179	1.0	2.5	220,717	294,116	1.3	3.0
\$5,000 to \$20,000.....	149	154	35.4	38.6	624	1,070	8.9	15.6	1,655,036	1,724,581	6.8	12.5	1,259,693	1,341,430	7.5	13.6
\$20,000 to \$100,000.....	139	80	33.0	21.6	2,072	2,071	29.5	30.2	5,771,603	3,403,287	23.8	24.7	4,334,022	2,551,161	25.2	25.8
\$100,000 to \$500,000.....	30	20	8.0	5.0	1,917	3,500	27.3	51.0	6,994,048	4,631,655	28.9	20.2	4,979,789	5,685,161	28.9	57.6
\$500,000 and over.....	7	3	1.7	0.8	2,365	3,500	33.7	51.0	9,537,421	4,283,783	30.4	31.1	6,403,356	6,403,356	37.2	57.6
LITHOGRAPHING.....	331	336	100.0	100.0	15,618	15,171	100.0	100.0	73,151,115	39,135,973	100.0	100.0	45,432,898	25,118,792	100.0	100.0
Less than \$5,000.....	41	51	12.4	15.2	7	30	(1)	0.2	92,412	95,213	0.1	0.2	85,270	82,712	0.2	0.3
\$5,000 to \$20,000.....	44	66	13.3	19.6	197	331	0.9	2.2	488,244	745,808	0.7	1.9	375,349	598,709	0.8	2.3
\$20,000 to \$100,000.....	95	121	28.7	36.0	1,306	2,468	8.4	16.3	4,965,740	6,213,136	6.8	15.0	3,227,637	3,935,958	7.1	15.7
\$100,000 to \$500,000.....	113	86	34.1	26.0	5,407	8,969	34.0	50.1	25,151,740	18,440,306	34.4	47.1	15,135,945	14,892,936	33.3	60.3
\$500,000 to \$1,000,000.....	24	7	7.3	2.1	3,360	3,360	21.5	22.8	16,432,294	4,459,256	22.8	11.4	10,305,739	14,892,936	22.7	22.5
\$1,000,000 and over.....	14	5	4.2	1.5	5,401	3,373	34.6	22.2	25,810,685	9,173,194	35.3	23.4	16,302,958	5,640,417	35.9	22.5

MANUFACTURES.

TABLE 11.—FUEL CONSUMED, BY STATES: 1919 AND 1914.

STATE.	Cen- sus year.	COAL.		Coke, (tons, 2,000 lbs.).	Fuel oils (bar- rels).	Gas- line and other volatile oils (bar- rels).	Gas (1,000 cubic feet).	STATE.	Cen- sus year.	COAL.		Coke, (tons, 2,000 lbs.).	Fuel oils (bar- rels).	Gas- line and other volatile oils (bar- rels).	Gas (1,000 cubic feet).
		Anthra- cite (tons, 2,240 lbs.).	Bitumi- nous (tons, 2,000 lbs.).							Anthra- cite (tons, 2,240 lbs.).	Bitumi- nous (tons, 2,000 lbs.).				
United States..	1919	179,493	370,398	7,048	73,553	28,401	2,567,301	Montana.....	1919	46	600	.....	41	330	2,342
	1914	165,903	351,395	4,830	52,849	(1)	2,270,571		1914	69	1,945	1	484	.....	6,543
Alabama.....	1919	49	1,337	157	61	301	5,111	Nebraska.....	1919	340	7,379	42	116	775	23,157
	1914	131	1,205	62	507	.....	21,333		1914	446	6,597	20	858	.....	15,543
Arizona.....	1919	.....	80	.....	.....	100	6,987	Nevada.....	1919	10	166	3	1	85	5,456
	1914	8	84	.....	97	.....	4,491		1914	21	105	5	147	.....	251
Arkansas.....	1919	80	673	.....	149	454	18,499	New Hampshire.....	1919	564	970	1	.....	16	1,711
	1914	73	411	.....	644	.....	11,474		1914	500	597	24	11	.....	2,583
California.....	1919	44	417	4	23,823	1,903	224,099	New Jersey.....	1919	7,935	2,634	1,611	20	160	31,177
	1914	69	371	2	10,288	.....	80,781		1914	8,314	7,002	17	332	.....	47,092
Colorado.....	1919	48	5,377	52	65	379	20,528	New Mexico.....	1919	63	502	.....	4	227	722
	1914	123	4,910	28	375	.....	30,028		1914	20	104	.....	108	.....	1,094
Connecticut.....	1919	3,713	2,975	60	75	457	26,878	New York.....	1919	91,897	38,067	220	1,520	1,014	314,583
	1914	2,719	3,260	38	91	.....	19,871		1914	71,523	29,217	611	1,541	.....	375,747
Delaware.....	1919	317	305	.....	8	23	1,048	North Carolina.....	1919	141	2,007	21	50	336	3,638
	1914	496	302	.....	65	.....	1,201		1914	208	2,260	32	526	.....	8,256
District of Columbia..	1919	865	1,810	.....	3	61	15,887	North Dakota.....	1919	297	3,108	21	45	574	2,560
	1914	1,164	2,595	1	31	.....	24,902		1914	707	1,012	45	782	.....	1,508
Florida.....	1919	207	196	95	86	437	6,018	Ohio.....	1919	322	35,823	204	335	661	375,222
	1914	287	280	29	828	.....	4,988		1914	895	40,510	714	889	.....	409,403
Georgia.....	1919	135	1,623	16	142	615	32,012	Oklahoma.....	1919	51	1,421	1	74	580	91,389
	1914	309	1,609	23	688	.....	12,442		1914	118	1,050	10	898	.....	66,631
Idaho.....	1919	49	1,082	15	4	103	622	Oregon.....	1919	27	455	20	549	213	16,785
	1914	28	767	40	129	.....	1,719		1914	25	478	.....	1,465	.....	13,194
Illinois.....	1919	1,663	80,652	274	1,397	3,987	139,083	Pennsylvania.....	1919	40,920	14,203	59	90	490	479,825
	1914	5,586	72,908	333	1,375	.....	108,935		1914	41,017	11,908	51	868	.....	275,761
Indiana.....	1919	342	10,443	223	340	697	52,483	Rhode Island.....	1919	735	798	66	13,116	53	11,130
	1914	599	17,409	144	912	.....	57,987		1914	1,603	6,699	20	16	.....	7,494
Iowa.....	1919	945	15,177	187	244	1,144	45,815	South Carolina.....	1919	87	1,340	10	40	477	29,211
	1914	589	16,399	267	1,965	.....	21,038		1914	498	973	5	356	.....	1,816
Kansas.....	1919	1,248	3,843	18	380	646	47,463	South Dakota.....	1919	273	3,022	15	17	802	2,136
	1914	128	2,960	38	1,074	.....	72,429		1914	583	2,462	28	873	.....	1,165
Kentucky.....	1919	28	5,369	1,291	76	453	23,024	Tennessee.....	1919	124	7,585	114	19	242	7,355
	1914	55	5,817	10	576	.....	16,230		1914	21	5,061	510	245	.....	11,914
Louisiana.....	1919	22	268	42	40	300	25,292	Texas.....	1919	422	3,936	43	879	1,952	54,041
	1914	51	473	7	392	.....	21,316		1914	244	2,964	30	3,374	.....	75,875
Maine.....	1919	1,143	1,082	35	55	143	5,078	Utah.....	1919	4	1,544	.....	60	94	3,255
	1914	1,488	1,421	13	101	.....	2,379		1914	372	1,042	5	60	.....	5,379
Maryland.....	1919	1,447	7,474	.....	110	478	13,270	Vermont.....	1919	663	363	40	8	28	1,006
	1914	2,697	5,501	33	145	.....	15,738		1914	700	93	18	47	.....	3,546
Massachusetts.....	1919	7,764	22,886	111	10,420	118	80,025	Virginia.....	1919	603	5,924	103	57	300	6,256
	1914	9,405	24,803	410	441	.....	124,822		1914	1,144	3,071	98	325	.....	12,232
Michigan.....	1919	1,086	16,660	347	1,149	1,242	35,490	Washington.....	1919	18	1,743	20	391	290	23,347
	1914	1,807	15,079	432	1,202	.....	51,493		1914	24	1,335	17	702	.....	14,680
Minnesota.....	1919	1,890	10,813	178	79	1,420	38,040	West Virginia.....	1919	10	688	.....	158	121	87,372
	1914	2,459	8,079	208	830	.....	25,211		1914	.....	549	.....	.....	.....	76,312
Mississippi.....	1919	31	428	4	39	418	1,384	Wisconsin.....	1919	1,228	8,716	494	81	804	37,048
	1914	32	606	5	303	.....	2,590		1914	1,840	71,112	392	823	.....	24,051
Missouri.....	1919	492	21,150	921	17,325	1,599	77,425	Wyoming.....	1919	15	735	1	27	299	1,888
	1914	572	26,535	45	13,548	.....	65,551		1914	77	460	.....	77	.....	1,784

1 Included in figures for fuel oils.

SPECIAL STATISTICS.

Comparative statistics, industry proper.—Table 12 shows the statistics for printing and publishing, book and job; music; and newspapers and periodicals for 1919, 1914, and 1909. The three classifications mentioned are designated in this report as "the industry proper."

In Table 13 the value of "job printing" and of "electrotyping, engraving, etc.," shown in Table 14, are segregated into various groups, by geographic divisions and states; but only where the proper combinations can be made do the totals in the two tables agree.

TABLE 12.—COMPARATIVE STATISTICS, INDUSTRY PROPER, BY CHARACTER OF PRODUCTS: 1919, 1914, AND 1909.

PRODUCT.	1919	1914	1909	PER CENT OF INCREASE. ¹			PRODUCT.	1919	1914	1909	PER CENT OF INCREASE. ¹		
				1909-1919	1914-1919	1909-1914					1909-1919	1914-1919	1909-1914
Number of establishments.....	30,611	31,612	20,757	2.9	-3.2	6.2	Publications—Contd. Books and pamphlets— Published, or printed and published.. Printed for publication by others.... Sheet music and books of music— Published, or printed and published.. Printed for publication by others.... Other products for sale and in execution of orders— Job printing..... Machine composition for others.... Bookbinding and blank books..... Electrotyping, engraving, lithographing, etc..... All other products..						
Book and job.....	13,080	12,115	10,708	22.2	8.0	13.1		\$132,699,383	\$68,587,778	\$62,930,394	110.9	93.5	9.0
Music.....	160	180	178	-10.1	-11.1	1.1		32,861,475	19,049,651	10,209,509	221.9	72.5	89.6
Newspapers and periodicals.....	17,302	19,317	18,871	-8.0	-10.1	2.4							
Total value.....	\$1,536,498,283	\$810,508,075	\$662,501,959	131.9	89.6	22.3							
Publications:													
Newspapers and periodicals.....	406,305,760	419,209,701	337,596,288	133.8	92.3	24.2							
Subscriptions and sales.....	278,006,382	163,577,000	135,063,043	105.8	70.0	21.1							
Advertising.....	528,299,378	255,632,611	202,533,245	160.8	106.7	26.2		12,509,981	6,803,491	5,510,698	127.0	83.9	23.5
Newspapers.....	566,321,400	283,588,966	232,903,094	143.1	99.7	21.7		3,766,908	822,585	1,000,966	276.3	357.9	-17.8
Subscriptions and sales.....	192,819,519	99,541,860	84,438,702	128.4	93.7	17.9							
Advertising.....	373,501,890	184,047,106	148,554,392	151.4	102.9	23.9		465,419,994	249,730,932	204,154,096	128.0	86.4	22.3
Periodicals other than newspapers	230,984,351	135,620,735	104,603,194	120.4	77.0	29.7		12,487,551	5,682,098	(?)		119.8	
Subscriptions and sales.....	85,186,803	64,035,230	50,624,341	68.3	33.0	26.5	23,911,103	15,097,109	18,810,392	27.1	53.4	-19.7	
Advertising.....	154,797,488	71,585,505	53,978,853	186.8	116.2	32.6							
Ready prints (patent insides and outsides)	2,010,506	1,965,214	2,293,077	-12.3	2.3	-14.3	11,337,829	9,698,641	8,201,398	38.2	16.9	18.3	
							33,097,793	13,860,875	11,885,141	178.5	138.8	16.6	

¹ A minus sign (-) denotes decrease.

² Included in "Job printing."

Statistics, by geographic divisions and states, industry proper.—Table 13 shows details as to the value of products, for each of the three branches of the industry proper, for 1919. In receipts from subscriptions and sales of newspapers the Middle Atlantic division led, with 35.1 per cent. East North Central was second, with 24.8 per cent, and the West North Central was

third, with 10.5 per cent. These were also the ranking divisions in newspaper advertising, having 28 per cent, 23.8 per cent, and 12.2 per cent, respectively.

The Middle Atlantic division ranked first in receipts from the printing and publishing, or publishing only, of books and pamphlets; the East North Central was second, and New England third.

TABLE 13.—INDUSTRY PROPER, BY GEOGRAPHIC DIVISIONS AND STATES: 1919.

DIVISION AND STATE.	Number of establishments.	Total value.	NEWSPAPERS.		PERIODICALS (OTHER THAN NEWSPAPERS).		NEWSPAPERS AND PERIODICALS.	BOOKS AND PAMPHLETS.	
			Printed and published, or published, by establishments reporting.		Printed and published, or published, by establishments reporting.			Printed for publication by others.	Printed and published, or published, by establishments reporting.	Printed for publication by others.
			Subscriptions and sales.	Advertising.	Subscriptions and sales.	Advertising.	Printed for publication by others.		
UNITED STATES.....	30,611	\$1,536,408,283	\$192,810,510	\$373,501,800	\$85,180,863	\$154,707,488	\$22,013,267	\$132,699,383	\$32,861,475
NEW ENGLAND.....	2,125	120,827,728	16,290,604	31,936,011	5,505,427	4,497,048	1,393,964	20,454,027	3,625,896
Maine.....	166	5,755,370	624,242	1,311,994	1,050,542	1,171,824	24,050	31,825	49,276
New Hampshire.....	128	2,454,938	313,616	707,797	28,541	37,451	325,537	15,880	199,256
Vermont.....	106	1,715,263	259,142	441,367	20,079	41,401	52,002	35,970	57,530
Massachusetts.....	1,195	90,136,994	12,489,975	22,627,505	4,155,310	2,911,893	895,755	19,410,977	2,085,766
Rhode Island.....	141	7,004,048	787,608	2,611,407	40,567	183,770	19,523	11,064	635,211
Connecticut.....	389	13,760,215	1,780,021	4,335,651	201,448	121,639	81,028	948,311	694,797
MIDDLE ATLANTIC.....	7,166	586,602,681	67,624,532	104,440,925	48,045,140	100,197,072	10,123,177	73,511,914	15,293,809
New York.....	4,179	411,077,645	49,635,807	63,880,825	38,062,218	62,221,442	8,775,043	61,203,522	12,630,815
New Jersey.....	718	21,973,904	2,026,481	7,319,624	308,479	153,614	632,311	1,358,473	733,147
Pennsylvania.....	2,269	163,552,133	16,062,241	33,249,476	9,014,443	37,822,016	715,820	10,880,919	1,923,347
EAST NORTH CENTRAL.....	6,781	394,589,034	47,834,755	88,821,237	15,826,030	28,378,617	6,214,087	26,079,339	9,357,960
Ohio.....	1,676	68,216,150	10,533,968	28,236,258	6,810,756	8,291,073	1,055,009	4,542,168	704,450
Indiana.....	841	29,913,217	4,611,292	9,965,256	1,023,978	1,119,407	688,557	671,576	407,385
Illinois.....	2,470	201,044,228	24,240,370	39,409,318	5,741,570	16,500,979	3,958,802	19,663,227	7,668,507
Michigan.....	1,064	42,772,105	5,461,753	13,558,379	1,097,632	1,338,348	410,362	1,047,353	429,890
Wisconsin.....	700	22,610,238	3,587,372	6,892,026	517,000	1,128,750	201,567	1,065,015	147,688
WEST NORTH CENTRAL.....	5,298	149,797,139	20,244,335	45,454,327	4,996,426	11,049,751	1,810,952	5,079,671	1,378,706
Minnesota.....	978	33,083,394	4,480,091	9,039,831	685,031	2,320,553	464,056	1,936,151	458,568
Iowa.....	982	25,642,724	3,479,150	7,811,242	1,294,366	4,271,279	416,086	306,883	84,328
Missouri.....	1,241	56,177,672	6,903,708	16,096,592	1,303,037	2,155,591	360,946	2,315,442	668,220
North Dakota.....	318	3,225,627	639,926	1,471,017	83,677	18,726	3,777	2,500	8,490
South Dakota.....	358	3,881,927	633,516	1,280,476	85,508	503,941	5,953	7,020	11,805
Nebraska.....	688	15,085,433	2,251,176	5,342,448	610,882	406,266	441,104	445,357	43,309
Kansas.....	733	12,701,062	1,856,768	4,113,411	922,425	1,374,436	115,130	60,318	103,886
SOUTH ATLANTIC.....	2,318	85,366,410	11,088,685	28,250,246	5,361,379	3,478,374	745,158	2,494,115	1,237,098
Delaware.....	56	1,433,207	189,443	601,453	13,532	19,323	10,079	.....	3,181
Maryland.....	353	20,065,229	2,094,455	5,553,850	327,231	733,241	229,784	434,434	320,723
District of Columbia.....	109	15,872,531	1,545,307	4,000,044	4,028,270	1,126,886	288,489	401,353	480,106
Virginia.....	372	13,038,715	1,322,006	3,681,212	342,407	201,700	25,047	1,448,826	107,003
West Virginia.....	224	4,837,019	867,282	1,821,833	40,325	40,265	8,211	22,837	135,387
North Carolina.....	319	6,404,177	1,175,141	2,486,254	138,363	110,514	24,697	68,805	33,445
South Carolina.....	174	4,004,634	676,620	1,707,667	129,652	41,089	29,569	6,442	114,316
Georgia.....	414	14,092,432	2,388,250	5,229,915	278,235	1,046,071	109,715	59,378	41,439
Florida.....	237	5,618,466	820,303	2,387,418	63,355	166,288	19,567	51,980	51,498
EAST SOUTH CENTRAL.....	1,151	35,497,200	4,802,632	11,187,972	1,992,811	1,504,078	224,074	1,405,127	391,036
Kentucky.....	300	10,605,320	1,518,393	3,338,047	353,011	206,523	40,319	36,688	50,671
Tennessee.....	306	15,832,846	1,916,271	4,303,991	1,471,897	601,162	77,033	1,441,110	261,145
Alabama.....	232	7,049,638	1,124,075	2,522,628	164,133	633,272	80,001	10,504	57,399
Mississippi.....	193	2,009,496	368,893	723,303	3,770	3,121	20,121	6,825	21,321
WEST SOUTH CENTRAL.....	2,130	55,184,441	7,623,504	21,737,430	875,131	1,766,051	346,011	636,705	288,429
Arkansas.....	295	4,782,597	784,794	1,840,905	82,654	81,091	57,950	10,900	37,353
Louisiana.....	259	7,021,800	1,255,097	3,081,096	90,500	222,511	82,734	15,915	96,202
Oklahoma.....	507	10,212,272	1,884,644	4,463,481	159,372	499,409	62,432	61,430	97,081
Texas.....	1,075	32,287,802	4,198,300	12,351,867	551,530	963,550	143,789	548,520	57,763
MOUNTAIN.....	1,313	27,795,688	4,576,030	11,489,002	316,961	384,421	423,706	266,317	382,511
Montana.....	247	4,782,589	912,005	1,984,075	33,382	40,544	24,199	1,680	18,668
Idaho.....	159	2,175,151	390,280	814,910	57,365	63,800	4,708	27,670	27,670
Wyoming.....	92	1,227,208	194,464	677,219	15,642	23,995	2,510	7,490	7,490
Colorado.....	463	11,519,208	1,621,675	4,701,610	143,068	168,385	320,900	99,241	246,904
New Mexico.....	87	900,536	149,954	393,213	2,313	8,469	3,079	12,239	17,900
Arizona.....	84	2,086,395	311,814	1,058,420	32,088	23,945	28,826	19,434	19,434
Utah.....	152	4,513,809	886,374	1,706,635	33,103	55,223	20,384	145,499	29,950
Nevada.....	39	610,792	111,364	252,320	.....	.....	1,040	1,250	15,355
PACIFIC.....	2,323	80,750,962	12,673,542	30,175,731	1,366,652	3,540,570	1,630,338	1,782,108	1,004,960
Washington.....	548	16,672,169	2,919,094	7,029,343	157,170	783,924	554,108	122,511	172,094
Oregon.....	346	9,804,207	1,435,856	3,635,282	202,749	625,642	178,015	35,074	57,112
California.....	1,429	54,274,586	8,318,693	19,511,106	1,006,733	2,281,010	898,185	1,024,523	771,854

¹ In addition, printing and publishing, etc., to the value of \$5,617,801, was reported by establishments in other industries.

PRINTING AND PUBLISHING.

TABLE 13.—INDUSTRY PROPER, BY GEOGRAPHIC DIVISIONS AND STATES: 1919—Continued.

DIVISION AND STATE.	SHEET MUSIC AND BOOKS OF MUSIC.		Engravings, lithographs, etc., printed for publication by others.	Ready prints (patent insides and out-sides) for publication by others.	Stereotyped plates for use by others.	Job printing, not elsewhere included.	Machine composition done for others.	Book-binding.	Blank books.	Electrotyping, engraving, etc.	All other products.
	Printed and published, or published, by establishments reporting.	Printed for publication by others.									
UNITED STATES.....	\$12,509,981	\$3,766,908	\$9,021,607	\$2,010,500	\$2,292,512	\$442,506,727	\$12,487,551	\$16,957,313	\$6,953,790	\$1,716,222	\$30,805,281
NEW ENGLAND.....	1,642,327	49,545	533,104	42,805	76,338	30,229,486	663,112	2,520,084	139,639	258,388	1,038,423
Maine.....			16,655			1,366,277	15,917	36,120	26,150	5,282	17,207
New Hampshire.....						774,281	2,013	11,034			9,532
Vermont.....					500	774,072	7,034	9,625	10,500		3,141
Massachusetts.....	1,642,327	49,265	175,909	42,865	75,838	20,317,144	457,691	2,014,730	12,349	241,553	603,172
Rhode Island.....			341,540			1,849,417	8,000	273,731	8,346		323,529
Connecticut.....		280				5,148,295	171,557	175,444	82,294	11,553	167,842
MIDDLE ATLANTIC.....	8,970,877	2,813,008	2,360,452	153,502	623,089	125,920,166	5,629,589	4,910,371	2,590,328	686,150	11,792,780
New York.....	8,622,244	1,602,150	1,683,793	102,963	403,107	81,979,704	4,799,282	4,020,135	1,141,068	550,992	9,178,475
New Jersey.....	3,701	3,067	7,241	55	9,519	8,866,978	134,316	277,478	9,441	127	77,848
Pennsylvania.....	344,929	1,208,691	669,415	50,484	211,363	35,073,429	695,991	606,768	1,439,819	135,031	2,536,457
EAST NORTH CENTRAL.....	1,436,018	826,630	2,036,030	444,862	704,429	141,587,098	3,257,629	5,917,512	2,278,073	583,252	12,100,670
Ohio.....	434,624	330,768	1,143,621	79,815	123,665	31,764,355	720,713	882,092	1,148,890	110,094	1,267,277
Indiana.....	17,298		120,876	91,665	64,129	9,793,448	422,732	166,387	205,006		673,655
Illinois.....	975,400	375,800	197,765	105,223	448,276	75,253,026	1,876,766	4,318,242	850,835	401,968	8,008,574
Michigan.....	8,698	117,865	265,893	68,390	37,568	16,007,055	84,830	433,687	39,464	46,948	1,718,112
Wisconsin.....		2,197	307,875	99,799	30,891	8,169,214	152,568	117,104	33,878	24,272	433,012
WEST NORTH CENTRAL.....	296,211	33,907	1,882,815	745,951	391,835	51,289,095	1,363,955	1,171,904	641,605	101,495	1,864,198
Minnesota.....		951	561,233	122,784	84,270	11,241,483	499,733	671,652	56,804	92,087	366,316
Iowa.....	2,208		55,971	174,260	62,005	7,081,013	89,998	75,879	37,926		397,145
Missouri.....	285,303	32,956	1,002,327	194,842	111,942	23,309,071	558,654	214,464	445,983		626,914
North Dakota.....			64,417	64,417	35,064	1,176,920	6,780	150	25		3,559
South Dakota.....			25,836	10,242	1,208,650	3,243	24,182	53,444			18,483
Nebraska.....	8,700		150,649	104,061	49,929	4,684,207	152,981	69,777	29,140	8,662	287,492
Kansas.....			110,013	69,161	29,383	3,598,745	52,568	115,800	18,283	746	164,289
SOUTH ATLANTIC.....	24,000	1,500	1,108,445	92,130	149,447	28,547,175	228,272	548,753	572,938	25,580	1,413,655
Delaware.....						508,106					
Maryland.....	11,000	120	557,981	37,524	71,232	7,969,959	31,274	227,675	473,219		962,427
District of Columbia.....						3,303,766	51,250				3,451
Virginia.....	13,000	1,440	233,513			5,144,609	66,701	104,190	23,292		322,812
West Virginia.....			52,156	600		1,778,604	150	45,177	26,678		2,514
North Carolina.....			9,462	30,467	31,621	2,272,559	17	1,712	1,832		16,238
South Carolina.....			59,644			1,028,194		129,121	42,109	12,830	27,475
Georgia.....			193,250	23,540	43,594	4,569,495	37,284	39,330	5,658	12,750	74,510
Florida.....			3,339			2,008,796	41,596	1,548	150		3,628
EAST SOUTH CENTRAL.....		40,000	214,701	80,242	59,255	12,775,059	191,471	171,969	100,125	3,523	197,125
Kentucky.....						4,873,140	24,935	9,889			93,704
Tennessee.....		40,000	214,701	68,366	39,199	5,027,634	134,819	141,813	71,808		25,304
Alabama.....				27,886	20,056	1,950,713	31,647	14,267	25,317	3,523	78,117
Mississippi.....						917,572	70	3,000			
WEST SOUTH CENTRAL.....	74,433	668	342,660	247,207	119,502	19,292,236	282,597	312,217	326,051	5,000	908,740
Arkansas.....	15,588		200	51,810	27,239	1,338,815	12,120	17,103	25,135		378,784
Louisiana.....	1,680	608	5,240			2,720,115	51,276	113,085	25,360		159,622
Oklahoma.....			27,735	91,847	33,706	3,223,698	42,278	19,303	44,005		7,791
Texas.....	55,165		309,785	100,550	58,557	12,009,608	176,923	162,726	231,551	5,000	362,543
MOUNTAIN.....			332,855	163,731	55,541	8,479,265	118,054	465,621	81,130		199,673
Montana.....			12,730	51,294	960	1,517,131	38,829	17,884	47,344		61,894
Idaho.....						748,394	3,000	30,737	29,897		12
Wyoming.....					510	391,691	1,135	7,000	3,000		412
Colorado.....			103,806	75,968	34,413	3,466,179	42,321	351,225	258		134,255
New Mexico.....						296,844		15,325			1,500
Arizona.....						604,018	7,550	250			
Utah.....			276,319	36,469	19,658	1,225,545	25,219	43,200	631		1,600
Nevada.....						229,433					
PACIFIC.....	68,115	680	750,245	34,016	112,176	24,387,177	752,872	938,282	223,901	52,834	1,260,617
Washington.....	7,809	50	41,391	13,258	6,810	4,390,462	149,739	130,957	133,843	13,013	46,530
Oregon.....			110,425		36,287	3,241,677	166,506	35,034	43,046		161,473
California.....	60,246	640	598,429	20,758	69,079	16,755,038	436,627	772,291	47,012	39,821	1,112,614

MANUFACTURES.

Printing and publishing, book and job.—Table 14 gives the statistics in considerable detail for the book and job branch of the industry for the leading states: 1919, 1914, and 1909.

New York was first in value of books and pamphlets printed and published and published only, with 43.8 per cent of the total; Massachusetts being second, with 18.3 per cent; and Illinois third, with 16.4 per cent. In 1914 Illinois was second and Massa-

chusetts third. In job printing New York was first, with 19.5 per cent of the total for the United States, Illinois second, with 18.2 per cent, and Pennsylvania third, with 7.9 per cent—the same order as in 1914. During the five years, 1914–1919, New York showed the greatest absolute increase in value of books and pamphlets printed and published, or published only, \$17,769,724; and Illinois the greatest in job printing, \$37,065,368.

TABLE 14.—COMPARATIVE SUMMARY, BOOKS AND JOB, BY STATES: 1919, 1914, AND 1909.

STATE.	Cen-sus year.	Total value of products.	Newspapers and periodicals printed for publication by others.	BOOKS AND PAMPHLETS.		Music, printed and published, published only, or printed for publication by others; engravings, lithographs, ready prints, and plate matter.	Job printing, not elsewhere included.	Machine composition done for others.	Book-binding.	Blank books.	Electro-tying, engraving, etc.	All other products.
				Printed and published or published only.	Printed for publication by others.							
United States....	1919	\$597,663,228	\$19,106,326	\$93,618,830	\$30,385,072	\$14,076,483	\$382,422,718	\$9,085,228	\$15,131,776	\$9,058,071	\$1,421,884	\$23,856,124
	1914	307,330,861	7,407,500	49,595,482	17,662,613	6,605,123	196,082,104	5,270,808	9,498,144	3,772,649	3,451,780	7,324,568
	1909	250,925,934	6,681,624	44,394,621	9,100,643	5,053,128	157,009,380	.....	12,241,819	4,748,250	3,943,591	7,592,578
California.....	1919	19,871,377	836,549	588,042	712,730	732,701	14,351,737	430,918	775,745	44,472	39,821	1,358,563
	1914	9,885,477	187,684	802,631	207,474	231,841	7,393,594	261,716	504,420	55,030	143,909	97,778
	1909	7,438,072	218,417	453,172	132,616	73,776	5,812,574	.....	478,979	79,918	91,243	97,377
Illinois.....	1919	110,886,458	3,112,353	15,379,396	7,660,892	2,918,453	69,607,208	1,850,420	3,497,471	846,435	297,812	5,711,919
	1914	54,625,954	369,811	7,479,963	8,184,261	1,017,379	32,541,930	923,919	1,650,256	580,127	926,755	1,055,533
	1909	39,474,143	405,027	7,783,151	5,581,038	518,085	25,306,538	.....	2,243,405	614,592	927,565	1,034,662
Indiana.....	1919	10,741,232	450,299	565,410	387,660	276,920	7,807,360	288,528	165,775	139,077	.....	655,303
	1914	0,237,228	166,030	633,950	69,895	79,598	4,110,330	160,221	247,144	217,692	99,800	455,559
	1909	5,680,867	21,190	813,031	164,009	47,073	3,008,386	.....	389,111	209,800	296,573	131,694
Maryland.....	1919	10,690,650	99,991	306,409	308,518	605,967	7,528,505	43,053	227,155	472,954	.....	948,166
	1914	5,546,639	39,499	316,562	497,351	277,808	3,680,889	50,298	259,732	192,005	2,201	232,294
	1909	3,667,154	77,511	444,131	192,000	500	2,318,131	.....	231,929	58,640	172,636	161,676
Massachusetts.....	1919	41,626,850	661,089	17,120,097	1,071,473	263,258	18,548,172	411,571	2,013,030	7,299	241,553	382,717
	1914	20,245,240	336,759	9,507,223	1,494,866	70,234	10,226,054	272,711	973,272	20,916	250,423	91,838
	1909	17,138,951	320,126	5,168,126	1,334,841	125,753	8,604,920	.....	1,215,935	18,883	229,873	130,494
Michigan.....	1919	17,075,025	371,495	933,295	358,205	369,701	14,040,089	557,172	433,602	22,647	66,948	533,651
	1914	9,380,560	74,300	428,910	240,444	409,042	7,010,854	308,507	201,704	23,050	335,800	231,886
	1909	6,185,479	139,373	494,438	92,288	192,958	4,792,349	.....	130,397	54,128	166,429	153,119
Minnesota.....	1919	12,994,804	383,173	1,867,239	437,760	603,844	8,336,129	485,151	478,866	43,675	.....	268,977
	1914	7,652,223	99,333	1,801,259	106,701	246,438	4,074,892	246,087	100,535	62,930	47,679	125,539
	1909	4,002,128	85,108	235,471	90,280	276,545	3,469,377	.....	188,067	163,694	29,145	54,481
Missouri.....	1919	25,880,461	315,231	806,798	503,240	1,328,357	20,420,056	443,404	198,661	439,827	.....	1,265,267
	1914	12,434,192	155,218	611,452	322,851	624,472	9,490,658	322,175	138,678	383,520	39,876	445,263
	1909	12,240,660	90,577	668,611	185,798	478,692	9,214,400	.....	259,710	632,541	186,958	524,964
New Jersey.....	1919	9,569,344	655,070	.....	606,610	6,617	7,201,593	119,447	277,018	0,441	.....	732,339
	1914	4,201,465	106,830	34,136	830,884	3,817	3,223,971	38,281	5,296	15,073	30	24,645
	1909	3,665,413	10,810	219,070	62,573	3,049	3,054,911	.....	169,724	48,972	29,692	60,956
New York.....	1919	149,123,975	8,134,568	40,983,983	11,612,157	2,194,185	74,408,718	2,717,141	3,016,769	1,134,683	530,940	3,788,591
	1914	78,841,261	4,372,206	23,214,259	2,771,244	1,510,528	40,885,335	1,202,488	4,377,708	367,802	598,870	1,391,731
	1909	69,706,292	3,722,404	19,196,592	3,391,790	1,101,972	35,229,938	.....	3,817,708	641,110	504,793	2,599,546
Ohio.....	1919	39,201,684	910,010	3,487,196	719,338	1,732,932	28,729,554	625,443	700,911	1,140,042	61,606	1,033,533
	1914	19,615,250	225,048	1,631,240	105,897	418,797	15,253,054	267,595	615,926	431,404	167,342	708,947
	1909	14,987,412	327,614	2,812,093	563,460	402,390	6,533,806	.....	408,769	307,910	279,512	303,762
Pennsylvania.....	1919	46,152,747	555,396	8,307,940	1,472,240	1,169,606	30,079,200	390,440	598,072	1,393,797	133,611	2,051,153
	1914	25,285,844	259,830	4,288,249	1,881,672	264,000	17,743,393	189,595	427,224	487,164	271,627	545,693
	1909	21,810,516	311,449	4,122,762	1,018,093	259,514	14,107,336	.....	620,126	408,740	177,941	594,945
Texas.....	1919	12,233,688	105,659	522,526	40,112	453,226	10,221,704	169,821	160,446	228,805	3,000	328,589
	1914	4,711,163	45,830	233,925	35,231	189,291	3,465,864	134,824	204,126	168,105	85,035	157,603
	1909	4,110,397	15,614	285,502	48,769	146,304	2,587,659	.....	199,865	204,114	270,034	292,625
Wisconsin.....	1919	7,670,336	74,187	230,065	64,072	433,131	6,885,147	139,401	39,256	33,098	.....	62,970
	1914	4,239,891	69,270	252,706	169,789	229,730	3,343,323	60,210	71,814	15,871	51,105	35,966
	1909	2,959,012	10,917	120,383	131,621	38,762	2,429,892	.....	67,848	15,333	42,900	95,856
All other states.....	1919	83,043,688	2,530,850	2,355,540	3,380,587	1,740,405	64,238,796	1,307,809	1,888,030	701,819	66,090	4,833,753
	1914	44,038,498	618,835	1,290,617	1,085,050	1,204,598	33,625,136	744,641	1,610,249	735,462	431,328	1,724,626
	1909	37,279,438	847,301	1,592,058	1,181,248	1,240,105	27,050,263	.....	2,016,995	1,220,560	567,337	1,589,461

Comparative summary, books and pamphlets.—Table 15 shows the number of the leading issues of books and pamphlets, by character of publication, 1919, 1914, and 1909.

The increases during the five-year period 1914–1919 are pronounced. Educational books advanced 47 per

cent in number of copies, and juvenile books 49 per cent, while works on medicine and hygiene went forward 479.3 per cent. Copies of histories were more numerous in 1919 than in 1914 by 155.4 per cent; but fiction declined, by reason, perhaps, of the fiction periodicals,

TABLE 15.—BOOKS AND PAMPHLETS, NUMBER: 1919, 1914, AND 1909.

CHARACTER.	NUMBER OF COPIES PRINTED.			PER CENT OF TOTAL.		
	1919	1914	1909	1919	1914	1909
Total.....	252,068,816	175,166,698	101,361,844	100.0	100.0	100.0
Education.....	75,075,335	51,069,521	41,636,847	29.8	29.2	25.8
Fiction.....	24,317,643	30,598,501	49,942,399	9.6	22.6	29.1
History.....	6,280,483	2,458,912	2,923,187	2.5	1.4	1.8
Juvenile.....	24,434,912	16,399,881	10,184,030	9.7	9.4	6.3
Law.....	2,254,561	1,701,602	1,490,194	0.9	1.0	0.9
Medicine and hygiene.....	13,539,464	2,337,312	1,519,450	5.4	1.3	0.9
Philosophy.....	538,775	189,996	265,077	0.2	0.1	0.2
Poetry and drama.....	2,082,508	1,926,892	1,980,824	1.1	1.1	1.2
Religion and theology (in- cluding Bibles).....	30,496,230	24,411,502	23,608,230	14.5	13.9	14.6
Scientific and similar as- sociations.....	1,149,946	1,279,427	1,258,562	0.5	0.7	0.8
Works of reference.....	15,832,195	11,032,385	7,799,590	6.3	6.3	4.8
All others.....	49,466,404	22,760,767	21,747,424	19.6	13.0	13.5

In comparing the figures of the censuses, it must be remembered that the totals include pamphlets as well as books, and that the number of pamphlets may increase from census to census in greater proportion than books, due, in part, to the high cost of materials and the consequent lack of demand for certain kinds of cloth-bound literature.

Printing and publishing, music.—Table 16 shows, by states, the value of products of establishments engaged chiefly in music printing and publishing, and music publishing, and those engaged wholly in music printing for others, 1919, 1914, and 1909. New York continued to lead, as at previous censuses, in total volume of output, with 67.5 per cent of the total, as compared with 49.9 per cent in 1914; in per cent of increase, however, Massachusetts led.

TABLE 16.—COMPARATIVE SUMMARY, MUSIC, BY LEADING STATES: 1919, 1914, AND 1909.

STATE.	TOTAL.			PER CENT OF INCREASE. ¹			SHEET MUSIC AND BOOKS OF MUSIC.						ALL OTHER PRODUCTS. ³		
	1919	1914	1909				Printed and published, or published, by establishments reporting.			Printed by music houses for publication by others. ²			1919	1914	1909
				1919	1914	1909	1919	1914	1909						
United States.....	\$14,592,177	\$7,271,266	\$5,575,903	101.7	100.7	30.4	\$12,509,981	\$6,088,746	\$4,581,342	\$1,923,546	\$712,509	\$848,038	\$158,650	\$469,951	\$146,523
Illinois.....	975,400	1,042,794	946,517	3.1	-6.5	10.2	975,400	879,905	889,466	.....	98,524	33,981	.....	64,365	23,070
Massachusetts.....	1,642,327	530,264	352,312	306.2	209.7	50.5	1,642,327	530,264	352,312	.....	.....	.....	.....	.....	.....
New York.....	9,844,265	3,631,522	3,110,433	216.5	171.1	16.8	8,022,244	3,051,953	2,583,342	1,222,024	567,117	412,781	.....	12,452	114,310
Ohio.....	434,624	484,344	384,537	13.0	-10.3	26.0	434,624	409,544	309,605	.....	.....	74,932	.....	74,800	.....
Pennsylvania.....	344,929	364,194	375,823	-8.2	-5.3	-3.1	344,929	310,320	261,917	.....	.....	112,099	.....	53,874	1,807
All other states ⁴	1,350,029	1,218,148	406,281	232.4	10.9	199.8	490,457	906,760	184,700	701,522	46,928	214,245	158,650	264,460	7,336

¹ A minus sign (-) denotes decrease.

² To avoid disclosing the operations of individual establishments in 1919, receipts for music "Printed by music houses for publication by others" and for "All other products" reported in Illinois, Massachusetts, Ohio, and Pennsylvania are excluded from the figures given for those states and are included with those for "All other states"; in 1914 the same applies only to Massachusetts.

³ Includes, for 1919, job printing to the value of \$135,692, bookbinding to the value of \$18,984, and machine composition to the value of \$3,974; for 1914, periodicals to the value of \$93,177, books and pamphlets to the value of \$21,921, aectotyping, engraving, lithographing, and stereotyped plates to the value of \$115,557, job printing to the value of \$19,356, and other products to the value of \$219,940; for 1909, books and pamphlets to the value of \$58,748, job printing to the value of \$6,764, bookbinding and blank books to the value of \$37,219, and other products to the value of \$43,792.

⁴ Includes, for 1919, Arkansas, California, Indiana, Iowa, Louisiana, Maryland, Michigan, Missouri, Nebraska, Texas, and Virginia.

Comparative summary, newspapers and periodicals, by value of products.—Table 17 shows in detail the value of products of establishments engaged primarily in printing and publishing, or publishing only, of newspapers and periodicals for 1919, 1914, and 1909.

The great advance in values shown elsewhere as an aftermath of the World War is shown also in this table. The total increase for the five-year period 1914-1919 was \$428,246,930, or 86.4 per cent. During this five-year period the book and job part of the various establishments increased 55.4 per cent, and the "all other" 35.6 per cent. The newspapers and periodicals rose by 92.5 per cent, advertising showing the greatest gain. The decrease in ready prints and stereotyped plates is indicative of a greater activity in newspapers wholly set in offices where published.

Comparative summary, newspapers and periodicals, by character of publications.—Table 18 shows the number of newspapers and periodicals, by character, for states: 1919, 1914, and 1909.

In number of publications, for "news, politics, and family reading," Illinois was first in 1919 as in 1914, with New York second, and Texas third. New York led in periodicals classified as "general literature," Illinois following. "Labor" was another classification in which New York led, Ohio being second. Pennsylvania was first in "Religious" periodicals, Illinois ranking second. The far-away leader in "Society, art, music, and fashion" periodicals was New York, Illinois being a distant second. In "Trade journals," likewise, New York was first and Illinois second.

MANUFACTURES.

TABLE 17.—COMPARATIVE SUMMARY, NEWSPAPERS AND PERIODICALS, BY VALUE OF PRODUCTS: 1919, 1914, AND 1909.

KIND.	1919		1914	1909	PER CENT OF INCREASE. ¹		
	Value.	Per cent of total.	Value.	Value.	1909-1919	1914-1919	1909-1914
Total.....	\$921,152,878	100.0	\$495,005,948	\$406,090,122	127.6	86.4	22.1
Newspapers and periodicals.....	806,305,760	87.2	418,818,707	337,540,528	138.9	92.5	24.1
Advertising.....	528,209,378	57.2	255,421,144	202,527,025	160.8	106.8	26.1
Subscriptions and sales.....	278,000,382	30.1	163,427,563	135,021,603	105.9	70.1	21.0
Book and job printing.....	105,023,077	11.4	67,509,014	62,022,414	69.3	55.4	9.0
Books and pamphlets.....	37,069,164	4.0	20,357,413	19,516,591	89.0	82.1	4.3
Sheet music and books of music.....	1,115,880	0.1	638,393	903,089	23.4	74.8	-29.4
Engravings, lithographs, etc.....	811,597	0.1	301,118	374,230	116.9	109.5	-19.5
Ready prints.....	68,593	(²)	252,131	744,497	-90.8	-72.8	-66.1
Stereotyped plates.....	40,040	(²)	160,200	74,202	-45.2	-74.6	116.0
Job printing, not elsewhere included.....	65,920,197	7.1	45,889,699	40,408,005	63.1	43.6	13.6
All other products or work.....	12,824,011	1.4	9,458,227	6,518,180	96.7	35.6	46.1
Bookbinding.....	1,844,846	0.2	1,439,831	1,340,131	37.7	28.1	7.4
Blank books.....	323,035	(²)	380,599	442,073	-26.9	-15.0	-14.1
Electrotyping, engraving, etc.....	201,904	(²)	904,250	474,070	-43.8	-70.7	91.7
Machine composition.....	349,440	(²)	411,230	(³)	-15.0	-15.0	-
Miscellaneous.....	10,011,216	1.1	6,322,317	4,263,400	135.5	58.8	48.3

¹ A minus sign (-) denotes decrease.

² Less than one-tenth of 1 per cent.

³ Not reported separately.

TABLE 18.—COMPARATIVE SUMMARY, NEWSPAPERS AND PERIODICALS, BY LEADING STATES: 1919, 1914, AND 1909.

CHARACTER OF PUBLICATION, AND STATE.	NUMBER.			CHARACTER OF PUBLICATION, AND STATE.	NUMBER.			CHARACTER OF PUBLICATION, AND STATE.	NUMBER.						
	1919	1914	1909		1919	1914	1909		1919	1914	1909				
NEWS, POLITICS, AND FAMILY READING.				COMMERCE, FINANCE, INSURANCE, RAILROADS, ETC.				LABOR.				RELIGIOUS.			
United States.....	15,740	17,574	17,098	United States...	294	323	264	United States...	182	163	(²)	United States...	1,102	1,412	1,251
California.....	690	705	674	Illinois.....	25	35	23	California.....	10	13		Illinois.....	131	153	123
Illinois.....	990	1,094	1,109	Michigan.....	7	11	5	Illinois.....	17	13		Massachusetts.....	63	76	55
Indiana.....	550	655	718	New York.....	90	80	91	Massachusetts.....	2	8		New York.....	119	148	135
Iowa.....	731	838	891	Pennsylvania.....	20	27	24	Michigan.....	3	7		Ohio.....	116	140	142
Kansas.....	605	650	679	All other states.....	152	164	121	Missouri.....	10	12		Pennsylvania.....	173	276	252
Massachusetts.....	339	307	320					New York.....	23	12		Tennessee.....	85	75	53
Michigan.....	525	600	634	EDUCATION AND HISTORY.				Ohio.....	19	13		All other states.....	475	544	491
Minnesota.....	653	660	643	United States...	184	231	202	Pennsylvania.....	10	15		SCIENCE AND MECHANICS.			
Missouri.....	680	779	797	Illinois.....	20	27	33	United States...	50	65	50	United States...	246	135	139
Nebraska.....	541	577	558	Massachusetts.....	10	21	18	District of Columbia.....				Illinois.....	9	9	4
New York.....	996	1,075	1,080	New York.....	33	51	37	Illinois.....	3	5	10	Illinois.....	24	21	26
Ohio.....	706	815	882	Pennsylvania.....	10	19	15	Massachusetts.....	1	2	3	New York.....	104	46	52
Oklahoma.....	454	562	573	All other states.....	105	113	99	Michigan.....	5	4	4	Pennsylvania.....	19	12	20
Pennsylvania.....	781	937	1,013	FRATERNAL.				Missouri.....	6	3	4	All other states.....	90	47	37
South Dakota.....	343	369	384	United States...	314	312	440	New York.....	12	8	8	SOCIETY, ART, MUSIC, AND FASHION.			
Texas.....	797	898	857	Illinois.....	36	32	40	All other states.....	32	43	27	United States...	227	212	164
Washington.....	297	350	322	Indiana.....	11	10	17	Illinois.....	20	17	20	Illinois.....	25	14	10
Wisconsin.....	501	558	590	Massachusetts.....	11	13	22	Massachusetts.....	6	7	11	Massachusetts.....	14	7	9
All other states.....	4,501	5,073	4,902	Nebraska.....	11	6	10	New York.....	14	13	10	New York.....	114	95	75
AGRICULTURE, HORTICULTURE, DAIRYING, STOCK RAISING, ETC.				New York.....	25	30	37	Pennsylvania.....	42	42	42	Pennsylvania.....	9	16	12
United States...	334	346	310	Ohio.....	23	15	30	All other states.....	6	3	4	All other states.....	65	80	58
Illinois.....	39	35	36	All other states.....	185	201	244	MEDICINE AND SURGERY.				TRADE JOURNALS.			
Iowa.....	21	12	21	GENERAL LITERATURE.				Illinois.....	20	17	20	United States...	767	873	685
New York.....	32	34	28	United States...	220	284	340	Michigan.....	6	7	11	Illinois.....	127	134	102
Ohio.....	9	10	7	Illinois.....	24	28	36	Massachusetts.....	6	13		Massachusetts.....	29	46	25
Pennsylvania.....	14	13	12	Iowa.....	7	2	6	Michigan.....	13	18	15	New York.....	13	18	37
All other states.....	210	242	212	Kansas.....	1	4	5	Missouri.....	32	36	37	Missouri.....	231	285	191
COLLEGE AND SCHOOL PERIODICALS.				Maine.....	2	0	10	New York.....	51	46	42	Ohio.....	51	46	42
United States...	415	303	271	Massachusetts.....	9	15	18	Pennsylvania.....	57	69	62	Pennsylvania.....	57	69	62
Illinois.....	21	14	28	Missouri.....	10	7	14	All other states.....	227	239	211	MISCELLANEOUS.			
Massachusetts.....	35	24	17	New York.....	88	116	112	United States...	69	164	139	United States...	69	164	139
New York.....	37	34	26	Ohio.....	8	17	14	Illinois.....				Illinois.....	3	22	17
Pennsylvania.....	28	35	20	Pennsylvania.....	8	10	17	Massachusetts.....				Massachusetts.....	4	6	9
Texas.....	10	10	13	All other states.....	68	79	108	New York.....				New York.....	19	22	39
All other states.....	284	180	158					All other states.....	31	49		All other states.....	43	114	74

¹ Includes a number of labor publications.

² Included in "Fraternal."

³ Included in other classifications, principally "Religious," "Medicine and surgery," "Law," "Education and history," and "Miscellaneous."

Newspapers and periodicals, number and circulation per issue.—Table 19 shows the number and aggregate circulation per issue of the daily and Sunday newspapers, and of the weekly, monthly, and other publications, 1919, 1914, and 1909.

Number and character of periodicals, by states.—Table 20 gives the number of periodicals, by character of the publication, by states, for 1919.

TABLE 19.—NEWSPAPERS AND PERIODICALS, PRINCIPAL CLASSES, BY NUMBER AND CIRCULATION: 1919, 1914, AND 1909.

CLASS.	1919	1914	1909	PER CENT OF INCREASE. ¹			PER CENT DISTRIBUTION.		
				1909-1919	1914-1919	1909-1914	1919	1914	1909
All classes:									
Number.....	20,489	22,754	22,141	-7.5	-10.0	2.8	100.0	100.0	100.0
Aggregate circulation per issue.....	222,481,983	205,594,907	164,463,040	35.3	8.2	25.0	100.0	100.0	100.0
Daily:									
Number.....	2,441	2,580	2,600	-6.1	-5.4	-0.8	11.9	11.3	11.7
Aggregate circulation per issue.....	33,028,630	28,777,454	24,211,977	36.4	14.8	18.9	14.8	14.0	14.7
Sunday:									
Number.....	604	571	520	16.2	5.8	9.8	2.9	2.5	2.3
Aggregate circulation per issue.....	19,368,913	16,479,943	13,347,252	45.1	17.5	23.5	8.7	8.0	8.1
Triweekly:									
Number.....	93	84	73	27.4	10.7	15.1	0.5	0.4	0.3
Aggregate circulation per issue.....	492,286	549,495	335,359	46.8	-10.4	63.8	0.2	0.3	0.2
Semiweekly:									
Number.....	452	583	635	-23.8	-22.5	-8.2	2.2	2.6	2.9
Aggregate circulation per issue.....	2,020,165	2,483,629	2,312,919	-12.7	-18.7	7.4	0.9	1.2	1.4
Weekly:									
Number.....	13,375	15,172	15,097	-11.4	-11.8	0.5	65.3	66.7	68.2
Aggregate circulation per issue.....	51,002,121	50,336,963	40,822,965	27.1	3.1	23.3	23.3	24.5	24.8
Monthly:									
Number.....	2,647	2,822	2,491	6.3	-6.2	13.3	12.9	12.4	11.3
Aggregate circulation per issue.....	91,681,807	79,100,838	63,280,535	44.9	15.8	25.1	41.2	38.5	38.5
Quarterly:									
Number.....	489	500	361	35.5	-2.2	38.5	2.4	2.2	1.6
Aggregate circulation per issue.....	18,920,544	18,853,901	16,058,099	17.8	0.4	17.4	8.5	9.2	9.8
All other classes:									
Number.....	388	442	364	6.6	-12.2	21.4	1.9	1.9	1.6
Aggregate circulation per issue.....	5,067,517	8,922,684	4,093,874	23.8	-43.2	118.0	2.3	4.3	2.5

¹ A minus sign (-) denotes decrease.

TABLE 20.—PERIODICALS, BY CHARACTER OF PUBLICATION AND BY LEADING STATES: 1919.

CHARACTER OF PUBLICATION, AND STATE.	Number.	CHARACTER OF PUBLICATION, AND STATE.	Number.	CHARACTER OF PUBLICATION, AND STATE.	Number.	CHARACTER OF PUBLICATION, AND STATE.	Number.
AERONAUTICS.		ARCHITECTURE AND BUILDING.		BUSINESS THEORY AND OFFICE ECONOMY.		COLLEGE AND SCHOOL PERIODICALS—continued.	
United States.....	4	United States.....	47	United States.....	16	Vermont.....	3
New York.....	4	California.....	3	Illinois.....	5	Virginia.....	9
AGRICULTURE, HORTICULTURE, STOCK AND POULTRY RAISING, ETC.		Georgia.....	3	New York.....	6	Washington.....	9
United States.....	334	Illinois.....	5	All other states.....	5	West Virginia.....	3
Alabama.....	3	New York.....	18			Wisconsin.....	14
Arizona.....	4	Ohio.....	4	COLLEGE AND SCHOOL PERIODICALS.		All other states.....	15
California.....	14	Pennsylvania.....	3	United States.....	415	COMMERCE, FINANCE, INSURANCE, ETC.	
Colorado.....	4	All other states.....	11	Alabama.....	3	United States.....	178
District of Columbia.....	4	ART, MUSIC, AND DRAMA.		Arkansas.....	5	California.....	10
Florida.....	3	United States.....	63	California.....	12	Colorado.....	4
Georgia.....	4	Illinois.....	7	Connecticut.....	13	Connecticut.....	3
Illinois.....	39	Massachusetts.....	9	Colorado.....	4	Georgia.....	3
Indiana.....	14	New York.....	22	District of Columbia.....	5	Illinois.....	14
Iowa.....	21	Ohio.....	6	Georgia.....	3	Indiana.....	4
Kansas.....	9	All other states.....	19	Illinois.....	21	Iowa.....	8
Kentucky.....	5	AUTOMOBILES, MOTOR BOATS, GAS ENGINES, ETC.		Indiana.....	7	Massachusetts.....	14
Louisiana.....	3	United States.....	57	Iowa.....	11	Michigan.....	3
Maine.....	3	California.....	3	Kansas.....	16	Missouri.....	5
Mar. land.....	5	New York.....	20	Kentucky.....	8	Nebraska.....	4
Massachusetts.....	10	Ohio.....	7	Louisiana.....	4	New Jersey.....	3
Michigan.....	13	Pennsylvania.....	6	Maryland.....	4	New York.....	57
Minnesota.....	15	Rhode Island.....	4	Massachusetts.....	35	Oklahoma.....	4
Missouri.....	16	Wisconsin.....	5	Michigan.....	14	Ohio.....	5
Montana.....	8	All other states.....	12	Minnesota.....	11	Oregon.....	4
Nebraska.....	10	BLIND (IN RAISED TYPE).		Mississippi.....	3	Pennsylvania.....	14
New Hampshire.....	3	United States.....	5	Missouri.....	17	Texas.....	3
New Jersey.....	4	All states.....	5	Nebraska.....	15	All other states.....	16
New York.....	32	BOOK REVIEWS, LIBRARY ECONOMY, ETC.		New Hampshire.....	4	DOMESTIC ECONOMY, COOKERY, ETC.	
Oklahoma.....	3	United States.....	6	New Jersey.....	7	United States.....	13
Ohio.....	9	All states.....	6	New York.....	37	New York.....	4
Oregon.....	11	BOOK REVIEWS, LIBRARY ECONOMY, ETC.		North Carolina.....	5	All other states.....	9
Pennsylvania.....	14	United States.....	5	Ohio.....	22		
South Dakota.....	7	BOOK REVIEWS, LIBRARY ECONOMY, ETC.		Oregon.....	3		
Texas.....	13	United States.....	6	Pennsylvania.....	23		
Utah.....	7	All states.....	6	South Carolina.....	10		
Virginia.....	4			South Dakota.....	5		
Washington.....	3			Tennessee.....	11		
Wisconsin.....	4			Texas.....	10		
All other states.....	16			Utah.....	5		

TABLE 20.—PERIODICALS, BY CHARACTER OF PUBLICATION AND BY LEADING STATES: 1919—Continued.

CHARACTER OF PUBLICATION, AND STATE.	Num- ber.	CHARACTER OF PUBLICATION, AND STATE.	Num- ber.	CHARACTER OF PUBLICATION, AND STATE.	Num- ber.	CHARACTER OF PUBLICATION, AND STATE.	Num- ber.
EDUCATION, PHILOLOGY, AND LITERARY TECHNIQUE.		LABOR (BY LABOR ORGANIZATIONS).		RACE PAPERS, INDIAN, NEGRO, ETC.		SPORTS, GAMES, AND AMUSEMENTS.	
United States.....	119	United States.....	182	United States.....	32	United States.....	73
District of Columbia.....	4	California.....	10	New York.....	4	California.....	5
Illinois.....	18	District of Columbia.....	6	Ohio.....	3	Illinois.....	14
Iowa.....	3	Illinois.....	17	All other states.....	25	Massachusetts.....	3
Maryland.....	6	Indiana.....	19			Missouri.....	3
Massachusetts.....	12	Kansas.....	5			New York.....	3
Missouri.....	3	Kentucky.....	5			Ohio.....	30
New York.....	21	Maryland.....	3			Pennsylvania.....	6
Ohio.....	6	Michigan.....	3			All other states.....	9
Pennsylvania.....	5	Minnesota.....	3	RELIGION.			
Tennessee.....	3	Missouri.....	10	United States.....	1,162		
Wisconsin.....	8	Nebraska.....	3	Alabama.....	4	TRADE JOURNALS, NOT ELSEWHERE SPECIFIED.	
All other states.....	30	New Jersey.....	5	Arkansas.....	9	United States.....	767
		New York.....	23	California.....	36		
ENGINEERING.		North Carolina.....	3	Colorado.....	6		
United States.....	62	Oklahoma.....	3	Connecticut.....	8	California.....	51
Illinois.....	8	Ohio.....	19	District of Columbia.....	13	Colorado.....	10
New York.....	40	Oregon.....	3	Florida.....	5	Connecticut.....	4
All other states.....	14	Pennsylvania.....	10	Georgia.....	14	District of Columbia.....	9
		Tennessee.....	4	Illinois.....	131	Florida.....	3
FICTION (WHOLLY).		Texas.....	6	Indiana.....	34	Georgia.....	20
United States.....	46	Washington.....	3	Iowa.....	35	Illinois.....	127
California.....	3	All other states.....	19	Kansas.....	10	Indiana.....	8
Illinois.....	4			Kentucky.....	11	Iowa.....	4
New York.....	34	LAW.		Louisiana.....	4	Kansas.....	4
All other states.....	5	United States.....	50	Maryland.....	12	Louisiana.....	11
		Illinois.....	3	Massachusetts.....	63	Maryland.....	4
FRATERNAL ORDERS, CLUBS, AND SOCIETIES.		Michigan.....	6	Michigan.....	20	Massachusetts.....	29
United States.....	314	Missouri.....	6	Minnesota.....	29	Michigan.....	13
Arkansas.....	4	New York.....	12	Mississippi.....	4	Minnesota.....	17
California.....	20	Ohio.....	16	Missouri.....	65	Missouri.....	32
Colorado.....	4	Pennsylvania.....	16	Nebraska.....	11	Nebraska.....	7
Connecticut.....	4	All other states.....	12	New Jersey.....	10	New York.....	231
District of Columbia.....	5			New York.....	119	North Carolina.....	3
Illinois.....	36	MEDICINE, SURGERY, AND DENTISTRY.		North Carolina.....	22	Oklahoma.....	4
Indiana.....	11	United States.....	150	Oklahoma.....	5	Ohio.....	51
Iowa.....	12	California.....	5	Ohio.....	110	Oregon.....	12
Kansas.....	5	Illinois.....	24	Oregon.....	10	Pennsylvania.....	57
Kentucky.....	3	Kentucky.....	4	Pennsylvania.....	173	Rhode Island.....	3
Louisiana.....	4	Louisiana.....	3	South Carolina.....	18	Texas.....	13
Massachusetts.....	11	Maryland.....	4	South Dakota.....	3	Washington.....	14
Michigan.....	11	Massachusetts.....	3	Tennessee.....	85	Wisconsin.....	12
Minnesota.....	14	Michigan.....	3	Texas.....	12	All other states.....	15
Missouri.....	11	Missouri.....	14	Utah.....	10		
Nebraska.....	11	Nebraska.....	3	Virginia.....	18	TRANSPORTATION, RAILROADS, WATERWAYS, ETC.	
New Jersey.....	7	New Jersey.....	3	Washington.....	7	United States.....	70
New York.....	25	New York.....	29	Wisconsin.....	19	Illinois.....	5
Ohio.....	23	Ohio.....	6	All other states.....	11	Massachusetts.....	3
Oregon.....	4	Pennsylvania.....	16			Michigan.....	4
Pennsylvania.....	30	Tennessee.....	9	SCIENCE AND PHILOSOPHY.		Missouri.....	8
Texas.....	12	All other states.....	24	United States.....	73	New York.....	20
Virginia.....	4			California.....	5	Ohio.....	4
Washington.....	6	MILITARY AND NAVAL AFFAIRS.		District of Columbia.....	4	Pennsylvania.....	3
West Virginia.....	4	United States.....	20	Illinois.....	6	Washington.....	5
Wisconsin.....	13	District of Columbia.....	6	Maryland.....	12	All other states.....	18
All other states.....	20	New York.....	6	Massachusetts.....	3		
HEALTH, HYGIENE, AND NURSING.		Virginia.....	4	Minnesota.....	3	TECHNOLOGY.	
United States.....	35	All other states.....	7	New Jersey.....	2	United States.....	3
District of Columbia.....	4	MOTION PICTURES.		New York.....	21	All states.....	3
Massachusetts.....	5	United States.....	20	Pennsylvania.....	8		
Michigan.....	3	New York.....	9	All other states.....	6	TRAVEL, DESCRIPTION, OUT-OF-DOORS, ETC.	
New York.....	13	Pennsylvania.....	3	SOCIETY, FASHION, BEAUTY CULTURE, ETC.		United States.....	30
Pennsylvania.....	3	All other states.....	8	United States.....	71	California.....	6
All other states.....	7			New York.....	53	New York.....	7
HISTORY AND GENEALOGY.		NEWS SUMMARIES, GENERAL LITERATURE, AND FAMILY READING.		All other states.....	18	Pennsylvania.....	3
United States.....	27	United States.....	154			All other states.....	14
Massachusetts.....	3	California.....	11	SOCIOLOGY, ECONOMICS, AND POLITICAL THEORY.		MISCELLANEOUS.	
New York.....	3	Illinois.....	19	United States.....	85	United States.....	69
Pennsylvania.....	4	Iowa.....	3	California.....	9	California.....	5
All other states.....	15	Massachusetts.....	8	Illinois.....	6	Illinois.....	3
JUVENILE, BOY SCOUTS, ETC.		Missouri.....	6	Massachusetts.....	6	Indiana.....	4
United States.....	35	Minnesota.....	6	Missouri.....	3	Massachusetts.....	1
Indiana.....	4	Missouri.....	6	New Jersey.....	3	Minnesota.....	3
Iowa.....	4	New York.....	55	New York.....	19	Missouri.....	5
Missouri.....	4	Ohio.....	5	North Carolina.....	4	Nebraska.....	3
Nebraska.....	4	Pennsylvania.....	4	Ohio.....	5	New York.....	19
New York.....	7	Texas.....	9	Pennsylvania.....	6	Ohio.....	7
Pennsylvania.....	3	All other states.....	29	Wisconsin.....	4	Pennsylvania.....	4
All other states.....	0			All other states.....	20	All other states.....	12

Daily newspapers, number of morning and evening.— Table 21 shows separately the number of the morning and evening papers, by geographic divisions and by states: 1919, 1914, and 1909. The Middle Atlantic division had the largest number of morning issues in

1919, and the East North Central the largest number of evening editions. New York led among the states in morning editions, while Pennsylvania was first in evening. Pennsylvania and California tied for second place in morning editions and New York and Ohio in evening.

TABLE 21.—DAILY NEWSPAPERS, MORNING AND EVENING, BY GEOGRAPHIC DIVISIONS AND STATES: 1919, 1914, AND 1909.

DIVISION AND STATE.	TOTAL.			MORNING.			EVENING.			DIVISION AND STATE.	TOTAL.			MORNING.			EVENING.		
	1919	1914	1909	1919	1914	1909	1919	1914	1909		1919	1914	1909	1919	1914	1909	1919	1914	1909
UNITED STATES.....	2,441	2,580	2,000	720	704	760	1,721	1,786	1,840	SOUTH ATLANTIC—Con.									
New England.....	160	179	172	41	41	45	128	138	127	West Virginia.....	31	33	34	10	11	11	21	22	23
Maine.....	12	15	14	5	7	7	7	8	7	North Carolina.....	33	29	31	9	12	9	24	17	22
Massachusetts.....	84	93	86	18	18	15	66	75	71	South Carolina.....	17	16	13	7	8	5	10	8	8
Rhode Island.....	12	12	12	3	2	4	9	10	8	Florida.....	30	29	27	10	12	14	20	17	13
Connecticut.....	36	36	38	8	9	11	23	27	27	Georgia.....	35	26	19	11	11	7	24	15	12
New Hampshire and Vermont.....	25	23	22	7	5	8	18	18	14	Delaware and District of Columbia.....	9	14	12	5	8	7	4	6	5
Middle Atlantic.....	455	504	508	155	105	166	300	339	342	EAST SOUTH CENTRAL.....	88	91	95	26	34	39	62	57	56
New York.....	214	234	231	80	83	84	128	146	147	Kentucky.....	32	33	35	12	16	16	20	17	19
New Jersey.....	40	46	54	11	13	19	29	33	35	Tennessee.....	15	17	18	6	8	7	12	9	9
Pennsylvania.....	201	224	223	58	64	63	143	160	160	Alabama.....	24	24	26	5	5	5	11	19	15
East North Central.....	601	671	702	144	160	156	457	511	546	Mississippi.....	14	17	18	3	5	5	11	12	13
Ohio.....	165	181	181	37	44	37	123	137	147	WEST SOUTH CENTRAL.....	226	218	218	65	60	53	161	158	165
Indiana.....	138	160	172	31	38	38	107	122	134	Arkansas.....	32	33	29	11	7	6	21	26	23
Illinois.....	168	184	194	50	47	51	118	137	143	Louisiana.....	17	19	23	5	7	6	12	12	17
Michigan.....	73	80	87	17	19	20	56	61	67	Oklahoma.....	62	59	67	11	11	15	51	48	52
Wisconsin.....	57	66	65	9	12	10	48	54	55	Texas.....	115	107	99	38	35	26	77	72	73
West North Central.....	322	339	344	88	102	77	234	237	267	MOUNTAIN.....	133	125	137	49	51	54	84	74	83
Minnesota.....	50	51	42	12	17	10	38	34	32	Montana.....	22	21	17	11	10	6	11	11	11
Iowa.....	58	68	68	13	18	15	45	50	53	Colorado.....	44	44	53	14	18	19	30	26	34
Missouri.....	81	89	91	21	30	20	60	59	71	Arizona.....	20	16	19	8	7	8	12	9	11
Nebraska.....	29	34	34	15	11	11	14	23	23	Nevada.....	7	11	15	4	3	7	3	8	8
Kansas.....	70	69	78	17	17	12	53	52	66	Idaho, Wyoming, New Mexico, and Utah.....	40	33	33	12	13	14	28	20	19
North Dakota and South Dakota.....	34	28	31	10	9	9	24	19	22	PACIFIC.....	243	255	238	80	97	95	163	158	143
South Atlantic.....	204	198	186	72	84	75	132	114	111	Washington.....	42	43	41	14	17	17	28	26	24
Maryland.....	18	19	18	7	9	9	11	10	9	Oregon.....	33	34	31	8	12	13	25	22	18
Virginia.....	31	32	32	13	13	13	18	18	19	California.....	168	178	166	58	68	65	110	110	101

Daily newspapers in leading cities.—Table 22 shows for 12 of the important cities in the United States the average circulation per issue of the morning and the evening papers, and per cent of increase from census to census, 1919, 1914, and 1909. The 12 leading cities combined, which are arranged in the order of their population, reported 54.4 per cent of the morning circulation in the United States in 1919, and 37.6 per cent

of the evening. Their evening circulation in that year formed 52.9 per cent of the total daily circulation of the 12 cities, and represented an increase of 9.8 per cent for the period 1914–1919, as compared with 8.2 per cent for the morning circulation. New York City was first, with 32 per cent of the total evening circulation in the 12 cities, and 34.4 per cent of the morning, Chicago being second.

TABLE 22.—MORNING AND EVENING NEWSPAPERS IN CITIES OF 500,000 INHABITANTS IN 1920—CIRCULATION: 1919, 1914, AND 1909.

CITY. ¹	AVERAGE CIRCULATION PER ISSUE.										PER CENT OF TOTAL.							
	Morning.					Evening.					Morning.			Evening.				
	1919	1914	1909	Per cent of increase. ²			1919	1914	1909	Per cent of increase. ²			1919	1914	1909	1919	1914	1909
				1909-1919	1914-1919	1909-1914				1909-1919	1914-1919	1909-1914						
United States.....	12,582,841	11,092,368	9,605,604	31.0	7.6	21.7	20,445,789	17,085,080	14,606,283	40.0	19.7	17.0	38.1	40.6	39.7	61.9	59.4	60.3
Total for 12 cities.....	6,844,050	6,327,481	5,217,877	31.2	8.2	21.3	7,678,600	6,990,762	6,561,118	17.0	9.8	6.5	47.1	47.5	44.3	52.9	52.5	55.7
New York, N. Y.....	2,352,044	2,393,991	1,800,820	30.2	-1.7	32.5	2,453,547	2,121,609	2,284,102	7.4	15.6	-7.1	49.0	53.0	44.2	51.0	47.0	55.8
Chicago, Ill.....	1,319,038	313,628	755,683	74.5	62.1	7.7	1,238,839	1,234,474	1,053,642	17.6	0.4	17.2	51.6	39.7	41.8	48.4	60.3	58.2
Philadelphia, Pa.....	626,908	797,813	753,309	-16.8	-21.4	5.9	744,994	545,003	780,288	-4.5	36.7	-30.2	45.7	59.4	49.1	54.3	40.6	50.9
Detroit, Mich.....	191,349	124,801	70,595	171.1	53.3	76.8	354,574	295,049	213,485	66.1	20.2	38.2	35.1	29.7	24.9	64.9	70.3	75.1
Cleveland, Ohio.....	190,312	222,137	158,920	25.4	-10.3	39.8	492,838	355,147	244,231	101.8	38.8	45.4	28.8	33.5	39.4	71.2	61.5	60.6
St. Louis, Mo.....	368,354	287,548	284,816	25.8	24.6	1.0	351,071	328,790	341,419	2.8	7.4	-4.3	50.5	46.8	45.5	49.5	53.2	54.5
Boston, Mass.....	791,519	799,878	560,063	30.5	3.0	26.6	717,241	828,051	789,406	-3.0	-13.4	12.0	60.5	46.2	43.1	49.5	53.8	56.9
Baltimore, Md.....	159,993	183,322	164,447	-2.7	-12.7	11.5	234,442	174,778	120,553	94.5	34.1	45.0	40.6	51.2	57.7	59.4	48.5	42.3
Pittsburgh, Pa.....	224,627	220,391	211,131	6.4	1.9	4.4	380,024	345,219	328,802	16.3	10.1	5.6	37.1	39.0	39.2	62.9	61.0	60.8
Los Angeles, Calif.....	205,558	190,538	81,900	151.0	7.9	182.6	225,905	205,154	81,070	178.7	10.1	153.1	47.6	48.2	50.3	52.4	51.7	49.7
Buffalo, N. Y.....	130,012	108,922	89,239	52.4	24.9	22.1	240,496	273,534	221,892	8.4	-12.1	23.3	36.1	28.5	28.7	63.9	71.1	71.3
San Francisco, Calif.....	338,384	274,647	280,354	20.7	23.2	-2.0	244,689	285,951	154,228	58.7	-14.4	85.4	58.0	49.0	64.5	42.0	51.0	35.5

¹ Cities listed according to their rank in population.

² A minus sign (-) denotes decrease.

MANUFACTURES.

Daily newspapers, by geographic divisions and states.—Table 23 shows the average circulation of daily newspapers, morning and evening, exclusive of Sundays, by geographic divisions and by states, with per cent that the morning and the evening circulation was of the total, 1919 and 1914.

The evening issues maintained their supremacy in circulation in 1919, as in 1914, and their per-

centage of the total circulation increased from 59.4 in 1914 to 61.9 in 1919. The Middle Atlantic division was first in both morning and evening circulation, and the East North Central was second. New York led the states, with about one-fourth of the total for the morning, and nearly one-fifth for the evening circulation. Pennsylvania was second in morning and Illinois in evening circulation.

TABLE 23.—MORNING AND EVENING DAILIES, EXCEPT SUNDAYS: 1919 AND 1914.

DIVISION AND STATE.	AVERAGE CIRCULATION PER ISSUE, EXCLUSIVE OF SUNDAY EDITIONS.											
	Total.				Morning.		Evening.		Per cent which circulation of morning and evening editions represents of total.			
	1919	Per cent of total, 1919.	1914	Per cent of increase, 1914-1919.	1919	1914	1919	1914	1919		1914	
									Morn- ing.	Even- ing.	Morn- ing.	Even- ing.
UNITED STATES.....	33,028,630	100.0	28,777,454	14.8	12,682,841	11,602,368	20,445,789	17,085,086	38.1	61.9	40.6	58.4
NEW ENGLAND.....	2,877,433	8.7	2,711,635	6.1	1,078,244	990,774	1,799,189	1,720,861	37.5	62.5	36.5	63.5
Maine.....	122,076	0.4	117,842	3.6	52,652	64,094	69,424	53,748	43.1	56.9	54.4	45.6
Massachusetts.....	2,085,287	6.3	2,060,313	1.2	854,217	733,403	1,231,070	1,266,940	41.0	59.0	38.5	61.5
Rhode Island.....	191,762	0.6	148,895	28.8	37,967	23,429	153,795	125,466	19.8	80.2	15.7	84.3
Connecticut.....	351,200	1.1	275,773	27.4	94,403	73,612	250,797	202,161	26.9	73.1	26.7	73.3
New Hampshire and Vermont.....	127,108	0.4	108,782	16.8	39,005	36,236	88,103	72,546	30.7	69.3	33.3	66.7
MIDDLE ATLANTIC.....	10,548,423	31.9	9,278,023	13.7	4,361,566	4,198,602	6,180,857	5,079,361	41.3	58.7	45.3	54.7
New York.....	6,919,325	20.9	5,874,207	17.8	3,111,151	2,756,251	3,808,174	3,117,956	45.0	55.0	46.9	53.1
New Jersey.....	581,851	1.8	451,681	28.8	96,000	88,469	485,851	363,212	16.5	83.5	19.6	80.4
Pennsylvania.....	3,047,247	9.2	2,952,135	3.2	1,154,415	1,353,942	1,802,832	1,598,193	37.9	62.1	45.9	54.1
EAST NORTH CENTRAL.....	8,275,024	25.1	7,286,844	13.6	2,711,833	2,587,532	5,563,191	4,699,312	32.8	67.2	35.5	64.5
Ohio.....	2,497,955	7.6	2,484,548	0.5	604,883	995,999	1,933,072	1,488,549	22.6	77.4	40.1	59.9
Indiana.....	909,963	2.8	777,435	17.0	312,339	259,870	597,614	517,565	34.3	65.7	33.4	66.6
Illinois.....	3,241,254	9.8	2,620,661	23.7	1,481,980	981,351	1,759,274	1,630,314	45.7	54.3	37.4	62.6
Michigan.....	1,020,649	3.1	888,981	14.8	274,011	244,702	745,738	641,219	26.9	73.1	27.5	72.5
Wisconsin.....	605,213	1.8	515,219	17.5	77,720	105,560	527,493	409,669	12.8	87.2	20.5	79.5
WEST NORTH CENTRAL.....	3,800,214	11.8	3,373,427	15.3	1,393,610	1,275,700	2,496,004	2,097,607	35.8	64.2	37.8	62.2
Minnesota.....	692,276	2.1	655,070	5.7	183,010	213,443	509,257	421,627	26.4	73.6	35.6	64.4
Iowa.....	717,607	2.2	487,248	22.2	185,352	153,185	532,255	454,083	25.8	74.2	26.1	73.9
Missouri.....	1,608,666	4.9	1,432,210	12.3	672,797	622,759	935,809	809,400	41.8	58.2	43.5	56.5
Nebraska.....	371,300	1.1	321,840	12.6	146,361	109,658	224,948	220,182	39.4	60.6	33.2	66.8
Kansas.....	333,573	1.0	267,403	24.7	140,284	104,438	193,289	158,025	42.1	57.9	40.9	59.1
North and South Dakota.....	166,843	0.5	101,567	64.3	66,707	47,277	101,040	54,200	39.4	60.6	46.5	53.5
SOUTH ATLANTIC.....	1,894,105	5.7	1,565,078	21.0	815,300	737,092	1,078,805	827,986	43.0	57.0	47.1	52.9
Maryland.....	438,635	1.3	400,680	9.5	173,908	198,020	264,727	202,060	39.6	60.4	49.6	50.4
Virginia.....	257,207	0.8	233,075	9.9	97,477	105,354	159,730	128,621	37.9	62.1	45.0	55.0
West Virginia.....	156,050	0.5	129,722	26.1	77,110	60,948	78,940	62,774	49.4	50.6	49.3	50.7
North Carolina.....	179,406	0.5	120,823	48.5	95,217	73,802	81,189	47,021	53.1	46.9	61.1	38.9
South Carolina.....	116,722	0.4	83,885	39.1	65,170	52,570	51,540	31,315	55.8	44.2	62.7	37.3
Georgia.....	298,728	0.9	265,416	12.0	121,177	104,581	177,651	160,835	40.0	60.0	59.4	40.6
Florida.....	165,821	0.5	119,102	39.2	84,280	63,610	81,544	55,480	50.8	49.2	53.4	46.6
Delaware and District of Columbia.....	281,533	0.9	217,475	29.5	100,955	77,601	180,578	139,874	35.9	64.1	35.7	64.3
EAST SOUTH CENTRAL.....	990,290	3.0	845,080	17.2	417,524	347,634	572,766	497,446	42.2	57.8	41.1	58.9
Kentucky.....	315,851	1.0	311,019	1.6	145,660	128,851	170,191	182,168	46.1	53.9	41.4	58.6
Tennessee.....	387,329	1.2	301,533	28.4	166,040	146,818	220,389	154,765	43.1	56.9	48.7	51.3
Alabama.....	230,030	0.7	180,086	23.5	78,552	60,111	152,078	130,575	34.1	65.9	30.1	69.9
Mississippi.....	56,480	0.2	45,792	23.3	26,372	15,854	30,108	20,938	46.7	53.3	34.6	65.4
WEST SOUTH CENTRAL.....	1,447,230	4.4	1,080,050	34.0	594,117	458,838	853,113	621,212	41.1	58.9	42.5	57.5
Arkansas.....	127,985	0.4	87,614	40.1	71,015	43,699	56,970	43,915	55.5	44.5	49.9	50.1
Louisiana.....	233,160	0.7	130,680	66.9	91,728	70,287	141,432	99,399	39.3	60.7	50.3	49.7
Oklahoma.....	347,673	1.1	212,305	43.5	130,409	78,553	217,264	163,752	37.5	62.5	32.4	67.6
Texas.....	738,412	2.2	610,445	21.0	300,965	266,299	437,447	344,146	40.8	59.2	43.0	56.4
MOUNTAIN.....	747,166	2.3	530,017	38.4	285,292	238,223	461,874	301,694	38.2	61.8	44.1	55.9
Montana.....	111,518	0.3	87,113	28.0	67,121	50,774	44,397	36,399	60.2	39.8	58.3	41.7
Colorado.....	237,982	0.9	249,465	15.4	66,187	83,012	221,795	166,453	23.0	77.0	33.3	66.7
Arizona.....	50,965	0.2	32,875	73.4	28,237	16,852	28,758	16,023	49.5	50.5	51.3	48.7
Nevada.....	14,810	0.1	15,179	-2.4	7,448	6,476	7,862	8,763	50.3	49.7	42.7	57.3
Idaho, Wyoming, New Mexico, and Utah.....	275,801	0.8	155,285	77.0	116,290	81,100	159,562	74,170	42.2	57.8	52.2	47.8
PACIFIC.....	2,358,745	7.1	2,097,400	12.5	925,355	867,853	1,433,390	1,239,547	39.2	60.8	40.9	59.1
Washington.....	518,625	1.6	456,489	13.6	141,032	146,251	376,696	310,238	27.4	72.6	32.0	68.0
Oregon.....	293,204	0.9	218,449	34.2	90,870	77,620	202,334	140,823	31.0	69.0	35.5	64.5
California.....	1,546,913	4.7	1,422,462	8.7	692,553	633,976	854,360	788,486	44.8	55.2	44.6	55.4

¹ A minus sign (-) denotes decrease.

Dailies in foreign languages, by states.—Table 24 shows the number and combined circulation of foreign daily newspapers, by leading states, with per cent of increase, 1919, 1914, and 1909. New York had the largest number and circulation of foreign-language

dailies in 1919, as at previous censuses, Illinois ranking second and California third in number; but Ohio was third in circulation in 1919. From 1914 to 1919 there was a decrease in the number of foreign-language dailies and a slight increase in their circulation.

TABLE 24.—DAILY NEWSPAPERS IN FOREIGN LANGUAGES, BY LEADING STATES: 1919, 1914, AND 1909.

STATE.	NUMBER.			AVERAGE COMBINED CIRCULATION.					
	1919	1914	1909	1919	1914	1909	Per cent of increase. ¹		
							1909-1919	1914-1919	1909-1914
United States.....	151	160	137	2,710,265	2,598,827	1,786,281	51.7	4.3	45.5
California.....	16	16	13	150,986	81,655	48,633	210.5	84.9	67.9
Illinois.....	27	25	21	617,250	343,083	271,500	127.4	79.6	26.6
Indiana.....	1	3	5	3,128	19,687	17,766	-82.4	-84.1	10.8
Massachusetts.....	5	6	5	78,386	26,547	16,200	383.9	195.3	63.9
Michigan.....	5	5	5	66,000	39,247	18,975	247.8	68.2	106.8
Missouri.....	2	3	0	46,269	41,512	141,151	-67.2	11.5	-70.6
New York.....	41	40	35	1,258,704	1,509,093	968,340	30.0	-16.6	55.8
Ohio.....	12	12	11	189,728	139,965	89,665	111.6	44.9	46.1
Pennsylvania.....	7	11	8	75,997	161,745	75,619	0.5	-49.9	100.6
Wisconsin.....	6	6	6	89,650	100,801	58,433	53.4	-16.1	82.8
All other states.....	25	33	22	134,161	147,837	79,969	67.8	-9.3	84.9

¹ A minus sign (-) denotes decrease.

Dailies in foreign languages, by circulation.—Table 25 shows the circulation of each of the leading foreign-language dailies, by language in which published, with per cent of increase, 1919, 1914, and 1909. About one-fourth of the total daily circulation in 1919 was

Yiddish. In 1914 German occupied first place. Polish shows the greatest absolute gain in circulation during the five years 1914-1919, and Chinese the greatest percentage of gain.

TABLE 25.—FOREIGN-LANGUAGE DAILIES—AVERAGE CIRCULATION PER ISSUE: 1919, 1914, AND 1909.

LANGUAGE.	AVERAGE COMBINED CIRCULATION PER ISSUE.						LANGUAGE.	AVERAGE COMBINED CIRCULATION PER ISSUE.					
	1919	1914	1909	Per cent of increase. ¹				1919	1914	1909	Per cent of increase. ¹		
				1909-1919	1914-1919	1909-1914					1909-1919	1914-1919	1909-1914
Total.....	2,710,265	2,598,827	1,786,281	51.7	4.3	45.5	Italian.....	270,445	269,674	160,300	68.7	0.3	68.2
Romanian.....	66,226	73,688	52,143	27.0	-10.1	41.3	Japanese.....	47,815	39,961	24,003	94.3	19.7	62.4
Chinese.....	76,950	16,500	9,500	710.0	364.4	74.4	Polish.....	360,161	207,380	88,937	305.0	73.7	133.2
French.....	73,494	52,060	49,230	82.7	36.6	30.9	Spanish.....	44,714	28,150	8,400	1,215.1	58.8	727.9
German.....	2,384,906	823,062	753,116	-48.9	-53.2	0.3	Yiddish.....	676,145	762,910	524,900	28.8	-11.4	45.3
Hungarian.....	80,800	103,245	51,300	59.9	-15.9	90.1	All other languages ²	622,510	221,528	74,852	731.7	181.0	198.0

¹ A minus sign (-) denotes decrease.

² Includes English-and-German.

³ Includes, for 1919, Albanian, Arabic, Armenian, Bulgarian, Croatian, Finnish, Greek, Lithuanian, Norwegian-and-Danish, Portuguese, Rumanian, Russian, Serbian, Slovak, Slovenian; for 1914, Arabic, Bulgarian, Croatian, Finnish, Greek, Lithuanian, Norwegian-and-Danish, Russian, Serbian, Slovak, and Slovenian or Slovenic; for 1909, Arabic, Croatian, Norwegian-and-Danish, Finnish, Greek, Japanese-and-English, Slovak, and Slovenian.

Sunday newspapers, by geographic divisions and states.—Table 26 shows the number and circulation of the Sunday newspapers, by geographic divisions and states, with per cent of increase, 1919, 1914, and 1909. From 1914 to 1919 the increase in number of Sunday newspapers was 5.8 per cent, compared with 9.8 per cent, 1909-1914. In circulation, 1914-1919, the increase was 17.5 per cent, compared with 23.5 per cent, 1909-1914.

Although not shown in this table, of the 604 Sunday papers published in 1919, 71 with an aggregate circulation of 1,530,819 were printed in languages other than English. Eighteen with a circulation of 297,231 were in German; 10 with a circulation of 600,469 in Yiddish; and 8 with a circulation of 236,085 in Italian.

MANUFACTURES.

TABLE 26.—SUNDAY NEWSPAPERS, NUMBER AND CIRCULATION: 1919, 1914, AND 1909.

DIVISION AND STATE.	NUMBER.			AVERAGE COMBINED CIRCULATION PER ISSUE.						
	1919	1914	1909	1919	Per cent of total, 1919.	1914	1909	Per cent of increase. ¹		
								1909-1919	1914-1919	1909-1914
UNITED STATES.....	604	571	520	19,368,013	100.0	16,479,943	13,347,282	45.1	17.5	23.5
NEW ENGLAND.....	30	34	29	1,653,607	8.5	1,439,928	1,267,440	30.5	14.8	13.6
Massachusetts.....	17	21	15	1,444,846	7.5	1,271,453	1,122,049	28.8	13.6	13.3
Connecticut.....	8	8	10	119,705	0.6	100,581	86,261	38.3	19.1	16.6
Maine and Rhode Island ²	5	5	4	88,995	0.5	67,894	59,130	50.5	31.1	14.8
MIDDLE ATLANTIC.....	92	101	81	6,227,902	32.2	5,761,587	4,509,679	38.1	8.1	27.8
New York.....	54	55	48	4,469,074	23.1	3,917,088	2,957,727	51.1	14.1	32.4
New Jersey.....	9	7	6	146,713	0.8	83,995	70,670	107.6	74.7	18.9
Pennsylvania.....	29	39	27	1,612,115	8.3	1,760,504	1,481,282	8.8	-8.4	18.0
EAST NORTH CENTRAL.....	109	116	106	4,001,786	20.7	3,269,351	2,855,912	40.1	22.4	14.5
Ohio.....	29	28	25	1,087,733	5.6	830,219	645,869	68.4	31.0	28.5
Indiana.....	18	18	20	276,880	1.4	254,126	206,176	34.3	9.0	23.3
Illinois.....	41	48	38	1,886,084	9.7	1,635,121	1,616,506	16.7	15.3	1.2
Michigan.....	14	14	15	507,916	2.6	342,163	256,583	98.0	48.4	33.4
Wisconsin.....	7	8	8	243,173	1.3	207,722	130,778	85.9	17.1	58.8
WEST NORTH CENTRAL.....	69	65	64	2,361,954	12.2	2,004,978	1,649,780	43.2	17.8	21.5
Minnesota.....	9	7	7	444,523	2.3	369,012	237,205	87.4	20.2	55.9
Iowa.....	14	14	14	266,152	1.4	200,666	160,678	56.9	32.6	18.3
Missouri.....	18	23	21	1,205,673	6.2	1,131,459	978,377	23.2	6.6	15.6
Nebraska.....	9	12	8	255,702	1.3	187,287	129,050	98.1	36.5	45.1
Kansas.....	11	5	6	128,997	0.7	86,727	88,044	46.6	48.7	-1.5
North Dakota and South Dakota ²	8	4	8	60,907	0.3	28,927	47,426	28.4	110.6	-39.0
SOUTH ATLANTIC.....	75	65	55	1,471,480	7.6	1,100,039	751,231	95.9	33.8	46.4
Maryland.....	3	4	5	330,196	1.8	265,817	182,582	85.8	27.6	45.6
Virginia.....	11	9	8	179,338	0.9	117,531	79,258	126.3	52.6	48.3
West Virginia.....	9	9	7	73,501	0.4	59,143	41,930	63.7	31.0	24.9
North Carolina.....	11	12	7	116,753	0.6	87,833	39,281	197.2	32.9	123.6
South Carolina.....	9	7	4	79,606	0.4	63,783	32,447	145.3	24.8	96.6
Georgia.....	14	10	13	335,912	1.7	259,168	172,039	95.3	26.6	50.6
Florida.....	13	9	6	80,177	0.5	83,171	48,539	83.7	7.2	71.3
Delaware and District of Columbia ²	5	5	5	257,937	1.3	166,653	152,146	60.5	64.8	9.5
EAST SOUTH CENTRAL.....	32	34	35	631,304	3.3	437,205	414,052	52.5	44.4	5.6
Kentucky.....	11	9	12	169,390	0.9	88,246	115,855	46.2	92.0	-23.8
Tennessee.....	6	6	7	241,792	1.2	171,558	183,190	32.0	40.9	-6.4
Alabama.....	10	12	9	182,701	0.9	144,830	78,079	132.3	26.2	84.1
Mississippi.....	5	7	7	37,355	0.2	32,571	36,322	2.8	14.7	-10.3
WEST SOUTH CENTRAL.....	70	56	56	1,079,974	5.6	821,241	583,028	85.2	31.5	40.9
Arkansas.....	7	5	7	83,685	0.4	63,907	50,593	65.4	30.8	26.4
Louisiana.....	6	7	8	247,559	1.3	178,108	152,020	61.9	33.9	16.5
Oklahoma.....	20	12	11	187,199	1.0	117,158	77,326	142.1	59.8	51.5
Texas.....	46	32	30	501,534	2.9	461,948	302,180	85.8	21.6	52.9
MOUNTAIN.....	48	44	39	551,094	2.8	445,670	362,430	52.3	23.9	23.0
Montana.....	10	7	7	88,093	0.5	60,321	48,088	83.2	46.0	25.4
Idaho.....	7	8	3	44,251	0.2	34,566	13,864	219.2	28.0	149.3
Colorado.....	11	11	13	252,981	1.3	214,016	223,008	13.4	17.7	-3.6
Arizona.....	9	8	9	32,126	0.2	18,244	17,400	84.6	76.1	4.9
Utah.....	3	3	3	108,076	0.5	92,580	45,428	133.5	14.6	103.8
Wyoming, New Mexico, and Nevada ²	8	7	4	28,467	0.1	25,043	14,651	94.3	13.7	70.9
PACIFIC.....	70	56	55	1,388,012	7.2	1,199,944	953,721	45.6	15.7	25.8
Washington.....	13	12	13	288,724	1.5	270,212	243,663	18.5	4.5	13.4
Oregon.....	11	7	6	191,330	1.0	146,975	93,142	105.4	30.2	57.8
California.....	46	37	36	908,858	4.7	776,757	616,916	47.3	17.0	25.9

¹ A minus sign (-) denotes decrease.² Can not be shown separately without disclosing the circulation of individual papers.

Sunday newspapers in 12 cities.—Table 27 shows the number and circulation of Sunday newspapers in 12 of the principal cities in the United States, with per cent of increase, 1919, 1914, and 1909. Nearly three-fifths of the total Sunday circulation of the United States was reported from these 12 cities in 1919.

New York city led with a little more than one-third of the total for the 12 cities; Chicago was second with about one-seventh; and Boston third with a little more than one-ninth. From 1914 to 1919 New York city showed the largest actual increase in circulation, 587,244, and Detroit showed the largest per cent of increase, 74.9 per cent.

TABLE 27.—SUNDAY NEWSPAPERS IN CITIES OF 500,000 INHABITANTS IN 1920—NUMBER AND CIRCULATION: 1919, 1914, AND 1909.

CITY. ¹	NUMBER.			AVERAGE CIRCULATION PER ISSUE.					
	1919	1914	1909	1919	1914	1909	Per cent of increase. ²		
							1909-1919	1914-1919	1909-1914
United States.....	604	571	520	19,368,913	16,479,943	13,347,282	45.1	17.5	23.5
Total for 12 cities.....	114	112	110	11,167,236	9,530,743	8,642,153	29.2	17.2	10.3
New York, N. Y.....	35	31	32	3,752,383	3,165,139	2,744,990	36.7	18.6	15.3
Chicago, Ill.....	20	20	15	1,665,740	1,451,637	1,473,597	13.0	14.5	-1.3
Philadelphia, Pa.....	13	18	13	1,035,307	1,015,984	1,052,052	-1.6	1.9	-3.4
Detroit, Mich.....	5	3	4	425,443	243,250	142,976	197.6	74.9	70.1
Cleveland, Ohio.....	3	4	5	448,544	280,195	186,340	140.7	60.1	50.4
St. Louis, Mo.....	6	6	7	695,156	677,320	670,101	3.9	2.8	1.1
Boston, Mass.....	6	4	4	1,275,814	1,095,956	992,332	28.6	16.4	10.4
Baltimore, Md.....	3	4	6	339,196	265,817	184,378	84.0	27.6	44.2
Pittsburgh, Pa.....	6	6	6	465,917	410,054	385,305	20.9	13.6	6.4
Los Angeles, Calif.....	5	4	4	296,358	298,755	208,500	42.1	-0.8	43.3
Buffalo, N. Y.....	5	5	7	349,068	253,678	241,876	44.3	37.6	4.9
San Francisco, Calif.....	7	7	7	417,310	369,949	359,735	16.0	12.8	2.8

¹ Cities listed according to their rank in population.

² A minus sign (-) denotes decrease.

Weekly newspapers and periodicals, number and circulation, by geographic divisions and states.—Table 28 gives, by geographic divisions and states, the

combined figures for number and circulation of weekly newspapers and periodicals, with per cent of increase, 1919, 1914, and 1909.

TABLE 28.—WEEKLY NEWSPAPERS AND PERIODICALS, NUMBER AND CIRCULATION, BY GEOGRAPHIC DIVISIONS AND STATES: 1919, 1914, AND 1909.

DIVISION AND STATE.	NUMBER.			AVERAGE COMBINED CIRCULATION PER ISSUE.					
	1919	1914	1909	1919	1914	1909	Per cent of increase. ¹		
							1909-1919	1914-1919	1909-1914
UNITED STATES.....	13,375	15,172	15,007	51,902,121	50,336,963	40,822,965	27.1	3.1	23.3
NEW ENGLAND.....	539	609	590	1,804,228	3,105,093	2,500,000	-24.2	-39.0	24.2
Maine.....	54	73	87	90,205	102,139	186,616	-48.4	-40.7	-13.1
New Hampshire.....	54	60	66	72,024	109,806	141,287	-49.0	-34.4	-22.3
Vermont.....	56	59	67	64,288	82,103	92,355	-30.4	-21.7	-11.1
Massachusetts.....	284	322	271	1,493,362	2,552,499	1,911,486	-21.9	-41.5	33.5
Rhode Island.....	16	22	21	25,450	48,028	34,013	-25.2	-48.0	43.9
Connecticut.....	75	73	78	142,899	149,618	134,849	6.0	-4.5	11.0
MIDDLE ATLANTIC.....	1,785	2,040	2,060	21,941,158	16,499,602	12,458,495	76.1	33.7	31.7
New York.....	902	1,006	975	15,433,740	9,872,226	6,756,243	128.4	56.3	46.1
New Jersey.....	230	246	247	353,006	391,044	383,231	-7.9	-3.7	2.0
Pennsylvania.....	653	788	847	6,154,412	6,146,332	5,319,021	15.7	6.1	15.6
EAST NORTH CENTRAL.....	2,609	3,006	3,272	12,536,262	12,386,409	10,466,980	19.8	1.2	18.3
Ohio.....	543	641	699	3,282,812	3,110,883	2,913,730	12.7	5.5	6.8
Indiana.....	407	485	617	1,495,270	1,291,735	1,291,735	91.2	15.8	65.2
Illinois.....	866	967	1,018	5,551,012	6,216,067	5,008,590	10.8	-10.7	24.1
Michigan.....	443	517	526	1,194,022	793,176	736,238	47.1	39.2	5.7
Wisconsin.....	440	480	512	1,103,137	973,048	1,012,562	9.0	13.3	-3.8
WEST NORTH CENTRAL.....	3,554	3,872	3,925	7,710,362	9,002,113	7,575,538	1.8	-22.1	30.7
Minnesota.....	616	620	614	1,685,983	1,790,818	1,269,856	32.8	-5.9	41.0
Iowa.....	657	738	784	1,199,932	1,459,840	1,419,709	-16.1	-18.4	2.8
Missouri.....	611	721	731	2,258,690	3,542,320	1,871,585	20.7	-30.2	88.3
North Dakota.....	295	315	310	305,704	265,981	259,075	17.7	14.9	2.4
South Dakota.....	320	347	360	209,289	208,243	277,127	-6.1	-3.0	-3.2
Nebraska.....	515	538	521	924,630	916,257	1,074,554	-14.0	0.9	-14.7
Kansas.....	540	593	605	1,084,134	1,658,630	1,403,032	-22.7	-34.6	18.2
SOUTH ATLANTIC.....	995	1,129	1,116	2,643,164	2,156,791	2,067,315	27.9	22.6	4.3
Delaware.....	26	24	23	38,932	29,632	25,950	50.0	31.4	14.2
Maryland.....	104	126	120	206,373	161,045	185,554	10.7	27.5	-13.2
District of Columbia.....	18	17	15	1,049,440	301,330	185,246	466.5	248.3	62.7
Virginia.....	151	165	161	356,735	429,016	392,106	-9.0	-16.8	9.4
West Virginia.....	136	153	156	175,592	187,822	222,504	-6.5	-21.1	18.5
North Carolina.....	147	172	178	240,158	320,922	395,682	-39.3	-27.2	-16.6
South Carolina.....	85	91	90	159,398	148,597	133,240	19.6	7.3	11.5
Georgia.....	201	241	246	262,075	363,121	423,807	-38.2	-27.8	-14.3
Florida.....	127	141	127	155,461	171,615	137,818	12.8	-9.4	24.5
EAST SOUTH CENTRAL.....	632	788	810	1,430,524	1,924,940	1,905,125	-24.9	-25.7	1.0
Kentucky.....	185	221	226	346,401	348,342	481,957	-28.1	-0.5	-27.7
Tennessee.....	182	224	223	580,548	923,117	923,431	-37.1	(*)	-26.9
Alabama.....	127	174	179	392,023	491,616	278,245	40.9	-20.3	76.7
Mississippi.....	138	160	182	111,462	161,865	221,492	-49.7	-31.1	-26.9
WEST SOUTH CENTRAL.....	1,346	1,650	1,602	1,606,124	2,047,776	1,894,350	-15.2	-21.6	8.1
Arkansas.....	217	243	234	249,723	273,078	241,413	1.0	-10.7	13.1
Louisiana.....	117	157	141	125,262	148,987	176,193	-28.9	-15.0	-15.4
Oklahoma.....	376	497	490	342,745	500,385	512,229	-33.1	-31.5	-2.3
Texas.....	636	762	728	804,394	1,125,376	964,524	-7.3	-20.5	16.7
MOUNTAIN.....	900	942	774	828,395	1,095,355	742,136	11.6	-24.4	47.6
Montana.....	201	303	101	186,262	292,746	92,027	102.3	-36.4	218.1
Idaho.....	124	134	108	99,832	102,236	91,134	0.5	-2.3	12.2
Wyoming.....	72	67	55	60,551	51,847	39,227	54.4	10.8	32.2
Colorado.....	283	293	278	279,544	430,727	338,092	-17.3	-35.1	27.4
New Mexico.....	81	90	86	69,273	69,892	62,826	10.3	-0.8	11.1
Arizona.....	47	46	41	35,257	41,420	21,675	42.0	-14.9	67.9
Utah.....	71	82	65	83,791	91,339	71,542	17.1	-8.3	27.7
Nevada.....	21	27	40	13,945	15,248	22,613	-38.3	-8.5	-32.6
PACIFIC.....	925	1,037	930	1,311,904	1,308,884	1,212,405	8.2	0.2	8.0
Washington.....	255	307	268	313,718	270,979	252,396	24.3	13.3	9.7
Oregon.....	174	201	170	281,324	349,363	229,585	22.5	-19.5	52.2
California.....	496	529	495	716,862	682,542	730,424	-1.9	5.0	-6.6

¹ A minus sign (-) denotes decrease.

² Decrease of less than one-tenth of 1 per cent.

Weekly newspapers and periodicals, number and circulation, by leading states.—Table 29 gives the total number and the circulation per issue of weekly periodicals

and of weekly newspapers for leading states, with per cent of increase, 1919, 1914, and 1909. During the five-year period 1914-1919, the circulation of periodicals

increased 9.4 per cent, while that of newspapers decreased 5.1 per cent. During the same five-year period, of the 19 states shown in the table, the circulation of periodicals decreased in 13, and the circulation of news-

papers in 10. In the circulation of periodicals, New York led, with an increase of 6,040,994, or 75.8 per cent; while in the circulation of newspapers, Illinois was first with an increase of 219,161, or 9.8 per cent.

TABLE 29.—WEEKLY PERIODICALS AND NEWSPAPERS—NUMBER AND CIRCULATION, BY LEADING STATES: 1919, 1914, AND 1909.

STATE.	NUMBER OF WEEKLY.—						AVERAGE COMBINED CIRCULATION PER ISSUE.											
	Periodicals.			Newspapers.			Periodicals.						Newspapers.					
	1919	1914	1909	1919	1914	1909	1919	1914	1909	Per cent of increase. ¹			1919	1914	1909	Per cent of increase. ¹		
										1909-1919	1914-1919	1909-1914				1909-1919	1914-1919	1909-1914
United States..	1,230	1,379	1,194	12,145	13,793	13,903	31,161,570	28,486,357	19,876,630	56.8	9.4	43.3	20,740,551	21,850,606	20,916,335	-1.0	-5.1	4.3
California.....	57	75	61	439	454	434	370,848	275,208	254,521	45.7	34.8	8.1	346,014	407,334	475,903	-27.3	-15.1	-14.4
Illinois.....	117	145	121	749	822	897	3,097,302	3,982,208	3,159,772	-2.0	-22.2	26.0	2,453,620	2,234,459	1,848,818	32.7	9.8	20.9
Indiana.....	81	34	19	376	451	498	797,820	714,990	206,060	287.2	11.6	247.0	697,459	576,745	575,806	21.1	20.9	0.2
Iowa.....	28	23	27	629	715	757	505,920	250,975	565,962	-10.6	101.6	-55.7	685,012	1,208,874	853,747	-19.8	-43.3	41.6
Kansas.....	24	19	21	516	574	584	286,145	191,772	212,705	34.5	49.2	-9.8	707,989	1,466,867	1,190,327	-33.0	-45.6	23.2
Kentucky.....	12	14	22	173	207	204	70,136	94,828	188,350	-62.8	-26.0	-49.7	276,355	253,514	293,607	-5.9	9.0	-13.7
Massachusetts.....	53	77	54	211	245	217	516,835	2,124,440	1,483,153	-65.2	-75.7	43.2	976,527	428,059	428,333	128.0	128.1	-0.1
Michigan.....	17	37	26	426	480	500	130,877	208,887	171,612	-23.7	-37.3	21.7	973,145	584,289	578,696	68.2	66.6	1.0
Minnesota.....	36	25	27	580	595	587	528,142	646,651	161,665	226.7	-18.3	300.0	1,157,841	1,144,167	1,108,191	4.5	1.2	3.2
Missouri.....	48	66	58	663	655	673	1,115,642	2,084,215	583,358	91.2	-46.5	257.3	1,143,048	1,458,111	1,288,227	-11.3	-21.6	13.2
Nebaska.....	26	25	21	480	513	500	183,019	306,331	164,950	11.0	-40.3	85.7	741,611	609,926	909,604	-18.5	21.6	-32.9
New York.....	249	207	223	653	730	752	14,015,656	7,074,662	5,000,589	175.3	75.8	56.7	1,418,084	1,897,564	1,665,654	-14.9	-25.3	13.9
North Carolina.....	18	16	19	129	156	159	77,048	83,300	165,406	-53.4	-7.5	-49.6	163,110	246,622	230,276	-29.2	-33.9	7.1
Ohio.....	81	81	86	462	557	613	2,208,252	1,856,280	1,687,358	30.9	19.0	10.0	1,074,560	1,254,603	1,226,372	-12.4	-14.4	2.3
Pennsylvania.....	127	157	132	526	631	715	4,738,720	5,032,402	3,920,143	20.9	-5.8	28.4	1,415,692	1,113,930	1,398,878	1.2	27.1	-20.4
Tennessee.....	26	31	25	156	193	198	329,180	611,246	486,896	-32.4	-46.1	25.5	251,368	311,871	436,535	-42.4	-19.4	-28.6
Texas.....	23	32	28	613	730	700	238,084	259,381	207,450	14.8	-8.2	25.0	686,310	865,995	757,074	-13.3	-24.2	14.4
Virginia.....	18	23	15	133	142	146	199,720	236,765	193,367	1.7	-16.9	22.4	160,015	192,251	198,739	-19.5	-16.8	-3.3
Wisconsin.....	11	21	12	429	465	500	226,240	369,749	167,036	35.4	-37.3	116.0	876,897	613,199	845,466	3.7	43.0	-27.5
All other states.....	228	208	197	3,873	4,469	4,263	1,528,894	1,191,067	806,287	89.6	28.4	47.7	4,475,894	4,982,226	4,636,082	-3.5	-10.2	7.5

¹ A minus sign (-) denotes decrease.

Weekly periodicals, number and circulation, by character of publication.—Table 30 shows the number and circulation per issue of weekly periodicals, by character of publication, with per cent each class is of the total, 1919, 1914, and 1909. The circulation of religious weeklies led in 1914, but "General literature"

took the lead in 1919. The decline in number of religious weeklies may be due to a change to less frequent issue—as quarterlies—and it is probable also that some religious publications classified as weeklies were included with books and pamphlets in 1919.

TABLE 30.—WEEKLY PERIODICALS—NUMBER AND CIRCULATION PER ISSUE, BY CHARACTER OF PUBLICATION: 1919, 1914, AND 1909.

CHARACTER.	NUMBER.			AVERAGE COMBINED CIRCULATION PER ISSUE.			PER CENT OF TOTAL.		
	1919	1914	1909	1919	1914	1909	1919	1914	1909
Total.....	1,230	1,379	1,194	31,161,570	28,486,357	19,876,630	100.0	100.0	100.0
Agriculture, horticulture, dairying, stock raising, etc.....	70	81	92	3,713,502	4,008,547	2,351,368	11.9	14.1	11.8
Colleges and school.....	131	88	65	157,888	94,249	72,460	0.5	0.3	0.4
Commerce, finance, insurance, railroads, etc.....	66	84	84	265,121	283,925	340,819	0.9	1.0	1.7
Education and history.....	24	18	14	1,112,240	1,043,466	397,062	3.6	3.7	2.0
Fraternal.....	33	31	69	549,667	275,100	454,930	1.8	1.0	2.3
General literature.....	77	56	52	12,853,816	7,701,592	5,799,136	41.2	27.0	29.2
Labor.....	87	84	(²)	557,901	355,990	(²)	1.8	1.2	(²)
Law.....	25	22	19	25,944	54,565	47,843	0.1	0.2	0.2
Medicine and surgery.....	13	8	7	381,921	119,487	105,811	1.2	0.4	0.5
Reform and social science.....	16	42	(³)	672,299	286,081	(³)	2.2	1.0	(³)
Religion.....	380	524	483	7,689,370	12,116,666	8,544,673	24.7	42.5	43.0
Science and mechanics.....	38	20	23	420,092	275,157	280,478	1.3	1.0	1.5
Society, art, music, fashion, etc.....	57	55	40	1,776,911	555,643	269,945	5.7	2.0	1.4
Trade.....	195	227	195	893,425	1,104,976	1,041,735	2.9	3.9	5.2
Miscellaneous.....	12	30	42	87,973	211,103	160,470	0.3	0.7	0.8

¹ Includes a number of publications devoted to news comments and literary review.
² Included in "Fraternal."

³ Included in other classifications, principally "General literature."

Weekly newspapers and periodicals in foreign languages.—Table 31 shows the combined circulation of weekly newspapers and periodicals, not including

Sunday publications, published in the principal foreign languages, with per cent of increase and per cent of total circulation: 1919, 1914, and 1909.

TABLE 31.—WEEKLY NEWSPAPERS AND PERIODICALS IN FOREIGN LANGUAGES—AVERAGE COMBINED CIRCULATION, BY PRINCIPAL LANGUAGES: 1919, 1914, AND 1909.

Table with columns for Language, 1919, 1914, 1909, and Percent of Increase (1909-1919, 1914-1919, 1909-1914) and Percent of Total (1919, 1914, 1909). Rows include United States, Bohemian, Croatian, Danish, Dutch, Finnish, French, German, Hungarian, Italian, Lithuanian, Norwegian, Polish, Portuguese, Slovenian, Spanish, Swedish, Yiddish, and All other states.

1 A minus sign (-) denotes decrease.

2 Includes in 1919, Albanian, Arabic, Armenian, Bulgarian, Chinese, Czechoslovak, Estonian, Finnish, Greek, Hebrew, Japanese, Lettish, Magyar, Russian, Rutenian, Scandinavian, Serbian, Slovak, Ukrainian, Welsh, Wendish, Norwegian-and-Danish, Russian-and-Slovak, Spanish-and-Yiddish, Turkish-and-Armenian, English-and-Greek, English-and-Japanese, English-and-Latin, English-and-Russian-and-Slovak and English-and-Slovak.

Weekly newspapers and periodicals in foreign languages, by states.—Table 32 shows the number and combined circulation of newspapers and periodicals in foreign languages, by leading states, with per cent of increase, 1919, 1914, and 1909.

TABLE 32.—WEEKLY NEWSPAPERS AND PERIODICALS IN FOREIGN LANGUAGES—NUMBER AND CIRCULATION, BY LEADING STATES: 1919, 1914, AND 1909.

Table with columns for State, Number (1919, 1914, 1909), Average Combined Circulation per Issue (1919, 1914, 1909), and Percent of Increase (1909-1919, 1914-1919, 1909-1914). Rows list various states and the United States.

1 A minus sign (-) denotes decrease.

2 Includes, in 1919, Arizona, 2; Arkansas, 1; Delaware, 1; District of Columbia, 1; Florida, 1; Kentucky, 1; Maine, 1; New Hampshire, 2; Oklahoma, 2; Tennessee, 1; Vermont, 2; Virginia, 2.

Of the 27 states shown in the table, only three, Nebraska, New York, and Pennsylvania, show increased circulation from 1914 to 1919:

Publications other than daily, Sunday, and weekly.—Table 33 gives the number of publications, by periods of issue, other than daily, Sunday, and weekly, by geographic divisions and states, for 1919 and 1914.

TABLE 33.—SEMIWEEKLY, TRIWEEKLY, MONTHLY, QUARTERLY, AND ALL OTHER PUBLICATIONS EXCEPT DAILY, SUNDAY, AND WEEKLY—NUMBER, BY GEOGRAPHIC DIVISIONS AND STATES: 1919 AND 1914.

Table with columns for Division and State, and Number of Publications Issued (Semi-weekly, Tri-weekly, Monthly, Quarterly, At all other periods except daily, Sunday, and weekly) for 1919 and 1914. Rows include United States, New England, Middle Atlantic, East North Central, West North Central, South Atlantic, East South Central, West South Central, Mountain, and Pacific.

Triweeklies and semiweeklies.—Table 34 gives the combined average circulation of the triweeklies and semiweeklies, by leading states, with per cent of total, 1919, 1914, and 1909. There was a decrease of 520,673, or 17.2 per cent, in the total combined circulation in 1919, as compared with 1914. Missouri was first in the combined circulation in 1919, New York second, and Texas third.

TABLE 34.—TRIWEEKLIES AND SEMIWEEKLIES—AVERAGE COMBINED CIRCULATION PER ISSUE, BY LEADING STATES: 1919, 1914, AND 1909.

STATE.	1919	1914	1909	PER CENT OF TOTAL.		
				1919	1914	1909
United States.....	2,512,451	3,033,124	2,648,308	100.0	100.0	100.0
California.....	36,622	30,200	44,856	1.5	1.3	1.7
Illinois.....	134,505	104,360	138,165	5.3	3.4	5.2
Indiana.....	22,571	40,176	51,978	0.9	1.3	2.0
Iowa.....	121,901	134,263	156,926	4.9	4.4	5.9
Kentucky.....	37,810	58,584	61,248	1.5	1.9	2.3
Massachusetts.....	17,485	20,580	23,225	0.7	0.9	0.9
Michigan.....	25,004	45,883	52,640	1.0	1.5	3.1
Minnesota.....	134,647	117,374	37,062	5.4	3.8	1.4
Missouri.....	404,235	108,320	353,481	16.1	3.6	13.3
Nebraska.....	34,246	38,219	91,085	1.4	1.3	3.5
New York.....	378,217	364,733	250,403	15.0	12.0	9.5
North Carolina.....	65,165	70,341	55,801	2.6	2.6	2.1
Ohio.....	94,711	185,140	131,806	3.8	6.1	5.0
Oregon.....	23,400	30,000	26,725	0.9	1.0	1.0
Pennsylvania.....	72,533	337,806	243,080	2.9	11.1	9.2
South Carolina.....	24,065	29,260	44,622	1.0	1.0	1.7
Texas.....	275,176	221,852	205,816	10.9	7.3	10.0
Washington.....	32,940	46,038	59,937	1.3	1.5	2.3
Wisconsin.....	67,221	130,414	42,708	2.7	4.3	1.6
All other states.....	509,216	895,588	546,645	20.3	29.5	20.6

Monthly publications.—Table 35 shows the average circulation per issue of the monthly publications, by leading states, with per cent of total, 1919, 1914, and 1909. There was an increase of 12,490,969, or 15.8 per cent, in the total circulation of the monthly publications during the five-year period 1914-1919. The circulation of New York publications greatly predominated, with 43.5 per cent of the total circulation in 1919 and 42.5 per cent in 1914.

Of the 27 states for which totals are shown in the table, 18 show increases from 1914 to 1919, and 9, decreases.

Quarterly publications.—Table 36 shows the average circulation per issue of the quarterly publications, by leading states, with per cent of total, 1919, 1914, and 1909. There was only a small increase in the total

circulation of quarterlies from 1914 to 1919—66,643, or four-tenths of 1 per cent. Of the seven states for which the figures are presented, but two, Illinois and New York, showed a gain during the five-year period 1914-1919. The increase of circulation in Illinois was 321,760, or 8.4 per cent, and in New York 600,981, or 41.5 per cent.

TABLE 35.—MONTHLY PUBLICATIONS—AVERAGE CIRCULATION PER ISSUE, BY LEADING STATES: 1919, 1914, AND 1909.

STATE.	1919	1914	1909	PER CENT OF TOTAL.		
				1919	1914	1909
United States.....	91,681,897	79,199,838	63,289,535	100.0	100.0	100.0
Arkansas.....	25,900	100,700	136,750	(1)	0.1	0.2
California.....	876,878	1,122,367	619,900	1.0	1.4	1.0
Colorado.....	86,907	168,932	230,308	0.1	0.2	0.4
District of Columbia.....	2,909,546	1,637,184	518,784	3.2	1.3	0.8
Georgia.....	109,603	276,066	386,337	0.1	0.4	0.6
Illinois.....	11,279,945	10,242,371	9,492,009	12.3	12.9	15.0
Indiana.....	2,305,409	1,965,086	976,322	2.5	2.5	1.5
Iowa.....	2,334,376	2,256,097	1,490,861	2.5	2.9	2.4
Kansas.....	1,928,635	1,584,540	972,288	2.1	2.0	1.5
Kentucky.....	94,695	159,229	176,935	0.1	0.2	0.3
Maine.....	3,753,309	4,059,797	3,969,766	4.1	5.1	6.2
Massachusetts.....	2,886,640	2,153,439	2,789,665	3.2	2.7	4.4
Michigan.....	1,464,830	1,428,889	927,601	1.6	1.8	1.5
Minnesota.....	1,416,610	1,122,249	824,955	1.5	1.4	1.3
Missouri.....	2,258,270	1,755,852	2,265,275	2.5	2.2	3.6
Nebraska.....	1,404,849	1,354,598	684,513	1.5	1.7	1.1
Nevada.....	594,493	543,247	156,862	0.6	0.7	0.2
New Jersey.....	39,847,749	33,648,962	25,635,615	43.5	42.5	40.5
New York.....	169,842	104,510	40,265	0.2	0.1	0.1
North Carolina.....	6,082,211	5,591,996	2,685,470	6.6	7.0	4.2
Ohio.....	123,206	108,850	219,551	0.1	0.1	0.3
Oregon.....	6,001,752	6,046,975	6,107,571	6.5	7.6	9.7
Pennsylvania.....	1,872,318	875,688	517,643	2.0	1.1	0.8
Tennessee.....	407,384	375,085	256,700	0.5	0.5	0.4
Texas.....	178,550	232,195	183,605	0.2	0.3	0.3
Virginia.....	166,938	256,479	161,624	0.1	0.3	0.3
Washington.....	411,039	267,130	468,088	0.5	0.4	0.7
Wisconsin.....	755,823	442,465	473,682	0.8	0.6	0.7

¹ Less than one-tenth of 1 per cent.

TABLE 36.—QUARTERLY PUBLICATIONS—AVERAGE CIRCULATION PER ISSUE, BY LEADING STATES: 1919, 1914, AND 1909.

STATE.	1919	1914	1909	PER CENT OF TOTAL.		
				1919	1914	1909
United States.....	18,920,544	18,853,901	16,058,099	100.0	100.0	100.0
Illinois.....	4,150,366	3,828,006	1,937,558	21.9	20.3	12.3
Massachusetts.....	1,056,934	1,301,467	1,401,844	5.6	7.2	8.7
Missouri.....	303,090	414,245	203,504	1.6	2.2	1.3
New York.....	2,048,000	1,447,019	2,437,269	10.8	7.7	15.2
Ohio.....	2,697,832	2,874,657	2,288,131	14.3	15.2	14.2
Pennsylvania.....	3,291,478	3,838,673	3,516,933	17.4	20.4	21.9
Tennessee.....	4,495,400	4,497,809	3,649,190	23.8	23.9	22.7
All other states.....	877,444	591,434	593,737	4.6	3.1	3.7

All other publications.—Table 37 shows, for the semimonthly and other issues not specifically covered by the several tables, the average circulation per issue, by leading states, with the per cent of total, 1919, 1914, and 1909. In this class of publications, New York led in 1919, with Missouri second, and Ohio third.

TABLE 37.—ALL OTHER PUBLICATIONS—AVERAGE CIRCULATION PER ISSUE, BY LEADING STATES: 1919, 1914, AND 1909.

STATE.	1919	1914	1909	PER CENT OF TOTAL.		
				1919	1914	1909
United States....	5,067,517	8,922,684	4,093,874	100.0	100.0	100.0
Illinois.....	231,002	453,821	276,335	4.6	5.1	6.7
Iowa.....	196,250	209,830	110,010	3.9	2.4	2.7
Massachusetts.....	41,931	646,900	622,223	0.8	7.3	15.2
Minnesota.....	102,322	259,690	311,170	2.0	2.9	7.6
Missouri.....	526,006	713,906	280,796	10.4	8.0	6.9
New York.....	931,143	3,319,141	662,819	18.4	37.2	16.2
Ohio.....	357,948	720,244	515,279	7.1	8.1	13.3
Pennsylvania.....	185,142	449,317	82,134	3.7	5.0	2.0
Texas.....	83,400	37,226	58,281	1.6	0.4	1.4
Virginia.....	87,545	5,931	6,950	1.7	0.1	0.2
All other states.....	2,324,738	2,108,578	1,137,877	45.9	23.6	27.8

Foreign-language publications other than dailies and weeklies.—Table 38 shows the average combined circulation per issue of all foreign-language

publications other than daily and weekly newspapers and periodicals (see Tables 25 and 32), by leading states, with per cent of increase, 1919, 1914, and 1909. The increase in the number of these publications for the United States was 44, or 11.7 per cent, and for circulation, 789,691, or 21.9 per cent.

TABLE 38.—TRIWEEKLY AND SEMI-WEEKLY NEWSPAPERS AND PERIODICALS, AND MONTHLY, QUARTERLY, AND "ALL OTHER" PERIODICALS IN FOREIGN LANGUAGES—BY LEADING STATES: 1919, 1914, AND 1909.

STATE.	NUMBER.			AVERAGE COMBINED CIRCULATION PER ISSUE.			PER CENT OF INCREASE. ¹		
	1919	1914	1909	1919	1914	1909	1909-1919	1914-1919	1909-1914
United States....	420	376	327	4,399,426	3,609,735	2,773,610	58.6	21.9	30.1
California.....	14	12	7	101,862	57,300	25,760	295.6	77.8	122.5
Illinois.....	73	45	47	668,771	448,462	421,826	58.5	49.1	6.3
Indiana.....	10	10	7	461,300	92,958	78,934	484.4	396.2	17.8
Iowa.....	17	11	15	159,252	122,144	152,049	4.7	30.4	65.6
Massachusetts.....	21	15	13	168,608	438,523	264,732	-36.3	-61.6	-19.7
Michigan.....	15	15	12	49,800	46,509	40,150	24.0	7.1	15.8
Minnesota.....	29	23	27	180,299	156,502	158,605	13.8	15.2	-1.4
Missouri.....	20	28	19	372,200	338,737	281,876	32.0	9.9	20.2
Nebraska.....	8	15	9	163,959	332,338	81,625	100.9	-50.7	307.2
New York.....	77	62	55	1,287,202	487,045	527,186	144.2	164.3	-7.6
Ohio.....	36	39	42	209,365	281,872	317,401	-34.1	-25.7	-11.2
Pennsylvania.....	29	29	14	265,060	420,504	80,935	194.7	-37.0	367.6
Wisconsin.....	18	25	27	154,413	213,768	209,065	-20.1	-27.8	2.2
All other states....	53	47	33	157,335	173,013	121,326	20.6	-9.1	39.2

¹A minus sign (--) denotes decrease.

GENERAL TABLES.

Table 39 gives, for 1919, 1914, and 1909, the number of establishments, average number of wage earners, primary horsepower, wages, cost of materials, and value of products for the six branches of the printing and publishing industry combined in selected states. In some states one or more branches of the industry

have been omitted from the combination to avoid disclosure of individual operations. Table 40 presents, for 1919, the various totals for the United States, and by states, for each of the six branches of the industry, so far as they can be shown without the disclosure of individual operations.

PRINTING AND PUBLISHING.

AND PUBLISHING INDUSTRY, BY STATES: 1919—Continued.

Table with columns: EXPENSES (Salaries and wages, Rent and taxes, For materials), POWER (Primary horsepower: Owned, Rented), Electric horsepower generated in establishments reporting.

PRINTING AND PUBLISHING, NEWSPAPERS AND PERIODICALS.

Main data table for Printing and Publishing, Newspapers and Periodicals, showing financial and power statistics for various states (Alabama to Wisconsin).

BOOKBINDING AND BLANK-BOOK MAKING.

Main data table for Bookbinding and Blank-Book Making, showing financial and power statistics for various states (Alabama to Wisconsin).

* Same number reported for one or more other months.

