

DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
WASHINGTON

FOURTEENTH CENSUS OF THE UNITED STATES
MANUFACTURES: 1919

WOOL MANUFACTURES

AND

WOOL SHODDY, WOOL PULLING
AND WOOL SCOURING

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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 1919, 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 1919 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 profit. 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.

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WOOL MANUFACTURES.

By ARTHUR J. LECK.

GENERAL STATISTICS.

General character of the industry.—The statistics presented in this report represent establishments engaged primarily in the manufacture of (1) worsted goods, (2) woolen goods, (3) carpets and rugs, other than rag, (4) felt goods, and (5) wool-felt hats. Wool pulling, wool scouring and recovered wool from rags, tailor's clippings, and mill waste, commonly known as shoddy, represent processes in the manufacture of wool, rather than the production of finished goods, therefore statistics for these industries are presented separately.

Of the five primary textile industry groups—cotton manufactures, wool manufactures, silk manufactures, knit goods, and cordage and twine, jute goods, and linen goods—wool manufactures ranked second in 1919, the value of its products representing 24.7 per cent of the total value of products of the five groups combined. The value of products for wool manufactures in 1919 was about one-half that of cotton manufactures and about equal to the sum of the value of products reported for knit goods and silk manufactures.

Comparative summary for wool manufactures, by years.—The advancement made in wool manufactures since 1899 is summarized in Table 1.

Summary for wool manufactures, by component industries.—The general status of wool manufactures and of each industrial branch is shown for 1919 in Table 2.

Principal states, ranked by value of products.—The states engaged in wool manufactures are shown in Table 3 in the order of their importance according to value of products for 1919.

Persons engaged in wool manufactures and component industries.—Statistics relating to the number of male and female employees, distributed according to class of employment, are shown for 1919, 1914, and 1909 in Table 4 for wool manufactures as a whole and for each of its separate branches.

Wage earners, by months, for selected states.—Table 5 gives the number of wage earners—male and female—employed in wool manufactures, and its

separate industries, on the 15th day of each month during 1919. Comparative figures are given for 1914 and 1909 for wool manufactures for males and females combined. Employment by selected states is shown for 1919.

Number of spinners and weavers, by states, sex, and age.—The number of spinners and weavers employed in the industry during 1919 and 1914 is shown in Table 6 in such detail as location by states, sex, and age—over and under 16 years.

Prevailing hours of labor.—Table 7 shows that the largest number of wage earners employed in establishments engaged in wool manufactures worked 48 hours per week in 1919, 54 hours in 1914, and between 54 and 60 in 1909. Similar figures are shown for the separate industries within the group, and by states for the combined industries during 1919 and 1914.

Size of establishments, by average number of wage earners.—Table 8 presents statistics with respect to the size of establishments, based on the average number of wage earners for wool manufactures and for each branch separately in 1919 and 1914. Statistics for states are also presented for the combined industries in 1919.

Size of establishments, by value of products.—The size of establishments based on value of products may be found by reference to Table 9, which is comparative for 1919 and 1914.

Character of ownership.—It will be seen from Table 10 that the corporate form of ownership prevailed in the industry for 1919, 1914, and 1909. This is not confined to certain states but is general for all states. Statistics for states are shown for the year 1919 only.

Number and horsepower of types of prime movers.—The various types of power used in the industry are shown in Table 11, with the rated capacity of horsepower each for 1919, 1914, and 1909. Statistics on owned and rented power are shown separately.

Fuel consumed, by states.—Table 12 gives the quantity and kinds of fuel used in the industry for the various states during 1919 and 1914.

MANUFACTURES.

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.....	1,016	979	1,124	1,213	1,414	3.8	-12.9	-7.3	-14.2
Persons engaged.....	208,225	203,716	209,882	186,099	164,713	2.2	-2.9	12.4	13.3
Proprietors and firm members.....	488	578	806	1,107	1,110	-15.6	-33.3	-21.8	-0.3
Salaried employees.....	11,333	7,853	6,987	5,616	4,495	44.3	12.4	24.4	24.9
Wage earners (average number).....	196,404	195,285	202,020	179,976	159,108	0.6	-3.3	12.3	13.1
Primary horsepower.....	525,757	442,330	400,762	322,914	271,565	18.9	10.4	24.1	18.9
Capital.....	\$989,746,958	\$497,699,293	\$506,205,584	\$370,861,691	\$310,179,749	98.9	-1.7	36.5	19.6
Salaries and wages.....	236,773,202	108,000,668	100,268,868	78,074,866	64,389,312	119.2	7.7	27.0	22.7
Salaries.....	38,187,133	14,651,788	12,306,109	8,177,345	6,456,495	160.6	19.1	50.5	26.7
Wages.....	198,586,069	93,357,880	87,962,669	70,797,524	57,933,817	112.7	6.1	54.2	22.2
Paid for contract work.....	9,316,229	2,456,260	3,620,257	1,220,708	1,749,222	279.3	-32.3	197.3	-30.2
Rent and taxes.....	59,768,733	3,022,866	2,925,922	2,357,150	2,007,874	1,423.3	34.1	24.1	17.4
Cost of materials.....	759,193,319	298,063,498	322,441,043	242,561,006	181,159,127	154.7	-7.6	32.9	33.9
Value of products.....	1,234,657,092	464,249,813	507,166,710	380,934,003	296,990,484	165.9	-8.5	33.1	23.3
Value added by manufacture ²	475,463,773	166,180,315	184,725,667	138,372,907	115,831,357	186.1	-10.0	38.5	19.5

¹ A minus sign (-) denotes decrease.² Exclusive of internal revenue.³ Value of products less cost of materials.

TABLE 2.—SUMMARY FOR WOOL MANUFACTURES, BY COMPONENT INDUSTRIES: 1919.

	Total for wool manufactures.	INDUSTRY.					PER CENT OF TOTAL CONTRIBUTED BY EACH INDUSTRY.				
		Woolen goods.	Worsted goods.	Carpets and rugs.	Felt goods.	Wool-felt hats.	Woolen goods.	Worsted goods.	Carpets and rugs.	Felt goods.	Wool-felt hats.
Number of establishments.....	1,016	560	292	75	49	40	55.1	28.7	7.4	4.8	3.9
Persons engaged.....	208,225	67,020	109,372	24,251	5,934	1,648	32.2	52.5	11.6	2.8	0.8
Proprietors and firm members.....	488	258	129	50	8	43	52.9	26.4	10.2	1.6	8.8
Salaried employees.....	11,333	3,805	5,413	1,268	690	167	33.0	47.8	11.2	6.1	1.4
Wage earners (average number).....	196,404	62,967	103,830	22,033	5,236	1,448	32.1	52.9	11.7	2.7	0.7
Primary horsepower.....	525,757	172,947	295,533	38,170	16,411	2,696	32.9	56.2	7.3	3.1	0.5
Capital.....	\$989,746,958	\$273,973,670	\$557,721,078	\$119,196,461	\$35,024,373	\$3,831,376	27.7	56.3	12.0	3.5	0.4
Salaries and wages.....	236,773,202	79,736,922	119,353,515	28,065,905	6,070,832	1,746,028	33.7	50.4	12.2	2.9	0.7
Salaries.....	38,187,133	13,141,090	17,840,660	4,749,784	2,007,342	358,251	34.4	46.7	12.4	5.5	0.9
Wages.....	198,586,069	66,595,826	101,512,855	24,216,121	4,873,490	1,387,777	33.5	51.1	12.2	2.5	0.7
Paid for contract work.....	9,316,229	1,198,862	8,013,060	86,716	9,000	7,682	12.9	86.0	0.9	0.1	0.1
Rent and taxes.....	59,768,733	10,791,225	37,218,556	3,984,671	1,656,463	107,828	28.1	62.3	6.7	2.8	0.2
Cost of materials.....	759,193,319	217,905,333	447,620,350	67,118,039	22,780,775	3,090,822	28.7	59.0	8.8	3.0	0.5
Value of products.....	1,234,657,092	364,896,500	700,537,482	123,253,828	39,220,540	6,739,652	29.6	56.7	10.0	3.2	0.5
Value added by manufacture ¹	475,463,773	146,031,257	252,908,132	56,136,780	16,448,765	3,030,830	30.9	53.2	11.8	3.5	0.6

¹ Value of products less cost of materials.

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

STATE.	Number of establishments.	WAGE EARNERS.			VALUE OF PRODUCTS.			VALUE ADDED BY MANUFACTURE.			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.			Average number.	Per cent distribution.	Rank.	Amount (expressed in thousands).	Per cent distribution.	Rank.	Amount (expressed in thousands).	Per cent distribution.	Rank.
United States.....	1,016	196,404			\$1,234,657			\$475,464			Wisconsin ¹	24	1,070	0.5	12	\$5,495	0.4	11	\$2,157	0.5	11
Massachusetts ¹	207	58,084	29.6	1	366,500	29.7	1	139,135	29.3	1	Illinois ¹	4	482	0.2	13	2,708	0.2	12	1,003	0.2	12
Pennsylvania.....	259	30,636	15.8	2	217,598	17.6	2	77,190	16.2	2	Michigan ²	9	812	0.4	15	4,572	0.4	13	1,691	0.4	14
Rhode Island ²	88	24,393	12.4	3	175,312	14.2	3	58,398	12.3	3	Indiana.....	11	948	0.5	14	4,542	0.4	14	1,222	0.2	20
New Jersey ³	35	14,782	7.5	5	102,302	8.3	4	46,603	9.8	4	Tennessee.....	5	1,366	0.7	11	4,242	0.3	15	2,010	0.4	13
New York.....	68	18,800	9.6	4	100,402	8.1	5	44,007	9.3	5	Oregon ³	13	808	0.4	16	3,357	0.3	16	1,410	0.3	16
Maine ⁴	60	9,913	5.0	7	60,327	4.9	6	24,101	5.1	6	Kentucky.....	10	565	0.3	21	3,247	0.3	17	1,298	0.3	18
Connecticut ¹	47	8,132	4.1	6	53,814	4.4	7	20,608	4.3	7	Georgia ¹	3	595	0.3	17	2,703	0.2	18	1,037	0.2	19
New Hampshire.....	44	9,772	5.0	8	45,944	3.7	8	19,465	4.1	8	Minnesota ²	11	574	0.3	10	2,864	0.2	20	1,084	0.2	22
Ohio ⁴	10	786	0.4	9	3,880	0.3	9	1,858	0.3	9	West Virginia.....	7	542	0.3	23	2,770	0.2	21	1,087	0.2	23
Vermont.....	18	3,031	1.5	10	17,420	1.4	10	6,890	1.4	10	Virginia.....	12	680	0.3	18	2,693	0.2	22	1,155	0.2	21
											All other states ⁴	65	9,383	4.8	...	52,438	4.2	...	22,557	4.7	...

¹ Excludes statistics for 2 establishments to avoid disclosing of individual operations.² Excludes statistics for 1 establishment to avoid disclosing of individual operations.³ Excludes statistics for 5 establishments to avoid disclosing of individual operations.⁴ Excludes statistics for 6 establishments to avoid disclosing of individual operations.⁵ Excludes statistics for 3 establishments to avoid disclosing individual operations.⁶ Includes all establishments which can not be shown by states without disclosing individual operations.

WOOL MANUFACTURES.

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TABLE 4.—PERSONS ENGAGED IN WOOL MANUFACTURES AND COMPONENT INDUSTRIES: 1919, 1914, AND 1909.

INDUSTRY AND CLASS.	Cen- sus year.	Total.	Male.	Fe- male.	PER CENT OF TOTAL.		INDUSTRY AND CLASS.	Cen- sus year.	Total.	Male.	Fe- male.	PER CENT OF TOTAL.	
					Male.	Fe- male.						Male.	Fe- male.
WOOL MANUFACTURES.....	1919	208,225	121,452	86,773	58.3	41.7	CARPETS AND RUGS.....	1919	24,251	15,084	9,167	62.2	37.8
	1914	203,716	117,043	86,073	57.7	42.3		1914	33,101	19,970	13,125	60.3	39.7
	1909	209,882	120,032	89,850	57.2	42.8		1909	34,706	20,725	13,981	59.7	40.3
Proprietors and officials.....	1919	5,040	5,452	188	96.7	3.3	Proprietors and officials.....	1919	494	486	8	98.4	1.6
	1914	3,168	3,119	49	98.5	1.5		1914	444	439	5	98.9	1.1
	1909	3,640	3,583	57	98.4	1.6		1909	448	444	4	99.1	0.9
Proprietors and firm members..	1919	488	466	22	95.5	4.5	Proprietors and firm members..	1919	50	49	1	98.0	2.0
	1914	578	551	27	95.3	4.7		1914	72	71	1	98.6	1.4
	1909	866	835	31	96.4	3.6		1909	134	134	0	100.0	0.0
Salaried officers of corporations.	1919	1,478	1,430	48	98.8	3.2	Salaried officers of corporations	1919	136	133	3	97.8	2.2
	1914	940	927	13	98.6	1.4		1914	130	128	2	98.5	1.5
	1909	897	880	17	98.8	1.2		1909	115	113	2	98.3	1.7
Superintendents and managers.	1919	3,074	3,556	118	96.8	3.2	Superintendents and managers.	1919	308	304	4	98.7	1.3
	1914	1,650	1,641	9	99.5	0.5		1914	242	240	2	99.2	0.8
	1909	1,877	1,862	15	99.2	0.8		1909	199	197	2	99.0	1.0
Clerks and other subordinate sal- aried employees.	1919	6,181	3,826	2,355	61.9	38.1	Clerks and other subordinate sal- aried employees.	1919	824	566	258	68.7	31.3
	1914	5,263	4,013	1,250	76.2	23.8		1914	1,348	1,124	224	83.4	16.6
	1909	4,213	3,271	942	77.6	22.4		1909	951	801	150	84.2	15.8
Wage earners (average number)....	1919	196,404	112,174	84,230	57.1	42.9	Wage earners (average number)....	1919	22,933	14,032	8,901	61.2	38.8
	1914	196,285	110,511	84,774	56.6	43.4		1914	31,309	18,413	12,896	58.8	41.2
	1909	202,029	113,178	88,851	56.0	44.0		1909	33,307	19,480	13,827	58.5	41.5
16 years of age and over.....	1919	189,077	108,965	80,112	57.6	42.4	16 years of age and over.....	1919	22,338	13,740	8,598	61.5	38.5
	1914	188,408	107,469	80,939	57.0	43.0		1914	30,661	18,063	12,598	58.9	41.1
	1909	191,102	108,123	82,979	56.6	43.4		1909	31,956	18,720	13,236	58.6	41.4
Under 16 years of age.....	1919	7,327	3,209	4,118	43.8	56.2	Under 16 years of age.....	1919	595	292	303	49.1	50.9
	1914	6,877	3,042	3,835	44.2	55.8		1914	648	350	298	54.0	46.0
	1909	10,927	5,055	5,872	46.3	53.7		1909	1,351	760	591	56.3	43.7
WOOLEN GOODS.....	1919	67,020	45,272	21,748	67.5	32.5	FELT GOODS.....	1919	5,934	4,494	1,440	75.7	24.3
	1914	51,631	35,226	16,405	68.2	31.8		1914	4,553	3,564	989	78.3	21.7
	1909	54,771	35,815	18,956	65.3	34.6		1909	3,856	3,076	780	79.8	20.2
Proprietors and officials.....	1919	2,487	2,385	102	95.9	4.1	Proprietors and officials.....	1919	206	200	6	97.1	2.9
	1914	1,338	1,313	25	98.1	1.9		1914	154	151	3	98.1	1.9
	1909	1,542	1,514	28	98.2	1.8		1909	134	132	2	98.5	1.5
Proprietors and firm members..	1919	258	243	15	94.2	5.8	Proprietors and firm members..	1919	8	8	0	100.0	0.0
	1914	316	298	18	94.3	5.7		1914	11	11	0	100.0	0.0
	1909	480	457	23	95.2	4.8		1909	19	18	1	94.7	5.3
Salaried officers of corporations.	1919	729	708	21	97.1	2.9	Salaried officers of corporations.	1919	88	82	6	93.2	6.8
	1914	397	393	4	99.0	1.0		1914	68	65	3	95.6	4.4
	1909	406	402	4	99.0	1.0		1909	55	55	0	100.0	0.0
Superintendents and managers.	1919	1,500	1,434	66	95.6	4.4	Superintendents and managers.	1919	110	110	0	100.0	0.0
	1914	625	622	3	99.5	0.5		1914	75	75	0	100.0	0.0
	1909	656	655	1	99.8	0.2		1909	60	59	1	98.3	1.7
Clerks and other subordinate sal- aried employees.	1919	1,576	894	682	56.7	43.3	Clerks and other subordinate sal- aried employees.	1919	492	242	250	49.2	50.8
	1914	1,128	796	332	70.6	29.4		1914	364	271	93	74.5	25.5
	1909	1,049	802	247	76.5	23.5		1909	178	137	41	77.0	23.0
Wage earners (average number)....	1919	62,057	41,993	20,064	66.7	33.3	Wage earners (average number)....	1919	5,236	4,052	1,184	77.4	22.6
	1914	49,105	33,117	16,048	67.4	32.6		1914	4,035	3,142	893	77.9	22.1
	1909	52,180	33,499	18,681	64.2	35.8		1909	3,544	2,807	737	79.2	20.8
16 years of age and over.....	1919	62,013	41,489	20,524	66.9	33.1	16 years of age and over.....	1919	5,195	4,025	1,170	77.5	22.5
	1914	48,328	32,659	15,669	67.6	32.4		1914	4,023	3,134	889	77.9	22.1
	1909	50,472	32,547	17,925	64.5	35.5		1909	3,517	2,789	728	79.3	20.7
Under 16 years of age.....	1919	944	504	440	53.4	46.6	Under 16 years of age.....	1919	41	27	14	65.9	34.1
	1914	837	458	379	54.7	45.3		1914	12	8	4	66.7	33.3
	1909	1,708	952	756	55.7	44.3		1909	27	18	9	66.7	33.3
WORSTED GOODS.....	1919	109,372	55,412	53,960	50.7	49.3	WOOL-FELT HATS.....	1919	1,648	1,190	458	72.2	27.8
	1914	113,059	57,894	55,165	51.2	48.8		1914	1,372	983	389	71.6	28.4
	1909	114,422	58,858	55,564	51.4	48.6		1909	2,127	1,588	539	73.2	26.8
Proprietors and officials.....	1919	2,348	2,282	66	97.2	2.8	Proprietors and officials.....	1919	105	99	6	94.3	5.7
	1914	1,149	1,136	13	98.9	1.1		1914	83	80	3	96.4	3.6
	1909	1,431	1,411	20	98.6	1.4		1909	85	82	3	96.5	3.5
Proprietors and firm members..	1919	129	125	4	96.9	3.1	Proprietors and firm members..	1919	43	41	2	95.3	4.7
	1914	141	135	6	95.7	4.3		1914	38	36	2	94.7	5.3
	1909	197	191	6	97.0	3.0		1909	36	35	1	97.2	2.8
Salaried officers of corporations.	1919	507	480	27	94.5	5.5	Salaried officers of corporations.	1919	18	18	0	100.0	0.0
	1914	330	327	3	99.1	0.9		1914	15	14	1	93.3	6.7
	1909	309	304	5	98.4	1.6		1909	12	12	0	100.0	0.0
Superintendents and managers.	1919	1,712	1,668	44	97.4	2.6	Superintendents and managers.	1919	44	40	4	90.9	9.1
	1914	678	674	4	99.4	0.6		1914	30	30	0	100.0	0.0
	1909	926	916	9	99.0	1.0		1909	37	35	2	94.6	5.4
Clerks and other subordinate sal- aried employees.	1919	3,194	2,048	1,146	64.1	35.9	Clerks and other subordinate sal- aried employees.	1919	95	76	19	80.0	20.0
	1914	2,383	1,783	599	75.2	24.8		1914	40	29	11	72.5	27.5
	1909	1,979	1,490	489	75.3	24.7		1909	56	41	15	73.2	26.8
Wage earners (average number)....	1919	103,830	51,082	52,748	49.2	50.8	Wage earners (average number)....	1919	1,448	1,015	433	70.1	29.9
	1914	109,527	54,965	54,562	50.2	49.8		1914	1,249	874	375	70.0	30.0
	1909	111,012	55,957	55,055	50.4	49.6		1909	1,986	1,435	551	72.3	27.7
16 years of age and over.....	1919	98,105	48,707	49,398	49.6	50.4	16 years of age and over.....	1919	1,426	1,004	422	70.4	29.6
	1914	104,102	52,762	51,340	50.6	49.4		1914	1,234	861	373	69.8	30.2
	1909	103,203	52,054	51,149	51.0	49.0		1909	1,954	1,413	541	72.3	27.7
Under 16 years of age.....	1919	5,725	2,375	3,350	41.5	58.5	Under 16 years of age.....	1919	12	11	1	50.0	50.0
	1914	5,365	2,213	3,152	41.2	58.8		1914	15	13	2	86.7	13.3
	1909	7,809	3,303	4,506	42.3	57.7		1909	32	22	10	68.8	31.2

MANUFACTURES.

TABLE 5.—WAGE EARNERS IN WOOL MANUFACTURES, BY MONTHS, FOR SELECTED STATES: 1919.

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

INDUSTRY 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.....	106,404	165,308	<i>140,168</i>	149,779	170,954	193,282	208,361	216,510	219,153	220,302	218,442	221,912	226,587	61.9
Males.....	112,174	93,024	<i>79,528</i>	85,548	101,217	110,359	119,642	124,103	125,797	125,579	124,417	126,485	129,489	61.4
Females.....	84,230	71,384	<i>60,640</i>	64,231	75,737	82,923	88,719	92,407	93,356	94,813	94,025	95,427	97,098	62.5
Woolen goods.....	62,957	52,063	<i>47,872</i>	50,508	58,242	63,086	60,442	68,638	69,131	69,571	69,428	70,129	70,374	68.0
Males.....	41,093	34,043	<i>31,497</i>	33,581	39,076	42,240	44,523	45,922	46,236	46,584	46,419	46,732	47,063	66.9
Females.....	20,864	18,020	<i>16,375</i>	16,927	19,166	20,846	21,919	22,716	22,895	22,987	23,009	23,397	23,311	70.0
Worsted goods.....	103,830	88,031	<i>67,489</i>	73,916	91,796	101,375	111,621	116,503	117,664	119,097	116,046	118,037	122,495	55.1
Males.....	51,082	44,057	<i>32,098</i>	35,758	44,747	49,501	55,457	57,968	58,664	58,616	57,306	58,319	60,493	53.1
Females.....	52,748	44,574	<i>35,391</i>	38,158	47,049	51,874	56,164	58,535	59,000	60,481	59,340	60,318	62,002	57.1
Carpets and rugs.....	22,933	<i>18,423</i>	18,681	19,374	20,792	22,448	23,596	24,421	25,011	24,398	25,390	25,061	26,502	70.3
Males.....	14,032	<i>11,289</i>	11,340	11,658	12,690	13,726	14,503	14,979	15,296	15,467	15,467	16,061	16,543	68.2
Females.....	8,901	<i>7,133</i>	<i>7,333</i>	7,716	8,102	8,722	9,093	9,442	9,715	8,931	9,923	9,000	9,959	76.6
Felt goods.....	5,236	5,070	5,065	4,896	4,888	4,874	5,012	5,128	5,424	5,508	5,520	5,688	5,744	84.9
Males.....	4,052	3,921	3,875	3,814	3,816	3,801	3,919	3,982	4,207	4,266	4,247	4,365	4,411	86.2
Females.....	1,184	1,155	1,190	1,082	1,072	1,073	1,093	1,146	1,217	1,242	1,282	1,323	1,333	80.4
Wool-felt hats.....	1,448	<i>916</i>	1,061	1,085	1,236	1,499	1,699	1,730	1,923	1,818	1,449	1,497	1,472	47.6
Males.....	1,015	<i>614</i>	709	737	888	1,091	1,240	1,252	1,394	1,290	978	1,008	979	44.0
Females.....	433	<i>302</i>	352	348	348	408	459	478	529	528	471	489	493	57.1
1914.....	195,285	193,400	190,992	202,268	203,511	203,012	200,596	191,039	188,355	193,567	190,350	190,232	184,098	90.5
1909.....	168,722	<i>158,318</i>	161,120	165,585	166,851	168,015	171,946	170,818	170,295	171,747	173,321	173,943	172,693	91.0
Connecticut ¹	8,132	7,094	<i>6,771</i>	7,118	7,756	8,226	8,638	8,845	8,555	8,706	8,006	8,787	9,132	74.1
Males.....	595	596	592	597	600	598	604	617	613	593	558	590	592	90.4
Illinois ²	482	<i>451</i>	452	471	489	480	499	496	492	487	488	493	496	90.4
Indiana.....	948	915	838	943	901	921	964	947	953	991	994	1,004	1,005	83.4
Kentucky.....	565	490	<i>433</i>	481	522	560	564	596	628	622	623	640	621	67.7
Louisiana.....	18	18	18	18	18	18	18	18	18	18	18	18	18	.....
Maine ³	9,913	7,523	<i>7,374</i>	7,956	9,416	10,137	10,555	10,837	10,862	10,705	11,075	10,933	11,583	63.7
Maryland.....	207	140	145	145	161	26	<i>26</i>	173	300	318	343	348	354	7.1
Massachusetts ¹	58,084	49,271	<i>59,868</i>	45,018	48,071	54,534	63,500	66,205	66,260	66,745	64,533	65,270	66,143	59.7
Michigan ⁴	812	<i>682</i>	699	714	760	810	859	835	873	864	864	883	892	76.5
Minnesota ⁵	574	580	<i>559</i>	548	563	561	573	586	583	578	580	598	599	90.0
New Hampshire.....	9,772	8,491	<i>8,222</i>	8,596	9,313	9,568	9,977	10,327	10,546	10,475	10,476	10,540	10,733	76.6
New Jersey ⁴	14,782	14,092	<i>4,018</i>	4,079	14,469	16,405	17,227	17,859	17,949	17,864	17,722	17,772	17,923	22.4
New York.....	18,800	15,302	<i>16,204</i>	16,174	17,547	18,181	19,151	19,650	20,271	20,367	20,647	21,452	21,664	70.2
Ohio ⁵	780	799	<i>789</i>	730	739	701	785	780	811	800	817	819	796	89.1
Oregon ⁵	808	781	<i>722</i>	701	756	786	805	834	848	909	886	803	855	77.1
Pennsylvania.....	30,930	26,525	<i>24,364</i>	24,426	27,162	30,289	31,025	33,462	34,204	34,459	34,447	34,604	35,385	68.9
Rhode Island ⁴	24,393	18,334	<i>16,827</i>	17,185	22,644	24,043	25,803	27,204	27,510	27,808	27,736	28,017	29,006	54.6
Tennessee.....	1,366	1,340	<i>1,327</i>	1,315	<i>1,247</i>	1,353	1,404	1,394	1,379	1,397	1,418	1,410	1,408	87.9
Vermont.....	3,031	<i>1,819</i>	1,930	2,335	2,848	3,107	3,060	3,151	3,320	3,508	3,699	3,772	3,817	47.7
Virginia.....	630	613	611	591	602	604	635	638	660	631	663	659	653	89.1
West Virginia.....	542	476	460	412	465	486	676	597	598	602	612	607	623	66.1
Wisconsin ⁵	1,070	1,021	<i>802</i>	925	996	1,050	1,089	1,120	1,144	1,137	1,170	1,183	1,203	66.7
States showing large proportion of females.														Per cent av. is of state.
Connecticut ¹	2,272	2,044	<i>1,986</i>	2,061	2,179	2,268	2,416	2,452	2,324	2,398	2,223	2,430	2,543	27.9
Georgia ¹	243	255	251	253	244	243	238	234	242	235	228	248	245	40.8
Indiana.....	483	476	<i>426</i>	487	440	463	490	483	477	497	515	525	517	59.9
Maine ³	3,511	2,755	<i>2,696</i>	2,845	3,201	3,607	3,767	3,825	3,788	3,673	3,845	3,891	4,149	35.4
Massachusetts ¹	23,348	19,586	<i>16,585</i>	18,255	19,435	21,981	25,338	26,490	26,429	26,075	25,892	26,252	27,160	40.2
New Hampshire.....	3,654	3,260	<i>3,166</i>	3,280	3,475	3,577	3,708	3,825	3,888	3,882	3,887	3,939	3,971	37.4
New Jersey ⁴	7,694	7,282	<i>2,527</i>	2,334	7,611	8,475	8,801	9,181	9,239	9,375	9,180	9,238	9,276	52.0
New York.....	7,782	6,407	<i>6,268</i>	6,702	7,204	7,484	7,921	8,107	8,430	8,456	8,625	8,910	8,880	41.4
Pennsylvania.....	14,748	12,868	<i>11,976</i>	12,018	13,154	14,408	14,983	15,729	16,025	16,264	16,365	16,467	16,719	47.7
Rhode Island ⁴	11,729	8,779	<i>7,696</i>	8,250	10,689	11,830	12,203	13,085	13,118	13,527	13,505	13,897	14,153	48.1
Tennessee.....	626	609	<i>609</i>	599	585	633	646	620	623	639	647	645	648	45.8

¹ Excludes statistics for 2 establishments to avoid disclosing individual operations.² Excludes statistics for 1 establishment to avoid disclosing individual operations.³ Excludes statistics for 5 establishments to avoid disclosing individual operations.⁴ Excludes statistics for 6 establishments to avoid disclosing individual operations.⁵ Excludes statistics for 3 establishments to avoid disclosing individual operations.

WOOL MANUFACTURES.

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TABLE 6.—WAGE EARNERS—SPINNERS AND WEAVERS—IN WOOL MANUFACTURES: 1919 AND 1914.

STATE, AGE, AND SEX.	NUMBER DECEMBER 15 OR NEAREST REPRESENTATIVE DAY.								PER CENT OF TOTAL.					
	1919				1914				1919			1914		
	Total.	Spinners.	Weavers.	All other.	Total.	Spinners.	Weavers.	All other.	Spinners.	Weavers.	All other.	Spinners.	Weavers.	All other.
United States.....	220,181	21,991	48,700	158,490	200,450	22,160	46,173	132,117	9.6	21.2	69.2	11.1	23.0	65.9
16 years of age and over.....	220,612	20,881	48,512	151,219	193,424	20,455	45,993	126,976	9.5	22.0	68.5	10.6	23.8	65.6
Male.....	127,801	10,222	26,587	90,992	110,545	9,525	25,367	75,653	8.0	20.8	71.2	8.6	22.9	68.4
Female.....	92,811	10,659	21,925	60,227	82,879	10,930	20,626	51,323	11.5	23.6	64.9	13.2	24.9	61.9
Under 16 years of age.....	8,569	1,110	188	7,271	7,026	1,705	180	5,141	13.0	2.2	84.9	24.3	2.6	73.2
Male.....	3,779	509	77	3,193	3,110	661	80	2,369	13.5	2.0	84.5	21.3	2.6	76.2
Female.....	4,790	601	111	4,078	3,916	1,044	100	2,772	12.5	2.3	85.1	26.7	2.6	70.8
Massachusetts.....	69,338	5,204	13,382	50,752	62,562	4,872	12,401	45,289	7.5	19.3	73.2	7.8	19.8	72.4
16 years of age and over.....	65,790	5,053	13,317	47,420	60,782	4,698	12,354	43,735	7.7	20.2	72.1	7.7	20.3	72.0
Male.....	40,149	2,576	7,246	30,327	36,810	2,197	6,739	27,874	6.4	18.0	75.5	6.0	18.3	75.7
Female.....	25,641	2,477	6,071	17,093	23,972	2,496	5,615	15,861	9.7	23.7	66.7	10.4	23.4	66.2
Under 16 years of age.....	3,548	151	65	3,332	1,780	179	47	1,554	4.3	1.8	93.9	10.1	2.6	87.3
Male.....	1,547	72	15	1,460	708	69	6	633	4.7	1.0	94.4	9.7	0.8	89.4
Female.....	2,001	79	50	1,872	1,072	110	41	921	3.9	2.5	93.6	10.3	3.8	85.9
Pennsylvania.....	35,560	5,061	7,936	22,563	34,226	4,177	8,524	21,525	14.2	22.3	63.5	12.2	24.9	62.9
16 years of age and over.....	34,270	4,736	7,897	21,637	31,793	3,488	8,477	19,828	13.8	23.0	63.1	11.0	26.7	62.4
Male.....	18,216	2,176	4,760	11,280	17,169	1,683	5,719	9,767	11.9	26.1	61.9	9.8	33.3	56.9
Female.....	16,054	2,560	3,137	10,357	14,624	1,805	2,758	10,061	15.9	19.5	64.5	12.3	18.9	68.8
Under 16 years of age.....	1,290	325	39	926	2,433	689	47	1,097	25.2	3.0	71.8	28.3	1.9	69.7
Male.....	611	145	12	454	1,067	195	17	855	23.7	2.0	74.3	18.3	1.6	80.1
Female.....	679	180	27	472	1,366	494	30	842	26.5	4.0	69.5	36.2	2.2	61.6
Rhode Island.....	29,287	2,746	5,509	21,032	23,024	2,939	4,926	15,159	9.4	18.8	71.8	12.8	21.4	65.8
16 years of age and over.....	27,458	2,486	5,504	19,468	21,493	2,406	4,888	14,199	9.1	20.0	70.9	11.2	22.7	66.1
Male.....	14,360	1,234	3,775	9,351	11,508	1,072	3,304	7,132	8.6	26.3	65.1	9.3	28.7	62.0
Female.....	13,098	1,252	1,729	10,117	9,985	1,334	1,584	7,067	9.6	13.2	77.2	13.4	15.9	70.7
Under 16 years of age.....	1,829	260	5	1,564	1,531	533	38	960	14.2	0.3	85.5	34.8	2.5	82.7
Male.....	701	116	5	645	664	228	33	403	15.2	0.3	84.8	34.3	5.0	60.7
Female.....	1,068	144	5	919	867	305	5	557	13.5	0.5	88.0	35.2	0.6	64.2
New York.....	21,892	1,812	4,140	15,940	21,244	2,312	4,268	14,664	8.3	18.9	72.8	10.9	20.1	69.0
16 years of age and over.....	21,782	1,811	4,133	15,838	21,028	2,265	4,204	14,499	8.3	19.0	72.7	10.8	20.3	68.9
Male.....	12,891	721	2,272	9,898	11,667	878	2,162	8,527	5.6	17.6	76.8	7.6	18.7	73.7
Female.....	8,901	1,090	1,861	5,940	9,461	1,387	2,102	5,972	12.3	20.9	66.8	14.7	22.2	63.1
Under 16 years of age.....	110	1	7	102	216	47	4	165	0.9	6.4	92.7	21.8	1.9	76.4
Male.....	71	1	6	65	133	23	2	108	0.5	8.5	91.5	17.3	1.5	81.2
Female.....	39	1	1	37	83	24	2	57	2.6	2.6	94.9	28.9	2.4	68.7
New Jersey.....	19,265	2,291	3,151	13,823	15,334	2,850	3,880	8,604	11.9	16.4	71.8	18.6	25.3	56.1
16 years of age and over.....	18,329	2,021	3,151	13,157	15,078	2,801	3,864	8,413	11.0	17.2	71.8	18.6	25.6	55.8
Male.....	9,071	478	980	7,613	6,723	826	1,359	4,538	5.3	10.8	83.9	12.3	20.2	67.5
Female.....	9,258	1,543	2,171	5,544	8,355	1,975	2,505	3,875	16.7	23.4	59.9	23.6	30.0	46.4
Under 16 years of age.....	936	270	666	256	49	16	16	101	28.8	71.2	19.1	6.3	74.6	
Male.....	387	139	248	108	25	13	13	70	35.9	64.1	23.1	12.0	64.8	
Female.....	549	131	418	148	24	3	3	121	23.9	76.1	16.2	2.0	81.3	
Maine.....	11,824	1,107	4,394	6,323	8,651	940	2,680	5,031	9.4	37.2	53.5	10.9	31.0	58.1
16 years of age and over.....	11,723	1,098	4,392	6,233	8,479	876	2,680	4,923	9.4	37.5	53.2	10.3	31.6	58.1
Male.....	7,535	935	2,296	4,304	5,565	614	1,344	3,607	12.4	30.5	57.1	11.0	24.2	64.8
Female.....	4,188	163	2,098	1,920	2,914	262	1,336	1,316	3.9	50.0	46.1	9.0	45.8	45.2
Under 16 years of age.....	101	9	2	90	172	64	108	108	8.9	2.0	89.1	37.2	-----	62.8
Male.....	59	3	1	55	71	24	-----	47	5.1	1.7	93.2	23.8	-----	66.2
Female.....	42	6	1	35	101	40	-----	61	14.3	2.4	83.3	39.6	-----	60.4
New Hampshire.....	10,736	660	2,342	7,734	9,404	660	2,026	6,718	6.1	21.8	72.0	7.0	21.5	71.4
16 years of age and over.....	10,632	654	2,315	7,663	9,346	660	2,026	6,660	6.2	21.8	72.1	7.1	21.7	71.2
Male.....	6,717	461	1,137	5,129	5,801	407	883	4,511	6.9	16.8	76.4	7.0	15.2	77.8
Female.....	3,915	192	1,188	2,634	3,545	253	1,143	2,149	4.9	30.3	64.7	7.1	32.2	60.6
Under 16 years of age.....	104	6	27	71	58	-----	-----	58	5.8	26.0	68.3	-----	-----	100.0
Male.....	50	1	25	24	34	-----	-----	34	2.0	50.0	48.0	-----	-----	100.0
Female.....	54	5	2	47	24	-----	-----	24	9.3	3.7	87.0	-----	-----	100.0

TABLE 7.—AVERAGE NUMBER OF WAGE EARNERS, BY PREVAILING HOURS OF LABOR PER WEEK, FOR STATES: 1919 AND 1914.

INDUSTRY AND STATE.	Total.	IN ESTABLISHMENTS WHERE THE PREVAILING HOURS OF LABOR PER WEEK WERE—							Total.	INDUSTRY AND STATE.	Total.	IN ESTABLISHMENTS WHERE THE PREVAILING HOURS OF LABOR PER WEEK WERE—						
		44 and under.	Between 44 and 48.	48.1	Between 48 and 54.	54.	Between 54 and 60.	60.				44 and under.	Between 44 and 48.	48.1	Between 48 and 54.	54.	Between 54 and 60.	60.
United States:																		
1919.....	196,404	932	10,002	123,448	15,040	7,002	11,473	2,273	334	Massachusetts:								
1914.....	195,285	(*)	(*)	1,108	4,675	113,333	64,599	11,511	59	1919.....	58,084	247	6	51,003	2,299	3,178	421	88
1909.....	202,029	(*)	(*)	588	1,270	8,130	133,530	57,384	1,077	1914.....	50,574	(*)	(*)	50	1,717	48,218	7,836	1,755
Woolen goods—										Michigan:								
1919.....	62,957	508	369	36,781	4,773	10,903	7,007	1,806		1919.....	812	1				317	494	
1914.....	49,165	(*)	(*)	1,062	634	14,010	26,378	7,033	48	Minnesota:								
Worsteds goods—										1919.....	574			269	186	31	80	8
1919.....	103,830	24	9,595	77,598	7,007	6,944	2,328		334	New Hampshire:								
1914.....	109,527				1,580	74,205	30,550	3,003		1919.....	0,772	41		7,687	244	1,799	1	
Carpets and rugs—										1914.....	0,532					1,062	8,470	
1919.....	22,033	110		12,782	2,295	7,494	181	62		New Jersey:								
1914.....	31,809	(*)	(*)	23	2,009	23,235	5,85	267		1919.....	14,782	4	38	13,467	148	28	1,005	
Felt goods—										1914.....	15,336					13	15,316	7
1919.....	5,236	90	38	1,121	1,063	1,067	967	290		New York:								
1914.....	4,035	(*)	(*)	5	96	1,239	1,767	917	11	1919.....	18,800	215	32	6,366	2,887	9,086	307	567
Wool-felt hats—										1914.....	21,092	(*)	(*)	370	350	10,198	1,023	3,134
1919.....	1,448	131		160	202	504	390	55		Ohio:							220	85
1914.....	1,249	(*)	(*)	18	257	554	219	201		1919.....	786			31	450			
Connecticut:										Oregon:							191	183
1919.....	8,132		130	3,860	1,840	213	2,071			1919.....	808			434		25	226	397
1914.....	7,850				108	307	6,123	812		1914.....	648							
Georgia:										Pennsylvania:								
1919.....	595			120		266		200		1919.....	30,036	346	9,586	12,402	5,834	1,417	995	356
1914.....	524							524		1914.....	34,030	(*)	(*)	620	2,227	22,020	8,801	345
Illinois:										Rhode Island:								
1919.....	482			122			360			1919.....	24,393			21,062	527	2,527	277	
1914.....	498									1914.....	22,745					18,147	3,993	605
Indiana:										Tennessee:								
1919.....	948			20	27	79	752	70		1919.....	1,366	1				53	995	317
1914.....	719	(*)	(*)	13	110	35	115	437		1914.....	1,069					146	708	180
Kentucky:										Vermont:								
1919.....	505	3		2	10	247	300	3		1919.....	2,638			1,926	196	121	312	83
1914.....	675	(*)	(*)	6	3	2	586	78		1914.....	2,220					122	1,823	281
Louisiana:										Virginia:								
1919.....	18			8		7		3		1919.....	630			99		8	420	103
Maine:										West Virginia:								
1919.....	9,913			8,023		6,287		3		1919.....	450			33		70	340	16
1914.....	7,908					166	7,374	458		Wisconsin:								
Maryland:										1919.....	1,070			5	343	48	616	58
1919.....	207					25	182											

* Includes 48 and under for 1914.

* Corresponding figures not available.

* Excludes statistics for 2 establishments, to avoid disclosing individual operations.

* Excludes statistics for 3 establishments, to avoid disclosing individual operations.

* Excludes statistics for 1 establishment, to avoid disclosing individual operations.

* Excludes statistics for 6 establishments, to avoid disclosing individual operations.

* Excludes statistics for 5 establishments, to avoid disclosing individual operations.

TABLE 8.—SIZE OF ESTABLISHMENTS, BY AVERAGE NUMBER OF WAGE EARNERS, FOR STATES: 1919.

INDUSTRY AND STATE.	TOTAL.		ESTABLISHMENTS EMPLOYING—																
	Establishments.	Wage earners (average number).	No wage earners.	1 to 5 wage earners, inclusive.		6 to 20 wage earners, inclusive.		21 to 50 wage earners, inclusive.		51 to 100 wage earners, inclusive.		101 to 250 wage earners, inclusive.		251 to 500 wage earners, inclusive.		501 to 1,000 wage earners, inclusive.		Over 1,000 wage earners.	
			Establishments.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.
United States.....1919..	1,016	196,404	21	73	182	97	1,286	150	5,402	202	15,486	289	45,066	117	40,087	34	22,380	83	65,855
1914..	979	195,285	24	84	195	110	1,376	138	4,047	193	14,681	267	43,142	99	34,320	30	21,569	34	76,055
Woolen goods...1919..	560	62,957	15	47	114	58	747	86	3,146	122	9,469	170	27,527	50	16,013	5	3,504	1	1,837
1914..	501	49,165	17	54	114	58	684	78	2,833	120	9,231	141	22,452	28	9,242	4	2,677	1	1,933
Worsted goods...1919..	292	103,830	2	4	8	18	277	36	1,292	48	3,652	82	13,191	52	13,167	25	10,610	25	50,633
1914..	298	109,527	3	11	30	25	334	27	1,009	44	3,298	81	13,548	62	22,086	20	14,936	25	54,286
Carpets and rugs 1919..	75	22,933	1	5	16	7	98	13	430	12	839	17	2,716	9	3,183	4	2,266	7	13,338
1914..	97	31,809	.....	2	6	16	222	18	583	15	1,163	25	4,143	7	2,399	6	3,956	8	18,837
Felt goods.....1919..	40	5,236	1	.....	.....	4	44	10	386	18	1,383	12	1,907	4	1,516	.....	.....	.....	.....
1914..	53	4,035	.....	0	15	9	107	8	264	13	920	15	2,130	2	593	.....	.....	.....	.....
Wool-felt hats...1919..	40	1,448	2	17	44	10	120	5	208	2	143	2	325	2	608	.....	.....	.....	.....
1914..	30	1,249	4	11	30	2	29	7	258	1	69	5	863	.....	.....	.....	.....	.....	.....
Connecticut ¹	47	8,132	.....	1	5	.....	.....	2	60	14	1,154	22	3,477	7	2,406	.....	.....	1	1,021
Georgia ¹	3	595	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	320	1	206	.....	.....	.....	.....
Illinois ²	4	482	.....	.....	.....	.....	.....	1	40	.....	.....	3	442	.....	.....	.....	.....	.....	.....
Indiana.....	11	948	.....	2	6	1	20	3	105	1	64	3	430	1	323	.....	.....	.....	.....
Kentucky.....	10	505	.....	6	8	1	10	.....	.....	.....	.....	3	547	.....	.....	.....	.....	.....	.....

* Excludes statistics for 2 establishments to avoid disclosing individual operations.

* Excludes statistics for 6 establishments to avoid disclosing individual operations.

TABLE 8.—SIZE OF ESTABLISHMENTS, BY AVERAGE NUMBER OF WAGE EARNERS, FOR STATES: 1919—Continued.

INDUSTRY AND STATE.	TOTAL.		ESTABLISHMENTS EMPLOYING—														
	Establishments.	Wage earners (average number).	No wage earners.	1 to 5 wage earners, inclusive.	6 to 20 wage earners, inclusive.	21 to 50 wage earners, inclusive.	51 to 100 wage earners, inclusive.	101 to 250 wage earners, inclusive.	251 to 500 wage earners, inclusive.	501 to 1,000 wage earners, inclusive.	Over 1,000 wage earners.						
			Establishments.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.	Establishments.	Wage earners.		
Louisiana.....	3	18	.....	1	3	2	15	.....	.....	.....	.....	.....	.....	.....	.....	.....
Maine ¹	66	9,913	1	4	8	6	72	4	144	15	1,245	30	4,317	3	1,034	2	2,587
Maryland.....	3	207	.....	.....	.....	.....	.....	1	25	1	74	1	108	.....	.....	.....	.....
Massachusetts ¹	207	58,084	.....	5	17	9	116	27	1,004	48	3,627	68	11,298	30	9,922	8	4,830
Michigan ²	9	812	.....	1	1	2	20	1	35	1	60	3	347	1	349	12	27,270
Minnesota ²	11	574	.....	3	9	4	58	.....	.....	2	130	1	111	1	266	.....	.....
New Hampshire.....	44	9,772	.....	2	2	1	17	2	84	15	1,116	19	3,072	4	1,376	1	4,105
New Jersey ³	35	14,782	1	3	7	2	20	6	191	3	242	4	641	9	3,201	4	2,947
New York.....	68	18,800	1	4	16	8	106	9	334	11	850	16	2,558	12	4,521	3	1,836
Ohio ⁴	10	786	.....	.....	.....	3	44	2	81	3	243	1	120	.....	298	4	8,579
Oregon ²	5	808	.....	.....	.....	.....	.....	1	43	1	81	2	293	1	391	.....	.....
Pennsylvania.....	259	30,930	7	17	38	36	515	67	2,382	51	3,770	53	8,332	15	5,315	10	6,633
Rhode Island ²	88	24,393	.....	1	1	6	75	8	302	12	1,009	30	4,871	19	6,390	7	4,665
Tennessee.....	13	1,366	3	1	1	.....	.....	1	40	2	129	5	775	1	421	.....	.....
Vermont.....	18	3,031	.....	.....	.....	1	8	.....	.....	6	481	5	709	2	778	1	963
Virginia.....	12	630	1	3	9	4	49	2	70	1	96	1	130	1	276	.....	.....
West Virginia.....	7	542	.....	.....	.....	1	16	2	63	3	253	1	210	.....	.....	.....	.....
Wisconsin ⁴	24	1,070	3	7	16	2	31	4	156	4	250	4	617	.....	.....	.....	.....

¹ Excludes statistics for 2 establishments to avoid disclosing individual operations.² Excludes statistics for 1 establishment to avoid disclosing individual operations.³ Excludes statistics for 3 establishments to avoid disclosing individual operations.⁴ Excludes statistics for 5 establishments to avoid disclosing individual operations.⁵ Excludes statistics for 6 establishments to avoid disclosing individual operations.

TABLE 9.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS: 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	Per cent distribution.		1919	1914	Per cent distribution.		1919	1914	Per cent distribution.		1919	1914	Per cent distribution.	
WOOL MANUFACTURES	1,010	979	100.0	100.0	190,404	195,285	100.0	100.0	\$1,234,657,092	\$464,249,813	100.0	100.0	\$475,463,773	\$166,186,315	100.0	100.00
Less than \$5,000.....	44	73	4.3	7.5	38	117	(1)	0.1	96,560	160,049	(1)	(1)	61,299	83,440	(1)	0.1
\$5,000 to \$20,000.....	52	72	5.1	7.4	255	518	0.1	0.3	593,358	741,465	(1)	0.2	363,513	424,595	0.1	0.3
\$20,000 to \$100,000.....	93	103	9.2	10.7	1,024	6,274	0.8	3.2	4,868,918	11,495,333	0.4	2.5	2,700,250	4,561,615	0.6	2.7
\$100,000 to \$500,000.....	240	423	28.4	43.2	18,402	70,285	(9.4)	40.6	80,030,453	106,546,834	6.5	40.9	33,928,934	87,952,577	(7.1)	40.9
\$500,000 to \$1,000,000.....	223	110	21.9	12.2	26,800		(13.7)		164,060,608	83,402,694	13.3		63,251,785	37,167,992	(13.3)	
\$1,000,000 and over.....	315	99	31.0	10.1	149,226	109,061	76.0	55.8	984,957,195	261,903,438	79.8	56.4	375,167,992	93,164,088	78.9	56.1
WOOLEN GOODS.....	560	501	100.0	100.0	62,957	49,185	100.0	100.0	364,896,590	103,815,905	100.0	100.0	146,931,237	49,119,863	100.0	100.0
Less than \$5,000.....	34	57	6.1	11.4	28	96	(1)	0.2	69,104	122,958	(1)	0.1	43,189	59,112	(1)	0.1
\$5,000 to \$20,000.....	31	40	5.5	8.0	176	302	0.3	0.6	360,747	409,053	0.1	0.4	214,053	208,619	0.1	0.5
\$20,000 to \$100,000.....	61	100	10.9	20.0	1,050	3,288	1.7	0.7	3,104,968	5,884,002	0.9	5.7	1,717,210	2,103,390	1.2	5.2
\$100,000 to \$500,000.....	170	258	30.4	50.5	(10,871)	40,685	(17.3)	82.5	48,224,902	60,128,118	13.2	82.8	19,963,210	32,962,256	(13.6)	82.2
\$500,000 to \$1,000,000.....	141	40	25.2		(17,072)		(27.1)		102,856,945	25,790,164	28.2		41,845,180		(28.5)	
\$1,000,000 and over.....	123	6	22.0	1.2	33,751	4,894	53.6	10.0	210,270,924	11,481,610	57.6	11.1	83,148,415	4,789,486	56.6	11.9
WORSTED GOODS.....	202	208	100.0	100.0	103,830	109,527	100.0	100.0	700,537,482	275,668,474	100.0	100.0	252,908,132	92,867,850	100.0	100.0
Less than \$5,000.....	2	5	0.7	1.7	2	10	(1)	(1)	7,748	10,732	(1)	(1)	5,141	6,861	(1)	(1)
\$5,000 to \$20,000.....	3	16	1.0	5.4	16	147	(1)	0.1	29,938	167,272	(1)	0.1	116,754	110,754	(1)	0.1
\$20,000 to \$100,000.....	17	42	5.8	14.1	373	1,646	0.4	1.5	866,110	2,384,800	0.1	0.9	638,797	1,194,328	0.3	1.3
\$100,000 to \$500,000.....	65	96	22.3	52.7	(4,737)	20,847	(4.6)	24.5	16,503,301	26,701,905	2.4	26.0	7,676,935	22,462,591	(3.0)	24.2
\$500,000 to \$1,000,000.....	55	61	18.8		(6,641)		(6.4)		42,388,007	44,901,035	6.1		14,103,620		(5.6)	
\$1,000,000 and over.....	150	78	51.4	26.2	92,061	80,877	88.7	78.8	640,742,378	201,503,730	91.5	73.1	230,456,340	60,087,313	91.1	74.4
CARPETS AND RUGS.....	75	97	100.0	100.0	22,933	31,809	100.0	100.0	123,253,828	69,128,185	100.0	100.0	56,135,789	26,847,962	100.0	100.0
Less than \$5,000.....	2	3	2.7	3.8	1	9	(1)	0.2	4,610	104,006	(1)	0.2	3,211	56,053	(1)	0.2
\$5,000 to \$20,000.....	3	8	4.0	8.2	9	71	(1)	0.4	38,950	1,662,234	0.4	2.4	16,604	629,727	(1)	2.3
\$20,000 to \$100,000.....	7	25	9.3	25.8	94	622	0.4	2.0	454,571	9,770,813	4.5	26.7	197,408	6,870,993	(3.9)	25.6
\$100,000 to \$500,000.....	21	37	28.0	60.5	(939)	7,320	(4.1)	23.4	5,520,917	8,673,034	8.6		2,168,393		(7.4)	
\$500,000 to \$1,000,000.....	15	12	20.0		(1,999)		(8.7)		10,541,417	4,038,853	86.6	70.8	4,127,123	19,290,289	(88.4)	71.8
\$1,000,000 and over.....	27	15	36.0	15.5	10,891	23,290	86.7	74.4	106,693,363	48,918,098	86.6		49,023,050		(88.4)	
FELT GOODS.....	40	53	100.0	100.0	5,236	4,035	100.0	100.0	39,229,540	13,692,765	100.0	100.0	16,448,765	5,384,495	100.0	100.0
Less than \$5,000.....	1	2	2.0	3.8		9		0.2	254,921	899,181	0.7	6.3	76,577	351,070	0.5	6.5
\$5,000 to \$20,000.....	3	15	6.1	28.3	59	232	1.1	5.8	7,090,374	8,769,302	18.1	64.0	2,981,389	5,026,450	(18.1)	93.4
\$20,000 to \$100,000.....	21	27	42.9	60.9	1,297	3,794	(24.8)	94.0	7,432,657	4,038,853	18.9	29.5	2,813,738		(17.1)	
\$100,000 to \$500,000.....	11	6	22.6	11.3	966				24,451,588		62.3		10,577,061		(64.3)	
\$500,000 to \$1,000,000.....	13	1	26.5	1.9	2,914		55.7		6,739,652	1,944,484	100.0	100.0	3,039,830	966,145	100.0	100.0
\$1,000,000 and over.....	15	4	30.0	13.3	1,348	733	93.1	58.7	12,398	22,428	0.2	1.2	8,658	15,843	0.3	1.6
WOOL-FELT HATS.....	40	30	100.0	100.0	1,448	1,249	100.0	100.0	163,723	49,334	2.4	2.5	105,553	36,915	3.5	3.8
Less than \$5,000.....	5	9	12.5	30.0	6	10	0.4	0.8	191,048	696,116	2.8	36.8	71,362	283,100	2.3	29.3
\$5,000 to \$20,000.....	15	6	37.5	20.0	40	486	2.8	38.9	6,372,453	1,176,606	94.6	60.5	2,854,257	630,287	93.9	65.2
\$20,000 to \$100,000.....	5	11	12.5	36.7												
\$100,000 to \$500,000.....	15	4	30.0	13.3												

¹ Less than one-tenth of 1 per cent.² Includes establishment having product of \$1,000,000 and over to avoid disclosing individual operations.

TABLE 10.—CHARACTER OF OWNERSHIP, BY STATES: 1919 AND 1914.

INDUSTRY AND STATE.	NUMBER OF ESTABLISHMENTS OWNED BY—			AVERAGE NUMBER OF WAGE EARNERS.									VALUE OF PRODUCTS.								
				Total.	In establishments owned by—			Per cent of total.			Total.	Of establishments owned by—			Per cent of total.			Total.	Individ-uals.	Corpora-tions.	All oth-ers.
	Indi-vid-u-als.	Cor-pora-tions.	All oth-ers.		Indi-vid-u-als.	Cor-pora-tions.	All oth-ers.	Indi-vid-u-als.	Cor-pora-tions.	All oth-ers.		Indi-vid-u-als.	Cor-pora-tions.	All oth-ers.	Indi-vid-u-als.	Cor-pora-tions.	All oth-ers.				
United States.....	149	738	129	196,404	5,868	178,800	11,736	3.0	91.0	6.0	\$1,234,057,092	\$36,925,377	\$1,121,020,101	\$76,711,614	3.0	90.8	6.2				
1914..	170	645	158	195,285	9,489	167,863	17,933	4.9	85.9	9.2	464,249,813	25,951,835	303,585,924	44,712,054	5.6	84.8	9.6				
1900..	257	635	232	202,029	11,292	192,880	27,857	5.6	80.6	13.8	507,106,710	20,474,655	410,182,889	67,509,166	5.8	80.9	13.3				
Woolen goods.....	94	399	67	92,957	3,428	54,849	4,080	5.4	87.1	7.4	364,890,550	10,007,028	320,025,490	25,884,072	5.2	87.7	7.1				
1914..	104	310	87	49,165	3,838	38,743	6,584	7.8	78.8	13.4	103,815,905	9,510,400	80,312,807	13,983,629	9.2	77.4	13.5				
Worsted goods.....	27	229	30	103,830	2,003	90,994	4,833	1.9	93.4	4.7	700,537,482	14,586,757	640,944,584	36,006,141	2.1	92.8	5.1				
1914..	41	220	37	109,527	4,893	97,981	6,653	4.5	89.4	6.1	275,068,474	14,158,134	242,061,557	19,448,783	5.1	87.8	7.1				
Carpets and rugs.....	11	40	15	22,933	321	20,800	1,806	1.4	90.7	7.9	123,253,828	2,721,642	107,881,235	12,050,951	2.2	87.5	10.3				
1914..	15	60	22	31,309	660	26,567	4,082	2.1	84.9	13.0	69,128,185	2,096,442	57,126,692	9,905,051	3.0	82.6	14.3				
Felt goods.....	1	46	2	5,230	.....	5,236	.....	.....	100.0	.....	39,229,540	.....	39,229,540	.....	.....	100.0	.....			
1914..	4	47	2	4,035	202	3,743	.....	7.2	92.8	.....	13,692,705	813,624	12,879,141	.....	5.9	94.1	.....			
Wool-felt hats.....	16	15	9	1,448	116	1,176	156	8.0	81.2	10.8	6,739,652	607,250	5,438,792	693,610	9.0	80.7	10.3				
1914..	12	8	10	1,249	62	820	358	5.0	66.4	28.7	1,944,484	111,090	1,205,727	627,667	5.7	62.0	32.3				
Connecticut ¹	2	44	1	8,132	² 193	7,939	.....	2.4	97.6	.....	53,814,059	² 1,073,532	52,740,527	.....	2.0	98.0	.....			
Indiana.....	1	7	3	948	.....	882	³ 66	.....	93.0	7.0	4,542,007	.....	4,213,436	³ 328,631	.....	92.8	.....			
Maine ¹	8	57	1	9,913	² 236	9,677	.....	2.4	97.6	.....	60,327,260	² 861,274	59,465,986	.....	1.4	98.6	.....			
Massachusetts ¹	10	164	27	58,084	1,374	52,904	3,740	2.4	91.2	6.4	369,506,496	7,965,097	335,035,177	23,506,222	2.2	91.4	6.4				
Michigan ⁴	2	7	.....	812	.....	² 812	.....	.....	.....	.....	4,571,704	.....	² 4,571,704	.....	.....	.....	.....
Minnesota ⁴	1	10	.....	574	.....	² 574	.....	.....	.....	.....	2,864,259	.....	² 2,864,259	.....	.....	.....	.....
New Hampshire.....	9	32	3	9,772	654	8,940	172	6.7	91.5	1.8	45,943,993	3,610,752	41,211,574	1,121,067	7.9	89.7	2.4				
New Jersey ⁵	3	29	3	14,782	4	13,685	1,093	(?)	92.0	7.4	102,302,296	21,924	95,250,285	7,021,087	(?)	93.1	6.9				
New York.....	7	53	8	18,800	90	17,812	898	0.5	94.7	4.8	100,401,524	539,704	95,179,060	4,632,070	0.6	94.8	4.6				
Ohio ⁷.....	.....	9	1	788	.....	² 786	.....	.....	.....	.....	3,385,985	.....	² 3,385,985	.....	.....	.....	.....
Pennsylvania.....	59	145	65	30,930	2,099	24,627	4,210	6.8	79.6	13.6	217,598,984	15,816,943	199,330,732	32,450,709	7.3	77.8	14.9				
Rhode Island ⁴	11	74	3	24,393	1,060	23,145	179	4.4	94.0	0.7	175,312,358	6,343,652	167,974,848	993,858	3.6	95.8	0.6				
Tennessee.....	1	8	4	1,866	.....	1,098	² 278	.....	70.6	20.4	4,242,057	.....	3,700,257	² 535,800	.....	87.4	12.6				
Vermont.....	3	13	2	3,031	² 233	2,798	.....	7.7	92.3	.....	17,425,823	² 1,073,160	16,352,673	.....	6.2	93.8	.....			
Virginia.....	3	8	1	630	² 17	613	.....	2.7	97.3	.....	2,003,142	² 47,315	2,045,827	.....	1.8	98.2	.....			
Wisconsin ⁶	7	14	3	1,070	44	804	222	4.1	75.1	20.7	5,495,393	308,601	4,200,627	917,045	5.6	77.7	16.7				

¹ Excludes statistics for 2 establishments to avoid disclosing individual operations.² Includes the group "All others."³ Includes the group "Individuals."⁴ Excludes statistics for 1 establishment to avoid disclosing individual operations.⁵ Excludes statistics for 5 establishments to avoid disclosing individual operations.⁶ Less than one-tenth of 1 per cent.⁷ Excludes statistics for 6 establishments to avoid disclosing individual operations.⁸ Excludes statistics for 3 establishments to avoid disclosing individual operations.

WOOL MANUFACTURES.

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TABLE 11.—NUMBER AND HORSEPOWER OF TYPES OF PRIME MOVERS: 1919, 1914, AND 1909.

POWER.	NUMBER OF ENGINES OR MOTORS.			HORSEPOWER.					
	1919	1914	1909	Amount.			Per cent distribution.		
				1919	1914	1909	1919	1914	1909
Primary power, total.....	10,361	4,953	3,032	525,757	442,330	400,762	100.0	100.0	100.0
Owned.....	1,819	2,090	2,412	435,423	401,268	377,176	82.8	90.7	94.1
Steam.....	1,119	1,307	1,507	352,447	318,206	292,044	67.0	71.9	72.9
Engines.....	1,017	(1)	(1)	230,900	(1)	(1)	43.9	—	—
Turbines.....	102	(1)	(1)	121,547	(1)	(1)	23.1	—	—
Internal-combustion engines.....	49	58	61	1,882	2,673	2,577	0.4	0.6	0.6
Water wheels, turbines, and motors.....	651	725	844	81,094	80,389	82,555	15.4	18.2	20.6
Rented.....	8,542	2,863	620	90,334	41,062	23,586	17.2	9.3	5.9
Electric.....	8,542	2,863	620	87,494	34,206	16,492	16.6	7.7	4.1
Other.....	—	—	—	2,840	6,856	7,094	0.5	1.6	1.8
Electric.....	22,053	10,025	3,331	264,437	169,495	90,129	100.0	100.0	100.0
Rented.....	8,512	2,863	620	87,494	34,206	16,492	33.1	20.2	18.3
Generated by establishments reporting.....	13,541	7,162	3,311	176,943	135,289	73,637	66.9	79.8	81.7

¹ Not reported separately.

TABLE 12.—FUEL CONSUMED, BY STATES: 1919 AND 1914.

STATE	Census year.	COAL.					Gas (1,000 cubic feet).	STATE.	Census year.	COAL.					Gas (1,000 cubic feet).
		Anthracite (tons, 2,240 lbs.).	Bituminous (tons, 2,000 lbs.).	Coke (tons, 2,000 lbs.).	Fuel oils (barrels).	Gasoline and other volatile oils (barrels).				Anthracite (tons, 2,240 lbs.).	Bituminous (tons, 2,000 lbs.).	Coke (tons, 2,000 lbs.).	Fuel oils (barrels).	Gasoline and other volatile oils (barrels).	
United States.....	1919	269,962	1,858,062	3,881	846,206	22,987	67,091	New Jersey.....	¹ 1919	118,638	106,607	—	1,201	254	2,184
	1914	332,200	1,802,629	1,524	44,940	(1)	77,887		¹ 1914	142,767	28,306	—	1,372	(1)	926
Connecticut.....	² 1919	1,037	79,518	—	15,492	50	—	New York.....	1919	25,458	244,313	885	1	89	3,283
	² 1914	7,038	75,677	510	452	(1)	456		1914	31,152	220,232	20	65	(1)	6,890
Georgia.....	³ 1919	—	6,400	—	—	—	—	Ohio.....	⁴ 1919	—	8,823	1,500	—	—	—
	⁴ 1914	—	7,663	—	70	(1)	—		² 1914	—	31,731	—	—	—	930
Illinois.....	² 1919	—	8,998	—	—	—	30	Oregon.....	⁴ 1919	—	1,186	—	17,851	—	—
	² 1914	—	6,499	—	—	—	115		1914	—	520	—	17,668	(1)	—
Indiana.....	1919	888	16,296	—	—	22	—	Pennsylvania.....	1919	56,310	262,223	861	3,205	137	7,798
	⁴ 1914	—	16,081	—	4	(1)	—		1914	84,401	217,463	32	2,246	(1)	36,545
Kentucky.....	1919	—	4,514	—	20	2	—	Rhode Island.....	⁴ 1919	4,161	182,486	—	270,975	14	1,320
	1914	—	0,195	—	—	—	—		⁴ 1914	0,906	225,938	118	—	—	—
Louisiana.....	1919	—	—	14	—	—	650	Tennessee.....	1919	—	10,291	—	—	130	—
Maine.....	² 1919	8,086	89,947	—	18,533	309	—		1914	—	10,607	—	26	(1)	—
	² 1914	2,239	89,270	—	54	(1)	—	Vermont.....	⁴ 1919	102	35,286	—	—	—	—
Maryland.....	1919	335	2,640	—	—	—	—		1914	180	32,936	414	—	—	—
Massachusetts.....	² 1919	20,107	567,013	509	465,018	21,752	947	Virginia.....	1919	—	5,883	—	128	42	—
	² 1914	29,327	677,325	322	7,233	(1)	10,711	West Virginia.....	1919	—	5,392	—	—	—	19,993
Michigan.....	⁴ 1919	40	11,641	—	—	—	—	Wisconsin.....	⁴ 1919	3	11,820	—	—	77	53
	1914	10	9,183	—	58	(1)	—		⁴ 1914	—	12,454	—	66	(1)	91
Minnesota.....	⁴ 1919	—	5,946	—	—	—	—	All other states.....	1919	4,529	91,961	18	20,752	88	30,833
	⁴ 1914	717	3,112	—	87	(1)	—		1914	21,903	42,950	16	14,630	(1)	21,193
New Hampshire.....	1919	24,218	98,508	96	3,030	21	—								
	1914	2,560	85,528	92	909	(1)	—								

¹ Included in figures for fuel oils.

² Excludes statistics for 2 establishments to avoid disclosing individual operations.

³ Excludes statistics for 3 establishments to avoid disclosing individual operations.

⁴ Excludes statistics for 1 establishment to avoid disclosing individual operations.

⁵ Excludes statistics for 5 establishments to avoid disclosing individual operations.

⁶ Excludes statistics for 6 establishments to avoid disclosing individual operations.

SPECIAL STATISTICS.

MATERIALS.

Summary of materials for the United States.—Table 13 presents statistics for the quantity and cost of the principal materials used in wool manufactures during 1919, 1914, 1909, and 1904.

Principal materials used in the industry, by states.—A distribution, by states, of the principal materials used in wool manufactures is shown for a number of census years in Table 14.

TABLE 13.—PRINCIPAL MATERIALS USED IN WOOL MANUFACTURES: 1919, 1914, 1909, AND 1904.

MATERIAL.	QUANTITY.				COST.				PER CENT OF INCREASE, ¹ 1909-1919.	
	1919	1914	1909	1904	1919	1914	1909	1904	Quantity.	Cost.
	Pounds.	Pounds.	Pounds.	Pounds.						
Total.....					\$750,193,319	\$208,063,498	\$322,441,043	\$242,561,096		135.5
Wool:										
In condition purchased.....	491,728,475	502,857,333	552,503,710	483,520,005	329,000,503	122,909,821	152,750,833	119,748,770	-11.1	115.4
Domestic.....	253,838,421	277,588,101	320,530,329	330,963,563	177,495,134	67,480,811	88,243,931	82,073,949	-20.8	101.1
Foreign.....	237,890,054	225,269,232	231,973,381	152,556,532	151,505,429	55,423,010	64,506,902	37,674,830	2.6	134.9
Equivalent in scoured condition.....	295,388,119	307,705,932	352,478,605	282,194,618					-16.2	
Hair.....	54,340,349	44,131,227	38,707,738	43,485,426	10,370,627	6,660,411	4,045,809	4,423,593	40.4	304.6
Camel, alpaca, and vicuña.....	3,392,021	0,619,750	4,097,393	1,578,800	3,594,171	1,750,874	1,423,032	320,280	-28.4	152.5
Mohair.....	12,271,614	0,374,841	3,241,342	5,620,196	7,050,259	3,026,147	1,003,792	1,917,300	278.6	603.3
Domestic.....	7,548,790	0,028,022	2,453,984	2,084,573	(*)	2,058,201	624,579	839,731	207.6	
Foreign.....	4,722,724	2,446,219	787,358	2,035,623	(*)	907,946	379,213	1,077,629	499.8	
Other animal hair and fur.....	38,706,214	28,136,636	30,769,003	36,286,430	5,717,197	1,883,390	1,618,885	2,185,953	25.8	253.3
Cotton.....	22,082,635	35,307,083	26,546,861	36,593,401	7,815,488	3,882,900	3,204,526	4,541,219	-14.6	143.9
Domestic.....	17,209,101	28,676,781	23,559,023	32,850,801	5,680,087	2,849,094	2,729,226	4,001,333	-26.6	108.1
Foreign.....	5,383,534	6,630,302	2,987,238	3,742,600	2,135,401	1,033,806	475,300	539,881	80.2	349.3
Cotton, dyed, bleached, carded, and other prepared and cotton waste.....	17,815,143	(*)	(*)	(*)	4,079,446	(*)	(*)	(*)		
Rags, clippings, etc.....	48,799,746	62,083,016	42,044,854	81,059,536	12,024,710	4,054,159	2,035,344	5,748,070	16.1	309.7
Recovered wool fiber.....	37,532,275	30,168,915	24,877,557	35,782,056	14,895,473	4,016,382	3,387,155	4,833,949	50.9	339.8
Waste and nolls of wool, mohair, camel hair, etc.....	51,481,261	50,350,387	35,361,846	30,441,941	33,286,590	10,616,633	9,017,963	9,969,557	45.6	235.6
Wool waste and nolls.....	49,305,632	46,816,398	34,581,498	29,359,788	31,895,967	9,929,782	9,776,634	9,657,841	42.6	226.2
Mohair, camel, alpaca, and vicuña nolls.....	2,175,629	3,533,989	780,348	1,082,153	1,390,622	686,851	141,329	311,716	178.8	834.0
Tops, purchased.....	26,466,973	29,177,790	21,103,510	10,843,036	45,621,904	16,707,322	14,755,409	5,879,333	25.4	209.2
Yarns, purchased.....	171,014,004	214,451,204	231,389,792	203,079,701	187,931,653	80,468,752	90,017,898	59,904,637	-25.7	108.8
Woolen.....	25,769,406	23,802,234	26,640,000	38,181,488	24,231,203	6,998,141	5,694,388	9,270,833	-3.3	333.1
Worsted.....	47,126,070	62,895,372	70,441,520	42,403,705	114,030,830	49,254,606	61,622,616	30,399,756	-33.1	86.5
Merino.....	1,009,023	706,483	2,672,012	3,618,407	2,186,201	203,825	427,520	770,627	-39.8	411.4
Mohair.....	1,113,085	(*)	(*)	(*)	980,292	(*)	(*)	(*)		
Cotton.....	46,030,351	56,988,320	65,598,854	60,420,356	30,077,134	13,775,052	15,320,692	12,806,381	-20.8	96.2
Silk and spun silk.....	542,587	704,093	479,876	488,326	4,559,466	2,658,673	1,464,834	1,862,336	13.2	209.9
Silk.....	94,333	270,002	125,122	202,678	806,599	1,155,250	675,124	947,787	-26.4	82.8
Spun silk.....	448,254	514,791	351,254	285,748	3,642,867	1,503,414	789,710	914,549	27.6	361.3
Artificial silk.....	39,990	(*)	(*)	(*)	213,400	(*)	(*)	(*)		
Linen.....	2,266,500	7,611,078	8,807,329	8,262,520	1,070,771	1,424,622	1,620,751	1,368,145	-73.9	-83.4
Jute, ramie, and other vegetable fiber.....	47,389,342	61,653,015	56,740,782	49,705,980	9,681,260	6,152,933	3,958,088	3,420,515	-16.5	144.6
Wool hat bodies and hats in the rough.....	72,213	13,449	21,864	12,089	573,925	26,646	83,020	25,997	230.3	591.3
All other materials, including cost of fuel and rent of power.....					107,592,931	47,820,472	41,343,086	30,985,962		180.2

¹ A minus sign (—) denotes decrease.

* Not reported separately.

WOOL MANUFACTURES.

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TABLE 14.—PRINCIPAL MATERIALS USED IN WOOL MANUFACTURES, BY STATES: 1919, 1914, 1909, AND 1904.

MATERIAL AND STATE.	POUNDS.				COST.			
	1919	1914	1909	1904	1919	1914	1909	1904
Wool:								
In condition purchased.....	491,728,475	502,857,333	552,503,710	483,526,095	\$329,000,563	\$122,909,821	\$152,750,833	\$119,748,779
Connecticut.....	11,707,319	9,005,960	10,172,622	12,705,250	12,088,719	2,850,562	3,767,739	3,844,374
Maine.....	11,845,905	8,963,005	13,115,532	15,114,848	11,582,093	3,149,093	4,863,487	5,003,956
Massachusetts.....	163,204,869	165,039,067	167,093,061	139,798,092	108,043,388	40,325,696	47,193,010	36,508,293
New Hampshire.....	21,728,587	17,131,490	22,734,062	18,008,958	14,844,902	4,865,530	7,011,493	(b)
New Jersey.....	49,577,494	50,400,202	44,022,157	37,944,206	29,728,758	11,883,474	11,826,250	6,968,728
New York.....	49,629,245	60,420,225	62,829,067	49,008,834	27,162,246	13,158,906	14,719,116	11,534,048
Pennsylvania.....	78,898,288	84,879,429	107,044,311	99,306,459	49,675,646	20,071,113	28,309,853	22,589,076
Rhode Island.....	58,637,082	62,627,429	79,082,314	66,069,085	43,275,967	15,412,556	22,705,723	16,907,448
All other states.....	40,939,686	44,389,026	44,003,684	44,309,703	32,598,944	11,192,891	12,291,162	16,392,856
Domestic:								
Connecticut.....	253,838,421	277,588,101	320,530,320	330,963,563	177,495,134	67,486,811	88,243,931	82,073,949
Maine.....	6,703,814	7,924,204	9,084,587	11,831,199	7,093,150	2,492,498	3,474,052	3,523,049
Massachusetts.....	6,994,166	6,752,924	9,575,975	12,390,314	7,409,122	2,518,091	3,585,232	4,160,873
New Hampshire.....	74,574,826	85,349,530	96,288,287	82,006,872	50,351,935	20,022,913	25,064,325	23,808,548
New Jersey.....	10,743,702	5,818,251	12,027,487	13,998,513	8,238,532	1,721,846	3,383,625	(b)
New York.....	28,173,174	32,602,750	31,109,309	33,963,274	15,418,034	7,002,031	6,890,455	5,638,501
Pennsylvania.....	16,386,076	25,051,729	22,362,412	22,456,770	11,920,744	5,826,676	6,754,854	5,769,932
Rhode Island.....	46,483,033	46,811,154	56,781,645	52,605,952	30,238,738	10,957,850	15,074,908	12,711,189
All other states.....	18,114,858	43,362,801	58,108,445	56,776,005	27,357,583	10,185,240	15,468,437	13,804,403
Foreign:								
Connecticut.....	237,890,054	225,269,232	231,973,381	152,562,532	151,505,429	55,423,010	64,506,902	37,674,830
Maine.....	5,003,505	1,081,756	1,088,035	934,051	4,995,569	358,064	230,857	321,325
Massachusetts.....	4,361,739	2,210,081	3,539,557	2,724,534	4,172,971	631,002	1,278,255	843,083
New Hampshire.....	88,690,043	79,690,137	71,726,674	47,791,820	57,691,453	20,302,783	21,528,685	12,669,745
New Jersey.....	10,084,885	11,313,239	10,706,575	4,610,445	6,606,370	3,143,684	3,027,868	(b)
New York.....	21,404,320	17,797,452	13,812,848	3,980,932	14,310,724	4,881,443	4,929,765	1,330,227
Pennsylvania.....	33,242,269	35,368,496	40,466,655	27,152,064	7,332,230	7,964,262	7,964,262	5,764,116
Rhode Island.....	32,415,255	39,088,275	50,262,666	40,700,507	19,436,808	9,113,263	12,034,945	8,205,686
All other states.....	20,522,224	19,274,628	20,973,869	9,293,080	15,918,384	5,227,316	7,300,286	3,103,045
Equivalent in scoured condition:								
Connecticut.....	295,388,119	307,705,932	352,478,605	282,194,618	.....	.....	.....	.....
Maine.....	1,962,788	6,386,974	2,704,156	2,205,794	.....	.....	.....	.....
Massachusetts.....	10,227,991	7,251,670	10,221,289	11,016,422	.....	.....	.....	.....
New Hampshire.....	100,078,489	99,914,078	108,243,103	83,517,768	.....	.....	.....	.....
New Jersey.....	13,875,687	12,551,304	13,793,500	(b)	.....	.....	.....	.....
New York.....	26,037,661	28,471,130	22,914,674	(b)	.....	.....	.....	.....
Pennsylvania.....	28,550,910	37,448,054	45,637,550	27,823,052	.....	.....	.....	.....
Rhode Island.....	44,104,079	54,320,916	60,864,549	60,609,266	.....	.....	.....	.....
All other states.....	18,042,303	31,499,327	43,153,225	36,551,598	.....	.....	.....	.....
Hair: Mohair and camel, alpaca, vicuna, and all other animal hair and fur:								
Maine.....	54,340,340	44,131,227	38,707,738	43,485,426	16,370,627	6,660,411	4,045,809	4,423,593
Massachusetts.....	4,643,969	3,800,538	2,657,327	2,127,980	2,585,135	994,714	562,814	477,768
New Jersey.....	10,844,803	5,399,163	3,776,452	4,847,564	4,335,794	1,710,701	1,100,038	1,242,651
New York.....	4,892,977	1,610,842	2,730,077	361,220	760,394	121,011	91,367	39,550
Pennsylvania.....	5,345,661	5,437,285	6,611,888	2,310,985	2,350,780	747,981	819,792	275,673
Rhode Island.....	13,539,537	17,128,417	20,571,702	30,582,588	2,440,360	1,583,514	1,032,196	1,807,059
All other states.....	15,073,402	10,764,982	2,260,292	3,255,089	3,898,174	1,502,490	439,135	581,592
Cotton:								
Connecticut.....	22,082,035	35,307,083	26,546,861	36,593,401	7,815,488	3,882,900	3,204,526	4,541,219
Maine.....	1,361,195	964,877	558,585	1,504,567	1,128,768	1,125,445	82,852	175,622
Massachusetts.....	3,295,408	2,933,786	1,986,953	3,132,243	1,145,362	397,758	253,408	431,692
New Hampshire.....	5,084,568	10,814,793	10,143,678	9,856,972	1,883,328	1,263,958	1,237,820	1,306,313
New Jersey.....	963,908	2,290,290	459,543	(b)	342,511	270,495	78,358	(b)
New York.....	110,518	228,378	625,301	625,301	.....	8,968	26,541	69,456
Pennsylvania.....	2,788,568	3,486,922	2,472,801	2,724,025	838,008	325,971	255,039	350,838
Rhode Island.....	2,913,106	7,285,788	5,017,001	5,659,285	790,542	626,466	538,262	625,052
All other states.....	383,396	964,914	579,139	1,847,509	179,402	141,648	96,882	290,491
Recovered wool fiber:								
Connecticut.....	37,532,275	30,158,915	24,877,557	35,782,056	14,895,473	4,018,382	3,387,155	4,833,949
Maine.....	19,009,777	1,569,619	1,593,181	2,457,223	1,969,117	245,792	295,442	823,976
Massachusetts.....	8,397,618	4,430,564	4,094,185	4,114,911	3,418,876	671,242	484,770	602,176
New Hampshire.....	11,120,116	5,853,328	3,687,530	8,398,940	3,980,880	692,537	547,990	1,030,990
New Jersey.....	2,177,238	2,202,861	990,526	2,231,909	637,359	249,611	140,626	275,609
New York.....	2,436,905	6,780,133	5,419,245	7,346,250	1,125,020	706,934	550,473	904,165
Pennsylvania.....	11,453,951	1,720,113	1,546,464	4,273,269	583,717	269,621	259,829	631,450
Rhode Island.....	8,031,370	7,602,267	7,546,426	6,959,554	3,180,504	1,180,645	1,107,725	1,067,583
Waste and noils of wool, mohair, camel hair, etc:								
Connecticut.....	51,481,261	50,350,387	35,361,846	30,441,941	33,286,599	10,618,633	9,917,963	6,969,557
Maine.....	1,980,989	1,963,136	1,871,548	2,263,438	1,113,999	516,396	466,078	517,193
Massachusetts.....	6,102,141	4,564,425	2,380,110	1,850,639	1,212,831	893,273	716,536	427,032
New Hampshire.....	16,582,931	10,959,863	9,996,811	8,935,753	10,806,415	2,657,705	2,662,110	2,314,666
New Jersey.....	2,109,877	6,160,433	1,586,752	973,898	1,436,083	1,227,340	557,593	246,702
New York.....	4,167,529	4,983,209	4,413,834	3,214,128	2,977,754	1,089,584	1,231,700	736,555
Pennsylvania.....	3,749,360	8,930,422	5,858,435	4,384,062	4,035,028	1,669,422	1,463,775	671,882
Rhode Island.....	3,743,082	2,075,203	2,578,085	3,160,612	3,314,047	471,491	839,389	880,816
All other states.....	9,985,833	10,723,696	6,676,271	5,659,411	6,390,402	2,091,416	1,950,782	1,174,711
Tops, purchased:								
Massachusetts.....	26,466,973	29,177,790	21,103,510	10,843,036	45,621,944	16,707,322	14,755,409	5,379,333
Pennsylvania.....	6,700,376	9,110,710	5,039,116	2,999,927	11,439,860	4,674,310	3,461,319	1,605,067
Rhode Island.....	2,400,310	4,029,376	2,445,813	1,273,118	3,935,747	2,288,774	1,530,899	595,512
All other states.....	12,085,309	10,221,069	10,406,834	4,150,072	22,798,538	6,516,959	7,887,543	2,455,639
	5,124,972	5,810,635	3,211,747	2,419,919	7,448,209	2,927,249	1,875,648	723,115

1 Excludes statistics for 1 establishment to avoid disclosing individual operations.

2 Excludes statistics for 2 establishments to avoid disclosing individual operations.

3 Excludes statistics for 3 establishments to avoid disclosing individual operations.

4 Excludes statistics for 4 establishments to avoid disclosing individual operations.

5 Excludes statistics for 5 establishments to make figures comparable with those for 1914 and 1904. These are included in "All other states."

6 Figures not available.

7 Includes all establishments which can not be shown without disclosing individual operations.

TABLE 14.—PRINCIPAL MATERIALS USED IN WOOL MANUFACTURES, BY STATES: 1919, 1914, 1909, AND 1904—Continued.

MATERIAL AND STATE.	POUNDS.				COST.			
	1919	1914	1909	1904	1919	1914	1909	1904
Yarns, purchased.	171,014,904	214,451,204	231,389,702	203,070,701	\$187,931,653	\$80,468,752	\$80,017,898	\$59,904,637
Connecticut.....	4,239,473	5,778,136	6,372,748	4,593,783	9,999,201	4,431,030	6,056,001	3,186,754
Maine.....	13,749,882	3,631,773	3,424,063	3,670,867	2,020,248	1,206,335	1,610,516	1,751,413
Massachusetts.....	36,417,315	44,334,079	46,077,736	32,206,465	48,463,095	22,026,410	24,461,745	13,249,978
New Hampshire.....	1,182,461	1,526,765	1,749,048	(b)	736,379	458,770	729,652	(c)
New Jersey.....	11,749,327	11,654,345	10,125,494	9,926,904	18,510,801	7,002,308	6,777,696	1,932,252
New York.....	31,686,613	44,743,528	44,326,490	38,741,798	10,403,540	7,026,393	6,528,630	5,406,497
Pennsylvania.....	58,078,206	70,322,421	88,523,601	87,267,024	55,573,372	22,004,499	26,776,438	20,658,735
Rhode Island.....	14,484,856	17,520,845	19,267,818	17,766,202	32,016,678	12,831,499	13,915,166	10,889,616
All other states ^a	10,926,771	14,030,282	11,518,294	11,856,148	9,307,340	2,821,508	3,162,059	2,826,692
Woolen.	25,759,499	23,802,234	26,649,069	38,181,488	24,231,203	6,008,141	5,594,388	9,270,883
Massachusetts.....	3,315,090	3,980,000	1,534,135	1,402,016	4,102,542	1,085,094	268,683	699,514
New Jersey.....	2,642,841	1,114,305	768,495	1,036,163	2,022,393	423,908	274,219	260,008
New York.....	1,582,377	762,865	691,413	4,280,001	898,125	242,260	219,976	497,883
Pennsylvania.....	10,820,854	17,118,410	22,463,957	27,380,884	14,490,904	5,900,066	4,412,546	5,732,135
All other states ^a	1,488,338	820,528	1,191,009	4,072,424	1,817,329	346,753	418,064	1,635,443
Worsted.	47,126,670	62,805,372	70,441,520	42,403,705	114,936,830	49,254,606	61,622,616	30,309,750
Connecticut.....	3,508,193	4,101,902	5,113,219	2,558,069	9,504,369	3,800,284	5,620,008	2,488,109
Massachusetts.....	14,735,188	19,458,214	21,470,242	11,130,612	32,528,840	15,324,771	18,023,644	8,168,150
New Jersey.....	5,229,670	7,060,772	6,240,943	1,307,443	14,044,623	5,988,147	6,011,147	956,267
New York.....	1,127,777	2,315,603	3,050,833	1,971,882	1,800,828	1,810,225	2,006,843	1,038,396
Pennsylvania.....	9,450,434	14,004,345	18,088,381	12,897,864	25,314,242	10,679,197	14,461,212	7,558,994
Rhode Island.....	11,790,315	14,907,573	13,403,194	10,382,578	28,729,209	11,422,456	11,987,111	8,069,611
All other states ^a	1,186,087	980,813	3,074,758	2,154,657	2,948,710	723,526	2,003,056	1,581,883
Merino.	1,009,023	706,483	2,672,012	3,618,407	2,186,201	203,825	427,529	770,627
Pennsylvania.....	1,304,121	352,555	2,242,312	2,815,943	1,733,327	106,543	309,803	506,800
All other states ^a	304,902	353,928	429,700	802,464	452,874	97,282	117,726	263,767
Mohair.	1,113,035	(b)	(b)	(b)	980,292	(b)	(b)	(b)
Massachusetts.....	52,857	(b)	(b)	(b)	93,510	(b)	(b)	(b)
Pennsylvania.....	834,858	(b)	(b)	(b)	552,583	(b)	(b)	(b)
Rhode Island.....	64,314	(b)	(b)	(b)	109,323	(b)	(b)	(b)
All other states ^a	161,006	(b)	(b)	(b)	230,870	(b)	(b)	(b)
Cotton.	46,030,351	59,988,329	65,598,854	60,420,356	30,077,134	13,775,952	15,329,092	12,896,381
Connecticut.....	641,280	1,477,480	1,183,956	1,689,875	434,922	339,935	291,770	2,887,894
Maine.....	13,749,882	3,443,361	2,449,258	2,005,774	2,020,248	1,113,711	813,080	904,875
Massachusetts.....	16,024,251	14,764,361	15,425,293	12,756,690	9,892,865	4,222,281	4,212,147	3,215,662
New Hampshire.....	1,182,461	1,355,139	1,183,080	(b)	736,379	357,337	277,096	(b)
New Jersey.....	2,087,080	1,290,906	1,702,805	2,108,820	926,702	260,000	345,482	490,361
New York.....	5,892,870	8,736,856	7,589,373	5,739,638	2,829,045	1,822,550	1,442,375	1,120,404
Pennsylvania.....	12,372,351	18,816,137	26,354,704	24,488,354	8,222,562	3,840,400	5,476,389	4,451,736
Rhode Island.....	2,521,128	2,369,712	5,470,701	2,500,723	2,217,868	784,833	1,580,130	1,891,592
All other states ^a	2,568,042	4,734,377	4,220,084	5,983,673	1,895,643	1,085,206	940,623	1,264,527
Silk and spun silk.	542,587	794,693	479,370	488,326	4,539,466	2,658,673	1,464,834	1,862,336
Massachusetts.....	134,364	201,210	104,861	140,673	1,072,161	657,507	369,504	549,051
New Jersey.....	40,904	22,721	0,122	6,856	266,640	101,933	31,284	18,227
New York.....	4,088	10,567	15,413	21,018	43,912	30,404	53,093	61,627
Pennsylvania.....	171,860	350,966	240,038	120,182	1,554,292	1,001,300	536,860	450,885
Rhode Island.....	100,090	110,569	45,667	137,455	980,278	530,570	222,473	673,564
All other states ^a	81,612	93,331	61,375	51,100	652,183	330,876	194,620	211,972
Artificial silk.	39,090	(b)	(b)	(b)	218,400	(b)	(b)	(b)
Massachusetts.....	6,848	(b)	(b)	(b)	37,299	(b)	(b)	(b)
Pennsylvania.....	16,258	(b)	(b)	(b)	101,107	(b)	(b)	(b)
All other states ^a	15,984	(b)	(b)	(b)	74,994	(b)	(b)	(b)
Linen.	2,295,500	7,611,078	8,807,829	8,252,529	1,079,771	1,424,622	1,620,751	1,868,145
Massachusetts.....	210,134	944,122	1,105,590	1,638,434	85,596	183,500	215,556	255,555
New York.....	838,802	3,750,272	4,863,864	5,049,740	405,745	675,801	800,837	819,971
Pennsylvania.....	527,210	1,430,450	1,483,096	1,239,088	248,070	280,865	285,481	220,776
All other states ^a	719,283	1,480,225	1,260,770	381,416	342,354	284,456	252,877	71,848
Jute, ramie, and other vegetable fiber.	47,389,342	61,653,015	59,749,732	49,705,980	0,081,206	0,152,933	3,953,088	3,428,515
Massachusetts.....	2,937,677	4,789,631	6,314,491	5,084,250	653,173	502,408	408,588	346,345
New Jersey.....	1,848,760	2,087,281	1,852,412	2,406,587	660,443	218,885	105,193	171,613
New York.....	21,640,033	29,096,107	27,857,594	21,408,311	4,418,994	2,922,044	1,881,506	1,891,661
Pennsylvania.....	16,559,254	18,244,249	17,045,163	18,325,514	3,356,279	1,787,020	1,234,142	1,537,999
All other states ^a	4,403,612	7,451,747	8,571,072	2,480,318	892,377	722,567	298,659	178,894

¹ Excludes statistics for 1 establishment to avoid disclosing individual operations.² Excludes statistics for 3 establishments to avoid disclosing individual operations.³ Excludes statistics for 2 establishments to avoid disclosing individual operations.⁴ Excludes statistics for 5 establishments to make figures comparable with those for 1914 and 1904. These are included in "All other states."⁵ Figures not available.⁶ Includes all establishments which can not be shown without disclosing individual operations.

Principal fibers used in the industry.—The quantity in pounds of the different kinds of fiber used in wool manufactures is shown in Table 15 for 1919, 1914, 1909, and 1904.

TABLE 15.—PRINCIPAL FIBERS USED IN WOOL MANUFACTURES: 1919, 1914, 1909, AND 1904.

MATERIAL.	1919	1914	1909	1904
	Pounds.	Pounds.	Pounds.	Pounds.
Total.....	430,322,300	458,090,500	475,550,394	468,857,495
Scoured wool.....	295,388,119	307,705,932	352,478,005	282,194,618
Mohair, and camel, alpaca, and vicuña hair.....	15,634,135	15,994,591	7,938,735	7,198,996
Other animal hair and fur.....	38,700,214	28,136,030	30,769,003	30,285,430
Recovered wool fiber.....	57,911,197	70,946,294	57,823,190	100,584,050
Purchased.....	37,532,275	30,158,915	24,877,557	35,782,056
Made for own consumption.....	20,378,922	40,787,349	32,945,633	70,801,994
Cotton.....	22,082,035	35,307,083	20,546,861	36,593,401
Per cent of total.....	100.0	100.0	100.00	100.0
Scoured wool.....	68.6	67.2	74.1	60.2
Mohair, and camel, alpaca, and vicuña hair.....	3.6	3.5	1.7	1.5
Other animal hair.....	9.0	6.1	6.5	7.7
Recovered wool fiber.....	13.5	15.5	12.2	22.7
Purchased.....	8.7	6.6	5.2	7.6
Made for own consumption.....	4.8	8.9	6.9	15.1
Cotton.....	5.3	7.7	5.6	7.8
Scoured wool and recovered wool fiber, total.....	353,299,316	378,052,196	410,301,795	388,778,668
Per cent of total.....	100.0	100.0	100.0	100.0
Scoured wool.....	83.6	81.3	85.9	72.6
Recovered wool fiber.....	16.4	18.7	14.1	27.4
Purchased.....	10.6	7.9	6.1	9.2
Made for own consumption.....	5.8	10.8	8.0	18.2

Consumption of wool, in grease, washed, and scoured.—Table 16 gives, for 1919, the quantity in pounds of wool purchased for consumption, according to the condition purchased, and the manufacturers' estimate of the equivalent total for the same in the grease and scoured.

TABLE 16.—WOOL USED IN WOOL MANUFACTURES, BY INDUSTRIES: 1919.

	Total wool manufactures.	Woolen goods.	Worsted goods.	Carpets and rugs.	Felt goods.	Wool-felt hats.
	Pounds.	Pounds.	Pounds.	Pounds.	Pounds.	Pounds.
Wool purchased.....	491,728,475	105,792,290	337,609,614	36,251,904	11,804,373	200,294
Domestic.....	253,838,421	63,859,091	181,971,185	395,875	7,496,756	115,514
Foreign.....	237,890,054	41,933,199	155,698,429	35,866,029	4,307,617	84,780
In condition purchased:						
In grease.....	402,824,721	36,735,257	329,050,363	31,816,675	5,211,991	10,435
Domestic.....	201,276,306	20,055,649	177,956,382	324,247	2,929,593	10,435
Foreign.....	201,548,415	16,679,608	151,093,981	31,492,428	2,282,398	.....
Washed.....	10,136,700	2,225,277	4,662,763	2,378,592	870,068	.....
Domestic.....	2,731,391	257,102	1,975,214	40,573	458,472	.....
Foreign.....	7,405,309	1,968,175	2,687,549	2,338,019	411,596	.....
Scoured.....	78,767,054	66,831,756	3,956,488	2,066,637	5,722,314	189,859
Domestic.....	49,830,754	43,546,340	2,039,589	31,055	4,108,691	105,079
Foreign.....	28,936,300	23,285,416	1,916,899	2,035,582	1,613,623	84,780
Equivalent total:						
In grease.....	567,202,771	167,980,843	342,633,044	38,896,665	17,303,947	385,272
Domestic.....	296,329,733	101,044,016	183,363,070	433,005	11,271,897	217,745
Foreign.....	270,873,038	66,936,827	159,272,974	38,463,660	6,032,050	167,527
Scoured.....	295,388,119	86,547,717	177,288,745	21,905,916	9,450,913	194,828
Domestic.....	148,760,651	53,249,971	88,963,108	248,900	6,188,624	110,048
Foreign.....	146,627,468	33,297,746	88,325,637	21,567,016	3,262,289	84,780

Wool consumed, by states.—The quantity and cost of wool consumed in 1919 by the several states engaged in wool manufactures is shown in Table 17.

TABLE 17.—WOOL USED IN WOOL MANUFACTURES, BY STATES: 1919.

	United States.	Connecticut. ¹	Maine. ¹	Massachusetts. ²	New Hampshire.	New Jersey.	New York.	Pennsylvania.	Rhode Island. ¹	All other states.
Wool purchased:										
Pounds.....	401,728,475	11,707,319	11,845,905	163,264,869	21,728,587	49,577,494	49,629,245	78,898,288	58,637,082	45,939,686
Cost.....	\$329,000,503	\$12,088,719	\$11,582,093	\$108,043,388	\$14,844,902	\$29,728,758	\$27,162,245	\$49,675,546	\$43,275,967	\$32,598,944
Domestic—										
Pounds.....	253,838,421	6,703,814	6,994,166	74,674,826	10,743,702	28,173,174	16,386,976	46,483,033	38,114,558	25,663,872
Cost.....	\$177,495,134	\$7,093,150	\$7,409,122	\$60,351,935	\$8,238,532	\$15,418,034	\$11,920,744	\$30,238,738	\$27,357,583	\$19,467,296
Foreign—										
Pounds.....	237,890,054	5,003,505	4,851,739	88,690,043	10,984,885	21,404,320	33,242,269	32,415,255	20,522,224	21,275,814
Cost.....	\$151,505,429	\$4,995,569	\$4,172,971	\$57,691,453	\$6,606,370	\$14,310,724	\$15,241,502	\$19,436,808	\$15,918,384	\$13,131,648
In condition purchased—										
In grease.....	402,824,721	3,965,135	3,029,505	136,480,855	15,163,594	47,219,107	43,059,488	71,774,628	53,096,273	29,036,076
Domestic.....	201,276,306	2,151,811	1,385,224	60,007,285	5,789,242	27,935,381	13,745,578	42,878,073	35,325,521	12,058,186
Foreign.....	201,548,415	1,813,374	1,644,281	76,473,570	9,374,352	19,283,726	29,313,915	28,896,555	17,770,752	16,977,890
Washed.....	10,136,700	.....	197	4,856,647	.....	915,944	2,375,474	1,217,992	56,569	713,877
Domestic.....	2,731,391	.....	197	2,021,028	.....	99,100	30,304	280,144	26,569	274,019
Foreign.....	7,405,309	.....	.....	2,835,619	.....	816,844	2,345,170	937,848	30,000	439,858
Scoured.....	78,767,054	7,742,134	8,316,203	21,927,357	6,564,993	1,442,443	4,194,283	5,905,668	5,484,240	17,189,733
Domestic.....	49,830,754	4,552,003	5,608,745	12,546,503	4,854,460	138,693	2,611,099	3,324,816	2,762,768	13,231,667
Foreign.....	28,936,300	3,190,131	2,707,458	9,380,854	1,610,533	1,308,750	1,583,184	2,580,852	2,721,472	3,958,066
Equivalent total—										
In grease.....	567,202,771	19,418,431	19,550,283	184,977,949	27,267,624	51,263,797	54,116,792	84,521,654	63,438,544	62,647,697
Domestic.....	296,329,733	10,870,444	11,920,590	84,946,985	14,667,985	28,385,837	18,642,545	49,382,026	40,175,503	37,337,768
Foreign.....	270,873,038	8,547,987	7,629,693	100,030,964	12,599,639	22,877,910	35,474,247	35,139,628	23,263,041	25,309,929
Scoured.....	295,388,119	9,562,788	10,227,991	100,078,489	13,875,887	28,037,661	28,550,910	44,164,079	30,642,303	32,248,211
Domestic.....	148,760,651	5,540,540	6,271,295	40,598,730	7,513,242	14,330,191	9,356,120	26,226,890	19,201,405	19,717,238
Foreign.....	146,627,468	4,022,248	3,956,696	59,479,759	6,362,645	11,707,470	19,194,790	17,937,189	11,440,898	12,530,973

¹ Excludes statistics for 1 establishment to avoid disclosing individual operations. These are included in "All other states."
² Excludes statistics for 2 establishments to avoid disclosing individual operations. These are included in "All other states."

Wool used in the industry during the 40 years prior to 1919.—Table 18 gives a review of the quantity of wool used in the industry as a whole and for each branch separately at each census year from 1879.

TABLE 18.—WOOL USED IN WOOL MANUFACTURES: 1919, 1914, 1909, 1904, 1899, 1889, AND 1879.

INDUSTRY AND YEAR.	QUANTITY, IN CONDITION PURCHASED (POUNDS).			PER CENT OF TOTAL.	
	Total.	Domestic.	Foreign.	Domestic.	Foreign.
WOOL MANUFACTURES:					
1919.....	491,728,475	253,838,421	237,890,054	51.6	48.4
1914.....	502,857,333	277,588,101	225,209,232	55.2	44.8
1909.....	552,503,710	320,530,320	231,973,381	58.0	42.0
1904.....	483,526,065	330,963,503	152,562,532	68.4	31.6
1899.....	394,369,523	257,934,502	136,434,961	65.4	34.6
1889.....	351,158,020	239,775,712	111,382,303	68.3	31.7
1879.....	287,597,334	214,845,304	72,751,940	74.7	25.3
WOOLEN GOODS:					
1919.....	105,792,200	63,850,091	41,933,109	60.4	39.6
1914.....	78,873,319	62,230,522	16,639,797	78.9	21.1
1909.....	87,037,951	73,514,204	13,523,747	84.5	15.5
1904.....	157,335,727	132,050,502	24,079,225	84.3	15.7
1899.....	150,200,016	127,078,062	22,521,954	85.0	15.0
1889.....	185,307,944	168,485,806	16,822,138	90.9	9.1
1879.....	197,524,955	177,012,288	20,482,667	89.6	10.4
WORSTED GOODS:					
1919.....	337,069,014	181,971,185	155,098,429	53.9	46.1
1914.....	355,854,750	204,397,808	151,456,888	57.4	42.6
1909.....	387,717,415	237,088,015	150,629,400	61.1	38.9
1904.....	261,308,084	187,143,988	74,224,096	71.6	28.4
1899.....	179,977,936	122,714,543	57,263,393	68.2	31.8
1889.....	97,701,474	59,832,451	37,869,023	61.2	38.8
1879.....	41,149,326	25,461,511	15,687,815	61.0	39.1
CARPETS AND RUGS:					
1919.....	36,261,904	305,875	35,896,029	1.1	98.9
1914.....	52,552,449	149,503	52,402,946	0.3	99.7
1909.....	64,135,020	231,413	63,903,607	0.4	99.6
1904.....	51,320,521	866,808	50,453,713	1.7	98.3
1899.....	51,871,334	109,811	51,761,523	0.2	99.8
1889.....	56,881,566	2,139,332	54,742,234	3.8	96.2
1879.....	36,037,570	2,029,318	34,008,252	5.6	94.4
FELT GOODS:					
1919.....	11,804,373	7,496,756	4,307,617	63.5	36.5
1914.....	14,939,852	10,511,057	4,428,795	70.2	29.8
1909.....	12,409,826	8,562,413	3,847,413	69.0	31.0
1904.....	11,898,238	8,779,197	3,089,041	74.0	26.0
1899.....	9,606,263	5,357,383	4,248,880	55.8	44.2
1889.....	6,720,083	5,030,495	1,689,588	74.9	25.1
1879.....	4,913,873	4,204,800	709,073	85.6	14.4
WOOL-FELT HATS:					
1919.....	200,204	115,514	84,780	57.7	42.3
1914.....	606,957	203,151	313,806	48.3	51.7
1909.....	1,203,498	1,134,224	69,274	94.2	5.8
1904.....	1,633,525	1,527,008	106,517	93.5	6.5
1899.....	2,713,374	2,074,163	639,211	76.4	23.6
1889.....	4,537,953	4,278,628	259,325	94.3	5.7
1879.....	7,971,610	6,107,471	1,864,139	76.6	23.4

Wool used in wool manufactures and other industries.—Statistics are presented in Table 19 with respect to the total quantity of wool consumed in this industry and other textile industries, according to states, in 1919.

Wool, and yarns of wool, consumed in textile mills.—Table 20 relates to the total consumption of wool, and yarns made from wool, consumed by all kinds of textile mills in the United States during 1919, 1914, 1909, and 1904.

TABLE 19.—WOOL USED IN WOOL MANUFACTURES AND IN THE KNIT-GOODS, COTTON-GOODS, AND WOOL-SHODDY INDUSTRIES: 1919.

STATE.	Foreign wool (in condition purchased).	Domestic wool (in condition purchased).	Equivalent of foreign and domestic wool in scoured condition.
	Pounds.	Pounds.	Pounds.
United States.....	238,710,827	257,724,007	299,692,775
Connecticut.....	11,965,599	7,106,377	13,944,961
Georgia.....		80,951	58,969
Illinois.....	221,816	1,983,703	1,322,316
Indiana.....	115,131	3,495,829	3,421,241
Kentucky.....	269,811	1,325,093	1,073,758
Maine.....	4,415,003	7,804,633	10,832,250
Massachusetts.....	88,795,908	75,207,671	100,785,000
Michigan.....	536,736	1,323,795	1,534,229
Minnesota.....	159,868	1,069,273	744,723
New Hampshire.....	11,002,824	10,764,068	14,003,992
New Jersey.....	21,404,320	28,173,174	26,037,661
New York.....	33,418,523	17,565,127	29,795,672
North Carolina.....	181,045	188,767	807,347
Ohio.....	9,405,096	4,006,120	7,715,307
Oregon.....	18,000	2,762,044	2,199,294
Pennsylvania.....	32,497,268	47,515,014	45,176,870
Rhode Island.....	20,622,224	38,221,576	30,849,021
Tennessee.....	38,773	933,279	728,650
Vermont.....	1,820,691	1,546,928	3,012,451
Virginia.....	231,805	870,870	735,045
Washington.....		486,180	421,780
West Virginia.....		1,053,755	807,068
Wisconsin.....	264,621	2,106,471	1,558,580
All other states.....	1,227,265	2,045,309	2,256,697

¹ All other states embrace: California, Delaware, Iowa, Maryland, Missouri, South Carolina, Texas, and Utah.

TABLE 20.—WOOL, AND YARNS OF WOOL, CONSUMED IN TEXTILE MILLS: 1919, 1914, 1909, AND 1904.

INDUSTRY.	1919	1914	1909	1904
	Pounds.	Pounds.	Pounds.	Pounds.
Wool (in condition purchased).....	490,434,834	510,008,799	559,850,995	501,463,203
Wool manufactures.....	491,728,475	502,857,333	552,503,710	483,526,065
Woolen goods.....	105,792,200	78,873,319	87,037,951	157,335,727
Worsted goods.....	337,069,014	355,854,750	387,717,415	281,368,084
Carpets and rugs.....	36,261,904	52,552,449	64,135,020	51,320,521
Felt goods.....	11,804,373	14,939,852	12,409,826	11,898,238
Wool-felt hats.....	200,204	606,957	1,203,498	1,633,525
Cotton goods.....	7,239		41,400	
Knit goods.....	4,518,068	6,947,595	7,068,788	17,800,016
Wool shoddy.....	181,052	203,868	237,097	597,492
Fur-felt hats.....				44,000
Wool (equivalent of above in scoured condition).....	200,602,775	313,082,057	358,208,941	296,569,254
Wool manufactures.....	295,888,119	307,705,932	352,478,605	282,194,618
Woolen goods.....	80,547,717	58,693,405	60,126,473	102,106,291
Worsted goods.....	177,288,745	198,765,341	230,580,497	139,173,774
Carpets and rugs.....	21,065,916	30,218,831	51,474,853	31,551,806
Felt goods.....	9,460,913	10,476,716	9,308,172	8,131,062
Wool-felt hats.....	194,828	561,639	989,110	1,231,576
Cotton goods.....	7,239		41,400	
Knit goods.....	4,116,365	6,072,257	5,682,839	13,909,144
Wool shoddy.....	181,052	203,868	196,097	421,492
Fur-felt hats.....				44,000
Woolen, worsted, and mohair yarns.....	100,602,636	115,832,891	122,714,085	102,411,024
Wool manufactures.....	74,495,099	87,404,089	99,763,501	84,203,000
Woolen goods.....	8,879,516	3,898,922	8,035,598	9,532,443
Worsted goods.....	40,048,920	52,427,109	54,016,104	29,673,246
Carpets and rugs.....	21,565,625	30,961,720	37,595,684	44,823,531
Felt goods.....	8,032	116,333	116,115	124,330
Cotton manufactures.....	484,300	656,789	1,613,118	1,428,077
Cotton goods.....	481,800	585,414	1,251,282	1,398,904
Cotton small wares.....	2,500	71,375	361,836	29,173
Knit goods.....	24,084,813	25,784,095	20,524,878	16,197,903
Silk goods.....	638,334	1,987,918	610,688	581,544
Wool shoddy.....			202,000	

Yarns and recovered wool fiber as materials.—A distribution, by states, of the quantity of yarns, according to kind, and the quantity of recovered wool fiber consumed in the industry is shown in Table 21 for 1919.

TABLE 21.—YARNS, AND RECOVERED WOOL FIBER, USED IN WOOL MANUFACTURES: 1919.

MATERIAL AND STATE.	Total.	Purchased.	Made in establishments using.
	Pounds.	Pounds.	Pounds.
Yarns.....	439,800,696	120,534,450	319,272,246
All wool.....	338,008,785	72,886,076	265,722,709
Woolen.....	223,415,768	25,759,406	197,656,362
Connecticut.....	17,437,062	383,966	17,053,096
Indiana.....	3,288,967		3,288,967
Maine.....	29,340,185	43,000	29,306,185
Massachusetts.....	54,917,077	3,315,996	51,601,081
Michigan.....	1,242,822		1,242,822
New Hampshire.....	14,399,775	3,394	14,396,381
New Jersey.....	7,084,925	2,542,841	5,442,084
New York.....	20,068,763	1,582,377	27,486,386
Ohio.....	1,591,625	32	1,591,593
Pennsylvania.....	31,570,663	16,829,854	14,749,809
Rhode Island.....	7,908,604	892,419	7,106,185
Tennessee.....	1,736,075		1,736,075
Vermont.....	9,070,348	106,973	9,899,375
Wisconsin.....	1,409,907		1,409,907
All other states.....	11,433,820	58,554	11,375,266
Worsted.....	115,193,017	47,126,670	68,066,347
Connecticut.....	3,644,650	3,598,193	46,456
Maine.....	904,210	77,753	826,457
Massachusetts.....	40,843,801	14,735,138	26,108,703
New Hampshire.....	4,653,405	250,470	4,402,935
New Jersey.....	10,873,266	5,229,676	5,643,590
New York.....	9,078,243	1,127,777	8,550,466
Pennsylvania.....	13,459,008	9,458,434	3,999,574
Rhode Island.....	22,888,981	11,790,815	11,098,166
Vermont.....	1,258,743	542,307	716,436
All other states.....	6,928,611	315,557	6,613,054
Merino.....	45,164,154	1,609,023	43,555,131
Connecticut.....	1,845,200		1,845,200
Maine.....	5,264,090		5,264,090
Massachusetts.....	10,090,317	26,208	10,064,109

TABLE 21.—YARNS, AND RECOVERED WOOL FIBER, USED IN WOOL MANUFACTURES: 1919—Continued.

MATERIAL AND STATE.	Total.	Purchased.	Made in establishments using.
	Pounds.	Pounds.	Pounds.
Yarns—Continued.			
Merino—Continued.			
New Hampshire.....	1,587,970	2,080	1,585,884
New Jersey.....	3,369,495	16,608	3,352,887
New York.....	1,418,148		1,418,148
Ohio.....	2,489,020		2,489,020
Pennsylvania.....	10,075,285	1,304,121	8,771,164
West Virginia.....	1,036,565		1,036,565
All other states.....	8,048,064	260,000	7,788,064
Cotton.....	56,033,757	46,039,351	9,994,406
Connecticut.....	641,280		641,280
Maine.....	4,780,216	3,749,882	1,030,334
Massachusetts.....	19,338,209	15,024,251	4,313,958
New Hampshire.....	2,075,671	1,182,461	893,210
New Jersey.....	2,087,080	2,087,080	
New York.....	7,663,553	5,892,876	1,770,677
Pennsylvania.....	12,850,659	12,372,351	478,308
Rhode Island.....	2,724,747	2,521,128	203,619
All other states.....	3,872,342	2,568,042	1,304,300
Recovered wool fiber.....	57,911,197	37,532,275	20,378,922
Connecticut.....	4,409,422	3,909,777	499,645
Maine.....	8,765,406	8,397,918	367,488
Massachusetts.....	21,242,778	11,120,116	10,122,662
Minnesota.....	276,835	228,555	48,280
New Hampshire.....	4,576,135	3,655,460	820,675
New Jersey.....	2,283,666	42,692	2,240,974
New York.....	3,625,679	2,177,238	1,448,441
Pennsylvania.....	3,187,404	2,436,905	750,499
Rhode Island.....	1,510,470	1,458,951	51,519
Vermont.....	1,959,439	1,303,515	655,924
Wisconsin.....	408,258	294,709	113,549
All other states.....	5,665,705	2,506,439	3,159,266

¹ Excludes statistics for 1 establishment to avoid disclosing individual operations.

PRODUCTS.

Products of wool manufacturing industries.—A summary of the quantity and value of products relating to the industry as a whole is shown in Table 22, by states, for 1919, 1914, 1909, and 1904.

TABLE 22.—PRODUCTS OF WOOL-MANUFACTURING INDUSTRIES, BY STATES: 1919, 1914, 1909, AND 1904.

PRODUCT AND STATE.	QUANTITY.					VALUE.				PER CENT OF INCREASE, ¹ 1909-1919.	
										Square yards.	Value.
	1919	1919	1914	1909	1904	1919	1914	1909	1904		
	Pounds.	Square yards.	Square yards.	Square yards.	Square yards.						
Total value.....						\$1,234,057,092	\$464,249,813	\$507,166,710	\$380,934,003	.....	143.4
Woven goods.....	325,052,840	537,342,012	586,402,683	571,350,648	506,013,537	741,804,857	269,145,263	298,730,614	234,820,240	-6.0	150.0
Connecticut.....	21,022,655	29,625,488	24,393,717	24,553,203	28,460,588	48,336,265	15,853,044	17,464,588	14,657,276	20.7	178.8
Maine.....	28,004,999	47,115,295	39,019,028	33,678,262	31,387,917	50,743,797	15,153,575	15,359,310	16,167,584	39.9	230.4
Massachusetts.....	114,890,871	217,080,215	220,748,263	223,761,500	186,784,354	258,491,332	97,810,697	107,064,588	80,629,821	-3.0	141.4
New Hampshire.....	35,103,592	33,298,952	39,106,286	38,927,776	(*)	42,391,230	14,200,788	15,346,708	(*)	-14.5	176.2
New Jersey.....	11,651,046	19,264,301	23,603,273	24,308,778	20,699,605	28,450,076	12,702,447	15,317,657	13,613,945	-20.8	85.7
New York.....	30,353,391	48,086,696	55,330,197	68,990,264	60,101,868	78,479,004	28,844,286	35,294,343	26,858,837	-29.0	122.4
Pennsylvania.....	83,421,286	142,001,065	164,201,019	167,130,865	178,679,205	234,913,153	84,530,426	90,835,409	82,392,777	-9.6	158.5
All other states.....											
All-wool woven goods.....	211,549,741	327,377,554	323,788,983	323,444,896	260,681,119	573,519,887	203,756,781	220,079,555	158,439,261	1.2	160.6
Connecticut.....	10,467,520	22,768,782	16,021,044	17,987,303	18,377,887	43,428,772	12,456,658	15,103,628	11,269,666	26.6	187.5
Maine.....	15,009,173	20,275,766	14,697,592	15,089,929	12,999,152	30,470,584	8,037,756	8,607,710	8,462,977	34.4	254.0
Massachusetts.....	69,022,013	118,600,333	114,830,218	109,221,437	85,615,420	189,234,850	72,163,336	75,873,571	53,601,910	8.6	139.9
New Hampshire.....	27,904,604	22,404,350	20,880,031	25,922,838	(*)	32,377,902	10,081,736	11,791,315	(*)	-13.6	174.6
New Jersey.....	12,342,366	26,675,885	36,484,187	26,793,087	16,804,826	65,854,653	21,434,798	19,321,354	7,591,965	10.4	248.0
New York.....	7,936,178	12,937,468	14,448,467	17,243,627	12,459,972	22,121,510	10,231,942	12,532,885	16,102,796	-25.0	72.4
Pennsylvania.....	14,051,821	23,272,409	28,987,670	33,149,873	26,622,510	53,358,521	20,577,655	22,653,317	16,102,796	-29.8	135.5
Rhode Island.....	28,204,180	50,788,989	46,713,932	53,681,591	43,831,236	90,154,099	32,132,963	36,055,860	28,217,458	-5.4	150.0
All other states.....	20,011,286	26,687,622	30,724,972	24,375,211	43,970,116	46,518,996	16,639,642	15,242,707	22,659,604	9.5	205.2
Woolen suitings, overcoatings, and dress goods.....	117,469,170	139,915,929	90,985,906	84,641,705	113,788,739	244,338,307	55,692,475	58,907,413	66,323,051	65.3	329.4
Connecticut.....	12,458,551	18,992,673	9,538,612	8,809,612	10,396,037	28,343,800	6,559,163	7,355,134	6,511,778	92.9	285.4
Maine.....	15,005,437	20,271,801	13,806,079	12,401,175	10,208,432	30,458,554	7,390,057	6,991,470	6,477,729	63.5	335.7
Massachusetts.....	35,722,047	44,880,286	27,485,439	29,366,745	48,896,960	71,705,550	18,441,023	19,025,540	25,161,107	52.8	276.9
New Hampshire.....	27,904,604	22,404,350	20,880,031	25,922,838	(*)	19,911,159	4,080,149	4,480,847	(*)	49.6	344.4
New Jersey.....	5,153,407	9,083,938	7,078,894	4,841,944	3,622,678	27,202,096	3,077,452	3,185,230	3,857,600	106.2	544.2
New York.....	4,103,487	5,802,777	3,115,415	4,365,726	4,427,304	9,358,303	2,443,817	2,838,023	3,041,854	194.3	947.9
Pennsylvania.....	5,741,172	7,815,005	3,828,370	2,655,590	4,375,160	19,260,426	2,452,485	3,600,704	3,158,426	66.5	250.6
Rhode Island.....	5,253,192	8,247,798	5,163,182	4,955,093	5,147,209	12,622,265	3,103,099	6,207,578	15,994,304	60.3	310.4
All other states.....	10,681,232	13,210,483	13,713,068	8,789,452	20,714,959	25,476,174	7,542,730				

¹ A minus sign (—) denotes decrease.

* Exclusive of carpets and rugs and woven felt goods.

* Figures not available; included in "All other states."

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TABLE 22.—PRODUCTS OF WOOL-MANUFACTURING INDUSTRIES, BY STATES: 1919, 1914, 1909, AND 1904—Continued.

PRODUCT AND STATE.	QUANTITY.					VALUE.				PER CENT OF INCREASE, ¹ 1909-1919.	
	1919	1919	1914	1909	1904	1919	1914	1909	1904	Square yards.	Value.
Cotton-warp, woven goods—Continued.	Pounds.	Square yards.	Square yards.	Square yards.	Square yards.						
All other.....	9,078,236	28,198,665	43,300,965	36,045,370	25,236,327	\$15,436,244	\$12,280,874	\$12,132,725	\$6,728,298	-21.8	27.2
Massachusetts.....	(2)	(2)	20,181,997	16,478,986	12,960,480	(2)	6,894,754	5,110,197	3,443,801	-----	-----
Pennsylvania.....	515,805	672,110	1,856,133	2,853,591	2,522,077	228,710	346,188	664,774	339,230	-70.4	-65.6
All other states.....	3,562,431	27,526,555	15,271,835	16,712,793	9,753,770	15,207,534	5,039,932	6,357,754	2,945,207	64.7	139.2
Carpets and rugs.....	118,081,918	52,181,512	66,340,274	81,218,881	82,670,843	110,151,089	64,683,322	60,966,338	56,861,775	-35.8	64.5
Massachusetts.....	12,952,008	6,487,324	9,479,715	10,230,887	8,434,467	13,128,841	10,482,775	12,160,257	9,260,089	-36.6	8.0
New York.....	45,947,226	19,015,388	24,480,532	26,973,631	23,559,873	47,667,962	25,774,662	25,477,736	19,194,104	-28.5	87.1
Pennsylvania.....	35,927,149	17,878,967	24,103,422	36,222,080	45,763,852	36,217,914	19,472,933	21,670,318	23,650,927	-52.0	67.9
All other states.....	23,255,535	9,290,833	8,276,605	7,789,283	5,912,651	13,136,372	8,852,932	7,758,007	4,756,635	19.4	69.3
Wool-felt hats.....	Dozens.	Dozens.	Dozens.	Dozens.	Dozens.						
All other.....	401,893	381,044	590,957	449,121	5,409,505	1,777,225	3,646,787	2,290,070	-----	-32.0	48.3
New York.....	114,009	68,927	133,678	136,481	2,292,006	378,277	1,185,298	956,347	-----	-14.7	93.4
Pennsylvania.....	185,475	184,620	303,393	158,585	1,454,001	765,208	1,431,342	647,064	-----	-38.9	1.6
All other states.....	102,340	127,497	153,881	151,055	1,662,508	633,740	1,030,147	686,659	-----	-33.5	61.4
Yarns for sale.....	Pounds.	Pounds.	Pounds.	Pounds.	Pounds.						
All other.....	118,970,054	134,729,009	136,780,805	122,390,693	237,971,867	86,705,240	95,274,599	61,162,562	-----	-13.0	149.8
Connecticut.....	640,728	530,679	879,928	413,581	1,628,998	309,997	723,666	292,612	-----	-26.5	125.1
Maine.....	1,409,210	1,232,570	1,377,360	639,615	2,961,135	880,036	1,211,143	489,102	-----	-4.6	144.5
Massachusetts.....	20,413,155	20,991,727	28,774,173	19,015,889	54,062,420	20,753,500	23,231,033	12,193,214	-----	-8.2	132.7
New Jersey.....	10,171,495	12,928,295	11,346,062	6,094,987	26,940,408	11,309,733	11,642,086	4,807,660	-----	-10.4	131.4
New York.....	2,956,341	1,901,221	2,411,041	1,301,162	5,714,117	1,503,654	1,187,300	944,754	-----	138.2	381.3
Pennsylvania.....	44,002,114	53,820,785	68,003,533	68,903,501	72,010,808	28,631,446	34,548,848	26,071,560	-----	-34.0	108.4
Rhode Island.....	23,963,720	22,980,291	19,530,045	16,903,608	61,661,008	20,005,173	19,259,262	12,545,725	-----	22.7	270.2
All other states.....	8,507,285	6,394,041	5,523,658	9,118,350	12,992,973	3,302,701	3,471,241	3,817,905	-----	53.9	224.3
Woolen.....	28,959,769	26,830,047	29,215,188	43,734,323	33,166,552	9,008,978	7,635,864	10,283,017	-----	-0.9	334.4
Maine.....	30,070	28,499	16,779	95,631	59,609	18,527	12,181	64,146	-----	79.2	389.4
Massachusetts.....	1,036,411	1,653,912	1,161,773	1,553,033	5,145,210	662,383	465,448	799,941	-----	205.5	1029.7
New York.....	659,339	158,740	3,949	(1)	492,810	79,608	2,779	(1)	-----	16596.4	17633.4
Pennsylvania.....	18,100,441	21,784,704	25,664,665	37,657,138	16,001,051	6,624,691	6,021,540	7,280,744	-----	-29.5	165.7
Rhode Island.....	3,267,054	763,946	661,234	1,339,608	6,648,161	391,831	368,165	844,691	-----	394.1	1705.8
All other states.....	3,354,120	2,157,747	1,706,788	3,089,012	4,819,711	931,938	775,751	1,293,495	-----	96.5	521.3
Worsted.....	74,385,846	86,998,805	89,198,713	62,942,798	185,180,372	70,218,727	80,820,775	44,490,176	-----	-16.6	129.1
Maine.....	(2)	1,197,827	1,353,345	866,715	(2)	863,945	1,156,075	284,190	-----	-----	-----
Massachusetts.....	20,477,164	24,103,938	24,517,859	15,850,648	44,051,595	17,620,009	21,069,894	10,310,734	-----	-16.5	109.1
New Jersey.....	8,991,223	12,718,906	11,204,625	5,770,075	24,428,314	11,180,911	11,565,331	4,656,244	-----	-19.8	111.2
New York.....	1,788,166	1,742,481	1,237,092	1,301,162	4,957,735	1,424,046	1,184,521	944,754	-----	44.5	318.5
Pennsylvania.....	18,085,148	24,176,877	28,896,142	25,416,328	47,488,055	18,664,351	24,098,942	17,431,468	-----	-35.3	97.1
Rhode Island.....	19,369,197	20,224,819	18,264,920	13,222,913	51,959,048	18,292,764	18,634,773	10,551,023	-----	6.0	178.8
All other states.....	5,074,948	2,833,897	3,724,230	1,008,957	12,285,625	2,155,701	3,111,239	311,763	-----	36.3	295.2
Merino.....	13,406,054	10,522,363	14,011,362	12,914,512	16,180,614	4,862,564	5,666,228	5,226,576	-----	-4.3	185.6
Massachusetts.....	1,664,758	1,958,912	1,283,261	743,771	3,613,801	1,511,984	1,043,693	428,054	-----	29.7	246.3
Pennsylvania.....	8,116,525	5,343,128	11,710,956	5,830,035	8,521,702	1,815,586	4,180,974	1,359,378	-----	-30.7	103.8
Rhode Island.....	816,278	1,604,059	534,654	2,341,087	1,647,361	1,055,346	225,317	1,150,011	-----	52.7	631.1
All other states.....	2,808,493	1,616,264	482,491	3,999,619	2,397,750	479,648	216,244	2,219,129	-----	482.1	1008.8
All other.....	2,218,385	10,378,394	4,855,542	2,799,060	3,444,329	2,614,971	1,151,732	1,162,795	-----	-49.1	199.1
Maine.....	250,000	6,244	95,219	177,369	271,709	4,564	32,641	140,766	-----	162.6	732.6
Massachusetts.....	722,503	1,092,406	1,811,285	863,437	1,251,814	953,124	662,018	584,483	-----	-60.1	89.1
New Hampshire.....	115,665	79,342	(1)	(1)	175,715	69,331	(1)	(1)	-----	-----	-----
New Jersey.....	2,000	20,013	(1)	318,912	1,000	13,236	(1)	151,416	-----	-----	-----
Pennsylvania.....	7,516,076	1,731,770	1,731,770	-----	-----	1,226,818	247,392	-----	-----	638.3	4435.9
Rhode Island.....	511,191	367,467	69,287	-----	-----	265,232	31,007	-----	-----	-4.8	88.9
All other states.....	617,026	890,846	68,031	1,434,342	1,406,438	82,666	178,674	286,130	-----	-----	-----
Nolls.....	23,640,228	24,440,227	27,938,313	16,238,144	17,702,923	6,930,475	9,035,419	5,022,907	-----	-15.4	95.9
Massachusetts.....	10,149,864	10,955,313	11,250,153	5,244,593	7,202,421	3,133,490	3,655,975	1,517,014	-----	-9.8	97.0
New Jersey.....	2,100,275	2,216,080	1,628,352	940,338	1,813,265	668,074	588,740	326,732	-----	29.0	208.0
New York.....	1,945,713	2,188,370	1,897,069	858,972	1,411,829	600,196	548,973	261,055	-----	2.6	187.2
Pennsylvania.....	2,340,811	3,840,996	6,006,239	3,994,229	2,054,758	1,102,157	1,895,601	1,206,447	-----	-60.9	8.4
Rhode Island.....	4,872,598	3,283,790	5,199,661	3,319,117	3,573,859	940,435	1,819,094	1,240,806	-----	-6.3	96.5
All other states.....	2,225,467	1,964,678	1,956,839	1,880,895	1,646,791	486,123	527,068	470,853	-----	13.7	212.5
Waste.....	31,035,630	29,571,562	25,948,432	22,378,230	7,337,940	3,482,305	3,607,146	2,652,667	-----	19.6	103.4
Massachusetts.....	13,504,681	10,997,975	8,013,437	5,762,271	2,795,156	981,282	766,530	818,838	-----	68.6	264.7
New Jersey.....	4,457,107	4,066,348	2,111,639	1,161,229	1,612,041	629,869	528,799	327,740	-----	111.1	204.9
New York.....	2,612,247	2,451,510	888,837	852,243	387,639	297,768	155,921	128,750	-----	198.9	148.6
Pennsylvania.....	1,831,400	3,683,664	5,260,513	4,769,554	388,707	430,303	592,524	329,565	-----	-65.2	-34.4
Rhode Island.....	3,570,000	5,177,182	7,106,426	5,837,000	1,621,021	902,003	1,316,779	831,452	-----	-49.8	23.1
All other states.....	5,059,505	3,194,903	2,567,530	4,005,933	533,376	241,080	246,593	216,322	-----	97.1	116.3
All other products.....	95,502,900	28,032,600	28,678,897	16,934,849	-----	-----	-----	-----	-----	-----	233.0
Connecticut.....	3,725,792	888,086	1,111,983	465,452	-----	-----	-----	-----	-----	-----	235.1
Maine.....	7,082,809	1,698,011	1,682,033	501,099	-----	-----	-----	-----	-----	-----	347.7
Massachusetts.....	24,471,797	6,842,883	5,606,630	4,120,871	-----	-----	-----	-----	-----	-----	344.4
New Hampshire.....	337,746	212,693	495,997	(1)	-----	-----	-----	-----	-----	-----	-31.9
New Jersey.....	2,581,145	763,340	910,144	633,931	-----	-----	-----	-----	-----	-----	183.6
New York.....	13,223,819	5,647,734	5,215,506	2,586,441	-----	-----	-----	-----	-----	-----	163.3
Pennsylvania.....	21,510,892	7,638,749	6,192,317	3,623,273	-----	-----	-----	-----	-----	-----	247.4
Rhode Island.....	9,677,760	766,923	5,128,384	1,622,880	-----	-----	-----	-----	-----	-----	88.7
All other states.....	12,891,140	3,574,181	2,535,843	2,984,905	-----	-----	-----	-----	-----	-----	408.4
Contract work.....	18,776,011	3,493,383	3,226,910	1,188,933	-----	-----	-----	-----	-----	-----	481.9
Connecticut.....	179,518	68,179	32,848	19,185	-----	-----	-----	-----	-----	-----	446.5
Maine.....	375,974	87,265	78,722	129,753	-----	-----	-----	-----	-----	-----	377.6
Massachusetts.....	7,347,649	1,419,930	1,452,818	482,326	-----	-----	-----	-----	-----	-----	405.9
New Hampshire.....	361,008	69,309	43,831	(1)	-----	-----	-----	-----	-----	-----	640.5
New Jersey.....	723,760	22,096	2,850	2,473	-----	-----	-----	-----	-----	-----	25295.1
New York.....	1,253,676	268,879	257,212	387.4	-----	-----	-----	-----	-----	-----	37.4
Pennsylvania.....	5,432,210	623,235	800,935	366,858	-----	-----	-----	-----	-----	-----	584.5
Rhode Island.....	2,429,053	678,674	366,622	138,822	-----	-----	-----	-----	-----	-----	562.6
All other states.....	622,553	255,816	186,572	20,106	-----	-----	-----	-----	-----	-----	233.7

¹ A minus sign (-) denotes decrease.

² Included in "All other states" to avoid disclosing individual operations.

Leading products of wool manufactures, by industries.—Table 23 gives a condensed account of the leading products, according to value, of wool manufactures, by industries, for the year 1919.

TABLE 23.—LEADING PRODUCTS OF WOOL MANUFACTURES, BY INDUSTRIES: 1919.

PRODUCT.	Total.	Woolen-goods industry.	Worsted-goods industry.	Carpet and rug industry.	Felt-goods industry.	Wool-felt hat industry.
Total value.....	\$1,234,657,092	\$304,806,500	\$700,537,482	\$123,253,828	\$39,220,540	\$6,739,652
Woven goods for personal wear.....	710,466,840	287,030,146	422,131,592	1,143,826	161,285	
Carpets and rugs.....	110,151,089	7,591	27,520	110,115,978		
Other woven goods (blankets, carriage robes, etc.).....	81,338,008	28,765,972	1,352,085	505,939	714,012	
Felt goods.....	37,813,340	1,321,234			36,522,115	
Wool-felt hats.....	5,409,505					5,409,505
Yarns.....	237,071,867	31,837,200	205,607,251	394,109	43,307	
Waste and noils.....	25,040,863	940,381	23,859,344	209,521	31,617	
All other products.....	57,656,551	10,235,571	33,841,352	10,681,168	1,733,578	1,167,882
Contract work.....	18,776,011	4,768,405	13,028,358	203,287	23,626	162,245

Average value of products, per establishment.—The average value of products for establishments engaged in wool manufactures is shown in Table 24 for the industry as a whole and separately for each of its branches in 1919, 1914, 1909 and 1904.

Total production of yarns and recovered wool fiber in the industry.—Table 25 presents statistics with respect to the total quantity of yarns and recovered wool fiber produced in the wool manufactures industry. The table gives separate figures for the quantity pro-

duced for sale and for consumption by the same establishments where these products are made.

TABLE 24.—AVERAGE VALUE OF PRODUCTS, PER ESTABLISHMENT: 1919, 1914, 1909, AND 1904.

INDUSTRY.	1919	1914	1909	1904
Wool manufactures.....	\$1,215,214	\$474,208	\$451,216	\$314,043
Woolen goods.....	651,001	207,217	182,485	179,541
Worsted goods.....	2,399,101	925,062	904,891	733,385
Carpets and rugs.....	1,613,384	712,692	512,145	443,068
Felt goods.....	800,003	258,354	275,642	229,451
Wool-felt hats.....	168,491	64,816	141,368	144,545

TABLE 25.—TOTAL PRODUCTION OF YARNS AND RECOVERED WOOL FIBER IN WOOL MANUFACTURES: 1919 AND 1914.

PRODUCT.	Census year.	Total.	For sale.	FOR USE IN THE SAME ESTABLISHMENT.				
				Total.	Made in woolen mills.	Made in worsted mills.	Made in felt mills.	Made in carpet mills.
		Pounds.	Pounds.	Pounds.	Pounds.	Pounds.	Pounds.	Pounds.
Yarns.....	1910	438,242,300	118,970,054	319,272,246	195,460,171	82,584,586	5,956,334	35,272,155
	1914	441,796,406	134,729,809	307,066,707	164,372,992	87,174,581	7,581,177	47,038,047
Woolen.....	1910	226,616,131	28,959,769	197,656,362	147,232,110	18,207,724	4,095,124	28,121,404
	1914	197,914,350	29,830,047	171,084,303	118,309,523	10,400,722	6,758,237	35,615,821
Worsted.....	1910	143,801,552	175,735,205	68,066,347	1,113,750	61,350,377		5,602,211
	1914	182,712,432	205,843,039	86,860,303	1,271,374	74,620,697	714,581	10,253,791
Merino.....	1910	56,901,185	13,406,054	43,555,131	40,819,384	720,282	1,880,210	155,255
	1914	49,975,722	10,522,363	39,453,359	39,206,840	154,300	92,150	
Cotton.....	1910	10,803,432	869,026	9,994,406	6,294,018	2,306,203		1,393,285
	1914	11,193,602	1,534,160	9,659,742	5,585,255	1,080,802	16,250	2,068,435
Recovered wool fiber.....	1910	21,810,761	1,431,830	20,378,922	17,065,485	476,460	1,394,811	842,166
	1914	41,258,722	471,373	40,787,349	39,610,220	464,020	707,094	

¹ Includes 1,349,350 pounds of mohair yarn.

² Includes 8,844,234 pounds of mohair yarn.

Establishments engaged in bleaching, dyeing, and finishing.—The number of establishments engaged in bleaching, dyeing, and finishing is shown in Table 26, by states, for 1919. A separate account is given for

those doing this character of work in connection with their own textile mills, and those doing work for others, a small number of establishments being counted twice when operating both ways.

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TABLE 26.—ESTABLISHMENTS IN WOOL MANUFACTURES DOING BLEACHING, DYEING, FINISHING, AND CONTRACT WORK: 1919.

INDUSTRY.	ESTABLISHMENTS IN WOOL MANUFACTURES, 1919.			
	Total number.	Bleaching, dyeing or printing—		Doing custom spinning or weaving.
		Their own goods.	For others.	
United States.....	1,016	556	47	126
Woolen and worsted goods.....	852	481	37	124
Connecticut.....	44	36	1	1
Maine.....	66	47	1	10
Massachusetts.....	182	119	11	30
New Hampshire.....	44	33	2	2
New Jersey.....	26	10	1	2
New York.....	39	25	2	5
Ohio.....	13	9	1	1
Pennsylvania.....	197	51	5	40
Rhode Island.....	88	45	7	13
Vermont.....	18	13	1	1
All other states.....	136	93	7	18
Carpets and rugs.....	75	34	4	2
Connecticut.....	1	1	1	1
Massachusetts.....	10	6	1	1
New Jersey.....	5	4	1	1
New York.....	10	9	1	1
Pennsylvania.....	48	14	1	1
All other states.....	1	1	1	1
Felt goods and wool-felt hats.....	89	41	6	1
Connecticut.....	4	2	1	1
Maine.....	2	2	1	1
Massachusetts.....	17	11	3	1
New Jersey.....	9	4	1	1
New York.....	19	8	1	1
Ohio.....	3	2	1	1
Pennsylvania.....	14	7	1	1
Rhode Island.....	1	1	1	1
All other states.....	20	4	1	1

EQUIPMENT.

Summary of equipment for wool manufactures.—The kinds of machines used in wool manufactures which would indicate the progress of the industry when shown comparatively for a series of years are given in Table 27 for 1919, 1914, 1909, and 1904.

TABLE 27.—MACHINERY USED IN WOOL MANUFACTURES: 1919, 1914, 1909, AND 1904.

KIND.	NUMBER.				PER CENT OF INCREASE. ¹	
	1919	1914	1909	1904	1909-1919	1914-1919
Woolen cards (sets).....	5,835	5,382	5,555	6,142	5.0	8.4
Wool-combing machines.....	2,294	2,425	2,120	1,549	8.2	-5.4
Spindles.....	5,242,613	5,006,286	4,570,089	4,021,098	14.7	4.7
Looms.....	77,338	79,789	73,288	66,293	5.6	0.7
Pickers.....	1,223	1,392	1,365	1,812	-21.9	-12.1
Garnett machines.....	211	221	251	245	-15.9	-4.5

¹ A minus sign (-) denotes decrease.

² Includes shoddy cards.

³ Exclusive of carpet and rug looms.

Detail for machinery used in wool manufactures and its branches.—Table 28 furnishes more complete statistics than the one preceding with respect to the kinds of cards and spindles used, giving in addition the branches of the industry in which they were located in 1919 and 1914.

Spindles used in the industry, by states.—A detailed account of the number and kind of spindles used in the industry is shown, by states, in Table 29, for 1919, 1914, 1909, and 1904.

TABLE 28.—MACHINERY USED IN WOOL MANUFACTURES, BY INDUSTRIES: 1919 AND 1914.

KIND.	WOOL MANUFACTURES.		WOOLEN GOODS.		WORSTED GOODS.		CARPETS AND RUGS.		FELT GOODS AND WOOL-FELT HATS.	
	1919	1914	1919	1914	1919	1914	1919	1914	1919	1914
Cards, number.....	8,203	7,800	14,618	3,811	2,457	2,521	592	760	536	708
Woolen.....	5,835	5,382	4,508	3,763	333	469	463	465	536	695
Worsted.....	2,143	2,153	20	6	2,041	1,959	82	179	179	9
Cotton.....	225	285	95	52	83	93	47	116	116	4
Spindles.....	5,242,613	5,006,286	1,888,213	1,604,881	3,087,916	3,117,151	233,226	246,762	33,258	37,492
Woolen.....	2,201,669	1,914,661	1,853,014	1,545,195	179,536	229,822	135,898	103,948	33,218	35,726
Worsted.....	2,988,865	3,010,145	20,371	46,792	2,883,132	2,888,801	85,312	122,786	40	1,766
Cotton.....	62,092	81,460	14,828	12,894	25,248	48,528	12,016	20,028	116	116
Mule spinning.....	2,761,180	2,485,700	1,764,133	1,478,095	837,312	872,626	126,788	102,238	32,947	34,831
Woolen.....	2,079,028	1,815,688	1,761,483	1,470,489	166,420	208,140	118,868	102,238	32,907	34,831
Worsted.....	681,552	669,926	2,700	5,440	670,892	664,486	7,920	116	40	40
Cotton.....	166	166	166	166	166	166	166	166	166	166
Frame spinning.....	1,676,139	1,643,583	48,482	46,792	1,531,135	1,485,070	72,572	110,090	110,090	1,631
Woolen.....	31,305	9,771	28,513	8,304	1,435,551	1,435,678	7,792	300	300	303
Worsted.....	1,601,602	1,555,228	12,811	27,560	1,435,551	1,435,678	57,740	90,682	90,682	1,328
Cotton.....	43,232	78,584	12,608	10,928	28,584	48,528	7,040	19,128	19,128	19,128
Doubling and twisting.....	805,294	870,913	75,648	81,994	695,469	759,455	33,866	34,434	311	1,030
Woolen.....	90,783	89,222	68,068	66,402	13,116	20,818	9,238	1,410	311	562
Worsted.....	705,701	784,991	5,860	13,792	680,689	738,637	19,652	32,124	311	438
Cotton.....	8,860	2,700	2,220	1,800	1,664	1,664	4,976	900	900	900
Looms.....	85,495	86,641	29,894	29,366	45,835	49,462	9,256	10,341	510	472
Wool-combing machines.....	2,294	2,425	26	20	2,171	2,285	85	114	12	6
Pickers.....	1,223	1,392	954	1,061	103	140	66	89	100	102
Garnett machines.....	211	221	126	127	29	35	21	30	35	26

¹ Sets of cards.

² Includes shoddy cards.

³ Includes 2,072 spindles for doubling and twisting paper stock.

⁴ Includes 1,099 looms employed on woven goods, other than carpets and rugs.

⁵ Includes 489 looms employed on woven goods, other than carpets and rugs.

TABLE 29.—SPINDLES USED IN WOOL MANUFACTURES: 1919, 1914, 1909, AND 1904.

CLASS.	United States.	Connecticut.	Maine.	Massachusetts.	New Hampshire.	New Jersey.	New York.	Pennsylvania.	Rhode Island.	Wisconsin.	All other states.
All classes:											
1919.....	5,242,613	242,014	289,085	1,750,837	233,414	352,570	384,020	703,401	742,038	33,620	450,102
1914.....	5,006,286	202,703	207,923	1,700,432	217,180	346,720	341,194	740,593	693,201	28,538	401,412
1909.....	4,570,080	215,218	235,900	1,431,236	193,704	282,310	320,937	814,881	632,537	36,991	406,815
1904.....	4,021,098	207,481	210,902	1,118,549	234,974	220,486	334,072	758,427	489,340	37,398	408,779
Producing spindles:											
1919.....	4,437,310	227,521	267,804	1,476,938	218,037	286,904	316,543	628,280	565,790	30,234	418,668
1914.....	4,129,373	179,703	243,716	1,441,774	201,180	284,262	283,780	602,276	504,213	25,396	363,064
1909.....	3,794,120	193,460	214,584	1,174,547	177,800	234,018	269,749	607,596	459,127	32,734	309,858
1904.....	3,457,211	187,081	189,684	900,337	222,054	184,533	281,937	630,534	379,374	32,558	388,219
Woolen—											
1919.....	2,110,033	207,377	200,750	561,849	143,571	50,336	153,475	284,517	119,718	26,026	354,308
1914.....	1,825,469	155,867	185,500	480,810	131,408	50,424	119,053	289,792	94,099	21,188	297,328
1909.....	1,911,966	168,536	161,588	502,678	115,900	53,106	138,079	318,166	124,729	25,974	302,630
1904.....	2,109,410	167,021	169,500	554,080	178,030	71,500	153,343	340,294	151,800	28,438	348,684
Worsted—											
1919.....	2,283,154	20,144	54,440	891,505	75,006	227,568	156,028	343,763	440,072	4,208	64,360
1914.....	2,225,154	23,836	53,780	901,492	69,772	233,838	157,704	310,984	408,796	4,208	60,744
1909.....	1,750,440	24,920	48,920	573,050	61,924	181,512	123,718	340,630	333,246	6,760	49,760
1904.....	1,189,605	20,960	17,000	349,377	43,424	113,033	121,564	278,440	227,514	4,120	14,123
Cotton—											
1919.....	43,232	.....	12,008	23,584	.....	.....	7,040	.....	.....	.....	.....
1914.....	78,750	.....	4,436	59,472	.....	.....	7,032	1,500	1,318	.....	4,992
1909.....	131,717	.....	4,096	98,813	336	.....	7,352	2,800	1,152	.....	17,168
1904.....	98,190	.....	3,064	56,874	.....	.....	7,040	5,800	.....	.....	25,412
Mule spindles—											
1919.....	2,761,180	211,877	196,758	803,787	149,371	173,516	200,865	383,466	268,089	24,982	348,469
1914.....	2,485,700	101,064	185,236	713,904	140,808	175,004	172,103	383,620	237,793	20,324	295,184
1909.....	2,312,050	174,530	161,304	501,478	125,570	154,206	155,094	432,400	218,224	26,854	302,582
1904.....	2,494,935	100,721	100,908	624,780	180,010	126,300	177,003	467,140	215,920	23,068	357,495
Woolen—											
1919.....	2,079,628	207,377	196,758	561,273	143,371	53,136	144,945	279,708	119,609	24,982	348,469
1914.....	1,815,008	155,564	185,236	477,994	131,408	50,424	118,753	286,712	94,099	20,324	295,184
1909.....	1,886,101	168,536	161,304	489,934	115,900	53,106	128,439	316,962	124,104	25,584	302,582
1904.....	2,140,753	166,721	159,408	548,934	176,370	65,500	153,343	344,804	151,800	28,058	345,695
Worsted—											
1919.....	681,552	4,500	.....	242,514	6,000	120,380	55,920	103,758	148,480	.....	.....
1914.....	689,926	5,500	.....	235,010	9,400	125,180	53,440	90,008	143,628	.....	.....
1909.....	423,393	6,000	.....	71,544	9,640	101,100	26,935	112,734	94,120	1,320	.....
1904.....	313,802	.....	1,500	53,146	3,040	60,800	23,940	100,476	64,000	.....	300
Cotton—											
1919.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1914.....	166	.....	.....	.....	.....	.....	.....	.....	166	.....	.....
1909.....	3,456	.....	.....	.....	330	.....	320	2,800	.....	.....	.....
1904.....	40,320	.....	.....	22,700	.....	.....	320	5,800	.....	.....	11,500
Frame spindles—											
1919.....	1,676,139	15,644	71,046	673,151	69,266	113,388	115,678	244,814	267,701	5,252	70,199
1914.....	1,643,583	18,039	58,480	727,870	60,312	108,658	111,506	218,056	266,420	5,072	67,880
1909.....	1,481,179	18,920	53,280	613,080	52,284	80,412	114,055	235,100	240,903	5,880	67,276
1904.....	902,276	21,260	28,776	335,557	42,044	58,233	104,334	173,394	163,454	4,500	30,724
Woolen—											
1919.....	31,305	.....	3,008	576	200	6,200	8,530	4,809	109	1,044	5,839
1914.....	0,771	303	264	2,816	.....	.....	300	3,080	.....	864	2,144
1909.....	25,805	.....	264	12,744	.....	.....	10,240	1,204	625	440	348
1904.....	28,003	300	10,152	5,152	2,260	6,000	.....	1,430	.....	380	2,969
Worsted—											
1919.....	1,001,002	15,644	54,440	648,901	69,000	107,188	100,108	240,005	297,592	4,208	64,360
1914.....	1,555,228	18,336	53,780	665,582	60,312	108,658	104,264	214,076	265,268	4,208	60,744
1909.....	1,327,053	18,920	48,920	501,512	52,284	80,412	98,783	233,806	239,126	5,440	49,760
1904.....	875,743	20,960	15,560	266,231	39,784	52,233	97,614	171,964	163,454	4,120	13,823
Cotton—											
1919.....	43,232	.....	12,008	23,584	.....	.....	7,040	.....	.....	.....	.....
1914.....	78,750	.....	4,436	59,472	.....	.....	7,032	1,500	1,152	.....	4,992
1909.....	128,261	.....	4,096	98,813	.....	.....	7,032	.....	1,152	.....	17,168
1904.....	57,870	.....	3,064	34,174	.....	.....	6,720	.....	.....	.....	13,912
Doubling and twisting spindles:											
1919.....	805,294	14,403	21,281	273,800	14,777	65,672	68,383	135,121	176,848	3,356	31,434
1914.....	879,913	23,000	24,207	318,658	10,000	62,458	67,405	144,317	188,988	3,442	38,348
1909.....	775,060	21,762	21,376	256,989	15,844	47,062	51,188	147,285	173,410	4,257	36,457
1904.....	563,887	19,500	21,308	168,212	12,920	35,953	52,735	127,893	109,966	4,840	20,560
Woolen—											
1919.....	90,733	0,006	5,481	22,701	1,071	2,000	11,243	21,361	8,316	1,582	10,282
1914.....	80,222	14,616	6,807	15,320	2,476	.....	3,637	18,204	12,076	1,722	14,244
1909.....	110,458	13,550	6,684	24,033	2,836	300	6,665	24,872	15,040	2,041	14,467
1904.....	110,020	12,420	10,530	20,076	4,400	2,420	7,917	16,317	13,874	2,374	14,288
Worsted—											
1919.....	705,701	8,397	15,800	246,814	13,706	63,072	54,236	112,188	168,532	1,804	21,152
1914.....	784,991	8,444	17,400	302,438	13,524	62,458	53,768	126,023	176,912	1,720	22,304
1909.....	648,050	8,212	14,692	223,136	13,008	47,392	41,343	121,591	156,870	2,216	19,580
1904.....	441,038	7,080	4,775	131,305	8,520	33,533	41,906	110,196	96,092	2,466	5,162
Cotton—											
1919.....	8,860	.....	.....	4,384	.....	.....	2,904	1,572	.....	.....	1,800
1914.....	2,700	.....	.....	900	.....	.....	.....	.....	.....	.....	2,400
1909.....	17,422	.....	.....	9,520	.....	.....	3,180	822	1,500	.....	2,400
1904.....	12,223	.....	.....	6,831	.....	.....	2,912	1,380	.....	.....	1,100

1 Includes shoddy.

1 Includes 2,072 spindles for twisting paper stock, distributed as follows: Massachusetts 2,000 and Pennsylvania 72.

Looms used in the industry.—Table 30 gives the number of broad, narrow, and hand looms used in the industry, according to the kinds of goods woven in 1919 and prior census years.

TABLE 30.—LOOMS USED IN WOOL MANUFACTURES (EXCLUSIVE OF CARPET AND RUG LOOMS): 1919, 1914, 1909, AND 1904.

CLASS.	1919	1914	1909	1904
Total.....	1 76,012	1 75,491	1 72,665	66,293
Broad looms: ²				
On woollen goods.....	24,533	21,788	25,031	27,171
On worsted goods.....	34,658	35,009	28,796	19,722
Narrow looms: ³				
On woollen goods.....	7,338	7,078	8,117	10,933
On worsted goods.....	9,402	11,572	10,680	8,401
Hand looms.....	21	44	41	66

¹ Not including cotton looms.
² Fifty inches reed space and over.
³ Under 50 inches reed space.

Looms, by states.—Statistics relating to the distribution of looms, by states, shown comparatively for a number of census years will be found in Table 31.

TABLE 31.—LOOMS USED IN WOOL MANUFACTURES (EXCLUSIVE OF CARPET AND RUG LOOMS), BY STATES: 1919, 1914, 1909, AND 1904.

STATE.	Total.	Broad. ¹	Narrow. ²	Hand.
United States:				
1919.....	1 77,338	59,012	17,705	21
1914.....	1 76,789	57,282	19,444	63
1909.....	1 73,268	54,221	19,008	41
1904.....	66,293	40,893	19,334	66
Connecticut:				
1919.....	3,358	3,075	282	1
1914.....	3,240	2,947	293	.....
1909.....	3,409	3,145	264	.....
1904.....	3,201	2,581	619	1
Maine:				
1919.....	4,405	3,635	860	.....
1914.....	4,533	3,447	1,086	.....
1909.....	4,024	2,967	1,057	.....
1904.....	3,680	2,903	696	.....
Massachusetts:				
1919.....	27,723	19,078	8,644	1
1914.....	27,009	18,514	9,087	8
1909.....	25,185	16,572	8,612	1
1904.....	20,588	13,734	6,853	1
New Hampshire:				
1919.....	4,189	3,880	309	.....
1914.....	4,084	3,839	145	.....
1909.....	4,230	3,743	487	.....
1904.....	4,307	3,198	1,109	.....
New Jersey:				
1919.....	5,745	5,070	67	2
1914.....	5,709	5,020	87	2
1909.....	4,991	4,887	102	2
1904.....	3,799	3,519	280	.....
New York:				
1919.....	3,174	2,642	522	10
1914.....	3,182	2,617	523	42
1909.....	3,035	2,534	475	26
1904.....	4,156	2,388	1,717	51

¹ Fifty inches reed space or over.
² Under 50 inches reed space.
³ Includes 1909 looms in the carpet and rug industry used on woven goods, other than carpets and rugs.
⁴ Includes cotton looms.

TABLE 31.—LOOMS USED IN WOOL MANUFACTURES (EXCLUSIVE OF CARPET AND RUG LOOMS), BY STATES: 1919, 1914, 1909, AND 1904—Continued.

STATE.	Total.	Broad. ¹	Narrow. ²	Hand.
Pennsylvania:				
1919.....	12,335	8,053	4,275	7
1914.....	11,389	7,363	4,017	9
1909.....	11,748	7,952	3,786	10
1904.....	10,752	7,225	3,516	11
Rhode Island:				
1919.....	9,315	7,838	1,477	.....
1914.....	10,251	7,734	2,517	.....
1909.....	9,252	7,210	2,042	.....
1904.....	8,103	6,455	1,648	.....
Wisconsin:				
1919.....	347	337	10	.....
1914.....	262	246	16	.....
1909.....	327	309	18	.....
1904.....	297	277	20	.....
All other states:				
1919.....	6,657	5,398	1,259	.....
1914.....	6,530	4,855	1,673	2
1909.....	7,067	4,902	2,163	2
1904.....	7,311	4,523	2,786	2

¹ Fifty inches reed space or over. ² Under 50 inches reed space.

Sets of woollen cards used in the industry, by states.—Table 32 gives the location, by states, of the number of sets of woollen cards used in the industry for several consecutive census years.

TABLE 32.—SETS OF WOOLEN CARDS (INCLUDING SHODDY CARDS) USED IN WOOL MANUFACTURES: 1919, 1914, 1909, AND 1904.

STATE.	1919	1914	1909	1904
United States.....	5,835	5,382	5,555	6,142
California.....	29	21	12	36
Connecticut.....	464	425	462	490
Delaware.....	5	5	5	5
Georgia.....	31	30	35	33
Illinois.....	58	55	39	46
Indiana.....	59	55	25	84
Iowa.....	9	17	47	28
Kentucky.....	27	43	441	83
Maine.....	539	489	441	456
Maryland.....	18	27	27	48
Massachusetts.....	1,679	1,465	1,483	1,667
Michigan.....	65	40	26	62
Minnesota.....	49	50	36	34
Missouri.....	11	3	10	14
New Hampshire.....	407	385	357	393
New Jersey.....	174	180	139	184
New York.....	624	631	606	632
North Carolina.....	28	21	24	25
Ohio.....	63	54	54	69
Oregon.....	37	30	31	29
Pennsylvania.....	814	821	912	932
Rhode Island.....	285	6	305	360
South Carolina.....	58	62	82	82
Tennessee.....	4	10	1	12
Utah.....	146	135	124	127
Vermont.....	42	27	35	50
Virginia.....	10	9	27	2
Washington.....	24	20	27	21
West Virginia.....	76	55	84	81
Wisconsin.....				

Sets of woollen cards, according to width, by states.—The number of sets of woollen cards, according to width, is shown in Table 33 for the various states engaged in wool manufactures during 1919.

TABLE 33.—SETS OF WOOLEN CARDS (INCLUDING SHODDY CARDS), BY WIDTH, USED IN WOOL MANUFACTURES, BY STATES: 1919.

STATE.	Total.	21"	24"	26"	28"	30"	32"	36"	38"	40"	41"	42"	44"	48"	50"	54"	56"	60"	64"	66"	68"	72"	84"	90"	96"	100"
United States.....	5,835	25	54	19	2	7	9	15	1	671	3	20	62	3,241	5	13	1	1,570	17	12	7	12	15	15	14	16
California.....	29									1				10				10								
Connecticut.....	404									43		2		324				80			7		3	3		2
Delaware.....	5													2				3								
Georgia.....	31																	31								
Illinois.....	58									13				10				35								
Indiana.....	9									13				45				1								
Iowa.....	27									2				7												
Kentucky.....	539					1		2		67				375				18								
Maine.....	18					1								8				94								
Maryland.....																		10								
Massachusetts.....	1,479	7	15							266		18	29	1,000		3		315				3	7	1	6	
Michigan.....	65									4				44				17								
Minnesota.....	49									16				27				6								
Missouri.....	11								1					10												
New Hampshire.....	407				1			5		85			17	267				20		12						
New Jersey.....	174							5					6	95		10		32	17			3	4			2
New York.....	624	18		10	1					102			1	323				138				1	1	8		12
North Carolina.....	28													1	4			23								
Ohio.....	63													31				32								
Oregon.....	37									1				27				9								
Pennsylvania.....	811		37				9	1		5		1		239			1	521								
Rhode Island.....	285									11	2		2	199				63				5		3		
Tennessee.....	58		1			1								28				22								
Utah.....	4													4												
Vermont.....	146		1							16			7	82	1			39								
Virginia.....	42					3				1				16				22								
Washington.....	10													10												
West Virginia.....	24									4				4				16								
Wisconsin.....	76					1		2		17				40				10								

Wool-combing machines used in wool manufactures.—Table 34 gives the number of combing machines, domestic and foreign, used in the industry, separately for woolen, worsted and carpet mills.

TABLE 34.—WOOL-COMBING MACHINES USED IN WOOL MANUFACTURES: 1919, 1914, 1909, AND 1904.

CLASS.	1919	1914	1909	1904
Total.....	2,204	2,425	2,120	1,540
Of domestic manufacture.....	730	506	480	386
Per cent of total.....	32.2	23.3	22.6	24.0
Of foreign manufacture.....	1,555	1,859	1,640	1,153
Per cent of total.....	67.8	76.7	77.4	75.1
In worsted mills.....	2,171	2,285	1,925	1,312
Of domestic manufacture.....	647	477	370	250
Of foreign manufacture.....	1,524	1,808	1,555	1,063
In woolen mills.....	26	20	63	128
Of domestic manufacture.....	7	8	42	81
Of foreign manufacture.....	10	12	21	47
In carpet mills.....	197	1120	132	109
Of domestic manufacture.....	85	81	68	46
Of foreign manufacture.....	12	39	64	63

¹ Includes a few combs in 1 felt-goods mill.

Wool-combing machines, by states.—The number and per cent distribution of combing machines, by states, is given in Table 35 for 1919, 1914, 1909, and 1904.

Pickers and garnett machines used in the industry.—A separate account of the number of pickers and garnett machines used in the industry during 1919, 1914, 1909, and 1904 is given in Table 36.

TABLE 35.—WOOL-COMBING MACHINES USED IN WOOL MANUFACTURES, BY STATES: 1919, 1914, 1909, AND 1904.

STATE.	NUMBER.				PER CENT DISTRIBUTION.			
	1919	1914	1909	1904	1919	1914	1909	1904
United States.....	2,204	2,425	2,120	1,540	100.0	100.0	100.0	100.0
Connecticut.....	21	20	52	37	0.9	1.2	2.5	2.4
Maine.....	41	32	20	26	1.8	1.3	1.4	1.7
Massachusetts.....	862	918	703	497	37.6	37.9	33.2	32.1
New Hampshire.....	52	52	52	24	2.3	2.1	2.5	1.5
New Jersey.....	308	340	268	160	16.0	14.4	12.6	10.9
New York.....	157	143	141	74	6.8	5.9	6.7	4.8
Pennsylvania.....	343	320	354	377	14.9	13.2	16.7	24.3
Rhode Island.....	385	522	461	291	16.8	21.5	21.7	18.8
Wisconsin.....	11	11	13	8	0.5	0.5	0.6	0.5
All other states.....	54	40	47	40	2.4	2.0	2.2	3.0

TABLE 36.—PICKERS AND GARNETT MACHINES USED IN WOOL MANUFACTURES, BY STATES: 1919, 1914, 1909, AND 1904.

STATE.	NUMBER OF PICKERS.				NUMBER OF GARNETT MACHINES.			
	1919	1914	1909	1904	1919	1914	1909	1904
United States.....	1,223	1,392	1,565	1,812	211	221	251	245
Connecticut.....	98	93	106	120	19	21	22	20
Maine.....	92	120	105	135	15	15	18	17
Massachusetts.....	334	352	447	427	46	37	50	43
New Hampshire.....	92	111	98	127	9	12	12	17
New Jersey.....	45	50	60	73	3	2	1	3
New York.....	112	112	112	118	27	25	32	21
Pennsylvania.....	158	232	258	316	41	53	44	55
Rhode Island.....	46	55	72	94	9	15	15	24
Wisconsin.....	20	24	35	32	7	5	8	6
All other states.....	226	243	272	361	35	36	43	39

WOOLEN-GOODS AND WORSTED-GOODS INDUSTRIES.

Summary of principal materials used.—The quantity and cost of the principal materials used in the woolen-goods and worsted-goods industries are shown in Table 37 for 1919, 1914, 1909, and 1904.

TABLE 37.—MATERIALS USED IN THE WOOLEN-GOODS AND WORSTED-GOODS INDUSTRIES: 1919, 1914, 1909, AND 1904.

MATERIAL.	POUNDS.				COST.				PER CENT OF INCREASE, ¹ 1909-1919.	
	1919	1914	1909	1904	1919	1914	1909	1904	Pounds.	Cost.
Total cost.....					\$665,594,683	\$246,496,666	\$273,438,570	\$197,489,306		
Woolen goods.....					217,965,333	63,696,042	65,651,634	87,830,825		
Worsted goods.....					447,629,350	182,800,624	207,786,936	109,658,481		
Wool:										
In condition purchased.....	443,401,904	434,728,075	474,755,366	418,703,811	306,170,702	108,087,619	136,666,917	105,433,451	-6.6	124.0
Woolen goods.....	105,702,290	78,873,319	87,037,951	157,335,727	95,536,031	23,476,191	27,429,030	42,698,735	21.5	248.3
Worsted goods.....	337,699,614	355,854,756	387,717,415	261,368,084	210,634,671	84,611,428	109,237,887	62,734,716	-12.9	92.8
Domestic.....	245,830,276	266,634,300	310,602,279	319,800,490	170,882,888	64,571,871	85,018,238	78,673,136	-20.9	101.0
Woolen goods.....	63,859,091	62,236,522	73,514,264	132,656,502	59,940,553	19,312,679	23,779,436	37,311,572	-13.1	152.1
Worsted goods.....	181,971,185	204,397,808	237,088,015	187,143,988	110,942,335	45,259,192	61,238,802	41,361,564	-23.2	81.2
Foreign.....	197,631,628	168,003,085	164,153,087	98,903,321	135,287,814	43,515,748	51,648,679	26,760,315	20.4	161.9
Woolen goods.....	41,933,199	16,636,797	13,523,687	24,679,225	35,595,478	4,163,512	3,649,594	5,387,163	210.1	875.3
Worsted goods.....	155,698,429	151,456,888	150,629,400	74,224,096	99,692,336	39,352,236	47,999,085	21,373,152	3.4	107.7
Equivalent in scoured condition.....	263,830,462	257,448,746	290,706,970	241,280,065					-9.2	
Woolen goods.....	86,547,717	58,693,405	60,126,473	102,106,291					43.9	
Worsted goods.....	177,282,745	198,755,341	230,580,497	139,173,774					-23.1	
Mohair, and camel, alpaca, and vicuña hair.....	13,791,281	14,359,457	7,805,422	6,507,631	9,596,336	4,455,354	2,399,123	1,937,581	76.7	300.0
Woolen goods.....	1,316,941	2,270,349	1,290,055	1,311,741	1,570,100	613,729	346,634	375,378	2.1	353.0
Worsted goods.....	12,474,340	12,089,108	6,515,367	5,195,890	8,026,236	3,841,625	2,052,489	1,562,203	91.5	291.0
Other animal hair.....	14,489,813	14,701,502	17,356,100	22,987,332	3,050,987	1,062,810	932,911	1,369,776	-16.5	227.0
Woolen goods.....	11,290,996	13,928,703	16,429,808	22,442,973	1,649,803	993,554	848,178	1,304,690	-21.2	94.5
Worsted goods.....	3,192,817	832,799	926,292	544,359	1,401,184	69,256	84,733	65,086	241.0	1,553.6
Cotton.....	17,375,403	28,387,022	20,024,061	32,613,408	5,952,015	3,241,352	2,515,409	4,072,907	-13.2	136.6
Woolen goods.....	14,629,020	23,915,496	15,801,394	28,279,832	4,781,781	2,531,509	1,926,419	3,496,285	-7.4	148.2
Worsted goods.....	2,745,483	4,471,526	4,222,667	4,333,576	1,170,234	709,843	588,990	576,622	-35.0	98.7
Rags, clippings, etc.....	46,453,109	59,425,140	40,402,460	79,367,290	11,772,609	4,754,308	2,856,966	5,668,634	15.0	312.1
Woolen goods.....	45,763,399	58,745,504	38,387,554	79,381,946	11,678,720	4,717,847	2,691,458	5,668,272	19.2	330.2
Worsted goods.....	699,710	679,555	2,014,906	5,344	193,979	36,461	165,508	362	-65.3	17.2
Recovered wool fiber.....	33,163,696	26,276,924	21,454,187	31,919,456	13,518,853	3,551,217	3,058,214	4,472,666	54.6	342.1
Woolen goods.....	31,416,145	25,060,307	20,118,305	29,691,899	12,821,342	3,500,297	2,835,067	4,059,651	56.2	352.2
Worsted goods.....	1,747,551	316,617	1,335,882	2,327,557	697,511	50,920	223,147	413,015	30.8	212.6
Waste and noils of wool, mohair, camel hair, etc.....	43,738,241	42,411,874	26,473,311	26,032,838	28,018,729	8,906,485	7,523,283	6,056,227	65.2	272.4
Woolen goods.....	40,260,027	37,881,087	23,743,176	23,768,963	25,073,536	7,478,656	6,682,902	5,345,740	69.6	275.2
Worsted goods.....	3,477,014	4,530,787	2,730,136	2,263,875	2,945,193	1,427,829	840,381	710,487	27.4	250.5
Tops purchased.....	26,266,230	29,108,307	20,828,245	9,160,929	45,449,230	16,679,819	14,614,527	5,073,078	26.1	211.0
Woolen goods.....	533,758	590,716	558,938	198,746	738,326	303,283	412,590	113,464	-4.5	78.9
Worsted goods.....	25,732,481	28,515,591	20,269,307	8,962,183	44,710,904	16,376,536	14,201,937	4,959,614	27.0	214.8
Yarns purchased.....	83,984,486	90,925,586	102,550,361	72,677,847	150,701,646	57,195,198	68,586,014	37,842,274	-18.1	119.7
Woolen.....	8,361,784	2,168,371	931,222	5,750,988	12,887,478	1,174,815	558,270	2,622,882	797.9	2,208.5
Woolen goods.....	2,172,487	801,270	338,131	3,725,110	3,359,995	272,450	170,193	1,462,702	542.5	1,874.2
Worsted goods.....	6,189,297	1,367,101	593,091	2,024,978	9,527,483	902,365	388,077	1,160,180	943.6	2,355.0
Worsted.....	42,962,105	53,626,797	59,148,771	31,047,516	110,456,932	44,660,712	56,033,701	24,904,511	-27.4	97.1
Woolen goods.....	3,909,077	2,617,815	5,821,394	4,275,258	8,368,291	2,112,950	5,578,492	3,431,418	-32.8	50.1
Worsted goods.....	39,053,028	51,008,982	53,327,377	26,769,263	102,088,641	42,547,762	50,457,209	21,473,093	-26.8	102.3
Merino.....	1,604,553	530,863	1,971,709	2,458,085	2,185,286	168,519	318,456	581,107	-18.6	586.2
Woolen goods.....	797,952	470,837	1,870,073	1,579,080	561,712	145,250	264,867	270,989	-57.5	112.2
Worsted goods.....	806,601	51,026	95,636	879,005	1,623,574	23,269	53,589	320,118	743.4	2,929.7
Cotton.....	28,683,645	32,105,412	39,169,388	32,598,072	21,077,436	9,076,933	10,492,185	8,032,773	-26.8	100.9
Woolen goods.....	12,854,825	15,316,551	16,888,501	18,878,949	8,850,883	3,601,304	3,855,752	4,205,006	-23.9	129.6
Worsted goods.....	15,828,820	16,788,861	22,280,887	13,719,123	12,226,553	5,475,629	6,636,433	3,827,767	-20.0	84.2
Silk and spun silk.....	415,700	515,950	282,536	412,307	3,283,386	2,010,885	1,142,663	1,679,883	47.2	187.3
Woolen goods.....	84,218	111,580	70,959	107,377	605,681	274,857	227,319	364,732	18.7	166.4
Worsted goods.....	331,572	404,370	211,577	304,930	2,677,705	1,736,028	915,344	1,315,151	56.7	192.5
All other.....	1,956,609	1,978,193	1,046,735	411,779	811,128	103,334	40,739	21,118	86.9	1,891.0
Woolen goods.....	1,632,374	1,075,073	1,044,565	397,108	311,096	96,940	40,550	18,141	61.1	667.2
Worsted goods.....	274,235	3,120	2,170	14,671	500,032	6,394	189	2,977	12,537.6	264,467.2
Chemicals and dyestuffs.....					22,870,502	8,536,232	8,820,928	7,456,550		159.3
Woolen goods.....					11,392,624	3,517,991	3,370,501	4,632,981		238.0
Worsted goods.....					11,477,878	5,018,241	5,450,427	2,823,569		110.6
All other materials.....					68,492,984	30,026,272	25,464,278	18,086,162		
Woolen goods.....					30,765,412	6,831,338	8,973,682	10,392,641		
Worsted goods.....					37,727,572	23,194,934	16,490,596	7,693,521		

¹ A minus sign (-) denotes decrease.

Fibers used as materials.—The quantity for the different kinds of fibers used in these industries is shown for 1919 in Table 38.

TABLE 38.—FIBERS USED IN THE WOOLEN-GOODS AND WORSTED-GOODS INDUSTRIES: 1919.

MATERIAL.	POUNDS.		PER CENT DISTRIBUTION.		PER CENT OF TOTAL.	
	Woolen-goods industry.	Worsted-goods industry.	Woolen-goods industry.	Worsted-goods industry.	Woolen-goods industry.	Worsted-goods industry.
Total.....	203,133,831	201,403,010	100.0	100.0	50.2	49.8
Scoured wool (equivalent)	86,547,717	177,288,745	42.6	88.0	32.8	67.2
Wool waste and noils.....	38,522,138	3,300,640	19.0	1.6	92.1	7.9
Recovered wool fiber.....	49,081,630	2,224,011	24.2	1.1	95.7	4.3
Purchased.....	31,410,145	1,747,551	15.5	0.9	94.7	5.3
Made for consumption	17,665,485	476,460	8.7	0.2	97.4	2.6
Animal hair.....	12,613,937	15,067,157	6.2	7.8	44.6	55.4
Mohair, camel, alpaca, and vicuña noils.....	1,738,489	176,974	0.8	0.1	90.8	9.2
Cotton.....	14,629,920	2,745,483	7.2	1.4	84.2	15.8

Wool consumed.—Separate statistics are shown for the woolen-goods and worsted-goods industries in Table 39 with respect to the quantity and cost of wool consumed in 1919.

Products.—Table 40 gives a separate detailed summary of the kind, quantity, and value of products

for the woolen-goods and worsted-goods industries in 1919, 1914, and 1909.

TABLE 39.—WOOL USED IN THE WOOLEN-GOODS AND WORSTED-GOODS INDUSTRIES: 1919.

	Total.	Woolen-goods industry.	Worsted-goods industry.
Wool purchased:			
Pounds.....	443,461,904	105,792,290	337,669,614
Cost.....	\$306,170,702	\$96,536,031	\$210,634,671
Domestic—			
Pounds.....	245,830,276	63,859,091	181,971,185
Cost.....	\$170,882,888	\$59,940,553	\$110,942,335
Foreign—			
Pounds.....	197,631,628	41,933,199	155,698,429
Cost.....	\$135,287,814	\$35,595,478	\$99,692,336
Condition of wool purchased:			
In grease.....	Pounds. 365,785,620	Pounds. 36,735,257	Pounds. 329,050,363
Domestic.....	198,012,031	20,055,649	177,956,382
Foreign.....	167,773,589	16,679,608	151,093,981
Washed.....	6,888,040	2,225,277	4,662,763
Domestic.....	2,232,316	257,102	1,975,214
Foreign.....	4,655,724	1,968,175	2,687,549
Scoured.....	70,788,244	60,831,756	9,956,488
Domestic.....	45,585,929	43,546,340	2,039,589
Foreign.....	25,202,315	17,285,416	8,916,899
Equivalent total:			
In grease.....	610,616,887	167,980,843	342,636,044
Domestic.....	284,407,086	101,044,016	183,363,070
Foreign.....	226,209,801	66,936,827	159,272,974
Scoured.....	263,836,462	86,547,717	177,288,745
Domestic.....	142,213,079	58,249,971	83,963,108
Foreign.....	121,623,383	33,297,746	88,325,637

TABLE 40.—PRODUCTS OF WOOLEN-GOODS AND WORSTED-GOODS INDUSTRIES: 1919, 1914, AND 1909.

PRODUCT.	1919			1914			1909			Per cent of increase, ¹ 1909-1919.
	Total.	Woolen-goods industry.	Worsted-goods industry.	Total.	Woolen-goods industry.	Worsted-goods industry.	Total.	Woolen-goods industry.	Worsted-goods industry.	
Total value.....	\$1,055,435,072	\$364,896,590	\$700,537,482	\$379,484,379	\$103,815,005	\$275,668,474	\$419,743,521	\$107,118,858	\$312,624,663	153.8
Woven goods: ²										
Pounds.....	332,208,704	207,280,978	124,927,726	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)	—6.1
Square yards.....	535,937,572	263,021,026	282,316,546	565,462,169	228,502,087	336,960,172	570,743,797	215,673,405	355,070,392	149.4
Value.....	\$739,279,795	\$315,706,118	\$423,483,677	\$238,679,480	\$89,683,731	\$178,995,749	\$296,447,694	\$95,239,764	\$201,207,930	1.2
All-wool woven goods:										160.2
Pounds.....	211,074,296	110,793,743	94,280,553	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)	—21.9
Square yards.....	326,714,779	134,099,416	192,615,363	323,097,563	85,685,208	237,472,355	322,044,365	91,526,966	231,417,399	100.1
Value.....	\$572,043,595	\$216,865,168	\$355,178,427	\$203,900,017	\$53,056,310	\$150,843,707	\$219,853,767	\$58,066,651	\$160,887,116	—55.1
Woolen suitings, overcoatings, and dress goods—										48.0
Pounds.....	117,149,070	106,089,121	11,059,949	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)	—21.9
Square yards.....	139,410,352	119,523,723	19,886,629	90,950,381	74,220,650	16,729,731	84,641,705	74,292,529	10,349,176	327.1
Value.....	\$243,072,041	\$104,002,522	\$138,469,519	\$55,600,503	\$45,444,007	\$10,156,496	\$50,907,413	\$48,624,619	\$2,282,794	—21.9
Worsted suitings, overcoatings, and dress goods—										100.1
Pounds.....	85,981,863	2,964,328	83,017,535	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)	—55.1
Square yards.....	176,506,452	4,348,267	172,158,185	222,420,785	2,608,763	219,812,022	226,110,822	7,249,428	218,861,394	48.0
Value.....	\$313,679,634	\$9,172,426	\$304,507,208	\$141,778,035	\$2,137,030	\$139,641,005	\$150,755,217	\$5,700,731	\$150,054,486	—55.1
Flannels for underwear—										48.0
Pounds.....	825,886	825,886	(⁵)	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)	—55.1
Square yards.....	1,733,250	1,733,250	(⁵)	2,176,264	2,176,264	(⁴)	3,850,353	3,899,013	456,440	48.0
Value.....	\$1,860,585	\$1,860,585	(⁵)	\$880,494	\$880,494	(⁴)	\$1,267,271	\$952,078	\$304,293	15.1
Blankets—										113.6
Pounds.....	4,975,438	4,953,831	21,607	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)	—21.9
Square yards.....	5,916,197	5,896,557	19,640	6,489,689	5,786,215	703,474	5,137,903	4,402,330	735,573	113.6
Value.....	\$6,807,923	\$6,837,897	\$60,026	\$4,186,764	\$3,843,893	\$342,861	\$3,228,797	\$2,563,019	\$665,778	56.8
Horse blankets—										250.0
Pounds.....	216,024	216,024	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)	—61.5
Square yards.....	387,926	387,926	(⁴)	102,205	102,205	(⁴)	247,395	247,395	(⁴)	44.7
Value.....	\$648,990	\$648,990	(⁴)	\$82,398	\$82,398	(⁴)	\$185,430	\$185,430	(⁴)	—61.5
Carriage cloths—										—61.5
Pounds.....	587,041	587,041	(⁵)	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)	—61.5
Square yards.....	687,241	687,241	(⁵)	514,226	514,226	(⁴)	1,782,855	1,246,423	536,432	—61.5
Value.....	\$1,371,356	\$1,371,356	(⁵)	\$443,223	\$443,223	(⁴)	\$647,802	\$623,981	\$23,821	—61.5
Carriage robes—										—61.5
Pounds.....	(⁵)	(⁵)	(⁵)	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)	—61.5
Square yards.....	(⁵)	(⁵)	(⁵)	132,309	132,309	(⁴)	85,179	85,179	(⁴)	—61.5
Value.....	(⁵)	(⁵)	(⁵)	\$158,900	\$158,900	(⁴)	\$17,642	\$17,642	(⁴)	—61.5
Shawls—										23.4
Pounds.....	590,667	590,667	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)	(⁴)	23.4
Square yards.....	888,971	888,971	(⁴)	124,488	124,488	(⁴)	704,153	603,709	100,444	111.1
Value.....	\$854,041	\$854,041	(⁴)	\$66,365	\$66,365	(⁴)	\$404,583	\$338,251	\$66,332	111.1

¹ A minus sign (—) denotes decrease.

² In addition, in 1919, woolen and worsted goods to the value of \$12,624,758; in 1914, to the value of \$2,635,889; and in 1909, to the value of \$3,183,485, were made by establishments engaged primarily in other industries. Of these amounts products to the value of \$3,504,372 in 1919, \$1,500,507 in 1914, and \$1,902,187 in 1909 were made by carpet and rug and felt-goods mills.

³ Does not include woven upholstery goods.

⁴ Not reported in 1914 and 1909.

⁵ Can not be shown separately; included in "All other" for the group.

WOOL MANUFACTURES.

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TABLE 40.—PRODUCTS OF WOOLEN-GOODS AND WORSTED-GOODS INDUSTRIES: 1919, 1912, AND 1909—Continued.

PRODUCT.	1919			1914			1909			Per cent of increase, ¹ 1909-1919.
	Total.	Woolen-goods industry.	Worsted-goods industry.	Total.	Woolen-goods industry.	Worsted-goods industry.	Total.	Woolen-goods industry.	Worsted-goods industry.	
All-wool woven goods—Continued.										
All other—										
Pounds.....	748,307	566,845	181,462	(2)	(2)	(2)	(2)	(2)	(2)	218.6
Square yards.....	1,204,390	653,481	550,909	127,128	127,128	378,000	378,000	378,000	378,000	2,346.7
Value.....	\$3,050,025	\$1,517,341	\$2,141,684	\$133,345	\$133,345	\$149,552	\$149,552	\$149,552	\$149,552	
Cotton-warp woven goods: ²										
Pounds.....	79,429,188	51,030,001	27,499,187	(2)	(2)	(2)	(2)	(2)	(2)	—23.2
Square yards.....	161,445,850	77,010,001	83,826,249	196,179,866	102,930,421	93,249,445	210,346,081	90,351,205	119,994,875	89.7
Value.....	\$118,137,023	\$57,495,230	\$60,642,596	\$48,810,015	\$22,692,131	\$26,117,884	\$62,265,854	\$23,563,020	\$38,702,834	
Woolen-filling suitings, overcoatings, and dress goods—										
Pounds.....	23,771,643	22,738,473	1,033,170	(2)	(2)	(2)	(2)	(2)	(2)	—35.0
Square yards.....	39,140,902	37,100,050	2,040,246	53,609,462	48,284,320	5,325,142	60,230,428	58,313,577	1,917,851	122.4
Value.....	\$34,736,320	\$31,508,800	\$3,226,520	\$13,598,007	\$11,878,272	\$1,719,735	\$15,621,015	\$14,523,651	\$1,097,364	
Worsted-filling suitings, overcoatings, and dress goods—										
Pounds.....	21,300,561	1,214,980	20,085,581	(2)	(2)	(2)	(2)	(2)	(2)	—35.8
Square yards.....	57,896,787	2,659,716	55,237,071	56,703,091	2,096,072	54,607,019	94,643,217	3,961,730	90,681,487	51.1
Value.....	\$45,342,581	\$2,040,078	\$43,302,503	\$15,563,099	\$665,342	\$14,897,757	\$30,003,046	\$1,413,950	\$28,589,096	
Domest flannels and shirtings—										
Pounds.....	11,780,531	11,409,777	370,754	(2)	(2)	(2)	(2)	(2)	(2)	336.1
Square yards.....	22,223,880	21,183,490	1,040,384	16,092,266	16,092,266	(4)	4,571,765	4,571,765	(4)	1,172.0
Value.....	\$11,000,377	\$10,596,709	\$1,003,668	\$2,814,054	\$2,814,054	(4)	\$911,967	\$911,967	(4)	
Linings, Italian cloth, and lastings—										
Pounds.....	595,222	595,222	(4)	(2)	(2)	(2)	(2)	(2)	(2)	—97.4
Square yards.....	742,602	742,602	(4)	30,196,243	2,355,141	33,841,102	28,928,148	2,413,630	26,514,518	—94.1
Value.....	\$532,411	\$532,411	(4)	\$9,804,661	\$312,889	\$9,491,772	\$9,008,799	\$241,335	\$8,767,464	
Satinets and linseys—										
Pounds.....	5,863,838	5,863,838	(4)	(2)	(2)	(2)	(2)	(2)	(2)	—9.1
Square yards.....	4,637,678	4,637,678	(4)	8,415,079	8,415,079	(4)	5,102,460	5,102,460	(4)	285.6
Value.....	\$3,517,427	\$3,517,427	(4)	\$1,535,291	\$1,535,291	(4)	\$912,182	\$912,182	(4)	
Blankets—										
Pounds.....	7,603,701	7,603,701	(4)	(2)	(2)	(2)	(2)	(2)	(2)	—5.2
Square yards.....	9,244,134	9,244,134	(4)	17,973,821	17,973,821	(4)	9,746,841	8,803,680	843,161	171.5
Value.....	\$7,289,253	\$7,289,253	(4)	\$3,010,070	\$3,010,070	(4)	\$2,684,919	\$2,509,409	\$175,510	
Horse blankets—										
Pounds.....	1,448,015	1,448,015	(4)	(2)	(2)	(2)	(2)	(2)	(2)	—68.9
Square yards.....	1,307,789	1,307,789	(4)	5,831,805	5,831,805	(4)	4,210,098	4,197,932	12,166	—42.9
Value.....	\$957,427	\$957,427	(4)	\$1,539,526	\$1,539,526	(4)	\$1,676,942	\$1,674,509	\$2,433	
Carriage robes—										
Pounds.....	1,055,935	1,055,935	(4)	(2)	(2)	(2)	(2)	(2)	(2)	—74.3
Square yards.....	743,570	743,570	(4)	1,282,417	1,282,417	(4)	2,889,444	2,882,171	7,273	—25.1
Value.....	\$1,040,525	\$1,040,525	(4)	\$936,687	\$936,687	(4)	\$1,396,595	\$1,376,595	\$20,000	
All other—										
Pounds.....	6,000,682	6,000,682	(4)	(2)	(2)	(2)	(2)	(2)	(2)	144,145.2
Square yards.....	25,502,548	25,502,548	(4)	116,182	116,182	(4)	17,680	4,261	13,419	25,930.1
Value.....	\$13,110,305	\$13,110,305	(4)	\$14,620	\$14,620	(4)	\$50,389	\$3,422	\$46,967	
Union or cotton-mixed woven goods:										
Pounds.....	41,705,220	38,557,234	3,147,986	(2)	(2)	(2)	(2)	(2)	(2)	27.6
Square yards.....	47,770,943	41,902,000	5,874,934	46,244,730	40,067,358	6,177,372	37,453,351	33,795,233	3,658,118	242.7
Value.....	\$49,098,574	\$41,435,730	\$7,662,844	\$16,473,448	\$13,935,290	\$2,538,158	\$14,327,973	\$12,710,083	\$1,617,890	
Cotton-mixed suitings, overcoatings, and dress goods—										
Pounds.....	19,497,282	17,043,021	2,454,261	(2)	(2)	(2)	(2)	(2)	(2)	—10.6
Square yards.....	24,615,373	22,046,401	2,568,972	31,400,082	28,549,109	2,850,973	27,518,766	23,870,638	3,648,128	118.5
Value.....	\$26,046,387	\$23,507,042	\$2,539,345	\$11,710,610	\$10,243,869	\$1,466,741	\$11,920,956	\$10,306,066	\$1,614,890	
Flannels for underwear—										
Pounds.....	2,610,419	2,610,419	(4)	(2)	(2)	(2)	(2)	(2)	(2)	—8.0
Square yards.....	6,497,990	6,497,990	(4)	4,995,575	4,995,575	(4)	7,063,572	7,063,572	(4)	297.8
Value.....	\$5,205,330	\$5,205,330	(4)	\$1,089,661	\$1,089,661	(4)	\$1,308,369	\$1,308,369	(4)	
Blankets—										
Pounds.....	7,459,554	7,459,554	(4)	(2)	(2)	(2)	(2)	(2)	(2)	477.7
Square yards.....	9,922,925	9,922,925	(4)	3,937,463	3,937,463	(4)	1,717,758	1,717,758	(4)	1,224.2
Value.....	\$8,616,905	\$8,616,905	(4)	\$2,067,934	\$2,067,934	(4)	\$650,714	\$650,714	(4)	
Horse blankets—										
Pounds.....	2,231,162	2,231,162	(4)	(2)	(2)	(2)	(2)	(2)	(2)	
Square yards.....	395,858	395,858	(4)	2,231,162	2,231,162	(4)	694,176	694,176	(4)	
Value.....	\$395,858	\$395,858	(4)	\$395,858	\$395,858	(4)	\$186,233	\$186,233	(4)	
Carriage robes—										
Pounds.....	699,016	699,016	(4)	(2)	(2)	(2)	(2)	(2)	(2)	20.6
Square yards.....	553,869	553,869	(4)	354,049	354,049	(4)	459,089	449,089	10,000	229.3
Value.....	\$561,820	\$561,820	(4)	\$137,968	\$137,968	(4)	\$261,696	\$253,696	\$8,000	
All other—										
Pounds.....	11,438,949	10,145,224	1,293,725	(2)	(2)	(2)	(2)	(2)	(2)	
Square yards.....	6,185,780	2,880,824	3,305,956	3,326,899	3,326,899	(4)	3,326,899	3,326,899	(4)	
Value.....	\$5,369,132	\$3,244,633	\$5,124,499	\$1,071,417	\$1,071,417	(4)	\$1,071,417	\$1,071,417	(4)	
Upholstery goods and sundries, value.....	\$3,481,933	\$352,362	\$3,129,571	\$2,042,029	\$1,543,881	\$498,148	\$1,986,330	\$1,121,499	\$864,831	327.0
Woolens, worsted, and mohair upholstery goods—										
Pounds.....	2,741,232	242,353	2,498,879	(2)	(2)	(2)	(2)	(2)	(2)	276.5
Square yards.....	4,429,876	330,191	4,099,685	1,598,444	1,351,262	247,182	1,176,542	681,272	495,270	168.0
Value.....	\$3,944,134	\$344,362	\$3,599,772	\$1,809,474	\$1,539,381	\$270,093	\$1,528,648	\$1,121,499	\$407,149	891.4
All other, value.....	\$4,537,490	\$8,000	\$4,529,490	\$232,555	\$4,500	(4)	\$457,682	(4)	(4)	

¹ A minus sign (—) denotes decrease.
² Not reported in 1914 and 1909.

³ Includes woolen and cotton warps with cotton fillings.
⁴ Can not be shown separately; included in "All other" for the group.

TABLE 40.—PRODUCTS OF WOOLEN-GOODS AND WORSTED-GOODS INDUSTRIES: 1919, 1914, AND 1909—Continued.

PRODUCT.	1919			1914			1909			Per cent of increase, 1909-1919.
	Total.	Woolen-goods industry.	Worsted-goods industry.	Total.	Woolen-goods industry.	Worsted-goods industry.	Total.	Woolen-goods industry.	Worsted-goods industry.	
Yarns for sale:										
Pounds.....	118,309,923	32,583,513	85,724,410	132,559,701	33,416,266	99,143,435	134,051,361	34,952,665	99,098,696	-11.7
Value.....	\$237,534,451	\$31,837,200	\$205,697,251	\$85,872,215	\$9,255,625	\$76,616,590	\$94,541,753	\$8,192,183	\$86,349,570	151.2
Woolen—										
Pounds.....	28,387,039	21,706,444	6,680,595	26,125,575	18,723,346	7,402,229	28,520,493	22,087,764	6,432,729	-0.5
Value.....	\$32,828,522	\$23,760,259	\$9,068,263	\$8,783,020	\$0,344,824	\$2,438,196	\$7,505,412	\$5,396,012	\$2,108,800	337.4
Worsted—										
Pounds.....	74,336,549	134,172	74,202,377	86,412,097	840,585	85,571,512	88,323,053	423,000	87,900,053	-15.8
Value.....	\$185,124,293	\$53,071	\$185,071,222	\$69,801,271	\$400,736	\$69,400,535	\$80,395,543	\$343,931	\$80,051,612	130.3
Woolen, union or merino—										
Pounds.....	9,150,149	8,770,901	379,248	6,473,849	6,473,849	.....	10,240,025	10,133,715	115,910	-10.7
Value.....	\$6,808,543	\$6,101,512	\$707,031	\$1,689,530	\$1,689,530	.....	\$2,143,416	\$2,099,087	\$44,320	217.6
Worsted, union or merino—										
Pounds.....	4,217,801	887,093	3,329,808	4,048,514	.....	4,048,514	3,761,737	50,000	3,711,737	12.1
Value.....	\$9,328,704	\$321,374	\$8,507,390	\$3,173,034	.....	\$3,173,034	\$3,522,812	\$30,000	\$3,492,812	164.8
All other—										
Pounds.....	2,218,385	1,090,003	1,128,382	9,499,660	7,378,486	2,121,180	3,195,553	2,258,186	937,367	-30.6
Value.....	\$3,444,320	\$1,100,984	\$2,343,345	\$2,425,360	\$820,535	\$1,604,825	\$974,570	\$322,553	\$652,017	233.4
Worsted tops and slubbing:										
Pounds.....	9,899,257	.....	9,899,257	8,985,170	.....	8,985,170	11,321,279	.....	11,321,279	-12.6
Value.....	\$14,503,006	.....	\$14,503,006	\$4,920,920	.....	\$4,920,920	\$8,027,231	.....	\$8,027,231	80.7
Nolls:										
Pounds.....	24,054,141	205,855	23,848,286	23,961,100	91,807	23,869,293	27,479,203	335,011	27,144,282	-12.5
Value.....	\$17,809,446	\$134,580	\$17,674,866	\$6,819,690	\$23,901	\$6,795,789	\$8,938,589	\$70,352	\$8,868,237	99.2
Waste:										
Pounds.....	28,020,816	10,064,783	17,956,033	26,433,970	5,769,336	20,664,634	24,420,444	3,994,358	20,426,086	14.8
Value.....	\$6,990,279	\$805,705	\$6,184,484	\$3,320,447	\$232,438	\$3,088,009	\$3,534,761	\$200,691	\$3,334,070	97.8
All other products, value.....	\$22,448,029	\$11,212,034	\$11,236,595	\$4,380,953	\$2,497,119	\$1,883,834	\$3,241,008	\$1,728,993	\$1,512,015	592.6
Contract work, value.....	\$18,380,833	\$4,758,495	\$13,622,338	\$3,430,036	\$579,210	\$2,857,426	\$3,020,255	\$565,386	\$2,460,869	507.6

A minus sign (—) denotes decrease.

Machinery.—The machinery used in these two industries in 1919 and 1914 is shown in Table 41 according to kind and quantity for each. Only such machinery as would indicate the progress of these industries is taken into account.

TABLE 41.—MACHINERY USED IN THE WOOLEN-GOODS AND WORSTED-GOODS INDUSTRIES: 1919 AND 1914.

	Cen- sus year.	Total.	Woolen.	Worsted.	Shoddy.	Cotton.		Cen- sus year.	Total.	American.		Foreign.	
										English or Brad- ford.	Other.	English or Brad- ford.	Other.
Cards, number.....	1919 1914	7,075 6,332	4,675 4,014	2,061 1,965	161 208	178 145							
Spindles.....	1919 1914	4,076,129 4,722,032	2,019,553 1,747,561	2,903,503 2,885,593	12,997 27,450	40,076 61,422	Wool-combing machines..	1919 1914	2,197 2,305	636 474	18 11	1,068 1,437	475 383
Mule spinning.....	1919 1914	2,601,445 2,348,721	1,915,672 1,651,173	673,592 669,926	12,181 27,456	..... 166	Pickers.....	1919 1914	1,057 1,201	.....	.....	.....	.....
Frame spinning.....	1919 1914	1,603,567 1,531,802	22,037 9,168	1,643,862 1,463,238	576	36,192 60,450	Garnett machines.....	1919 1914	155 165	.....	.....	.....	.....
Doubling and twisting..	1919 1914	771,117 841,449	80,944 87,220	686,049 752,429	240	3,884 1,800							
Looms.....	1919 1914	75,720 75,828	30,427 27,295	43,704 40,589	512 1,102	1,085 842							

1 Sets of cards.

2 In addition, in 1919, 858 looms were employed by carpet and rug establishments on woolen and worsted woven goods.

3 In addition, in 1914, 36 looms, were employed by carpet and rug establishments on woolen and worsted woven goods.

CARPET AND RUG INDUSTRY.

This industry does not include establishments manufacturing rag carpets and rugs as a primary product, although the carpet and rug industry, with 75 establishments in 1919, manufactured rag rugs amounting to \$512,047, in connection with wool carpets and rugs, as will be seen by reference to Table 45.

General summary for the industry.—Table 42 relates to the principal statistics of the wool carpet and rug industry as compared with other industries manufacturing floor coverings.

TABLE 42.—PRINCIPAL STATISTICS OF THE CARPET AND RUG INDUSTRY COMPARED WITH OTHER INDUSTRIES MANUFACTURING FLOOR COVERINGS: 1919.

	FLOOR COVERING. ¹					PER CENT OF TOTAL.			
	Total.	Carpets and rugs, other than rag.	Rag carpets.	Mats and matting.	Oilcloth and linoleum, floor.	Carpets and rugs, other than rag.	Rag carpets.	Mats and matting.	Oilcloth and linoleum, floor.
Number of establishments.....	447	75	339	12	21	16.8	75.8	2.7	4.7
Persons engaged.....	34,394	24,251	2,716	1,173	6,254	70.5	7.9	3.4	18.2
Proprietors and firm members.....	451	60	391	7	3	11.1	86.7	1.5	0.7
Salaried employees.....	2,507	1,268	309	93	837	50.6	12.3	3.7	33.4
Wage earners (average number).....	31,436	22,933	2,016	1,073	5,414	73.0	6.4	3.4	17.2
Primary horsepower.....	66,023	38,170	2,674	1,670	23,509	57.8	4.1	2.5	35.6
Capital.....	\$179,044,224	\$119,196,461	\$2,853,400	\$7,190,675	\$49,803,688	66.6	1.6	4.0	27.8
Salaries and wages.....	40,238,073	28,965,905	1,984,371	1,040,251	8,297,546	72.0	4.8	2.6	20.6
Salaries.....	7,142,755	4,749,784	383,870	229,644	1,779,457	66.5	5.4	3.2	24.9
Wages.....	33,095,318	24,216,121	1,550,501	810,607	6,518,089	73.2	4.7	2.4	19.7
Paid for contract work.....	138,253	86,718	39,936	3,303	8,298	62.7	28.9	2.4	6.0
Rent and taxes (including internal revenue).....	6,474,246	3,984,671	139,521	225,977	2,124,077	61.5	2.2	3.5	32.8
Cost of materials.....	101,627,196	67,118,639	2,037,874	2,102,580	30,368,703	66.0	2.0	2.1	29.9
Value of products ²	186,384,946	123,253,828	5,597,057	4,880,855	52,673,206	66.1	3.0	2.6	28.3
Value added by manufacture ³	84,757,750	56,135,789	3,550,183	2,758,275	22,304,503	66.2	4.2	3.3	26.3

¹ Not including 3 establishments manufacturing wood carpets, statistics for which can not be shown without the disclosure of individual operations.

² In addition, jute carpets and rugs, to the value of \$1,600,677, were reported by manufacturers of jute goods.

³ Value of products less cost of materials.

Materials.—An itemized account of the principal materials used in the carpet and rug industry is given in Table 43 for 1919, 1914, 1909, and 1904.

TABLE 43.—MATERIALS USED IN THE CARPET AND RUG INDUSTRY: 1919, 1914, 1909, AND 1904.

MATERIAL.	1919	1914	1909	1904
Total cost.....	\$67,118,039	\$42,280,223	\$39,563,004	\$37,947,954
Wool:				
In condition purchased—				
Pounds.....	36,261,904	52,552,449	64,135,020	51,820,521
Cost.....	\$13,258,009	\$10,493,743	\$11,752,396	\$10,431,146
Equivalent of above in scour-				
ed condition, pounds.....	21,905,016	30,218,831	51,474,353	31,551,895
Animal hair:				
Pounds.....	6,272,522	3,469,283	5,400,944	6,805,802
Cost.....	\$1,847,832	\$402,225	\$474,067	\$593,588
Cotton:				
Pounds.....	3,864,826	3,802,789	5,147,130	1,997,369
Cost.....	\$1,426,110	\$343,916	\$533,302	\$251,112
Waste and noils:				
Pounds.....	560,664	3,419,715	2,732,034	2,172,481
Cost.....	\$130,290	\$476,610	\$513,392	\$341,309
Yarns, purchased:				
Woolen—				
Pounds.....	17,389,590	21,026,360	25,718,747	32,431,400
Cost.....	\$11,837,800	\$5,821,948	\$5,036,118	\$5,648,001
Worsted—				
Pounds.....	4,164,565	9,267,278	11,292,749	11,355,993
Cost.....	\$4,479,898	\$4,592,906	\$5,588,915	\$5,405,072
Cotton—				
Pounds.....	17,809,949	24,619,137	26,166,241	27,421,831
Cost.....	\$5,972,737	\$4,637,673	\$4,772,594	\$4,757,850
Linen—				
Pounds.....	2,280,055	7,602,200	8,792,876	8,228,200
Cost.....	\$1,062,197	\$1,414,924	\$1,606,009	\$1,355,892
Jute, ramie, and other vego-				
table fibers—				
Pounds.....	45,110,812	59,148,266	55,502,343	49,119,558
Cost.....	\$9,399,764	\$9,040,186	\$3,926,094	\$3,404,516
Other yarns—				
Pounds.....	921,655	341,114	781,028	1,112,138
Cost.....	\$1,788,833	\$658,254	\$408,121	\$339,285
Chemicals and dyestuffs, cost.....	\$2,617,202	\$1,378,509	\$1,729,492	\$1,467,476
All other materials, cost.....	\$10,497,807	\$6,019,429	\$3,221,914	\$2,952,707

Products.—A summary of products for the industry, covering a number of years, is shown in Table 44, while Table 45 relates to the production of carpets, rugs made of sewed strips, and rugs woven whole, according to the various kind for each.

TABLE 44.—PRODUCTS OF THE CARPET AND RUG INDUSTRY: 1919, 1914, 1909, AND 1904.

PRODUCT.	1919	1914	1909	1904
Total value.....	\$123,253,828	\$69,128,185	\$71,188,152	\$61,586,433
Carpets and rugs:				
Pounds.....	118,071,798	(²)	(²)	(²)
Square yards.....	52,173,092	66,340,274	81,218,881	82,670,843
Value.....	\$110,115,978	\$64,688,322	\$66,966,338	\$56,861,775
Arminster and mo-				
quette—				
Pounds.....	36,667,823	(²)	(²)	(¹)
Square yards.....	14,700,394	15,742,835	15,691,358	8,181,606
Value.....	\$35,503,778	\$18,578,693	\$17,372,706	\$3,476,140
Wilton—				
Pounds.....	16,464,515	(²)	(²)	(²)
Square yards.....	4,964,321	5,616,263	5,343,616	2,895,058
Value.....	\$23,461,960	\$11,929,605	\$10,119,330	\$4,710,444
Brussels—				
Pounds.....	2,399,118	(²)	(²)	(²)
Square yards.....	903,127	2,698,840	4,436,457	3,024,162
Value.....	\$2,233,053	\$3,995,626	\$5,550,189	\$3,898,675
Tapestry velvet—				
Pounds.....	22,443,519	(²)	(²)	(²)
Square yards.....	9,865,798	13,227,819	10,660,170	8,033,288
Value.....	\$20,625,610	\$12,867,635	\$9,027,193	\$7,754,681
Tapestry Brussels—				
Pounds.....	20,205,086	(²)	(²)	(²)
Square yards.....	9,995,099	13,614,354	17,078,476	16,108,908
Value.....	\$13,120,096	\$9,852,647	\$12,999,333	\$11,464,716
Ingrain carpets—				
Pounds.....	1,357,793	(²)	(²)	(²)
Square yards.....	1,199,714	5,795,807	17,799,762	33,557,951
Value.....	\$1,055,242	\$2,241,294	\$6,749,672	\$13,287,302

¹ In addition, in 1919, carpets and rugs, to the value of \$40,089, in 1909 to the value of \$479,161, and in 1904 to the value of \$70,000 were made in establishments engaged primarily in the manufacture of products other than those covered by the industry designation.

² Not reported in 1914, 1909, and 1904.

TABLE 44.—PRODUCTS OF THE CARPET AND RUG INDUSTRY: 1919, 1914, 1909, AND 1904—Continued.

PRODUCT.	1919	1914	1909	1904
Carpets and rugs—Continued.				
Ingrain art squares—				
Pounds.....	976,122	(¹)	(¹)	(¹)
Square yards.....	820,911	3,177,503	6,131,862	7,135,546
Value.....	\$714,648	\$1,165,087	\$2,408,960	\$2,785,457
Smyrna rugs—				
Pounds.....	2,658,300	(¹)	(¹)	(¹)
Square yards.....	807,741	822,150	1,400,233	3,828,282
Value.....	\$1,914,201	\$870,891	\$1,600,322	\$4,134,500
Other carpets and rugs—				
Pounds.....	14,899,432	(¹)	(¹)	(¹)
Square yards.....	8,914,987	5,644,643	2,676,947	406,042
Value.....	\$11,487,390	\$3,181,844	\$1,078,633	\$349,860
All other products, value.....	\$13,137,850	\$4,444,863	\$4,221,814	\$4,724,658

¹ Not reported in 1914, 1909, and 1904.

TABLE 45.—PRODUCTS OF THE CARPET AND RUG INDUSTRY: 1919 AND 1914.

PRODUCT.	1919			1914	
	Pounds.	Square yards.	Value.	Square yards.	Value.
Carpets, total.....	27,015,936	11,966,209	\$23,509,093	17,311,347	\$15,186,790
Axminster and moquette.....	4,903,286	2,024,291	4,906,378	1,451,752	1,848,523
Wilton.....	3,936,370	1,227,816	4,522,887	1,900,948	3,546,480
Brussels.....	210,161	148,686	219,066	693,827	1,030,398
Tapestry velvet.....	9,911,401	4,376,196	9,318,832	4,856,066	4,813,992
Tapestry Brussels.....	4,305,618	2,000,294	2,656,088	2,012,947	1,706,108
Ingrain.....	1,357,793	1,199,714	1,055,242	5,795,807	2,241,294
All other.....	2,391,307	989,212	830,600	.....	.....
Rugs, made of sewed strips, total.....	34,669,358	12,472,380	34,588,983	20,854,526	25,945,708
Axminster and moquette.....	18,682,656	7,509,480	14,995,835	9,637,852	10,659,397
Wilton.....	10,218,547	2,954,691	14,586,636	3,574,464	8,015,747
Brussels.....	2,173,957	744,100	1,908,987	2,000,819	2,956,198
Tapestry velvet.....	2,835,775	1,292,488	2,301,044	2,918,657	2,437,296
Tapestry Brussels.....	468,597	116,988	552,593	2,727,734	1,877,070
All other.....	289,826	154,573	173,888	.....	.....
Rugs, woven whole, total.....	56,356,504	27,734,603	51,957,902	28,174,401	23,550,824
Axminster and moquette.....	13,081,881	5,466,623	15,541,565	4,653,231	6,070,773
Wilton.....	2,309,598	781,814	4,352,437	140,851	367,378
Brussels.....	15,000	10,281	45,000	4,194	9,030
Tapestry velvet.....	9,696,343	4,197,114	9,005,734	5,458,096	5,616,347
Tapestry Brussels.....	15,430,871	7,878,817	9,901,415	8,273,673	6,260,474
Ingrain.....	976,122	820,911	714,648	3,177,503	1,165,087
Smyrna.....	2,658,300	807,741	1,914,201	822,150	870,891
Chenille—Axminster.....	1,182,825	310,181	2,526,851	178,058	714,798
Wool and paper fiber.....	9,627,739	6,828,638	9,247,954	4,168,954	1,543,079
Colonial, or rag rugs.....	643,356	293,941	512,047	.....	.....
All other.....	764,379	338,442	1,196,050	1,207,631	923,967

Wool consumed in the industry.—The quantity and cost of domestic and foreign wool used in the industry during 1919 is shown in Table 46. A separate account is given in the table for the quantity of wool in the condition purchased with the equivalent total, in grease, and scoured.

TABLE 46.—WOOL USED IN THE CARPET AND RUG INDUSTRY: 1919.

	Pounds.	Cost.
Wool purchased.....		
Domestic.....	36,261,904	\$13,258,069
Foreign.....	395,875	166,211
	36,657,779	13,424,280
In condition purchased:		
In grease.....		
Domestic.....	31,816,675	.....
Foreign.....	324,247	.....
Washed.....	31,492,428	.....
Domestic.....	2,378,592	.....
Foreign.....	40,573	.....
Scoured.....	2,338,019	.....
Domestic.....	2,066,637	.....
Foreign.....	31,055	.....
Equivalent total:		
In grease.....	38,896,665	.....
Domestic.....	433,005	.....
Foreign.....	38,463,660	.....
Scoured.....	21,905,016	.....
Domestic.....	248,900	.....
Foreign.....	21,657,016	.....

Summary of machinery used.—The types of machines which would indicate the magnitude of the industry are shown, by states, in Table 47 for the year 1919.

TABLE 47.—MACHINERY USED IN THE CARPET AND RUG INDUSTRY, BY STATES: 1919.

KIND.	NUMBER.					
	Total.	Connecticut.	Massachusetts.	New Jersey.	New York.	Pennsylvania.
Cards, number.....	592	64	61	13	381	73
Woolen (number of sets).....	463	50	33	13	298	69
Worsted and cotton.....	129	14	28	.....	83	4
Spindles.....	233,226	20,526	62,520	3,300	123,612	22,968
Producing spindles.....	199,360	20,126	52,436	3,300	103,594	19,914
Mule.....	126,788	9,282	41,504	3,300	57,788	14,914
Woolen.....	118,868	9,282	41,504	3,300	49,868	14,914
Worsted.....	7,920	.....	.....	.....	7,920	.....
Frame.....	72,572	10,844	10,932	.....	45,796	5,000
Woolen.....	7,792	.....	.....	.....	7,792	.....
Worsted.....	57,740	10,844	10,932	.....	30,964	5,000
Cotton.....	7,040	.....	.....	.....	7,040	.....
Doubling and twisting spindles.....	33,866	400	10,384	.....	20,028	3,054
Woolen.....	9,238	.....	4,368	.....	4,488	382
Worsted.....	19,652	400	4,016	.....	12,636	2,600
Cotton and paper.....	4,976	.....	2,000	.....	2,904	172
Looms.....	9,256	536	1,085	235	3,113	4,287
Carpet.....	4,205	175	507	.....	1,701	1,822
Rug.....	3,952	361	578	235	1,224	1,554
Other.....	1,099	.....	.....	.....	188	911
Wool-combing machines.....	85	13	13	.....	55	4
Pickers.....	60	7	3	2	48	6
Garnett machines.....	21	.....	7	3	10	1

¹ Includes 2,072 spindles for twisting paper stock, distributed as follows: Massachusetts, 2,000; Pennsylvania, 72.

Looms used in the industry.—Table 48 presents statistics concerning the number and kind of looms used in the industry in 1919, 1914, 1909, and 1904, and Table 49 shows the distribution of looms, by states.

TABLE 48.—LOOMS USED IN THE CARPET AND RUG INDUSTRY: 1919, 1914, 1909, AND 1904.

KIND	NUMBER.			
	1919	1914	1909	1904
Looms on carpets and rugs, total.....	18,157	9,852	11,943	11,692
Power looms.....	7,897	9,821	11,736	11,002
Hand looms.....	260	31	207	690
Ingrain:				
Power.....	620	1,251	2,884	4,189
Hand.....	11		26	82
Broad ingrain:				
Power.....	605	560	788	412
Hand.....			7	42
Venetian:				
Power.....			18	88
Hand.....			1	3
Smyrna:				
Power.....	413	487	964	1,131
Hand.....		11	57	563
Colonial or rag:				
Power.....	82	123	186	(1)
Hand.....	249	20	116	(1)
Tapestry Brussels.....	1,209	1,281	2,680	2,490
Tapestry velvet.....	1,114	1,309	636	549*
Body Brussels.....	894	550	1,018	710
Wilton.....	1,225	1,521	2,562	1,433
Axminster.....	2,111	2,704		
Moquette.....	84	26		

* Not including looms on woven goods, other than carpets and rugs: 1919—1,099; 1914—489; 1909—328; 1904—2,101.

TABLE 49.—LOOMS USED IN THE CARPET AND RUG INDUSTRY, BY STATES: 1919.

KIND.	NUMBER.					
	United States.	Connecticut.	Massachusetts.	New Jersey.	New York.	Pennsylvania.
Looms on carpets and rugs, total.....	18,157	536	1,085	235	2,925	3,376
Power looms.....	7,897	536	836	235	2,914	3,376
Hand looms.....	260		249		11	
Carpet looms:						
Ingrain.....	439				445	394
Broad ingrain.....	24					24
Tapestry Brussels.....	982	66	22		606	288
Tapestry velvet.....	835	55			14	766
Body Brussels.....	347		55		257	35
Wilton.....	262	48	100		18	96
Axminster.....	1,078	6	170		751	151
Smyrna.....						
Power.....	33				6	27
Colonial or rag—						
Power.....	45				4	41
Hand.....	160		160			
Rug looms:						
Ingrain.....	192		98			94
Broad ingrain.....	671		170	42	24	435
Tapestry Brussels.....	227	56	33	9	117	12
Tapestry velvet.....	279	30		22	158	69
Body Brussels.....	47		5			42
Wilton.....	963	110	180	24	58	591
Axminster.....	1,033	165	3	43	614	208
Moquette.....	34			34		
Smyrna.....						
Power.....	380			61	242	77
Colonial or rag—						
Power.....	37				11	26
Hand.....	89		89			

* Not including 1,099 looms on woven goods, other than carpets and rugs.

* In addition, 188 looms were used on woven goods, other than carpets and rugs.

* In addition, 911 looms were used on woven goods, other than carpets and rugs.

* Includes 11 hand looms.

FELT-GOODS INDUSTRY.

Summary of materials.—This industry is essentially a wool-felt and hair-felt industry. Establishments engaged chiefly in the manufacture of cotton felts are not included in this industry. Table 50 relates to the quantity and cost of materials used in the industry during a number of successive census years.

Wool used in the industry.—The quantity and cost of wool used in 1919 is shown in Table 51 with respect to the condition in which it was purchased and the equivalent total, in the grease, and scoured.

TABLE 50.—MATERIALS USED IN THE FELT-GOODS INDUSTRY: 1919, 1914, 1909, AND 1904.

MATERIAL.	1919	1914	1909	1904
Total cost.....	\$22,780,775	\$8,308,270	\$6,967,206	\$5,751,026
Wool:				
In condition purchased—				
Pounds.....	11,804,373	14,069,852	12,409,826	11,868,238
Cost.....	\$9,359,160	\$4,030,114	\$3,027,393	\$3,388,588
Equivalent of above in scoured condition, pounds.....	9,450,913	10,476,716	9,308,172	8,131,082
Animal hair, etc:				
Pounds.....	10,603,511	11,540,635	8,144,011	6,974,634
Cost.....	\$1,394,810	\$739,955	\$239,244	\$373,797
Cotton:				
Pounds.....	1,442,406	3,117,272	1,375,670	1,982,624
Cost.....	\$487,363	\$207,632	\$155,815	\$217,200
Recovered wool fiber:				
Pounds.....	4,194,670	3,502,795	2,536,243	1,532,127
Cost.....	\$1,332,935	\$409,518	\$261,878	\$157,031

TABLE 51.—MATERIALS USED IN THE FELT-GOODS INDUSTRY: 1919, 1914, 1909, AND 1904—Continued.

MATERIAL.	1919	1914	1909	1904
Waste and noils:				
Pounds.....	6,040,136	4,064,699	4,874,712	1,948,969
Cost.....	\$1,355,908	\$1,019,687	\$1,220,110	\$452,509
Chemicals and dyestuffs, cost.....	\$804,616	\$269,921	\$219,891	\$189,750
All other materials, cost.....	\$5,295,983	\$1,541,443	\$942,875	\$975,151

TABLE 51.—WOOL USED IN THE FELT-GOODS INDUSTRY: 1919.

	Pounds.	Cost.
Wool purchased.....	11,804,373	\$9,359,160
Domestic.....	7,496,756	6,319,494
Foreign.....	4,307,617	3,039,666
In condition purchased.....	11,804,373	
In grease.....	5,211,991	
Domestic.....	2,929,593	
Foreign.....	2,282,398	
Washed.....	870,068	
Domestic.....	458,472	
Foreign.....	411,596	
Scoured.....	5,722,314	
Domestic.....	4,105,691	
Foreign.....	1,613,623	
Equivalent total.....	26,754,860	
In grease.....	17,303,947	
Domestic.....	11,271,897	
Foreign.....	6,032,050	
Scoured.....	9,450,913	
Domestic.....	6,188,624	
Foreign.....	3,262,289	

Products.—A list of products, with quantity and value for each, is given in Table 52 for each census from 1904.

TABLE 52.—PRODUCTS OF THE FELT-GOODS INDUSTRY: 1919, 1914, 1909, AND 1904.

PRODUCT.	1919	1914	1909	1904
Total.....	\$39,220,540	\$13,092,765	\$11,852,026	\$8,048,594
Felt cloths:				
Pounds.....	3,397,378	(¹)	(²)	(³)
Square yards.....	2,751,497	(³)	3,704,468	3,680,610
Value.....	\$8,785,109	\$797,048	\$1,381,854	\$1,830,027
Trimming and lining felts, felt skirts, table and piano covers:				
Pounds.....	4,158,950	(³)	(²)	(²)
Square yards.....	9,199,673	8,369,330	5,953,410	5,145,340
Value.....	\$3,143,678	\$1,321,337	\$1,320,086	\$1,188,908
Polishing felts and buffing wheels:				
Pounds.....	1,132,598	(³)	(³)	(³)
Square yards.....	2,185,465	(³)	(³)	(³)
Value.....	\$1,307,123	(³)	(³)	(³)
Piano felts:				
Pounds.....	777,558	(³)	(³)	(³)
Square yards.....	381,338	(³)	(³)	(³)
Value.....	\$1,945,938	(³)	(³)	(³)
Saddle felts:				
Pounds.....	812,508	2,291,602	1,650,991	(³)
Value.....	\$630,234	\$973,853	\$576,840	(³)
Endless belts:				
Pounds.....	250,000	3,941,795	3,243,034	1,770,124
Value.....	\$478,285	\$4,164,186	\$3,417,822	\$1,707,210
Boot and shoe linings:				
Pounds.....	2,471,177	(³)	(³)	(³)
Square yards.....	5,280,970	3,028,288	1,661,090	2,823,137
Value.....	\$2,603,724	\$1,512,783	\$514,456	\$781,450

¹ In addition, in 1919, felt goods to the value of \$2,385,762 and in 1914, to the value of \$181,640 were made by establishments engaged primarily in the manufacture of other products.

² Not reported.

³ Not reported separately.

TABLE 52.—PRODUCTS OF THE FELT-GOODS INDUSTRY: 1919, 1914, 1909, 1904—Continued.

PRODUCT.	1910	1914	1909	1904
Hair felting:				
Pounds.....	6,658,787	(¹)	(¹)	(¹)
Square yards.....	7,222,741	1,350,430	1,159,999	605,214
Value.....	\$2,240,653	\$635,041	\$531,045	\$191,906
All other felts, value.....	\$15,809,201	\$3,691,081	\$3,649,876	\$2,592,584
All other products, value.....	\$2,707,425	\$597,936	\$552,038	\$655,501

¹ Not reported.

Machinery.—The kind and quantity of machinery in common use by the industry is shown, by states, in Table 53 for the year 1919.

TABLE 53.—MACHINERY USED IN THE FELT-GOODS INDUSTRY, BY STATES: 1919.

KINDS.	NUMBER.						
	Total.	Connecticut.	Massachusetts.	New Jersey.	New York.	Ohio.	All other states.
Woolen cards ¹ (sets).....	440	36	157	33	76	21	117
Spindles.....	233,258	1,790	2,000	.....	12,678	7,978	8,812
Mule spinning (woolen).....	232,947	1,790	2,000	.....	12,603	7,978	8,576
Doubbling and twisting (woolen).....	311	.....	.....	.....	75	.....	236
Looms.....	510	28	60	.....	174	112	136
Broad.....	480	28	60	.....	166	112	114
Medium.....	15	.....	.....	.....	5	.....	10
Narrow.....	15	.....	.....	.....	3	.....	12
Wool-combing machines.....	12	.....	.....	.....	.....	.....	12
Pickers.....	94	7	36	5	19	5	22
Garnett machines.....	31	3	9	.....	9	2	8

¹ Includes shoddy cards.

² Includes 40 worsted spindles.

WOOL-FELT HAT INDUSTRY.

Materials.—Table 54 gives the quantity and cost of the principal materials used in the wool-felt hat industry during 1919, 1914, 1909, and 1904.

TABLE 54.—MATERIALS USED IN THE WOOL-FELT HAT INDUSTRY: 1919, 1914, 1909, AND 1904.

MATERIAL.	1919	1914	1909	1904
Total cost.....	\$3,099,822	\$978,339	\$2,472,268	\$1,300,810
Wool:				
In condition purchased—				
Pounds.....	200,294	606,957	1,203,498	1,033,525
Cost.....	\$212,632	\$298,345	\$404,127	\$405,594
Equivalent in scoured condition, pounds.....	194,828	561,039	989,110	1,231,876
Wool waste and nolls:				
Pounds.....	711,747	454,099	1,281,704	287,368
Cost.....	\$791,900	\$213,851	\$661,172	\$119,407
Wool-felt hat bodies and hats in the rough:				
Dozens.....	72,213	13,449	21,864	12,089
Cost.....	\$573,925	\$20,046	\$83,020	\$25,997
Chemicals and dyestuffs, cost.....	\$172,320	\$34,501	\$104,503	\$63,905
All other materials, cost.....	\$1,949,045	\$404,996	\$1,219,441	\$664,907

Wool used in the industry.—The quantity and cost of wool used in the manufacture of wool-felt hats, in 1919, is shown in Table 55 with respect to the condition in which it was purchased and its equivalent in the grease, and scoured.

Products.—The products of the industry, in quantity and value, are given for a number of census years in Table 56.

TABLE 55.—WOOL USED IN THE WOOL-FELT HAT INDUSTRY: 1919.

	Pounds.	Cost.
Wool purchased.....	200,294	\$212,632
In grease.....	10,435	.....
Washed.....	.....	.....
Scoured.....	189,859	.....
Equivalent total:		
In grease.....	385,272	.....
Scoured.....	194,828	.....

TABLE 56.—PRODUCTS OF THE WOOL-FELT HAT INDUSTRY: 1919, 1914, 1909, AND 1904.

PRODUCT.	1919	1914	1909	1904
Total value.....	\$6,739,052	\$1,944,484	\$4,382,411	\$2,457,266
Wool-felt hats:				
Dozens.....	401,893	381,044	590,957	446,121
Value.....	\$5,409,505	\$1,777,225	\$3,646,787	\$2,290,070
Wool-felt hat bodies and hats in the rough:				
Dozens.....	104,144	5,715	53,896	18,587
Value.....	\$165,469	\$13,029	\$309,492	\$100,491
All other products, value.....	\$1,164,678	\$154,230	\$426,132	\$66,705

¹ In addition, in 1919, wool-felt hats to the value of \$76,404; in 1914, to the value of \$305,181; and in 1909, to the value of \$904,043, were made by establishments engaged primarily in other industries.

GENERAL TABLES.

Comparative summary, by states.—Table 57 gives, for 1919, 1914, and 1909, by states, the number of establishments, average number of wage earners, primary horsepower, wages, cost of materials, and value of products for the combined industry.

Detailed statement, by states.—Table 58 presents, for 1919, statistics in detail for the industry as a whole, and for each branch separately, for each state that can be shown without the possibility of disclosing the operations of individual establishments.

TABLE 57.—COMPARATIVE SUMMARY, BY STATES: 1919, 1914, AND 1909.

STATE.	Cen- sus year.	Num- ber of estab- lish- ments.	Wage earners (aver- age num- ber).	Primary horse- power.	Expressed in thousands.		
					Wages.	Cost of mate- rials.	Value of prod- ucts.
United States..	1919	1,016	196,404	525,757	\$198,586	\$759,193	\$1,234,657
	1914	979	195,285	442,330	93,358	298,063	464,250
	1909	1,124	202,029	400,762	87,963	322,441	507,187
Connecticut.....	1919	47	8,132	22,570	8,872	33,208	53,814
	1914	53	7,350	18,194	8,731	10,764	17,129
	1909	50	7,789	17,518	3,485	12,838	19,363
Georgia.....	1919	3	505	1,680	440	1,966	2,703
	1914	3	524	1,680	181	355	598
	1909	7	660	1,437	175	443	871
Illinois.....	1919	4	482	1,112	385	1,715	2,708
	1914	9	341	1,103	167	461	783
	1909	0	409	1,342	237	773	1,314
Indiana.....	1919	11	948	1,860	725	3,320	4,542
	1914	10	719	1,519	818	991	1,522
	1909	11	776	1,678	293	1,056	1,570
Kentucky.....	1919	10	565	1,128	428	1,949	3,247
	1914	11	675	1,773	210	611	934
	1909	14	818	2,506	241	858	1,278
Maine.....	1919	06	9,913	28,373	11,038	36,227	60,327
	1914	57	7,998	23,839	4,072	10,823	17,531
	1909	03	8,553	21,651	3,779	11,121	18,002
Massachusetts.....	1919	207	58,084	190,105	61,050	227,371	366,566
	1914	183	50,574	154,061	26,752	89,746	141,330
	1909	189	50,149	126,477	27,022	94,797	153,477
Michigan.....	1919	9	812	1,502	719	2,881	4,572
	1914	9	477	1,311	230	793	1,215
	1909	15	554	1,900	235	863	1,571
Minnesota.....	1919	11	574	1,491	474	1,780	2,864
	1914	16	448	1,266	229	850	1,293
	1909	16	277	642	123	429	699
New Hampshire.....	1919	44	9,772	33,119	9,549	26,479	45,944
	1914	40	9,532	30,392	4,211	10,087	15,039
	1909	39	9,486	30,485	8,640	11,095	16,731
New Jersey.....	1919	35	14,782	30,614	14,459	\$55,699	\$102,302
	1914	35	15,336	26,219	6,526	24,421	38,491
	1909	42	13,536	21,224	5,339	21,931	35,884
New York.....	1919	68	18,800	44,439	19,100	56,394	100,402
	1914	65	21,092	39,020	9,842	28,682	47,174
	1909	80	21,358	34,275	10,015	28,059	49,345
Ohio.....	1919	10	780	2,040	605	2,028	3,386
	1914	12	2,959	6,123	1,136	3,462	7,233
Oregon.....	1919	5	808	2,341	754	1,940	3,357
	1914	7	648	1,670	373	943	1,702
	1909	8	469	1,628	202	527	929
Pennsylvania.....	1919	259	30,936	69,047	32,296	140,408	217,598
	1914	266	34,030	58,232	15,766	58,047	87,508
	1909	310	38,919	63,478	16,116	69,282	102,326
Rhode Island.....	1919	88	24,393	58,918	23,634	116,915	175,312
	1914	80	22,745	50,206	11,368	41,735	60,889
	1909	88	24,924	43,715	11,538	51,025	74,600
Tennessee.....	1919	13	1,366	1,966	803	2,232	4,242
	1914	17	1,069	2,302	289	923	1,547
	1909	21	1,654	2,371	419	1,127	1,802
Texas.....	1919	18	3,031	9,712	3,382	10,533	17,426
	1914	17	2,226	8,841	1,167	2,989	4,635
	1909	17	2,294	7,213	1,043	2,879	4,497
Vermont.....	1919	12	630	1,405	469	1,536	2,693
	1914	12	431	911	168	420	790
	1909	16	542	1,352	176	567	999
Virginia.....	1919	7	542	1,256	512	1,692	2,779
	1914	8	276	672	118	417	679
	1909	13	599	1,327	222	795	1,224
West Virginia.....	1919	89	10,453	21,079	8,892	33,209	57,933
	1914	69	6,835	12,936	3,204	9,643	16,223
	1909	110	9,173	18,543	3,654	11,976	20,685
All other states.....	1919	89	10,453	21,079	8,892	33,209	57,933
	1914	69	6,835	12,936	3,204	9,643	16,223
	1909	110	9,173	18,543	3,654	11,976	20,685

- 1 Excludes statistics for 2 establishments to avoid disclosing individual operations.
 2 Excludes statistics for 3 establishments to avoid disclosing individual operations.
 3 Excludes statistics for 1 establishment to avoid disclosing individual operations.
 4 Excludes statistics for 6 establishments to avoid disclosing individual operations.
 5 Excludes statistics for 5 establishments to avoid disclosing individual operations.

MANUFACTURES.

TABLE 58.—DETAILED STATEMENT FOR WOOL

INDUSTRY AND STATE.	Number of establishments.	PERSONS ENGAGED IN THE INDUSTRY.							WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.					Capital.	
		Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc.		Wage earners.		Total.	16 and over.		Under 16.			
					Male.	Female.	Average number.	Number, 15th day of—		Male.	Female.	Male.	Female.		
								Maximum month.							Minimum month.

WOOL MANUFACTURES.

		1,016	208,225	488	5,152	3,826	2,355	196,404	Do 228,597	Fe 140,168	229,181	127,801	92,811	3,779	4,790	Dollars.
1	United States.....															980,746,958
2	Connecticut ¹	47	8,582	5	230	113	102	8,132	Do 9,132	Fe 6,771	9,179	6,435	2,415	175	154	42,405,215
3	Georgia ²	3	617	.....	17	3	2	595	Jy 617	Oc 554	621	373	237	4	7	1,075,502
4	Illinois ³	4	513	.....	18	13	.....	482	Je 499	Ja 451	498	304	187	3	4	1,928,633
5	Indiana.....	11	1,000	8	19	24	7	948	Do 1,006	Fe 838	1,000	481	505	9	11	3,120,611
6	Kentucky.....	10	597	9	16	4	3	565	No 610	Fe 433	625	210	202	21	72	1,695,367
7	Louisiana.....	3	22	2	.....	1	1	18	(b) 18	(b) 18	18	7	10	1	.....	13,150
8	Maine ⁴	60	10,470	10	331	129	98	9,913	Do 11,543	Fe 7,374	11,513	7,355	4,057	59	42	49,708,885
9	Maryland.....	3	223	3	7	5	1	207	Do 351	Ja 25	351	208	80	.....	.....	1,984,388
10	Massachusetts ⁵	207	61,335	88	1,521	741	901	58,084	Do 60,745	Fe 39,852	68,793	39,831	25,430	1,542	1,989	293,074,737
11	Michigan ⁶	9	880	2	35	14	17	812	Do 892	Ja 682	892	505	377	6	5	3,624,657
12	Minnesota ⁶	11	682	1	41	50	16	574	Do 590	Fe 539	600	288	312	.....	.....	2,353,331
13	New Hampshire.....	44	10,170	15	226	86	80	9,772	Do 10,733	Fe 8,222	10,736	6,717	3,915	50	54	44,724,203
14	New Jersey ⁷	35	10,002	13	295	709	143	14,782	Do 17,049	Fe 4,018	15,188	8,337	8,939	373	539	93,121,497
15	New York.....	68	19,805	33	421	375	176	18,800	Do 21,004	Fe 15,204	21,802	12,891	8,891	71	39	88,979,340
16	Ohio ⁴	10	854	2	32	22	12	780	No 819	My 730	776	300	470	.....	.....	3,699,111
17	Oregon ⁸	5	858	.....	17	27	6	808	Do 909	Mh 701	855	457	392	.....	6	2,459,000
18	Pennsylvania.....	259	33,079	205	925	652	361	30,939	Do 35,365	Fe 24,304	35,590	18,210	10,054	611	679	157,607,810
19	Rhode Island ⁹	88	25,650	18	585	410	238	24,393	Do 20,006	Fe 15,827	29,243	14,323	13,065	757	1,068	125,863,731
20	Tennessee.....	13	1,442	9	31	27	9	1,360	Oc 1,418	Ap 1,247	1,413	744	614	21	34	2,955,816
21	Vermont.....	18	3,225	8	100	46	31	3,081	Do 3,817	Ja 1,819	3,815	2,826	982	1	6	15,135,801
22	Virginia.....	12	668	7	20	7	4	630	Oc 663	Mh 591	662	454	204	2	2	2,338,595
23	West Virginia.....	7	500	.....	36	6	6	542	Do 623	Mh 412	623	370	253	.....	.....	2,242,672
24	Wisconsin ¹⁰	24	1,187	17	56	24	20	1,070	Do 1,208	Fe 802	1,207	550	608	17	32	4,553,605
25	All other states ¹⁰	59	9,750	33	104	272	123	9,158	.....	.....	10,112	5,529	4,480	56	47	44,449,661

WOOLEN GOODS.

		500	67,020	258	2,229	894	682	62,057	Do 70,374	Fe 47,872	72,002	47,730	23,274	560	492	273,973,670
1	United States.....															
2	Connecticut.....	35	5,625	5	163	50	50	5,351	Do 6,000	Fe 4,434	6,053	4,428	1,505	72	50	23,841,721
3	Georgia.....	3	617	.....	17	3	2	595	Jy 617	Fe 554	621	373	237	4	7	1,075,502
4	Illinois.....	4	513	.....	18	13	.....	482	Je 499	Ja 451	498	304	187	3	4	1,928,633
5	Indiana.....	11	1,000	8	19	24	7	948	Do 1,006	Fe 838	1,000	481	505	9	11	3,120,611
6	Maine.....	59	7,387	10	274	108	80	6,916	Do 8,108	Fe 4,633	8,098	5,388	2,070	24	10	33,803,497
7	Maryland.....	3	223	3	7	5	1	207	Do 354	Ja 25	354	208	80	.....	.....	1,984,388
8	Massachusetts.....	111	18,604	50	625	202	219	17,698	Do 20,235	Fe 12,544	20,242	13,050	5,833	241	218	77,495,511
9	Michigan.....	9	880	2	35	14	17	812	Do 892	Ja 682	892	505	377	6	5	3,624,657
10	Minnesota.....	11	682	1	41	50	16	574	Do 590	Fe 539	600	288	312	.....	.....	2,353,331
11	New Hampshire.....	39	5,009	11	177	44	60	5,317	Do 6,038	Fe 4,073	6,041	4,308	1,722	8	3	23,122,689
12	New Jersey.....	6	1,344	4	30	35	4	1,271	Do 1,367	Ja 1,186	1,284	593	670	8	13	4,578,361
13	New York.....	25	3,531	11	100	34	38	3,348	Do 3,990	Fe 2,078	4,040	2,501	1,515	20	13	14,339,283
14	Ohio.....	10	854	2	32	22	12	780	No 819	Mh 730	776	300	476	.....	.....	3,699,111
15	Oregon.....	5	858	.....	17	27	6	808	Do 909	Mh 701	855	457	392	.....	6	2,469,000
16	Pennsylvania.....	108	7,955	90	295	111	61	7,398	Do 8,631	Mh 5,182	8,075	5,330	3,206	83	56	31,548,546
17	Rhode Island.....	26	3,346	4	115	44	39	3,144	Do 3,785	Fe 1,848	3,648	2,780	780	50	29	15,709,896
18	Tennessee.....	13	1,442	9	31	27	9	1,366	Oc 1,418	Ap 1,247	1,413	744	614	21	34	2,955,816
19	Virginia.....	12	668	7	20	7	4	630	Oc 663	Mh 591	662	454	204	2	2	2,338,595
20	Wisconsin.....	21	943	17	43	21	13	849	Do 955	Fe 645	959	470	467	9	12	3,374,488
21	All other states ¹⁰	49	4,873	24	170	53	38	4,588	.....	.....	5,336	3,810	1,507	1	12	19,959,624

- ¹ Includes water wheels and turbines (irrespective of ownership of water supply), and water motors (operated by water from city mains).
- ² Chiefly electric motors operated by rented (or purchased) current; other power included (chiefly shaft-belt or transmitted power from neighboring power plants).
- ³ Excludes statistics for 2 establishments to avoid disclosure of individual operations. These are included in "All other states."
- ⁴ Excludes statistics for 6 establishments to avoid disclosure of individual operations. These are included in "All other states."
- ⁵ Same number reported throughout the year.

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[illegible]

Dollars. 27, 62, 110	Dollars. 10, 568, 023	Dollars. 198, 586, 069	Dollars. 9, 316, 229	Dollars. 1, 287, 215	Dollars. 58, 471, 518	Dollars. 741, 336, 843	Dollars. 17, 856, 476	Dollars. 1, 234, 657, 062	Dollars. 475, 463, 773	525, 757	230, 900	121, 547	1, 852	81, 094	90, 334	176, 943
1, 815, 062	324, 581	8, 872, 070	08, 058	35, 580	3, 249, 708	32, 382, 934	825, 546	53, 814, 059	20, 065, 579	22, 570	8, 545	2, 360	125	7, 198	4, 342	4, 810
70, 217	5, 931	439, 723			120, 631	1, 021, 896	44, 483	2, 702, 988	1, 036, 600	1, 680	800				880	
83, 652	30, 434	386, 208			49, 855	1, 604, 064	40, 780	2, 707, 908	1, 003, 064	1, 112	675			250	187	
116, 483	113, 206	725, 120		480	100, 562	3, 248, 027	71, 956	4, 542, 067	1, 222, 084	1, 890	1, 400			200	260	310
50, 956	6, 986	427, 800			132, 849	1, 912, 058	30, 547	3, 247, 060	1, 298, 455	1, 128	789		26	20	293	224
	520	12, 201			1, 620	15	12, 534	1, 415	34, 436	20, 476	10					
1, 520, 244	201, 312	11, 037, 750	300, 428	27, 031	3, 624, 116	35, 181, 894	1, 044, 894	60, 327, 200	24, 100, 502	28, 373	7, 880		197	11, 408	8, 788	1, 187
21, 019	5, 182	228, 036	17, 604	1, 640	3, 661	882, 486	21, 350	1, 641, 205	656, 860	1, 280	115		135	950	60	40
7, 639, 468	2, 478, 080	61, 049, 980	3, 044, 117	183, 125	17, 573, 675	220, 831, 121	6, 490, 029	366, 696, 496	139, 135, 349	190, 105	64, 548	70, 689	30	24, 244	30, 594	81, 240
180, 889	69, 327	718, 075	2, 601		184, 070	2, 807, 067	73, 991	4, 671, 704	1, 690, 646	1, 502	700			36	766	15
					9, 414	183, 052	1, 734, 652	45, 489	2, 804, 259	1, 084, 118	1, 491	370		25	410	689
180, 987	87, 915	474, 380	36, 053	3, 552	2, 058, 462	25, 601, 593	887, 643	45, 943, 993	19, 464, 757	33, 119	9, 947	8, 350	5	12, 998	1, 831	11, 016
983, 745	233, 211	9, 549, 413	11, 058		30, 310	9, 157, 849	54, 529, 559	1, 169, 700	102, 302, 296	46, 603, 637	30, 614	16, 180	10, 323	561	3, 295	13, 975
1, 780, 574	1, 640, 504	14, 458, 701	111, 642	52, 517	3, 889, 782	54, 856, 933	1, 637, 676	100, 401, 524	44, 607, 415	44, 439	18, 821	7, 608	2	9, 322	8, 686	17, 334
2, 386, 462	1, 392, 953	19, 099, 095	06, 003	924	43, 584	1, 971, 447	56, 873	3, 385, 985	1, 357, 665	2, 040	1, 075			30	935	21
144, 077	97, 814	605, 245														
57, 695	72, 935	754, 004	1, 990		402, 171	1, 858, 725	87, 744	3, 356, 650	19, 410, 190	2, 341	153			1, 250	938	40
4, 910, 831	1, 831, 310	32, 765, 754	1, 604, 612	594, 087	4, 807, 062	138, 240, 598	2, 153, 390	217, 698, 384	77, 190, 468	69, 047	53, 090	2, 150	461	1, 157	12, 180	20, 330
4, 027, 152	1, 103, 123	23, 633, 005	368, 963	107, 692	10, 332, 851	114, 792, 220	2, 122, 558	175, 312, 358	58, 397, 580	58, 918	29, 148	10, 254		4, 590		

10,001,098	2,540,003	66,595,820	1,198,862	484,512	16,806,713	212,180,028	5,776,305	364,896,590	146,931,257	172,947	74,876	10,623	1,577	46,705	39,166	25,791	1
834,507	144,798	5,055,985	08,658	4,588	1,670,255	18,614,892	529,515	32,357,099	13,212,683	14,679	6,300	4,688	3,096	2,207	2
70,217	5,031	439,723	120,631	1,021,896	44,438	2,702,988	1,036,609	1,680	800	880	3
38,652	30,434	396,208	49,555	1,664,064	40,780	2,707,008	1,003,064	1,112	675	250	187	4
116,483	113,206	725,120	480	100,652	3,248,027	71,956	4,542,087	1,860	1,400	200	200	5
1,240,606	244,118	7,020,318	176,463	19,073	2,432,574	25,014,080	701,551	42,441,533	16,726,952	21,941	6,390	10,003	5,351	6
21,619	5,152	228,030	17,504	1,540	8,861	82,486	21,259	1,541,205	658,880	1,280	115	135	950	60	7
2,925,847	580,723	10,799,570	303,052	40,019	5,531,027	60,372,260	1,721,258	105,183,068	43,899,560	50,100	21,609	6,290	30	10,619	12,152	8
180,859	69,327	718,075	2,001	184,070	2,807,087	73,991	4,571,704	1,690,646	1,502	700	30	765	9
180,987	87,015	474,380	3,058	9,414	183,052	1,734,652	45,489	2,984,259	1,080,118	1,491	370	25	410	688	10
732,989	146,156	5,862,151	11,058	3,552	1,187,003	13,178,812	519,859	31,245,162	12,548,491	17,379	7,047	5	8,688	1,641	11
223,626	101,023	1,165,897	147,168	2,060,281	95,590	5,210,270	2,154,393	2,795	2,155	40	550	50	12
483,118	92,009	3,241,421	58,435	20,928	687,382	10,499,380	133,008	17,546,090	6,733,722	10,066	3,815	375	2,705	3,071	13
144,677	97,814	505,245	924	43,584	1,971,447	56,873	3,385,985	1,357,655	2,040	1,075	30	935	14
57,595	72,835	754,064	1,990	62,171	1,855,725	87,744	3,350,659	1,410,190	2,341	168	1,250	938	15
1,379,802	323,399	8,267,436	365,107	148,472	1,014,534	27,805,192	634,053	48,239,627	19,900,332	15,961	11,174	635	336	397	3,429	16
645,504	155,266	3,550,272	95,521	19,695	1,281,873	13,489,894	292,719	22,331,419	8,449,306	7,176	3,749	670	1,506	1,251	17
100,178	65,290	803,015	111,105	2,182,922	2,162,782	60,693	4,242,057	2,009,662	1,966	935	12	75	944	18
43,976	15,081	409,223	183	771	141,455	1,488,254	50,143	2,093,142	1,154,745	1,405	830	138	337	300	19
185,499	62,067	604,244	771	3,890	217,914	2,237,831	53,813	3,998,368	1,706,724	2,457	1,021	45	1,064	298	20
846,070	115,622	4,549,228	100,662	1,057,430	13,599,646	451,982	33,835,939	9,784,411	13,736	4,564	2,613	114	4,024	2,321	21

¹ Excludes statistics for 1 establishment to avoid disclosure of individual operations. These are included in "All other states."

² Excludes statistics for 5 establishments to avoid disclosure of individual operations. These are included in "All other states."

³ Excludes statistics for 3 establishments to avoid disclosure of individual operations. These are included in "All other states."

⁴ All other states embrace: California, 5 establishments; Colorado, 1; Delaware, 2; Florida, 1; Iowa, 2; Missouri, 3; North Carolina, 5; South Carolina, 1; Texas, 1; and Wisconsin, 1 establishment. Statistics for these states are shown separately without disclosing individual operations.

¹⁰ All other states embrace: California, 2 establishments; Delaware, 1; Iowa, 2; Kentucky, 9; Missouri, 2; North Carolina, 5; Utah, 2; Vermont, 17; Washington, 3; and West Virginia, 6.

TABLE 58.—DETAILED STATEMENT FOR WOOL

INDUSTRY AND STATE.		Number of establishments.	PERSONS ENGAGED IN THE INDUSTRY.								WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.						Capital.
			Total.	Proprietors and firm members.	Salaried officers, superintendents, and managers.	Clerks, etc.		Wage earners.			Total.	16 and over.		Under 16.			
						Male.	Female.	Average number.	Number, 15th day of—			Male.	Female.	Male.	Female.		
									Maximum month.	Minimum month.							
1	United States.....	292	100,372	129	2,219	2,048	1,146	103,830	Do 122,495	Fe 67,489	122,587	57,921	57,911	2,825	3,930	Dollars. 557,721,078	
2	Connecticut.....	9	2,579	-----	56	45	31	2,447	Do 2,752	Fe 2,025	2,752	1,694	807	96	95	16,775,765	
3	Maine.....	7	3,092	-----	57	21	16	2,908	Do 3,415	Ja 2,621	3,415	1,967	1,387	35	26	15,845,398	
4	Massachusetts.....	71	37,997	32	780	385	495	36,296	Do 43,873	Fe 23,755	43,245	22,629	17,905	1,124	1,587	190,353,441	
5	New Hampshire.....	5	4,570	4	49	42	20	4,455	Se 4,718	Ja 4,125	4,695	2,409	2,193	42	51	21,001,514	
6	New Jersey.....	20	14,318	7	349	717	120	13,219	Do 16,303	Fe 2,550	16,590	7,476	8,224	364	526	87,014,806	
7	New York.....	14	4,680	12	100	67	28	4,404	No 5,148	Fe 3,106	5,052	2,096	2,927	16	13	18,029,944	
8	Pennsylvania.....	89	16,340	57	358	334	197	15,400	Do 17,358	Fe 12,778	17,423	9,939	9,580	402	496	80,390,892	
9	Rhode Island.....	62	22,804	14	470	372	199	21,249	Do 25,221	Fe 13,979	26,595	11,543	12,300	707	1,039	110,153,835	
10	Wisconsin.....	3	244	-----	13	3	7	221	Au 207	Fe 157	248	80	141	8	19	1,209,037	
11	All other states ^a	12	3,242	3	69	62	27	3,081	-----	-----	3,572	1,088	2,375	31	78	16,346,446	

WORSTED GOODS.																
1	United States.....	75	24,251	50	444	566	258	22,933	Do 26,502	Ja 18,622	27,002	16,573	9,739	352	338	119,196,461
2	Massachusetts.....	10	3,365	6	51	108	60	3,134	Au 3,720	Fe 2,410	4,058	2,162	1,552	165	179	14,435,308
3	New York.....	10	9,440	3	134	166	64	9,073	Do 10,551	Ja 7,397	10,581	6,641	3,897	32	11	44,492,445
4	Pennsylvania.....	48	8,188	37	232	196	97	7,020	Do 8,813	Fe 5,800	8,915	5,535	3,130	119	125	43,865,640
5	All other states ^a	7	3,258	4	27	96	31	3,100	-----	-----	3,448	2,235	1,164	36	23	16,403,068

FELT GOODS.																
1	United States.....	49	5,934	8	198	242	250	5,236	Do 5,744	My 4,874	5,895	4,478	1,371	30	16	35,024,373
2	Connecticut.....	3	378	-----	11	18	15	334	Do 374	Ja 303	374	315	43	7	9	1,787,729
3	Massachusetts.....	15	1,309	-----	56	46	121	1,080	Ja ^a 1,143	Je 1,021	1,248	1,090	140	13	6	10,790,477
4	New Jersey.....	6	1,331	-----	16	17	13	285	Do 321	Ja 239	300	201	38	1	-----	1,510,621
5	New York.....	10	1,537	4	61	40	1,401	Do 1,030	My 1,185	1,030	1,210	1,210	421	3	2	10,409,470
6	Pennsylvania.....	4	210	-----	8	7	6	189	Ap 219	Ja 104	202	180	22	-----	-----	1,018,920
7	All other states ^a	11	2,149	4	40	103	56	1,941	-----	-----	2,135	1,422	707	6	-----	9,507,166

WOOL-FELT HATS.																
1	United States.....	40	1,048	43	62	76	19	1,448	Au 1,023	Ja 910	1,035	1,003	510	12	14	3,831,376
2	Louisiana.....	3	22	2	-----	1	1	18	(?) 18	(?) 18	18	7	10	1	-----	13,150
3	New Jersey.....	3	9	2	-----	-----	-----	7	Se ^a 14	Ja ^a 2	14	7	7	-----	-----	17,709
4	New York.....	9	507	3	17	57	6	514	Au 840	Ja 216	574	443	131	-----	-----	1,708,198
5	Pennsylvania.....	10	380	21	32	4	-----	323	Je 426	Mh 197	345	232	104	7	2	783,812
6	All other states ^a	15	640	15	13	14	12	583	-----	-----	684	404	204	4	12	1,308,507

¹ Includes water wheels and turbines (irrespective of ownership of water supply) and water motors (operated by water from city mains).² Chiefly electric motors operated by rented (or purchased) current; "other" power included (chiefly shaft-beit or transmitted power from neighboring power plants.³ All other states embrace: Delaware, 1 establishment; Georgia, 1; Illinois, 1; Kentucky, 1; Ohio, 3; Oregon, 1; South Carolina, 1; Texas, 1; Vermont, 1; and West Virginia, 1.⁴ All other states embrace: Connecticut, 1 establishment; New Jersey, 5; and Wisconsin, 1.

WOOL MANUFACTURES.

MANUFACTURES, BY STATES AND INDUSTRIES: 1919—Continued.

MANUFACTURES, BY STATES AND INDUSTRIES: 1919—Continued.

EXPENSES.								Value of products.	Value added by manufacture.	POWER.						
Salaries and wages.			For contract work.	Rent and taxes.		For materials.				† Primary horsepower.					Electric horsepower generated in establishments reporting.	
Officials.	Clerks, etc.	Wage earners.		Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.			Total.	Owned.					Rented. ¹
											Steam engines (not turbines).	Steam turbines.	Internal-combustion engines.	Water power. ¹		

WORSTED GOODS.

WORSTED GOODS.

WORSTED GOODS.																	
Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	Dollars.	295,533	123,333	103,074	216	29,476	39,374	129,050	1
12,898,848	4,941,812	101,512,855	8,013,000	587,902	36,630,594	438,007,587	9,021,763	700,537,482	252,908,132								
										6,794	1,785	2,335	125	2,175	374	2,603	2
805,080	115,111	2,011,470	189,975	31,000	1,541,967	12,340,920	247,019	18,928,293	6,334,354	6,432	1,590	3,437	1,405	3,437	650	3	
285,635	47,194	3,111,432	3,581,005	7,058	1,191,542	10,107,784	343,343	17,885,677	7,374,550	128,030	37,424	63,724	12,009	15,413	66,180	4	
3,920,644	1,334,287	36,940,984		102,091	11,505,350	146,340,845	4,275,098	237,443,077	86,826,534	15,740	2,900	8,350	4,300	190	9,000	5	
200,756	87,055	3,087,202			870,849	7,414,781	367,784	14,608,831	6,916,260	27,061	13,380	10,288	9	145	2,244	6	
1,512,538	1,492,005	13,003,328	111,542	18,634	8,904,437	50,484,385	1,032,498	95,115,024	43,598,141								
										12,789	5,186	2,433		4,670	500	8,341	7
475,842	480,619	3,833,733		7,518	418,957	14,045,741	371,562	21,111,159	6,603,856	38,947	30,609	355	50	690	7,263	13,293	8
2,430,632	300,256	15,569,889	1,154,824	326,204	2,037,637	81,517,520	994,426	118,475,141	35,903,195	51,742	25,399	15,584		3,084	7,675	12,729	9
3,381,848	947,857	20,074,333	2,734,442	87,897	9,060,978	101,802,826	1,829,839	158,080,939	49,948,274	528	425		32	100	1,275	3,222	10
65,611	27,524	162,888		3,900	105,537	1,026,779	20,113	1,406,995	450,103	6,870	4,695			868	1,275		11
330,956	94,844	2,508,530	2,703,112	2,100	348,360	13,860,000	139,481	22,302,346	8,802,859								
CARPETS AND RUGS.																	

CARPETS AND RUGS.

CARPETS AND RUGS.																
2,768,222	1,981,562	24,216,121	80,716	142,850	3,841,821	65,390,376	1,727,603	123,253,828	56,135,789	38,170	22,952	5,825	85	2,207	7,101	18,012
390,457	311,255	3,145,512	22,319	313,072	7,716,326	275,050	13,593,990	5,572,614	6,132	3,820	175	1,400	787	3,395	2	3,395
926,111	479,576	10,083,498	4,264	2,301,608	22,765,598	673,407	48,717,885	25,278,880	15,281	9,830	3,500	807	4,644	5,651	3	5,651
1,014,794	679,069	7,976,617	84,621	1,059,671	26,990,532	571,637	47,479,830	19,947,661	12,446	9,987	1,150	85	1,224	4,755	4	4,755
427,660	481,682	3,010,564	2,095	1,200	137,670	7,917,920	207,569	13,462,123	5,336,634	4,311	2,815	1,000	496	4,211	5	4,211
FELT GOODS.																

FELT GOODS.

FELT GOODS.																	
1,138,561	958,781	4,873,490	9,009	42,110	1,614,343	22,155,136	625,639	39,229,540	16,448,765	16,411	7,805	2,025	4	2,341	4,236	3,690	1
70,089	61,672	304,621	.....	11,096	31,556	1,421,122	49,012	2,528,676	1,058,512	1,097	460	25	.....	340	272	.....	2
293,550	213,513	1,151,905	.....	11,100	191,126	6,421,690	213,020	10,286,361	3,616,651	5,243	1,695	500	.....	756	2,262	.....	3
44,410	47,416	283,378	.....	7,650	46,135	1,071,408	41,176	1,950,300	837,721	754	615	.....	2	60	47	.....	4
388,424	225,232	1,404,055	1,058	7,650	477,573	6,370,203	142,730	10,694,533	4,181,650	5,167	2,790	1,800	2	775	300	1,618	5
35,512	14,792	211,194	.....	0,554	73,161	1,065,505	28,775	1,805,832	711,552	736	600	.....	.....	100	36	35	6
302,566	393,126	1,484,739	7,963	5,710	791,792	5,805,213	145,926	11,963,788	6,012,649	3,414	1,615	200	.....	310	1,289	994	7
WOOL-FELT HATS.																	

WOOL-FELT HATS.

222,386	135,895	1,387,777	7,082	20,781	78,047	3,594,716	105,106	6,739,652	3,039,830	2,896	1,874	365	457	400	1
	520	12,261	1,620	15	12,545	1,415	34,436	20,476	10						2
		6,100	576	109	13,490	430	26,702	13,782	4						3
			7,172	12,157	9,362	1,175,531	36,969	2,331,607	1,119,307	1,136	600	365	171	50	4
114,967	108,533	536,688	4,790	22,159	900,837	29,439	1,597,954	667,678	957	720			237	350	5
60,061	4,797	210,688	10,638	46,402	1,492,313	36,853	2,748,753	1,219,587	539	554			35		6
47,358	22,015	592,040	510												

* Same number reported for one or more other months.
 * All other states embrace: California, 1 establishment; Illinois, 1; Maine, 2; Michigan, 1; Missouri, 1; Ohio, 2; Rhode Island, 1; and Wisconsin, 2.
 * Same number reported throughout the year.
 * All other states embrace: California, 2 establishments; Colorado, 1; Connecticut, 1; Florida, 1; Georgia, 1; Illinois, 4; Massachusetts, 2; Minnesota, 1; Ohio, 1; and Washington, 1.

WOOL SHODDY.

GENERAL STATISTICS.

General character of the industry.—This industry includes establishments engaged primarily in recovering or reclaiming wool fiber from rags, tailors' clippings, mill waste, etc., either by a mechanical or chemical process.

Summary of statistics for the manufacture of wool shoddy.—A comparative summary for the industry is presented in Table 59, covering the years 1919, 1914, and 1909.

Principal states, ranked by value of products.—The relative importance of the states representing this industry, for the year 1919, is shown, according to value of products, in Table 60.

Persons engaged in the manufacture of wool shoddy.—Table 61 relates to the number and class of persons engaged in the wool-shoddy industry, according to sex, in 1919, 1914, and 1909.

Wage earners, by months, for selected states.—The number of wage earners according to sex and states is shown in Table 62, by months, for the year 1919. The total number of wage earners employed in the industry is shown, by months, for 1919, 1914, and 1909.

Prevailing hours of labor.—Table 63 shows that the number of wage earners has substantially increased during the five-year period 1914-1919 and that the number of working hours per week has decreased from

60 to 48, during this time, according to the number of wage earners employed in the industry.

Size of establishments, by average number of wage earners.—Table 64 shows the concentration of operations in a few large establishments. Of the 78 establishments, 13 employed a total of 1,590 wage earners, or 62 per cent of the number employed in the industry in the United States.

Size of establishments, by value of products.—The size of establishments as measured by value of products is shown in Table 65, a large share of the total value of products for the industry—41.9 per cent—being confined to a small number of establishments—6.4 per cent—in 1919.

Character of ownership.—The number of establishments, by character of ownership, with corresponding value of products, is shown for the United States and by states in Table 66.

Number and horsepower of types of prime movers.—The various types of power used in the industry will be seen by reference to Table 67. The number of horsepower is given for each kind as well as the per cent distribution.

Fuel consumed.—In Table 68 is shown the kinds and amounts of fuel used in this industry in the United States in 1919 in comparison with 1914, and the consumption, by states, in 1919.

TABLE 59.—COMPARATIVE SUMMARY: 1919, 1914, AND 1909.

	1919	1914	1909	PER CENT OF INCREASE. ¹			1919	1914	1909	PER CENT OF INCREASE. ¹	
				1914-1919	1909-1914					1914-1919	1909-1914
Number of establishments.....	78	64	80	.....	.....	Salaries and wages.....	\$3, 070, 392	\$1, 343, 171	\$1, 129, 614	173.3	18.9
Persons engaged.....	2, 956	2, 391	2, 177	23.0	9.8	Salaries.....	1, 017, 223	287, 067	265, 548	254.4	8.1
Proprietors and firm members....	64	58	70	.....	.....	Wages.....	2, 653, 169	1, 056, 114	864, 066	151.2	22.2
Salaried employees.....	320	188	178	73.4	5.6	Paid for contract work.....	14, 005	1, 570	3, 581	836.0	-56.2
Wage earners (average number)...	2, 566	2, 146	1, 923	19.6	11.5	Rent and taxes.....	758, 259	65, 757	54, 752	1, 053.1	20.1
Primary horsepower.....	16, 694	12, 440	12, 535	34.2	-0.8	Cost of materials.....	10, 076, 315	5, 299, 903	4, 530, 979	203.3	16.7
Capital.....	\$16, 980, 722	\$6, 420, 985	\$6, 272, 154	164.6	2.4	Value of products.....	23, 254, 308	7, 706, 843	6, 854, 993	201.7	12.4
						Value added by manufacture ²	7, 178, 083	2, 406, 940	2, 315, 014	198.2	4.0

¹ A minus sign (—) denotes decrease; percentages are omitted where base is less than 100.

² Value of products less cost of materials.

TABLE 60.—PRINCIPAL STATES, RANKED BY VALUE OF PRODUCTS: 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.....	78	2, 566	100.0	.....	\$23, 254	100.0	.....	\$7, 178	100.0	.....
Massachusetts.....	23	623	24.3	1	5, 515	23.7	1	1, 615	25.3	1
Connecticut.....	9	303	11.8	4	3, 702	16.2	2	631	9.1	4
Ohio.....	3	604	19.6	2	3, 720	16.0	3	1, 365	19.0	2
New York.....	14	380	14.8	3	3, 058	13.2	4	1, 145	16.0	3
Pennsylvania.....	9	153	6.0	7	1, 375	5.9	7	550	7.7	6
Rhode Island.....	7	70	2.7	8	445	1.9	9	200	2.8	8
All other states ¹	13	533	20.8	.....	5, 379	23.1	.....	1, 452	20.2	.....

¹ All other states embrace: Illinois, 2 establishments; Maine, 3; New Jersey, 2; Tennessee, 1; Vermont, 3; and Wisconsin, 2.

WOOL SHODDY.

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TABLE 61.—PERSONS ENGAGED IN THE INDUSTRY: 1919, 1914, AND 1909.

CLASS.	Cen- sus year.	Total.	Male.	Fe- male.	PER CENT OF TOTAL.		CLASS.	Cen- sus year.	Total.	Male.	Fe- male.	PER CENT OF TOTAL.	
					Male.	Fe- male.						Male.	Fe- male.
All classes.....	1919	2,956	2,449	507	82.8	17.2	Clerks and other subordinate salaried employees.	1919	163	107	56	65.6	34.4
	1914	2,391	1,937	454	81.0	19.0		1914	99	81	18	81.8	18.2
	1909	2,177	1,732	445	79.6	20.4		1909	89	71	18	79.8	20.2
Proprietors and officials.....	1919	227	220	7	98.9	3.1	Wage earners (average number).....	1919	2,566	2,122	444	82.7	17.3
	1914	147	142	5	96.6	3.4		1914	2,145	1,714	431	79.9	20.1
	1909	165	154	11	93.3	6.7		1909	1,923	1,507	416	78.4	21.6
Proprietors and firm members.....	1919	64	61	3	95.3	4.7	16 years of age and over.....	1919	2,519	2,115	404	84.0	16.0
	1914	58	55	3	94.8	5.2		1914	2,141	1,711	430	79.9	20.1
	1909	76	69	7	90.8	9.2		1909	1,921	1,505	416	78.3	21.7
Salaried officers of corporations.....	1919	70	69	1	98.6	1.4	Under 16 years of age.....	1919	47	7	40	14.9	85.1
	1914	46	44	2	95.7	4.3		1914	4	3	1	75.0	25.0
	1909	39	37	2	94.9	5.1		1909	2	2	0	100.0	0.0
Superintendents and managers.....	1919	93	90	3	96.8	3.2							
	1914	43	43	0	100.0	0.0							
	1909	50	48	2	96.0	4.0							

TABLE 62.—WAGE EARNERS, BY MONTHS, FOR SELECTED STATES: 1919.

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

STATE.	Average num- ber em- ployed during year.	NUMBER EMPLOYED ON 15TH DAY OF THE MONTH OR NEAREST REPRESENTATIVE DAY.												Per cent mini- mum is of maxi- mum.
		Janu- ary.	Febru- ary.	March.	April.	May.	June.	July.	August.	Septem- ber.	Octo- ber.	Novem- ber.	Decem- ber.	
United States:														
1919.....	2,566	2,516	2,405	2,444	2,585	2,664	2,650	2,580	2,592	2,637	2,530	2,520	2,669	90.1
Males.....	2,122	2,054	1,955	2,004	2,126	2,206	2,200	2,130	2,154	2,207	2,109	2,089	2,230	87.7
Females.....	444	462	450	440	459	458	450	450	438	430	421	431	439	91.1
1914.....	2,145	2,143	2,224	2,220	2,250	2,188	2,137	2,097	2,041	2,014	2,034	2,104	2,288	88.0
1909.....	1,923	1,864	1,908	1,924	1,895	1,904	1,920	1,915	1,886	1,916	1,952	1,950	2,036	91.6
Connecticut.....	303	294	295	271	324	353	348	316	309	315	273	269	299	75.1
Massachusetts.....	623	598	578	606	634	676	644	621	608	643	609	582	677	85.4
New York.....	380	357	357	330	354	358	372	374	404	421	402	417	405	80.5
Ohio.....	504	520	503	504	503	516	509	502	505	493	496	499	498	94.8
Pennsylvania.....	153	158	146	144	145	146	153	153	153	154	157	159	170	84.1

TABLE 63.—AVERAGE NUMBER OF WAGE EARNERS, BY PREVAILING HOURS OF LABOR PER WEEK, FOR SELECTED STATES: 1919 AND 1914.

STATE.	Cen- sus year.	Total.	IN ESTABLISHMENTS WHERE THE PREVAILING HOURS OF LABOR PER WEEK WERE—							STATE.	Cen- sus year.	Total.	IN ESTABLISHMENTS WHERE THE PREVAILING HOURS OF LABOR PER WEEK WERE—								
			44 and under.	Be- tween 44 and 48.	48. ¹ and 54.	54. and 60.	60. and over.	Over 60.	44 and under.				Be- tween 44 and 48.	48. and 54.	54. and 60.	60. and over.	Over 60.				
United States....	1919	2,566	153	.....	617	275	261	590	401	269	New York.....	1919	380	12	.....	116	143	29	14	61	.....
	1914	2,145	(?)	(?)	7	.....	510	498	731	393		1914	283	.....	.....	.....	.....	194	54	35	.....
Connecticut.....	1919	303	139	.....	86	.....	2	75	1	.....	Ohio.....	1919	504	.....	.....	.....	.....	.....	307	197	.....
	1914	135	.....	.....	.....	.....	.....	56	79	.....		1914	523	.....	.....	.....	.....	.....	2	169	352
Massachusetts.....	1919	623	2	.....	328	55	81	121	36	.....	Pennsylvania.....	1919	153	.....	.....	66	72	.....	15	.....	.....
	1914	446	(?)	(?)	7	.....	94	108	196	41		1914	193	.....	.....	.....	.....	183	10	.....	.....

¹ Includes 48 and under for 1914.

* Corresponding figures not available.

TABLE 64.—SIZE OF ESTABLISHMENTS, BY AVERAGE NUMBER OF WAGE EARNERS, FOR SELECTED STATES: 1919.

STATE.		TOTAL.		ESTABLISHMENTS EMPLOYING—													
		Estab-lish-ments.	Wage earners (average number).	No wage earners.	1 to 5 wage earners, inclusive.	6 to 20 wage earners, inclusive.	21 to 50 wage earners, inclusive.	51 to 100 wage earners, inclusive.	101 to 250 wage earners, inclusive.	251 to 500 wage earners, inclusive.							
				Estab-lish-ments.	Estab-lish-ments.	Wage earners.	Estab-lish-ments.	Wage earners.	Estab-lish-ments.	Wage earners.	Estab-lish-ments.	Wage earners.	Estab-lish-ments.	Wage earners.	Estab-lish-ments.	Wage earners.	
United States.....	1919..	78	2,566	3	21	40	21	237	20	600	8	601	4	682	1	307	
	1914..	64	2,145	2	13	20	18	224	23	820	4	248	3	403	1	307	
Connecticut.....		9	303	.....	4	5	1	8	2	67	1	84	1	189	.....	.....
Massachusetts.....		23	623	.....	4	7	8	93	8	205	1	50	1	169	.....	.....
New York.....		14	380	.....	5	17	2	19	3	107	3	237	.....	.....	.....	.....
Ohio.....		3	504	.....	.....	.....	.....	.....	.....	.....	1	54	1	143	.....	.....
Pennsylvania.....		9	153	.....	1	3	5	61	3	89	.....	.....	.....	.....	.....	.....

TABLE 65.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS: 1919, 1914, AND 1909.

VALUE OF PRODUCT.	NUMBER OF ESTABLISHMENTS.			AVERAGE NUMBER OF WAGE EARNERS.			VALUE OF PRODUCTS.			VALUE ADDED BY MANUFACTURE.		
	1919	1914	1909	1919	1914	1909	1919	1914	1909	1919	1914	1909
Wool shoddy.....	78	64	80	2,566	2,145	1,023	\$23,254,308	\$7,706,843	\$6,854,093	\$7,178,083	\$2,406,940	\$2,315,014
Less than \$5,000.....	11	0	14	15	8	27	30,278	15,887	40,021	22,430	12,867	22,953
\$5,000 to \$20,000.....	10	14	10	32	84	124	118,575	159,942	196,815	91,304	92,701	112,618
\$20,000 to \$100,000.....	21	21	25	232	514	403	1,063,500	1,220,158	1,332,900	551,514	537,430	547,497
\$100,000 to \$500,000.....	23	20	22	754	1,639	1,270	0,380,438	4,182,864	5,285,197	2,315,190	1,703,882	1,631,946
\$500,000 to \$1,000,000.....	8	3		543			5,015,218	2,121,992		1,090,417		
\$1,000,000 and over.....	5			990			9,747,590			2,501,129		
PER CENT DISTRIBUTION.												
Wool shoddy.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than \$5,000.....	14.1	9.4	17.5	0.6	0.4	1.4	0.1	0.2	0.6	0.3	0.5	1.0
\$5,000 to \$20,000.....	12.8	21.9	23.8	1.2	3.9	0.4	0.5	2.1	2.9	1.3	3.9	4.9
\$20,000 to \$100,000.....	26.9	32.8	31.2	9.0	24.0	25.7	4.6	15.9	19.4	7.7	22.3	23.6
\$100,000 to \$500,000.....	29.5	31.2	27.5	29.4	71.7	66.5	27.5	54.3	77.1	32.3	73.3	70.5
\$500,000 to \$1,000,000.....	10.3	4.7		21.2			25.4	27.5		23.6		
\$1,000,000 and over.....	6.4			38.6			41.0			34.8		

TABLE 66.—CHARACTER OF OWNERSHIP, BY STATES: 1919.

STATE.	NUMBER OF ESTABLISHMENTS OWNED BY—			AVERAGE NUMBER OF WAGE EARNERS.						VALUE OF PRODUCTS.					
				In establishments owned by—			Per cent of total.			Of establishments owned by—			Per cent of total.		
	Indi-vid-u-als.	Cor-pora-tions.	All oth-ers.	Total.	Indi-vid-u-als.	Cor-pora-tions.	All oth-ers.	Indi-vid-u-als.	Cor-pora-tions.	All oth-ers.	Total.	Indi-vid-u-als.	Cor-pora-tions.	All oth-ers.	Indi-vid-u-als.
United States.....	26	36	16	2,566	230	2,005	331	9.0	78.1	12.9	\$23,254,308	\$1,022,399	\$18,207,275	\$3,124,724	8.3
	19	30	15	2,145	281	1,583	281	13.1	73.8	13.1	7,706,843	1,045,922	5,177,865	1,483,056	13.6
	30	29	15	1,023	518	1,060	345	26.9	55.1	17.9	6,854,093	2,130,203	3,452,251	1,272,539	31.1
Connecticut.....	5	3	1	303	14	1,289		4.6	95.4		3,781,820	37,226	3,724,594		1.0
Massachusetts.....	8	11	4	623	81	513	20	13.0	82.3	4.7	5,514,555	690,701	4,722,055	101,709	12.5
New York.....	3	8	3	380	8	234	138	2.1	61.6	36.3	3,058,202	26,470	1,493,984	1,537,829	0.9
Pennsylvania.....	2	3	4	153		1,103	50		67.3	32.7	1,374,096		788,875	589,121	57.4
Rhode Island.....	2	3	2	70	131	39		44.3	55.7		444,705	1,351,448	93,347		79.0

Includes the group "All others."

Includes the group "Individuals."

TABLE 67.—NUMBER AND HORSEPOWER OF TYPES OF PRIME MOVERS: 1919, 1914, AND 1909.

POWER.	NUMBER OF ENGINES OR MOTORS.			HORSEPOWER.					
	1919	1914	1909	Amount.			Per cent distribution.		
				1919	1914	1909	1919	1914	1909
Primary power, total.....	419	188	153	16,604	12,440	12,535	100.0	100.0	100.0
Owned.....	93	106	136	9,569	10,748	11,822	57.3	86.4	94.3
Steam.....	45	61	77	6,544	7,498	7,785	39.2	60.3	62.1
Engines.....	44	(2)	(2)	6,414	(2)	(2)	38.4	(2)	(2)
Turbines.....	1	(2)	(2)	130	(2)	(2)	0.8	(2)	(2)
Internal-combustion engines.....	2	1	1	76	20	50	0.5	0.2	0.4
Water wheels, turbines, and motors.....	46	44	58	2,949	3,230	3,987	17.7	26.0	31.8
Rented.....	326	62	17	7,125	1,692	713	42.7	13.6	5.7
Electric.....	326	62	17	6,998	1,496	545	41.9	12.0	4.3
Other.....				127	196	168	0.8	1.6	1.3
Electric.....	302	84	26	9,199	1,916	738	100.0	100.0	100.0
Rented.....	326	62	17	6,998	1,496	545	76.1	78.1	73.8
Generated by establishments reporting.....	66	22	9	2,201	420	193	23.9	21.9	26.2

† Figures for horsepower include for 1909 the amount reported under the head of "Other" owned power.

‡ Corresponding figures not available.

TABLE 68.—FUEL CONSUMED, BY STATES: 1919 AND 1914.

STATE.	COAL.		Coke (tons, 2,000 pounds).	Oil, in- cluding gasoline (barrels).	Gas (1,000 cubic feet).	STATE.	COAL.		Coke (tons, 2,000 pounds).	Oil, in- cluding gasoline (barrels).	Gas (1,000 cubic feet).
	Anthra- cite (tons, 2,240 pounds).	Bitumi- nous (tons, 2,000 pounds).					Anthra- cite (tons, 2,240 pounds).	Bitumi- nous (tons, 2,000 pounds).			
United States..... 1919.....	6,813	45,060	535	225	4,513	New York.....	840	1,950		8	
..... 1914.....	9,956	41,042		125	65,466	Ohio.....		14,103	250	217	4,513
Connecticut.....	157	6,399				Pennsylvania.....	993	2,922			
Massachusetts.....	14	10,950				Rhode Island.....		380			
						All other states.....	4,809	8,947	283		

† All other states embrace: Illinois, 2 establishments; Maine, 3; New Jersey, 2; Tennessee, 1; Vermont, 3; and Wisconsin, 2.

SPECIAL STATISTICS.

Combined summary of materials, products, and equipment.—Comparative statistics for 1919 and 1914 are presented in Table 69 with reference to the quantity and cost of materials used, the quantity and value of products, and the machinery equipment common to the wool-shoddy industry.

TABLE 69.—MATERIALS, PRODUCTS, AND EQUIPMENT, WITH PER CENT OF INCREASE: 1919 AND 1914.

	1919	1914	Per cent of in- crease, ¹ 1914- 1919.		1919	1914	Per cent of in- crease, ¹ 1914- 1919.
MATERIALS.				PRODUCTS.			
Total cost.....	\$16,076,315	\$5,299,903	203.3	Total value.....	\$23,254,398	\$7,706,843	201.7
Rags, clippings, etc.: Pounds.....	63,244,868	57,867,962	10.2	Recovered wool fiber: Pounds.....	58,786,504	43,156,037	36.2
Cost.....	\$12,173,784	\$3,103,864	292.2	Value.....	\$20,644,001	\$5,977,284	245.4
Wool and other noils and wool waste: Pounds.....	12,361,895	6,879,366	79.7	Carbonized rags (wool extract): Pounds.....	19,786	4,627,568	-99.6
Cost.....	\$1,607,053	\$803,633	86.1	Value.....	\$8,092	\$639,332	-98.7
Recovered wool fiber: Pounds.....	394,546	1,658,432	-76.2	All other products, value.....	\$1,503,481	\$686,527	119.0
Cost.....	\$13,164	\$168,457	-92.2	Amount received from contract work for others on materials or goods furnished by them.....	\$1,098,824	\$406,700	170.2
Wool (in condition purchased): Pounds.....	181,052	203,868	-11.2	EQUIPMENT.			
Cost.....	\$164,686	\$81,514	102.0	Cards, number of sets.....	554	574	-3.5
Equivalent of above in scoured condition, pounds.....	181,052	203,868	-11.2	Pickers, number.....	337	315	7.0
Chemicals and dyestuffs, cost.....	\$480,967	\$103,849	371.8	Garnett machines, number.....	157	178	-11.8
All other materials, cost.....	\$1,627,661	\$978,586	66.3				

† A minus sign (—) denotes decrease.

† In addition, in 1919, similar products to the value of \$1,440,480; in 1914, to the value of \$151,982 were reported by establishments engaged primarily in other industries.

Production of recovered wool fiber.—The total quantity in pounds of wool shoddy produced in the United States is shown in Table 70, for 1919 and 1914. A segregation of wool shoddy produced for sale and for own consumption is given according to industrial source.

TABLE 70.—PRODUCTION OF RECOVERED WOOL FIBER: 1919 AND 1914.

	1919	1914
	Pounds.	Pounds.
Total.....	81,260,225	84,836,750
For sale.....	60,881,303	44,049,410
By wool-shoddy mills.....	58,786,504	43,156,037
By other mills.....	2,094,799	803,373
For use in same establishment.....	20,378,922	40,787,349
By establishments manufacturing primarily:		
Woolen goods.....	17,665,485	39,616,226
Worsted goods.....	470,460	464,029
Felt goods.....	1,304,811	707,001
Carpets and rugs.....	842,166	

Scoured wool and recovered wool fiber used in wool manufactures.—Table 71 shows that, of the total pounds of new wool and recovered wool (shoddy) used in wool manufactures, 16.4 per cent was recovered wool fiber in 1919 as compared with 18.7 per cent in 1914.

TABLE 71.—SCOURED WOOL AND RECOVERED WOOL FIBER USED IN WOOL MANUFACTURES: 1919 AND 1914.

	1919		1914	
MATERIAL.	Quantity (pounds).	Per cent of total.	Quantity (pounds).	Per cent of total.
Total.....	353,200,316	100.0	378,652,166	100.0
Scoured wool.....	295,388,119	83.6	307,705,932	81.3
Recovered wool fiber.....	57,811,197	16.4	70,946,264	18.7
Purchased.....	37,532,275	10.6	30,158,915	8.0
Made in establishments using.....	20,378,922	5.8	40,787,349	10.8

GENERAL TABLES.

Comparative summary, by states.—Table 72 shows, for the United States, for 1919, 1914, and 1909, and for such states, for 1919 and 1914, as can be shown without disclosing individual operations, the number of establishments, average number of wage earners, horsepower, wages, cost of materials, and value of products.

Detailed statement, by states.—Table 73 gives, in detail, the principal items of statistics for the United States as a whole and for each state, separately, that can be shown without disclosing the operations of individual establishments.

TABLE 72.—COMPARATIVE SUMMARY, BY STATES: 1919, 1914, AND 1909.

STATE.	Cen- sus year.	Num- ber of estab- lish- ments.	Wage earn- ers (aver- age num- ber).	Pri- mary horse- power.	Wages.	Cost of mate- rials.	Value of prod- ucts.
					Expressed in thousands.		
United States.....	1919	78	2,566	16,694	\$2,653	\$16,076	\$23,254
	1914	64	2,145	12,440	1,056	5,300	7,707
	1909	80	1,923	12,535	864	4,540	6,855
Connecticut.....	1919	9	303	2,693	267	3,111	3,762
	1914	6	135	1,491	66	228	341
Massachusetts.....	1919	23	623	4,419	685	3,700	5,515
	1914	17	445	3,106	240	1,267	1,903
New York.....	1919	11	380	3,213	\$354	\$1,914	\$3,058
	1914	11	283	1,891	145	768	1,110
Ohio.....	1919	3	504	1,325	485	2,355	3,720
	1914	5	523	1,410	255	820	1,353
Pennsylvania.....	1919	9	153	872	184	825	1,375
	1914	12	193	1,307	98	769	959
All other states.....	1919	20	603	4,272	658	4,171	5,824
	1914	13	565	3,285	252	1,448	2,041

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TABLE 73.—DETAILED STATEMENT, BY STATES: 1919.

STATE.	Number of establishments.	PERSONS ENGAGED IN THE INDUSTRY.								WAGE EARNERS DEC. 15, OR NEAREST REPRESENTATIVE DAY.					EXPENSES.		
		Total.	Pro-pri-ors and firm mem-bers.	Sala-ried offi-cers, super-in-tend-ents, and man-agers.	Clerks, etc.		Wage earners.			Total.	16 and over.		Under 16.		Capital.	Salaries and wages	
					Male.	Fe-male.	Aver-age num-ber.	Number, 15th day of—			Male.	Fe-male.	Male.	Fe-male.		Officials.	Clerks, etc.
								Maximum month.	Minimum month.								
United States.....	78	2,956	64	163	107	56	2,566	De 2,669	Fe 2,405	2,709	2,229	438	5	37	\$16,990,722	\$752,935	\$264,288
Connecticut.....	9	339	7	16	6	7	303	My 353	Fe 265	299	266	29	2	2	2,684,641	84,638	12,695
Massachusetts.....	23	740	16	53	32	16	623	De 677	Fe 578	711	609	65	2	35	4,731,554	281,003	58,317
New York.....	14	443	11	30	12	10	380	Se 421	Mh 339	405	366	39	.....	.....	1,872,358	122,357	21,474
Ohio.....	3	563	1	9	34	15	504	Ja 520	Se 493	498	332	166	.....	.....	2,618,949	54,069	127,694
Pennsylvania.....	9	193	13	17	9	1	153	De 170	Ap 143	161	132	28	1	.....	1,077,203	51,967	15,612
Rhode Island.....	7	83	7	5	1	.....	70	De 91	Fe 64	91	90	1	.....	.....	290,298	14,500	120
All other states ¹	13	595	9	33	13	7	533	.....	.....	544	434	110	.....	.....	3,715,719	144,401	28,376

STATE.	EXPENSES—continued.							Value of products.	Value added by manufac-ture.	POWER.					
	Salaries and wages—Con.	For con-tract work.	Rent and taxes.		For materials.					Primary horsepower.					Elec-tric horse-power gener-ated in estab-lish-ments re-port-ing.
			Rent of factory.	Taxes, Federal, state, county, and local.	Principal materials.	Fuel and rent of power.	Total.			Owned.				Rent-ed. ³	
										Steam en-gines (not tur-bines).	Steam tur-bines.	Inter-nal-com-bus-tion en-gines.	Water pow-er. ²		
United States.....	\$2,653,100	\$14,695	\$54,760	\$703,499	\$15,572,310	\$504,005	\$23,254,398	\$7,178,083	16,694	6,414	130	76	2,940	7,125	2,201
Connecticut.....	286,781	.....	.....	19,040	3,033,078	78,107	3,761,820	650,635	2,593	529	.....	.....	785	1,299	.....
Massachusetts.....	684,722	1,805	5,484	199,737	3,573,404	128,404	5,514,555	1,814,747	4,419	1,660	.....	60	905	1,794	265
New York.....	363,095	.....	13,673	40,065	1,856,727	56,952	3,058,292	1,144,613	3,213	1,670	.....	16	337	1,190	1,691
Ohio.....	484,003	.....	1,020	204,091	2,269,665	85,247	3,720,046	1,365,134	1,325	755	.....	.....	.....	570	100
Pennsylvania.....	183,585	12,702	12,820	4,352	798,660	26,373	1,374,996	549,963	872	705	.....	.....	.....	167	.....
Rhode Island.....	80,161	188	3,253	1,521	224,442	20,618	444,795	199,735	544	50	.....	.....	172	322	.....
All other states ¹	579,557	.....	18,610	234,693	3,816,334	110,304	5,379,894	1,453,256	3,728	1,045	130	.....	770	1,783	145

¹ "All other states" embrace: Illinois, 2 establishments; Maine, 3; New Jersey, 2; Tennessee, 1; Vermont, 3; and Wisconsin, 2.

² Includes water wheels and turbines (irrespective of ownership of water supply) and water motors (operated by water from city mains).

³ Chiefly electric motors operated by rented (or purchased) current; other power included (chiefly shaft-belt or transmitted power from neighboring power plants).

WOOL PULLING.

Summary for the industry.—This industry includes establishments that buy pelts and report their cost under "Cost of materials," and the value of pulled wool and skins under "Value of products," and also establishments pulling wool, on contract, from pelts

owned by others and reporting as value of products only the amount received for work done.

Table 74 summarizes the industry for each census year from 1899 to 1919, inclusive.

TABLE 74.—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.....	24	34	37	34	34				
Persons engaged.....	839	823	759	786	541	1.9	8.4	-3.4	45.3
Proprietors and firm members.....	28	31	37	40	31				
Salaried employees.....	111	84	91	65	35	32.1			
Wage earners (average number).....	705	708	631	681	475	-0.4	12.2	-7.3	43.4
Primary horsepower.....	2,162	2,248	1,366	1,324	820	-3.8	64.6	3.2	61.5
Capital.....	\$8,853,437	\$3,534,203	\$3,247,928	\$2,534,029	\$944,715	150.5	8.8	23.2	168.2
Salaries and wages.....	1,192,996	595,506	518,511	439,169	283,372	100.3	14.9	18.1	55.0
Salaries.....	283,208	143,406	131,590	74,415	35,422	97.5	9.0	76.8	110.1
Wages.....	909,788	452,190	386,915	364,754	247,950	101.2	16.9	6.1	47.1
Paid for contract work.....	13,630	16,621	22,460		300	-18.0	-20.0		
Rent and taxes.....	180,604	34,829	33,241	22,185	13,020	418.5	4.8		
Cost of materials.....	12,809,592	6,632,101	4,103,250	103,984	53,975	93.1	61.6	(²)	(²)
Value of products.....	17,361,231	8,272,721	5,180,856	881,706	531,287	100.9	59.7	(²)	(²)
Value added by manufacture ⁴	4,551,639	1,640,620	1,077,606	777,722	477,312	177.4	52.2	38.6	62.9

¹ A minus sign (-) denotes decrease. Percentages are omitted where base is less than 100.
² Exclusive of internal revenue.

³ Figures not strictly comparable.
⁴ Value of products less cost of materials.

WOOL SCOURING.

Summary for the industry.—The majority of woolen and worsted mills using large quantities of grease wool are equipped with scouring plants. Independent scouring establishments supply the market with

the greater part of the domestic scoured wools. A comparative summary, covering 20 years, is given for the wool-scouring industry in Table 75.

TABLE 75.—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.....	33	24	28	27	25				
Persons engaged.....	2,407	1,194	1,262	852	776	101.6	-5.4	48.1	9.8
Proprietors and firm members.....	9	11	18	18	11				
Salaried employees.....	221	124	102	65	45	78.2	21.6	85.5	
Wage earners (average number).....	2,177	1,059	1,142	779	720	105.6	-7.3	46.6	8.2
Primary horsepower.....	9,790	7,579	6,782	3,478	2,900	29.2	11.8	95.0	19.9
Capital.....	\$10,049,960	\$3,493,474	\$3,257,585	\$1,187,716	\$1,061,123	187.7	7.2	174.3	11.9
Salaries and wages.....	3,623,627	778,147	700,364	475,505	410,617	365.7	11.1	47.3	15.8
Salaries.....	727,174	161,554	142,646	77,694	72,011	850.1	13.3	83.6	7.9
Wages.....	2,896,453	616,593	557,718	397,811	338,606	369.8	10.6	40.2	17.5
Paid for contract work.....	4,603	9,889	12,442			-53.5	-20.5		
Rent and taxes.....	509,497	44,389	29,660	25,461	39,245	1,047.8	49.7		
Cost of materials.....	7,228,350	3,176,438	2,122,102	214,624	193,826	127.6	49.7	(*)	(*)
Value of products.....	13,679,584	4,665,412	3,289,215	1,052,909	889,809	199.0	38.8	(*)	(*)
Value added by manufacture ⁴	6,461,234	1,388,974	1,167,113	838,285	695,983	364.5	19.0	39.2	20.4

¹ A minus sign (—) denotes decrease. Percentages are omitted where base is less than 100.
² Exclusive of internal revenue.

³ Figures not strictly comparable.
⁴ Value of products less cost for materials.

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